

The background features abstract geometric shapes. A large, semi-transparent orange cube is positioned in the upper left, overlapping a grey cube with a grid of small dots. The overall aesthetic is modern and tech-oriented.

Alibaba Cloud Product Catalog —

First Edition
February 2022

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Preface



A New Cloud-powered Digital World

Over the past 20 years, the Internet and ICT industries have developed rapidly, giving way to the emergence and explosive growth of the digital economy. The digitalization of various industries has given birth to many new business opportunities and service models. Cloud computing, as a critical infrastructure, will fuel the development of the digital economy. According to the statistics provided by IDC, as of 2021, the worldwide spending on cloud computing is USD 706.6 billion and is expected to exceed USD 1.3 trillion by 2025.

Source: IDC Whole Cloud Forecast 2021-2025: The Path Ahead for Cloud in a Digital-first World, Sept 2021

Cloud-Network-Device Convergence: The Dawn of the Mixed Reality Era

The digital world and the physical world will continue to merge and evolve in new ways. The large-scale deployment and commercial use of global 5G networks and the integration of various technologies and cloud computing will transform end devices, applications, and service scenarios, ushering in new opportunities for technological development.

In a converged cloud-network-device system, each component has clearly defined roles. The cloud functions as the "brain", which is responsible for centralized computing and global data processing. Networks, on the other hand, serve as the interconnecting "tracks" that converge various forms of networks on the cloud to build a ubiquitous, low-latency network. And finally, devices offer light-weight, cost-effective interfaces on various forms of applications to deliver an immersive user experience. The convergence of cloud-network-device is the catalyst for new service scenarios and business opportunities in a wide variety of industries, such as AR/VR gaming, autonomous driving, intelligent manufacturing, telemedicine, and online education. These are the cornerstones of a new digital world we can look forward to.

Preface

Alibaba Cloud's technologies and services have been put to the test numerous times under immense pressure and have always come out ahead. For example, the Double 11 Global Shopping Festival is 100% backed by Alibaba Cloud's cloud-native technologies. Furthermore, as the official Cloud Services partner of the International Olympic Committee, Alibaba Cloud leverages its technologies to support the digital transformation of sporting events. The Beijing 2022 Olympic Winter Games and Paralympic Winter Games are the first Games in which core systems are fully deployed on Alibaba Cloud, and are also the first Games that are broadcasted around the world through the cloud. Alibaba Cloud's secure and reliable cloud services have helped deliver Olympic content to all four corners of the earth, allowing audiences to share in every second of excitement despite facing the COVID-19 pandemic.

Cloud as a New Driver of Growth: Allowing for Better Management and Larger Benefits from Resources and Data

The capabilities of a cloud platform are tied closely to the efficiency and competitiveness of enterprises that choose to deploy their business on the cloud. In order for an enterprise to leverage the benefits in terms of resources, data, and management, they must be able to deploy, use, and manage resources in an efficient, fine-grained manner. The cloud is the best way to achieve this mission.

As enterprises move to the cloud, they can immediately reap the rewards of having more flexible computing resources, which contributes directly to lower costs and higher efficiency. With the advancement in digitalization, we see a steep rise in the number of users and media types, as well as a fundamental shift in user behavior. This leads to a sharp rise in the amount of data being generated by various industries. The first challenge in taming this beast is to reduce the pressure on the IT layer. Cloud computing is a green and low-carbon solution that provides large-scale elastic computing power while reducing data storage and analysis costs. The diversification of cloud deployment models makes it possible to deploy cloud computing resources closer to our users, which will better satisfy their needs and application scenarios.

After enterprises complete their move to the cloud, they can take advantage of the available data to achieve data-driven business development. As the amount of data increases exponentially, enterprises must be able to analyze this data to identify business changes, make business decisions, and improve customer-facing services. It is not hard to see that cloud-based data intelligence is the key to driving business innovation and ensuring continuous revenue growth. However, cloud-based data intelligence also poses challenges to big data and AI engineering and algorithms. For example, machine learning platforms provide enterprises with capabilities in the fields of analyzing user growth, controlling security risks, recommending content, and implementing intelligent search through algorithm optimization, software and hardware integration, and scenario-based models.

Preface

Finally, the cloud provides fine-grained management of resources. As enterprises move more businesses to the cloud, the costs for managing data, products, and applications also increase. Additionally, the increasingly strict security compliance regulations and the changes in internal and external environments have raised the bar for on-cloud resource management. Cloud service providers should leverage their specialized product capabilities to provide enterprises with out-of-the-box solutions for various management scenarios, including solutions for personnel budgeting, assets, rights, and regulation compliance. These specialized, vertical, and fine-grained management requirements also promote cloud service providers to continuously improve their cloud services to better meet customer needs and adapt to the rapidly developing industry.

Global Cooperation: An Accelerator of Digitalization, Intelligence, and Internetization

Alibaba Cloud is committed to continuously building secure, reliable, agile, and efficient digital infrastructure for customers around the world. All in all, we have deployed servers across 80 zones in 25 regions around the world. With increasing investments in infrastructure, we will deploy our services to more regions to better meet the diverse business requirements and scenarios that our customers face.

At the same time, Alibaba Cloud strives to build a new cloud-based world with partners through open innovation. We are building deeper collaboration with partners in various fields around the world to improve our local service capabilities. Our technology, channel distribution, and service systems now encompass more than 10,000 partners worldwide, and provide over 500 innovative digitalization solutions for all industries.

— Jeff Zhang, President of Alibaba Cloud Intelligence

Preface



Keep on Innovating

We have seen 2021 as a year of transitional metamorphosis toward digitization. The year 2022 will continue toward a staggering technological evolution powering massive opportunities for enterprises to achieve digital transformation.

Alibaba Cloud has constantly innovated at the forefront of business intelligence that promotes resilience and sustainability, helping businesses navigate their digital transformation journey. We are increasing our efforts to build and foster an open, collaborative environment for innovation. Alibaba Cloud continues to develop at scale to design a new way ahead in the digital age and drive cloud-native transformation. We have been at the helm of several technological breakthroughs, from delivering unique solutions for the next-generation workforce to technologically supporting the Tokyo 2020 Summer Olympics.

Alibaba Cloud has introduced new solutions to continually improve the technological experience in the digital age. Alibaba Cloud and our practices aim to bring significant benefits such as cost savings, increased efficiency, and multi-dimensional data analysis to our own organization and empower many of our customers around the world. We have unveiled a new in-house processor Yitian 710, and accelerated innovation through Collaboration by making XuanTie RISC-V series processors open-source. It will assist global software developers in developing the core ability including chips, allowing the entire RISC-V ecosystem to benefit from more innovation. We have also been working on new ways to meet the demands of the next generation of workers, such as launching Tingwu, an AI-powered meeting assistant that

Preface



translates virtual meeting audio into transcripts in real-time. In addition, we have launched Lingjie, our latest integrated AI platform, capable of providing real-time data analytics with millisecond delay and various out-of-the-box services.

We also witnessed a greener and more efficient 11.11 Global Shopping Festival in 2021, thanks to innovative green technologies such as liquid cooling and wind energy being applied at our hyper-scale data centers which can reduce the average PUE to as low as 1.09. By running 100% on the Alibaba Cloud for the first time, the 11.11 event saw computing resources reduced by half for every 10,000 transactions compared to last year.

As Socrates said, "The secret of change is not to fight the old, but to focus on building the new." We make joint efforts with our clients and partners to innovate constantly in this digital era.

Let us keep on experiencing innovation on this incredible digital journey with Alibaba Cloud.

— Selina Yuan, General Manager of International Business, Alibaba Cloud Intelligence

About Alibaba Cloud

Founded in 2009, Alibaba Cloud is a leading cloud computing and AI services provider that supports enterprises, developers, and government organizations in more than 200 countries and regions. Alibaba Cloud is committed to providing secure and reliable computing and data processing capabilities for our customers through online public cloud services. In January 2017, Alibaba Cloud became the designated cloud service partner of the Olympic Games. With the support of Alibaba Cloud, the Olympic Games Tokyo 2020 became the first Olympics Games to be fully broadcast over the cloud.

Alibaba Cloud builds new infrastructure for the future with
Alibaba Group's 20 years of technological accumulation.



Infrastructure for Asia and the World

Operates high-performance, green, and reliable data centers with 2800+ CDN nodes worldwide to provide cloud services to 200+ countries and regions

Infrastructure for Digital Economy Development

Empowers the development and innovation of 4 Million+ enterprises worldwide

About Alibaba Cloud

25

Regions

80

Zones

2800+

CDN Nodes Worldwide

Alibaba Cloud provides reliable cloud computing services for users in 80 zones across 25 regions worldwide



*The statistics of zones and regions are updated as of February 2022.

*North China regions include China (Qingdao), China (Beijing), China (Zhangjiakou), China (Hohhot), and China (Ulanqab). East China regions include China (Hangzhou) and China (Shanghai). South China regions include China (Shenzhen), China (Heyuan), and China (Guangzhou). The Southwest China region refers to China (Chengdu).

Alibaba Cloud Product Portfolio

Enterprise Service



Enterprise Applications & Cloud Communication

DingTalk
Alibaba Mail
Domain Name Service
Robotic Process Automation (RPA)

Direct Mail
CloudQuotation
ZOLOZ Real ID
GoChina ICP Filing Assistant

ZOLOZ Smart AML
mPaaS
Blockchain as a Service
Short Message Service



Media Services

ApsaraVideo Live
ApsaraVideo VOD
ApsaraVideo Media Processing

Data Intelligence

AI

IoT



Databases

PolarDB
ApsaraDB RDS for MySQL
ApsaraDB RDS for SQL Server
ApsaraDB RDS for PostgreSQL
AnalyticDB for MySQL
AnalyticDB for PostgreSQL
ApsaraDB for Redis
ApsaraDB for MongoDB
ApsaraDB for HBase
ApsaraDB for MyBase
PolarDB-X
Database Utility & Tools



Analytics

MaxCompute
Hologres
E-MapReduce
Alibaba Cloud Elasticsearch
Realtime Compute for Apache Flink
DataWorks
Quick BI
Dataphin



Artificial Intelligence

Machine Learning Platform for AI
Image Search
Machine Translation
Intelligent Speech Interaction



Internet of Things

IoT Platform
Link IoT Edge

Cloud Infrastructure



Cloud Computing

Elastic Compute Service
ECS Bare Metal Instance
Simple Application Server
Dedicated Host
Resource Orchestration Service
Operation Orchestration Service
Elastic Desktop Service



Storage

Block Storage
Object Storage Service
File Storage NAS
Tablestore
Log Service
Storage Capacity Unit
Hybrid Backup Recovery
Hybrid Cloud Distributed Storage
Cloud Storage Gateway



Networking

Virtual Private Cloud
Server Load Balancer
NAT Gateway
Cloud Enterprise Network
Global Accelerator
VPN Gateway
Smart Access Gateway
Express Connect



Container & Middleware

Alibaba Cloud Container Service for Kubernetes (ACK)
Container Registry
Alibaba Cloud Service Mesh
Message Queue for Apache Kafka
AlibabaMQ for Apache RocketMQ
Message Queue for RabbitMQ
Enterprise Distributed Application Service
Serverless Workflow
Application Real-Time Monitoring Service
Message Service
Function Compute



Security

Anti-DDoS
Security Center
Web Application Firewall (WAF)
Bastionhost
Cloud Firewall
Alibaba Cloud SSL Certificates Service
IDaaS
Fraud Detection
Content Moderation
Sensitive Data Discovery and Protection
Key Management Service
Penetration Test



CDN & Edge

CDN
DCDN
Secure Content Delivery (S-DCDN)

Globally Recognized for Technological Innovation

NO.1

Public Cloud IaaS Market Share in Asia Pacific

Source: Gartner Market Share: IT Services, 2020

NO.1

Public Cloud IaaS+PaaS Share
Source: IDC Public Cloud Services Tracker (2021 Q2)

NO.3

Global Public Cloud IaaS Market Share
Source: Gartner Market Share: IT Services, 2020

World-Leading Cloud Infrastructure

IaaS+PaaS

- Alibaba Cloud has been selected into this Magic Quadrant and the first time Alibaba Cloud has entered the Visionaries Quadrant.

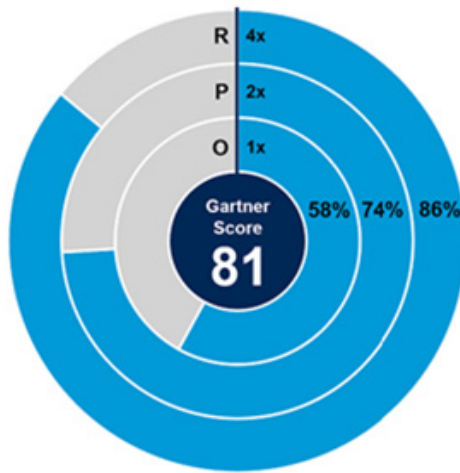
Source: Magic Quadrant for Cloud Infrastructure and Platform Service, 2021



Alibaba Cloud received the highest scores in IaaS segment (Compute+Storage+ Network) and the third highest scores in Cloud Integrated IaaS and PaaS evaluation by Gartner.

Source: Gartner Solution Scorecard for Alibaba Cloud International IaaS+PaaS, 2021

- 1. Gartner, Solution Scorecard for Alibaba Cloud International IaaS+PaaS, By Adrian Wong, 16 November 2021
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Source: Gartner
ID: 757038

As of April 2021

Gartner

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Security

- Alibaba Cloud is recognized by Industry Authorities including Gartner, Forrester, and IDC.

Alibaba Cloud is named as Challenger in the Gartner Magic Quadrant for Network Firewalls by Gartner.

Source: Magic Quadrant for Network Firewalls 2021



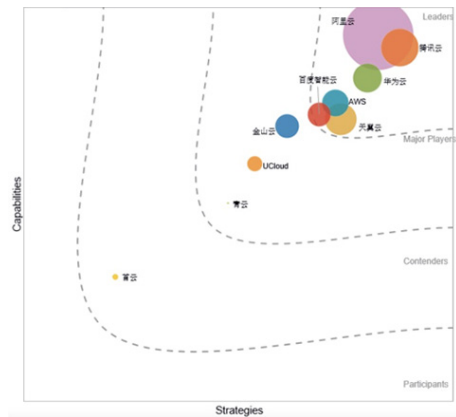
- Alibaba Cloud was named as a contender in Forrester global IaaS platform native security capability assessment, and its product capability ranks first among Chinese vendors.

Source: The Forrester Wave: Infrastructure-As-A-Service Platform Native Security, Q4 2020



- Alibaba Cloud was ranked first among Chinese cloud vendors in terms of security capabilities by IDC, with full security product/technical performance and leading security market share.

Source: IDC MarketScape: Security Capability Assessment for Chinese Cloud Service Providers, 2020



Cloud-Native

Function as a Service (FaaS)

- Alibaba Cloud is the leader in 2020 FaaS Service Platforms.

Source: The Forrester Wave: Function-As-A-Service Platforms, Q1 2021



Containers

- AlibabaCloud named a leader in Public Cloud Container Platforms report with the top score in the Current offering category.

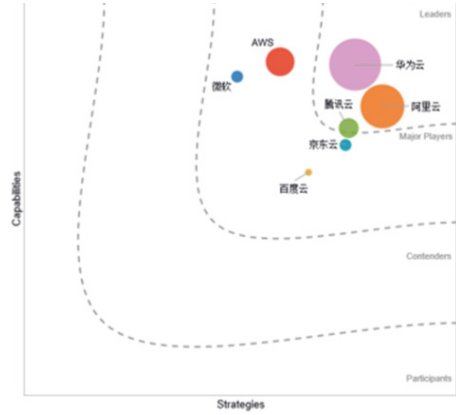
Source: The Forrester Wave™_ Public Cloud Container Platforms, Q1 2022



DevOps

- Alibaba Cloud is the Market Leader in DevOps Cloud Services in China, Ranking 1st in Strategies.

Source: IDC MarketScape: China DevOps Cloud Service, 2019



Application Performance Monitoring (APM)

- In 2021, ARMS+SLS+ Cloud Monitor products are listed in Gartner Magic Quadrant for Application Performance Monitoring for the first time. Alibaba Cloud has entered this Gartner APM MQ, and it is the only Public Cloud Vendor selected in China.

Source: Gartner Magic Quadrant for Application Performance Monitoring, 2021

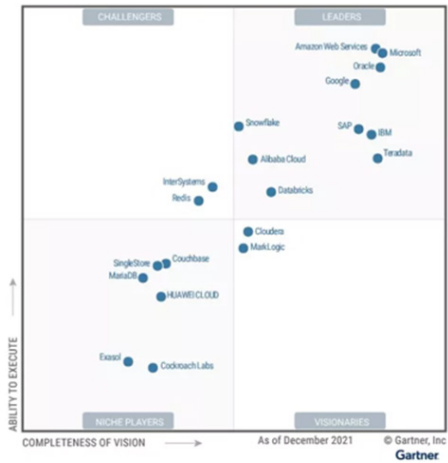


A Front Runner in Data Intelligence

Database

- Alibaba Cloud has been recognized by Gartner and become the only Chinese vendor selected in the Leaders Quadrant.

Source: Magic Quadrant for Cloud Database Management Systems, 2021



Data Warehouse

- Alibaba Cloud is selected by Forrester as a strong performer in the global market.

Source: The Forrester Wave: Cloud Data Warehouse, 2021



Data Intelligence

- Alibaba Cloud was named a Strong Performer again by Forrester in Global Data Intelligence Market, and its product capabilities entered the world's leading group, approaching the Leader quadrant.

Source: Forrester Wave: Specialized Insights Service Providers, Q2 2020



Your Business Partner in Mainland China

NO.1

Financial Cloud Infrastructure and Solutions in China

Source: IDC Financial Cloud Semiannual Tracker, 2021H1

NO.1

Industrial Cloud Market in China

Source: IDC Industrial Cloud Semiannual Tracker, 2020H2

NO.1

Video Cloud Market in China

Source: IDC China Video Cloud Market Tracker, 2020H2

NO.1

Product Technical Capabilities of China Public Cloud IoT Platform

Source: The Forrester Wave: Industrial Internet Platforms in China, Q4 2021

Leader

Collaborative Cloud in Chinese Market

Source IDC Market Scape, 2021

Source <https://www.alibabacloud.com/about/analyst-reports>

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Serving Customers Around the Globe

<https://www.alibabacloud.com/customers>



Finance

"Alibaba Cloud's global scrubbing centers create a secure network with over 10 Tbps total mitigation capacity. Anti-DDoS mitigates around 2,500 DDoS attacks on a daily basis and protects against a DDoS attack of 1 Tbps."

--- Winsor Broker



Retail

"Shiseido has used the extensive services provided by Alibaba Cloud to meet the requirements of the new market environment. Besides, as for the security having been paid more attention in recent years, with the help of the services provided by Alibaba Cloud, we have also achieved the security standards."

--- Keisuke Fujii, ICT Vice President of SHISEIDO China



Manufacturing

"We are impressed by Alibaba Cloud's scalable and flexible technology and its strong ecosystem that enables us to rapidly deliver customized digital solutions for our Chinese customers. We value Alibaba Cloud's local market insights and reliable technology as it supports our "In China, For China" strategy."

--- Robert Hou, Director, Mobility Platforms and Products, Ford Asia Pacific



Gaming

"Empowered by Alibaba Cloud, BIGBANG performed a seamless dynamic migration from the previous cloud environment, built a test environment in about 15 days, migrated their production environment in one month, and achieved a 40% reduction in cloud infrastructure operating costs."

--- Rei Yamashita, Director CTO, BIGBANG Inc.

BIGBANG



enish

PLAYERZPOT

Entertainment

"By partnering with Alibaba Cloud, Hiverlab was able to double-down its focus on innovation, empowering it to focus on building, deploying and managing products and workloads."

--- Ender Jiang Shutao, Founder and Chief Marketing Technologist, Hiverlab



ND LABS

Hiverlab

Alibaba Cloud
Product Catalog

Security & Compliance

| Security and Compliance

Alibaba Cloud is One of the Leading Cloud Vendors With the Most Comprehensive Compliance Program Globally

5,000,000,000

Attacks Blocked Per Day

2,000

DDoS Attacks Blocked Per Day

700,000

Owned Global SSL Certificates

7,340,000

Vulnerabilities Fixed Per Year

Compliance is the cornerstone of Alibaba Cloud. Our compliance best practices encompass architecture design, product implementation, solutions, O&M, and data and privacy protection, integrating compliance into management, technology, processes, and operations. We strive

to build and operate secure, controllable, trustworthy, and flexible cloud services for our customers. Alibaba Cloud will continue to work with our customers to build up a robust compliance framework and promote the improvement of security standards in each industry.

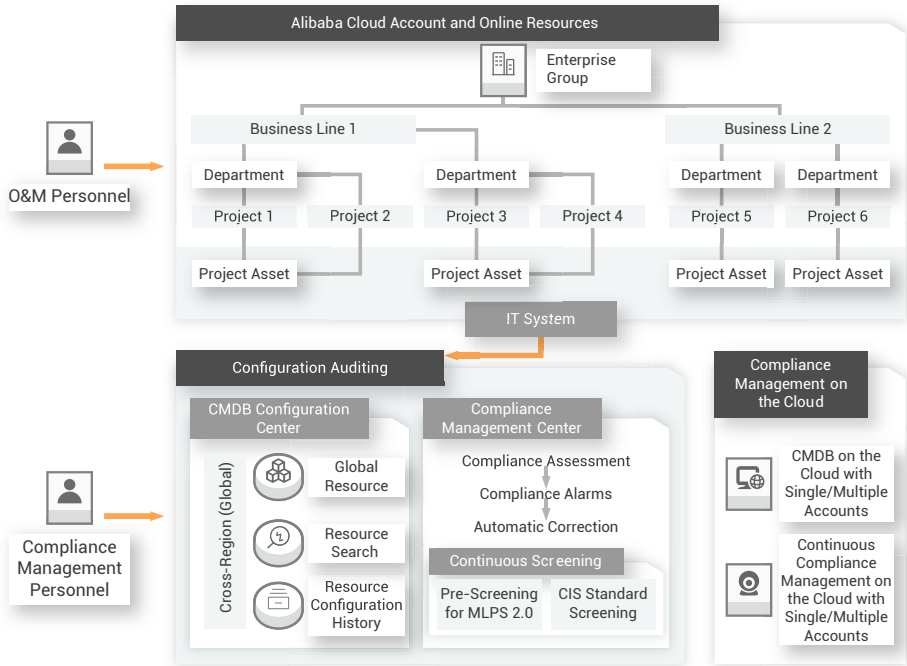
Global and Region-Specific Compliance Program



Global	Country and Region-Specific	
ISO 9001	<p>Europe</p> <p>GDPR DPP EU Cloud CoC</p> <p>USA</p> <p>GxP HIPAA/HITECH SEC Rule 17a-(1) NIST CSF NIST 800-53</p> <p>Germany</p> <p>AIC4 CS Trusted Cloud TISAX</p> <p>Dubai</p> <p>NESA/ISR</p>	<p>Singapore</p> <p>MTCS PDPA OSPAR DPTM CBPR/PRP</p> <p>Japan</p> <p>FISC/NISC</p> <p>Australia</p> <p>APRA TPN</p> <p>China</p> <p>MLPS 2.0 Trusted Cloud ITSS - First Class Cloud Computing Evaluation Big Data Certification Security Product Certification</p> <p>China (Hong Kong)</p> <p>HKMA HKIA SFC PDPO Golden Award</p>
ISO 27001		
ISO 27017		
ISO 27018		
ISO 27701		
ISO 29151		
ISO 20000		
ISO 22301		
BS 10012		
CSA STAR		
PCI DSS		
PCI 3DS		
TRUSTe		
SOC 1 SOC 2 SOC 3		



Alibaba Cloud provides continuous compliance monitoring and detection capabilities on the cloud; you can flexibly define compliance rules for IT systems on the cloud. The services will also provide compliance scenarios based on various regulations and compliance practices, automatically discover changes to resource configurations on the cloud, continuously evaluate and discover compliance alerts and correct compliance issues, thus realizing a closed-loop capability of discovering, evaluating, alerting, and correcting compliance issues on the cloud.



MLPS 2.0 Pre-Screening on the Cloud

Interpreting MLPS 2.0 standards as compliance benchmark on the cloud, monitoring changes to resources continuously, performing compliance assessments in real-time dynamically, and pushing alerts in time for enterprises to keep track of the compliance of information systems on the cloud.

Integrated Resource Configuration and Operation Auditing

Grouping geographically dispersed resources into a unified resource list for users to search for global resources at a unified portal, recording operation auditing and a snapshot of each configuration

change detail and matching operations with results to facilitate troubleshooting.

Compliance Management for Multiple Accounts

Managing multiple Alibaba Cloud master accounts and distributing to them the same compliance rules, and centrally monitoring the compliance implementation of each account to achieve unified compliance management for multiple business lines.

Continuous Compliance on the Cloud

Enabling autonomous compliance supervision by monitoring changes in resource distribution continuously and triggering compliance assessment automatically when changes are made to help enterprises efficiently manage the compliance of IT systems on the cloud.

Alibaba Cloud
Product Catalog

Elastic Computing

- 30 Elastic Compute Service
- 32 ECS Bare Metal Instance
- 33 Simple Application Server
- 34 Dedicated Host
- 35 Resource Orchestration Service
- 36 Operation Orchestration Service
- 37 Elastic Desktop Service



Cloud Computing Services

<https://www.alibabacloud.com/product/computing>

Why Us

Unparalleled Computing Power

Alibaba Cloud computing services are based on the **4th generation SHENLONG architecture**. The performance has been comprehensively improved compared to the previous generation. Storage IOPS is 300%, network PPS is 100%, and network latency fell by 80%. At the same time, it was upgraded to a brand new eRDMA network architecture. It is the industry's first large-scale elastic RDMA acceleration capability.

Industry-Leading Stability

Alibaba Cloud ECS is backed by a **world-leading Service Level Agreement (SLA)** that guarantees 99.975% availability for individual instances and 99.995% availability for multi-zone multi-instance setups.

Reliability and Scalability You Can Trust

Alibaba Cloud elastic computing service is resilient to traffic spikes and applies to nearly 300 scenarios across different industries, such as the Internet, finance, and retail. DingTalk successfully leveraged these services to **scale up and deploy 100,000 Elastic Compute Service (ECS) instances within two hours**.

Continuous R&D and Evolution

Over the last decade, Alibaba Cloud saw a 2,000 times increase in storage performance, a 500 times increase in network performance, and **an average doubling of overall computing power per year**.

Cloud Servers

g7/g6e/g6 General Purpose Instance	hfg7/hfg6 High-Memory General Purpose Instance	re6e/re6 High-Memory Instance, Maximum 6TB Memory	i3/i3g Instance with Local SSDs, Maximum 12*1.75 TB SSD	g7ne/g5ne 50Gbit/s *2 Network, 16,000,000 Concurrent Connections	g6t TPM Chips	gn7 GPU Acceleration, Maximum 8*A100 GPU	f3 FPGA Acceleration, Maximum 4*Xilinx VU9P	NPU 700 Tops INT8	SCC Super Computing Cluster RoCE for RDMA
c7/c6e/c6 Compute-Optimized Instance	fgc7/hfc6 Compute-Optimized Instance	re6p/re7p Persistent Memory-Optimized Instance	d2s Storage-Intensive Big Data Instance, Maximum 30*8TB HDD		g6t TPM Chips	gn6/gn6e GPU Acceleration, Maximum 8*A100 GPU			EHPC Elastic High Performance Computing
r7/r6e/r6 Memory-Optimized Instance	fgr7/hfr6 High Clock Speed Memory-Optimized Instance		d2c Storage-Intensive Big Data Instance, Maximum 12*4TB HDD			vgn5i vGPU Acceleration, Minimum 1/8 of P4			
t6 Burstable Instance	s6 Burstable Instance								
ebmg7/ebmf6e/ebmg General-Purpose ECS Bare Metal Instance	ebmc7/ebmc6e/ebmc6 Compute-Optimized ECS Bare Metal Instance	ebmr7/ebmr6e/ebmr6 Memory-Optimized ECS Bare Metal Instance							

General Computing

General Computing High Performance Memory Optimized Storage Optimized Network Optimized Security Optimized

Heterogenous Computing

GPU Acceleration FPGA Acceleration NPU Acceleration

HPC

High Performance Computing


Support Virtual Machines, Containers, and Elastic Bare Metal Instances

Featured Solutions

AI Acceleration

Accelerate AI-driven business and AI model training and inference with Alibaba Cloud GPU technology


<https://www.alibabacloud.com/solutions/ai-acceleration>



Remote Rendering

Connect your on-premises render farm to the cloud with Alibaba Cloud Elastic High Performance Computing (E-HPC) power and continue business success in a post-pandemic world

<https://www.alibabacloud.com/solutions/remote-rendering>



Customers





Elastic Compute Service

<https://www.alibabacloud.com/product/ecs>

Alibaba Cloud Elastic Compute Service (ECS) provides fast memory and the latest Intel CPUs to help you to power your cloud applications and achieve faster results with low latency.

Benefits

High Availability

Alibaba Cloud adopts more stringent IDC standards, server access standards, and O&M standards to ensure data reliability and high availability of the cloud computing infrastructure and ECS.

Security

Alibaba Cloud has passed a host of international information security certifications, which demands strict confidentiality of user data and user information, as well as user privacy protection.

Elasticity

Alibaba Cloud provides elastic computing, storage, networking, and business architecture planning and allows you to combine your businesses as needed.

Reliable

Alibaba Cloud ECS offers an industry-leading SLA, with a commitment of 99.995% availability for multiple zones within the same region.

Flexible Billing Methods

ECS provides multiple billing methods such as annual/monthly subscription, Pay-As-You-Go, Savings Plans, Real time bidding subscription, and Reserved instance.

Deploy and Grow Globally

Choose from 25 international regions with multiple availability zones in each region and manage all regions from a single global account.

Features

Rich Instance Types

Alibaba Cloud provides a large variety of ECS instance families to accommodate for various enterprise application scenarios.

Multiple Storage Types

You can choose storage disk volumes for instances of different specifications based on business scenarios.

Virtual Private Network

The separated network environment built on Alibaba Cloud logically isolates dedicated networks.

Snapshot and Multiple Image Types

The snapshot function and multiple image types support the fast deployment of your business.



ECS Bare Metal Instance

<https://www.alibabacloud.com/product/ebm>

ECS Bare Metal Instance is an elastic and horizontally scalable high-performance computing service providing the same computing performance as traditional physical servers including physical isolation.

Benefits

Ultimate Computing Performance

Leverages the same high-performance computing as physical servers to deliver optimal performance and user experience

Delivery in Minutes

Delivers within minutes, allowing you to conveniently adapt to diverse business needs

Secure Physical Isolation

Provides the same advantages in isolation as physical servers for secure, reliable, stable, and exclusive computing resources

Compatible with All Other Cloud Products

Compatible with all Alibaba Cloud products, providing a wide range of extensive cloud solutions

Features

Container Hosting

You only need to submit the container image without the need for any additional configurations.

Customizable Specifications

Multi-level container specifications enable customization within a container group.

Pay by Time and Traffic

You can pay by the seconds from instance startup to task end and the traffic consumed.

Second-Level Elasticity

You can start containers in batch conveniently, and deploy them in seconds.



Simple Application Server

<https://www.alibabacloud.com/product/swas>

Simple Application Server is a single server-based service for application deployment, security management, O&M monitoring, and more.

Benefits



Flat Pricing

Data transfer plan packaged with SSD cloud server, starting from \$3.50 per month. Same price for renewals.



Globally Accessible

Currently, 11 data center regions are available across the globe. Find one that best meets your needs.



Simplifies Development

Provides a wide selection of popular images to choose from (WordPress, LAMP, etc.)



Easy-to-Use Console

One-stop management console simplifies operations including domain name resolution, application deployment and server management.

Features

Web Building

You can build an enterprise official website or a personal website with our dedicated website images.

Efficient Knowledge Management

You can deploy Mantis Bug Tracker and Wiki knowledge system on LAMP systems.

Studying Environment on the Cloud

You can pay by the seconds from instance startup to task end and the traffic consumed.

E-Commerce Support

You can build an online shopping mall for your own brand.

Online Forum

You can quickly build your own online forum with our dedicated WordPress images.

Development Environment Configuration

The LAMP environment is easy to deploy and convenient for debugging.



Dedicated Host

<https://www.alibabacloud.com/product/dedicated-host>

Dedicated Host (DDH) is a dedicated resource pool that offers flexible and compliant deployment options to grant enterprise users more control over their cloud infrastructure.

Benefits

Lower Deployment Costs

It reduces your cloud migration cost with CPU-overprovisioned dedicated hosts. For single-instance deployment, the cost can be reduced by up to 48%.

Increased Deployment Flexibility

ECS instances can be migrated among different dedicated hosts or from multi-tenant environments to dedicated hosts.

Higher Level of Isolation

DDH offers exclusive physical resources such as CPUs, memory, and network interface controllers for each user to ensure the highest level of isolation.

More Performance Visibility

You can obtain DDH performance metrics by using CloudMonitor and API operations.

Higher Service Availability

When a dedicated host fails, instances are automatically migrated to a new healthy server without the need to prepare backup servers.

Faster Scaling

A dedicated host can be created and become available in 10 to 20 seconds. You can scale your resource pool for your workloads within seconds.

Features

Cost-Optimized Deployment

Reduces the waste of IT resources for services that have low CPU usages, improves cloud resource management, and reduces costs

Internet Industry Deployment

Allows you to exclusively use the resources of a physical server, including the CPUs, memory, and network interface controllers

Gaming Industry Deployment

Optimizes resource allocation based on the game lifecycles to improve cost efficiency

New Retail Industry Deployment

Achieves optimal resource allocation based on business requirements and resource usages



Resource Orchestration Service

<https://www.alibabacloud.com/product/ros>

Resource Orchestration Service (ROS) is a fully managed service for cloud computing resource orchestration and automated deployment.

Benefits

Improved Deployment Efficiency

You can use ROS to abstract your cloud environment as a template for easy deployment in new zones and reduce the chance of human error.

Convenient Architecture Optimization

Alibaba Cloud best practices are found in the form of templates at the ROS Solution Center. You can easily deploy these templates to optimize your cloud architecture.

Flexible Resource Management

By using ROS templates for your cloud environment, you can easily automate large-scale deployments or delete stacks in batches.

Compliance Control

You can ensure that all cloud resources deployed from your approved templates comply with the management specifications of your organization.

Features

Free Service Hosting

You can automate deployments using ROS without consuming your own computing resources.

Resource Deployment Across Multiple Accounts and Regions

You can use the same template to implement automated deployment across multiple regions and multiple Alibaba Cloud accounts.

Visualization of Results

You can use the ROS console or API to view the deployment status of all resources that are deployed using ROS, eliminating the need for manual checks.

Drift Check and Correction

You can use the drift check feature to identify resource changes that are beyond the control of ROS and take corrective measures to re-synchronize resources with template definitions.

Unified Authentication, Security, and Audit

ROS is integrated with Alibaba Cloud Resource Access Management (RAM) to provide a centralized authentication mechanism. You can use ActionTrail to review all O&M operations.



Operation Orchestration Service

<https://www.alibabacloud.com/product/oos>

Operation Orchestration Service (OOS) is an automated operations and maintenance (O&M) service provided by Alibaba Cloud. OOS allows you to manage and execute O&M tasks.

Benefits

Efficient Batch Operations

To enhance the O&M efficiency of batch operation tasks, you can use OOS to manage task progress, monitor task status, and troubleshoot execution errors.

Automation Templates

You can build automation templates based on O&M actions that are designed for Alibaba Cloud services. OOS provides a variety of public templates for daily O&M.

Visualized Execution and Management

You can use OOS flowcharts to monitor the execution process of tasks, including the sequence in which tasks are executed, errors, task details, parameters, and outputs.

Cross-Region O&M

OOS allows you to perform O&M actions across regions by using circular tasks. You only need to specify the region ID of the corresponding action.

Features

Managed Service

OOS provides a managed and serverless O&M service that enables automatic execution of O&M tasks.

Batch Operation Tasks

OOS allows you to run multiple O&M commands in a single task. You can perform O&M actions on multiple targets such as ECS instances at a time.

Event-Triggered Tasks

OOS provides event-triggered tasks for Alibaba Cloud services. If a system event or custom event occurs, an O&M action is triggered.

Scheduled Tasks

OOS allows you to create and run scheduled tasks. You can perform regular O&M actions by using scheduled tasks.



Elastic Desktop Service

<https://www.alibabacloud.com/product/cloud-desktop>

Elastic Desktop Service (EDS) convenient and secure cloud-based Desktop-as-a-Service (DaaS) solution.

Benefits



Secure and Reliable

Data is stored in the cloud, which reduces the risks of data leaks. Data access protocols are securely encrypted and storage reliability is 99.999999% (nine 9's).



On-Demand Deployment

You can deploy cloud desktops on demand, and access your cloud desktops anytime, anywhere, and from any EDS clients.



Support for GPUs

EDS supports high-performance display protocols such as image design and modeling protocols to meet video editing requirements.

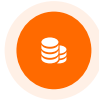
Scenarios



Short-term and temporary desktop needs



Secure data management and control



Centralized desktop management and control for multi-branch collaboration



High-performance GPU-accelerated desktops for graphic design and video production

Alibaba Cloud
Product Catalog

Storage

- 40 Block Storage
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- 50 Cloud Storage Gateway



Alibaba Cloud Storage

<https://www.alibabacloud.com/product/storage>


Alibaba Cloud storage solutions are oriented to diversified scenarios of users in multiple industries, providing global enterprises with more secure, stable, reliable, and intelligent data storage services. These solutions can help enterprises migrate their business to the cloud, laying a data foundation for enterprises to realize digital transformation.

Why Us


<p>Stable</p> <p>Supports a throughput of terabytes of data per second and hundreds of millions of IOPS</p>	<p>Secure</p> <p>Provides 99.999999999% (twelve 9's) reliability</p>	<p>High-Performance</p> <p>Achieves one million IOPS for the first time in the industry</p>
<p>Intelligent</p> <p>Provides real-time online AI analysis, security defense, and fault prevention</p>	<p>Affordable</p> <p>Reduces the total cost of ownership (TCO) to enable small- and medium-sized enterprises to seamlessly migrate businesses to the cloud</p>	

Featured Products


Rich Data Management Services







Hybrid Backup Recovery (HBR)



Hybrid Disaster Recovery (HDR)



Log Service (SLS)

<p style="text-align: center;">Hybrid Cloud Storage Products</p> <div style="display: flex; justify-content: space-between;"> <div style="background-color: #f96; padding: 5px; text-align: center; width: 45%;"> <p>Hybrid Cloud Storage (SA)</p> </div> <div style="background-color: #f96; padding: 5px; text-align: center; width: 45%;"> <p>Hybrid Cloud Distributed Storage (HCDS)</p> </div> </div> <div style="background-color: #f96; padding: 5px; text-align: center; width: 100%;"> <p>Cloud Storage Gateway (CSG)</p> </div>	<p style="text-align: center;">Data Transport Services</p> <div style="background-color: #f96; padding: 10px; text-align: center; height: 60px;"> <p>Data Transport</p> </div>	<p style="text-align: center;">Essential Storage Services</p> <div style="display: flex; justify-content: space-between;"> <div style="background-color: #f96; padding: 5px; text-align: center; width: 22%;">  <p>Elastic Block Storage (EBS)</p> </div> <div style="background-color: #f96; padding: 5px; text-align: center; width: 22%;">  <p>Apsara File Storage NAS</p> </div> <div style="background-color: #f96; padding: 5px; text-align: center; width: 22%;">  <p>Tablestore</p> </div> <div style="background-color: #f96; padding: 5px; text-align: center; width: 22%;">  <p>Object Storage Service (OSS)</p> </div> </div> <div style="background-color: #f96; padding: 5px; text-align: center; width: 100%;"> <p>Pangu: Planet-Scale Distributed Storage Platform</p> </div>
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Customers





Block Storage

<https://www.alibabacloud.com/product/disk>

Block Storage is a block-level data storage attached to ECS instances to achieve high performance, low latency, and high reliability.

Benefits

High Reliability

Deploys disks in a distributed architecture to guarantee 99.999999% data reliability that is much higher than that of physical disks

High Performance

Provides a single disk with the random read/write performance that reaches up to 1,000,000 input/output operations per second (IOPS). Each disk achieves 4,000 MB/s sequential throughput

Scalability

Supports storage capacities of up to 32 TiB on each disk and allows disk scaling without service disruption

Security

Enables simple and efficient data backup based on snapshots. Use the Bring Your Own Key (BYOK) model to encrypt data in disks

Features

Online Scaling

Scales out disks without service disruption. You do not need to restart ECS instances or detach disks during scaling

Data Protection

Creates snapshots for disks to support data protection, data recovery, image customization, and application disaster recovery

Data Encryption

Supports data encryption and eliminates the need for users to build or maintain individual key management systems

I/O Isolation

Enables storage input/output (I/O) isolation for enterprise-level instances to bypass storage I/O contention among different ECS instances and guarantee stable and consistent storage I/O performance



Object Storage Service

<https://www.alibabacloud.com/product/oss>

Alibaba Cloud Object Storage Service (OSS) is a fully managed object storage service to store and access any amount of data from anywhere.

Benefits

Stability and Reliability

OSS, the core infrastructure for data storage across the Alibaba Group, has been supporting the Double 11 Global Shopping Festival to deal with business traffic peaks for many years and has been tested for high availability and high reliability. OSS is designed based on a highly available architecture to eliminate single-node failures and ensure data service continuity.



99.999999999%
Durability



99.995%
Availability

Security and Compliance

OSS provides enterprise-level multi-layer protection, including server-side encryption, client-side encryption, anti-leeching, access control based on IP address blacklist and whitelist via Bucket Policy, fine-grained permission control, log audit, WORM features, etc.



OSS helps you achieve multi-user resource isolation mechanism and supports offsite disaster recovery mechanism. It has obtained many compliance certifications including SEC and FINRA to fulfill enterprise data security and Compliance requirements.

Intelligent Storage

OSS provides a variety of data processing capabilities, such as image processing, video snapshot capture, document preview, image scene recognition, SQL in-situ query, etc., and seamlessly connects to the Hadoop ecology, Alibaba Cloud EMR, Data Lake Analytics, BatchCompute, MaxCompute, DBS, Function Compute, etc., to fulfill the requirements of enterprise data analysis and management.



Image Processing



Document Preview



Video Snapshot Capture



Image Recognition



OSS Select



Open-Source Ecosystem

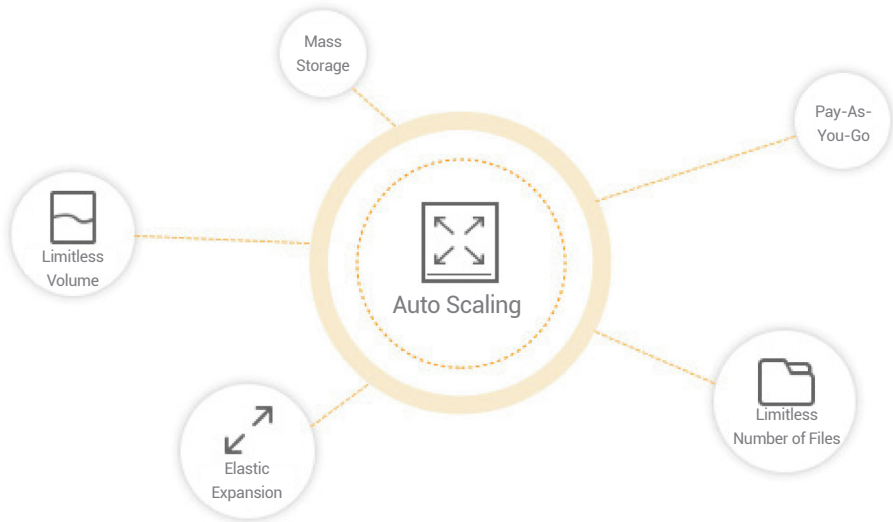
Ease of Use

OSS provides standard RESTful API interface, rich SDK packages, client tools, and console for you to upload, download, retrieve, and manage massive data for web sites or mobile applications as easily as managing files.



Elasticity and Scalability

OSS supports pay-as-you-go billing method, so you can pay according to actual usage without prior investment at once. OSS also features automatic elastic expansion and unlimited user storage capacity and number of files to meet the demand for EB-level mass storage.





File Storage NAS

<https://www.alibabacloud.com/product/nas>

Alibaba Cloud File Storage NAS is a file storage service for Alibaba Cloud ECS instances, Alibaba Cloud E-HPC and Container Service. It provides standard file access protocols, so you do not have to modify existing applications. This enables you to have a distributed file system with unlimited capacity and performance scaling, with a single namespace, multi-party sharing, high reliability, and high availability.

Benefits



High Performance

Meets various business needs with high IOPS, low latency, and high throughput



High Reliability

Provides a data reliability of 99.99999999%



Security

Provides multiple security mechanisms including account authorization, VPC, and security group ACL



Ease of Use

Supports standard NFS, SMB protocols without modifications to your applications

Features

High Performance, High Reliability, and High Availability

Based on the newest distributed storage system, NAS maintains a low latency and high IOPS, a data reliability of 99.99999999%, and a data availability of 99.9%.

Unlimited, Elastic Storage

Elastic scaling provides great scalability and the maximum capacity of a file system up to 10 PB to meet your needs.

Ease of Use

NAS supports POSIX interfaces, applications can use this service without any modifications. And you can mount file system on ECS compute nodes, this allows you to perform file operations as if the files were locally stored.

Support for Various Standard Protocols

NAS supports standard NFS and SMB protocols. Both Windows and Linux applications can use this service.

Strong Security Control

Mechanisms such as account authorization, VPC, and security groups ensure your data security.

Multiple Access Methods

NAS supports classic network and VPC, and allows multiple compute nodes to simultaneously access the same file system, access from remote data centers and different zones.



Tablestore

<https://www.alibabacloud.com/product/table-store>

Tablestore is a fully managed NoSQL cloud database service that enables storage of a massive amount of structured and semi-structured data.

Benefits

High Reliability

Three copies of data with high consistency, full host, service high availability and data high reliability

Low-Cost

Elastic resources, Pay-As-You-Go billing, and O&M with no additional costs

Highly Elastic

Distributed architecture, single table auto scaling, support of 10-PB-level data and 10-million-level access concurrency

Easy to Analyze

Provides full/incremental data tunnels, seamlessly interconnecting with various products for big data analysis and real-time stream computing

Features

Fully managed

Tablestore is a fully managed storage service for structured data, which supports software and hardware provisioning and configurations, error handling, scaling, and security. Seamless scalability.

High reliability

Tablestore creates multiple backups of data and stores them in different servers across physical racks and ensures service availability of 99.99999999% (ten 9s).

Strong consistency

Tablestore ensures consistency across all three backups. After data is written, applications can immediately read the written data.

Highly concurrent read and write operations

Tablestore supports tens of millions of concurrent read and write queries per second (QPS).



Log Service

<https://www.alibabacloud.com/product/log-service>

Log Service (SLS) is a cloud-native observation and analysis platform that provides large-scale, low-cost, and real-time services to process multiple types of data such as logs, metrics, and traces. Log Service allows you to collect, transform, query, analyze, visualize, ship, and consume data.

Benefits



Unified import method

Log Service allows you to import data from multiple types of data sources.



Efficiency

Log Service can collect, query, and analyze tens of billions of log data rows in real time.



Scalability

Log Service provides auto scaling capabilities for petabytes of data.



Intelligence

Log Service provides AIOps capabilities to intelligently detect exceptions and analyze root causes.



One-Stop service

Log Service allows you to collect, transform, query, analyze, and visualize data. You can also configure alerts for the data.



Cost-Effectiveness

Log Service supports the pay-as-you-go billing method. You are charged only for the actual usage. The total cost of ownership (TCO) is reduced by more than 50%.

Features



Data collection and consumption



ETL and stream processing



Integration with data warehouses



Real-time query and analysis



Storage Capacity Unit

<https://www.alibabacloud.com/product/scu>

Storage capacity units (SCUs) are subscription storage resource plans that can be used to offset pay-as-you-go bills of a variety of cloud storage services to streamline your service purchase process.

Benefits



Cost Optimization

Reduces your costs by up to 67% compared with equivalent pay-as-you-go storage



Resource Reservation

Provides zone-level resource reservation capabilities to meet business continuity requirements while maintaining flexibility



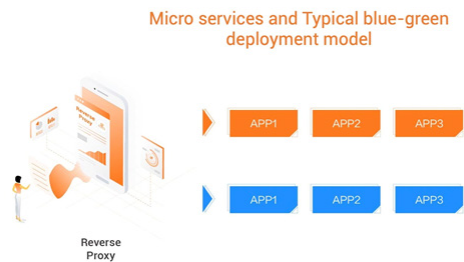
Flexibility in Use

Available for sale by region. You can choose a deductible product type and a validity period to purchase an SCU in a region. This SCU is then automatically used to offset your bills in the region.

Features

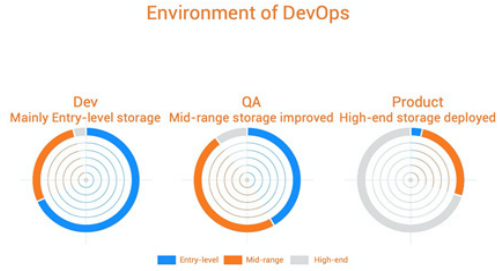
- **Microservices for continuous integration and delivery**

Computing and storage resources are purchased for the new version of a service when the service is being released. After the service is released, the earlier version is brought offline. The finance department is involved in this process. The finance department is not involved in budget application and approval when you purchase storage resources, which greatly improves your efficiency of purchasing resources.



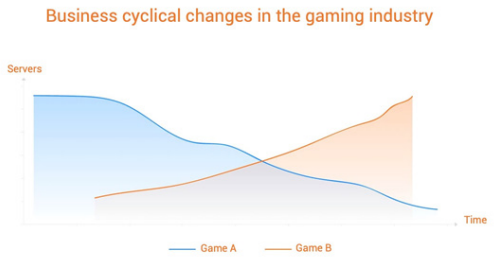
• DevOps Environment

Resource distribution varies in the R&D, testing, and deployment phases of enterprise projects. SCUs allow you to use storage resources with differing capacities across different environments. You do not need to make extra purchase or payment, and can use resources flexibly in different phases at optimized costs.



• Mobile Gaming Industry

The lifecycle of a mobile game service is typically about six months. When the daily active users (DAUs) of a mobile game service drop, some ECS instances used by the service are released and new ECS instances are purchased to run other online game services. SCUs allow you to create and release resources for different projects based on service lifecycles while enjoying subscription discounts.





Hybrid Backup Recovery

<https://www.alibabacloud.com/product/hybrid-backup-recovery>

HBR provides secure and efficient backup, disaster recovery and archive services.

Benefits



Cost-Effective

Up to 70% TCO reduction compared to traditional on-premise BR solutions



Efficient

Up to 30:1 deduplication and compression ratio, saving network and storage consumption



Secure

AES-256 encryption ensures data security for transmission and storage



Reliable

12 9's data durability and 99.9% service availability



Managed

Auto-monitoring and alerting



Enterprise-Level Features

KMS encryption, immutable backup and permission isolation supported

Features

Integrated Cloud Data Protection

Provides an integrated platform that allows you to back up data stored in Elastic Compute Service (ECS) instances, Apsara File Storage NAS file systems, and Object Storage Service (OSS) buckets, as well as ECS cross-AZ / cross-region disaster recovery

Data Management of On-Premise Data Center

Supports files, databases backup and backup / archive to cloud for large-scale NAS systems

VMware Backup, Disaster Recovery, and Migration

Provides proxy-free cloud backup and migration for VMware virtual machines and ensures cost-effective disaster recovery



Hybrid Cloud Distributed Storage

<https://www.alibabacloud.com/product/hybrid-cloud-distributed-storage>

Hybrid Cloud Distributed Storage (HCDS) provides scalable and reliable distributed block storage and object storage services for enterprise applications, enterprise databases, virtual desktops, cloud-native applications, file sharing, and data archiving.

Benefits



Enterprise-Oriented Storage Services

Provides innovative software-defined and block storage features and delivers high performance, reliability, and scalability to enterprises in complex storage scenarios



Seamless Business Integration

Integrates with different enterprises and platforms based on common block storage and object storage protocols. It also provides RESTful APIs



Agile Development

Provides one-click installation and deployment and supports quick scaling and upgrading. HCDS also provides standard GUIs, comprehensive logging and alerting features, intensive software and hardware monitoring, and AI-based predictive O&M with reduced workloads and costs.

Scenarios

Hybrid and Private Clouds

Provides persistent block storage services, integrates with platforms (such as Alibaba Cloud ZStack and OpenStack), and allows you to build hybrid clouds based on common cloud-native storage protocols and RESTful APIs

Enterprise Applications and Databases

Supports traditional FC SAN and iSCSI SAN with multi-site high availability and seamlessly integrates with enterprise applications on AIX, Linux, and Windows

Virtualization Technologies

Meets the storage requirements of enterprise-oriented virtualization technologies (such as Alibaba Cloud ZStack, VMware, and Citrix) and provides enterprises with the best practices in virtualized interaction scenarios

Containerized Applications

Supports the latest container ecosystems and provides container storage interface (CSI) NFS and iSCSI storage drivers



Cloud Storage Gateway

<https://www.alibabacloud.com/product/cloud-storage-gateway>

Cloud Storage Gateway (CSG) is a gateway service that uses Object Storage Service (OSS) for cloud-based storage at the back end, and supports standard file and block storage protocols in the industry.

Benefits

Flexible Deployment

You can deploy CSG in both local data centers and ECS instances in the cloud.

Out-of-the-Box Experience

You can use CSG immediately with simple deployment that does not require writing code.

High Speed and Scalability

Get the speed and convenience of local storage, with the scalability and reliability of the cloud.

Protocol Conversion

The NFS and CIFS file protocols, and the iSCSI block protocol are available. These protocols are based on OSS.

Scenarios

Expand Local Storage to the Cloud

You can obtain the benefits of high scalability and low cost storage by smoothly connecting current storage system to the cloud without needing to change the existing architecture.

Attach OSS Disk to ECS Instances in the Cloud

CSG supports NFS and SMB file protocols. You can simultaneously attach OSS disks to multiple ECS instances while enabling reliable and cost-effective access to OSS buckets.

Security

- 54 Anti-DDoS
- 55 Security Center
- 56 Web Application Firewall (WAF)
- 57 Bastionhost
- 58 Cloud Firewall
- 59 Alibaba Cloud SSL Certificates Service
- 60 IDaaS
- 61 Fraud Detection
- 62 Content Moderation
- 63 Sensitive Data Discovery and Protection
- 64 Key Management Service
- 65 Penetration Test



Security

<https://www.alibabacloud.com/product/security>

Alibaba Cloud is the official cloud service partner of the Olympic Games and has been providing digital infrastructure for Alibaba Group. Based on extensive experiences, Alibaba Cloud provides high-performance cloud technologies to help your business operate at its best.

5,000,000,000
Attacks Blocked Per Day

2,000
DDoS Attacks Blocked Per Day

700,000
Owned Global SSL Certificates

7,340,000
Vulnerabilities Fixed Per Year

—Data as of 2021

Why Us

Professional Security Service Customization

Alibaba Cloud implements a security assessment of your business, analyzes your business needs, and works closely with you to customize the security rules that seamlessly suit your business.














Cloud-Native Security Service

Alibaba Cloud cloud-native security services enable continuous security monitoring and analytics for your data. Alibaba Cloud also provides real-time threat reports and quick recovery from security risks to protect your data.

Security Assurance Throughout Service Lifecycle

Alibaba Cloud manages the infrastructure and provides security assurance for its services. In addition, Alibaba Cloud has formulated a service delivery process to ensure that all the services that Alibaba Cloud delivers are secure and reliable.

Featured Products

Type	Product	Scenario
Infrastructure Security	 Anti-DDoS Basic	Basic DDoS protection integrated with ECS
	 Anti-DDoS	BGP-based DDoS mitigation, low latency, Tbit/s-level bandwidth, and anycast
	 Security Center	Assets/Baseline/Compliance/Ransomware/Mining/Tamper-proofing/AccessKey pair leak-proofing/Attack source tracing/Cloud security configuration monitoring/Cloud asset risk monitoring
	 Web Application Firewall	Top 1 in Asia-Pacific; The only Chinese product included in Gartner's Magic Quadrant for web application firewalls
	 Bastionhost	Risky operation interception and operation playback Multiple O&M protocols and automatic synchronization between cloud resources
	 Cloud Firewall	Access control and IPS at the cloud perimeter, visualized east-west and north-south traffic, and interception of outbound traffic
	 SSL Certificates Service	Flexible HTTPS for websites and applications Centralized management of certificates on and out of the cloud
Identity Security	 IDaaS	Provides account, authentication, authorization, application, and audit features
Business Security	 Fraud Detection	Real-time analysis and accurate identification of risk management solution
	 Content Moderation	Detection for pornography, violence, and terrorism in images, text, audios, and videos; Daily update of compliance intelligence
Data Security Assurance	 Sensitive Data Discovery & Protection	Sensitive data identification and data risk monitoring; Static and dynamic data desensitization to ensure asset security
	 Key Management Service	Cloud-based key hosting; Cloud service integration and encryption with ease
Service Security	 Penetration Test	Simulates attacks to test your system security in full scale and in depth

Customers





Anti-DDoS

<https://www.alibabacloud.com/product/ddos>

Anti-DDoS provides you with a comprehensive DDoS protection to intelligently defend sophisticated DDoS attacks, reduce business loss risks, and mitigate potential security threats.

Benefits



Global DDoS Protection Network for Volumetric Attack Mitigation

Anti-DDoS products have been deployed to global scrubbing centers, serving as a secure network with over 10 Tbit/s total mitigation capacity. Alibaba Cloud Anti-DDoS mitigates around 2,500 DDoS attacks on a daily basis and succeeded in protecting against a DDoS attack of 1 Tbit/s.



Intelligent Protection against sophisticated attacks

Anti-DDoS can automatically mitigate sophisticated DDoS attacks and quickly adjust protection policies based on the specific circumstances of an attack. This can help you effectively lower operations and maintenance costs and ensure the stability of your businesses.

Features

Anti-DDoS Premium

Anti-DDoS Premium diverts network traffic to our global Anti-DDoS network through DNS resolution, mitigates volumetric DDoS attacks and resource exhaustion DDoS attacks.

Anti-DDoS Origin

Anti-DDoS Origin provides DDoS protection service against volumetric attacks without changing original server IP address based on Alibaba Cloud-Native Anti-DDoS network.

GameShield

GameShield is integrated with the lightweight Alibaba Cloud Security SDK to eliminate DDoS attacks from targeting mobile APPs.



Security Center

<https://www.alibabacloud.com/product/security-center>

Security Center is a unified security management system that identifies, analyzes, and notifies you of security threats in real time.

Benefits



Unified Security management

Threat management for your Entire Network

Server guard management on different platforms in one console



Automated Security Operations

Automated attack traceability

Custom alerts



Proactive Defense

Anti-virus and anti-ransomware

Anti-tamper

Scenarios



Manages assets in a unified way, monitors workloads in real time, and provides information about the vulnerabilities, threats, and attacks against your assets



Periodically detects vulnerabilities, performs baseline checks on your cloud services, and fixes and monitors the detected vulnerabilities and items with risky configurations



Queries web and host logs, counts the number of visits, and collects and analyzes the information about raw logs from different dimensions



Monitors events such as AccessKey (AK) pair leaks, network intrusion, DDoS attacks, and bot attacks against instances



Traces the source of an intrusion event in an ECS instance, such as a webshell injection, a malware injection, and a ransomware activity



Web Application Firewall (WAF)

<https://www.alibabacloud.com/product/web-application-firewall>

Alibaba Cloud Web Application Firewall (WAF) protects your websites and web servers based on the intelligent computing capabilities of Alibaba Cloud Security.

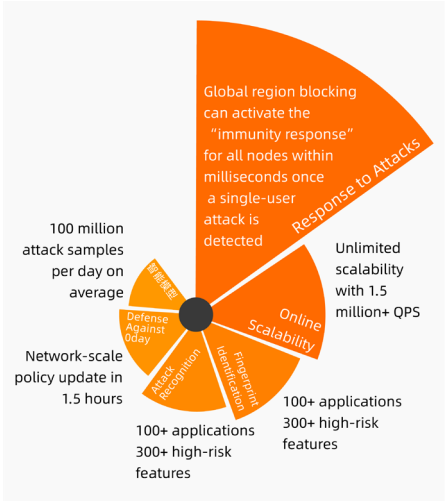
Benefits

Cloud-Native Security

CDN, SLB and ECS users can access WAF with a single click without changing DNS. WAF achieves full link transparency without any change to the original network architecture or the servers. It achieves real-time synchronized configuration with SLB and CDN without the need to repeat operations.

Cloud-Native Security

OSS provides local protection for traffic in new scenarios from IDC, dedicated lines to the cloud, and intranet applications. It maintains a high protection level while leveraging unified security management and policy configuration to reduce operation and maintenance costs.



Features

Web Intrusion Prevention

Automatically detects and defends against the latest web vulnerabilities including 0-day attacks within an hour without the need for manual patching

Bot Management

Accurately identifies bots and automatically responds to bot mutations to reduce the impact of bots and automation tools, providing a full range of protection for Web pages, H5 pages, APPs and APIs

Mitigating High-Traffic HTTP Flood Attacks

Leverages Alibaba Cloud's big data security advantages to build threat intelligence and trusted access analysis models and quickly identify malicious request attacks

Real-Time Alarms for API Risks

Provides security features including authentication, anti-tampering, anti-replay, API parameter verification, full-link signature, and traffic restriction



Bastionhost

<https://www.alibabacloud.com/product/bastionhost>

Bastionhost is a unified, efficient, and secure platform that provides cloud-based O&M, access control, and operation audit.

Benefits



Efficient O&M

Bastionhost provides a centralized portal to access server resources; single sign-on (SSO); and password-free logon for asset O&M.



Security Control

Bastionhost supports fine-grained user permission assignment to allow different users to perform operations based on the permissions assigned to them.



Ease of Use

Bastionhost can synchronize ECS instances, RDS dedicated clusters, and RAM users under an Alibaba Cloud account; and synchronize AD and LDAP users with a few clicks.

Features



Centralized Management



Identity Authentication



Fine-Grained Permission Assignment



High-Risk Command Blocking



Audit and Backtracking



Cloud Firewall

<https://www.alibabacloud.com/product/cloud-firewall>

Cloud Firewall is a cloud security solution by Alibaba Cloud that provides firewall as a service. Cloud Firewall implements centralized security isolation and traffic control for your cloud assets on the Internet, virtual private cloud (VPC), and host boundaries.

Benefits



Easy Activation

You can quickly activate Cloud Firewall without complex network configuration or image file installation. The firewalls are deployed in clusters to ensure high reliability. Smooth capacity expansion is supported.



Unified Public IP Management

Cloud Firewall centrally manages public IP addresses. It enables access control based on IP addresses, ports, domains, or applications. Micro-segmentation between ECS instances is supported.



Embedded Intrusion Prevention System (IPS)

IPS provides threat intelligence about the entire network at a low false positive rate. IPS can also block malicious requests. Cloud firewalls and IPS are required in classified protection evaluation.



Victim Server Detection and Unusual Activity Interception

Cloud Firewall detects victim servers and automatically intercepts outbound connections and other unusual network activities started by these servers. It also collects and analyzes all traffic data in real time.

Features



Traffic control at the Internet perimeter



Access control policies between VPC networks



Traffic control on Express Connect connecting Alibaba Cloud and data centers



Visualization of traffic between security groups



Alibaba Cloud SSL Certificates Service

<https://www.alibabacloud.com/product/certificates>

SSL Certificates Service is a digital certificate service in cooperation with certificate authorities (CAs). It allows you to directly apply, purchase and manage SSL certificates on Alibaba Cloud.

Benefits



Ease of Use

Manages digital certificates on a unified platform for optimal cost efficiency



Security

Implements full-site HTTPS at minimum cost with one single platform to manage digital certificates applied to multiple Alibaba Cloud services



Scalability

Supports all mainstream Linux and Windows operating systems, Alibaba Cloud network, VPC, hybrid cloud, and conventional IDC environments



Lifecycle Management

Displays certificates used by various cloud businesses and manages certificate orders on a unified platform.

Features

Website Security

You can build HTTPS-protected websites and encrypt interactions between users and websites to ensure information displayed to the user is trustworthy and secure.

SSL Certificate Issuing

You can buy digital certificates for a number of channels on the same platform and purchase the digital certificates suitable for your own business.

Simplified Deployment

Digital certificates can be applied to activated cloud products with one click, minimizing your costs for using digital certificates in multiple cloud products.



IDaaS

<https://www.alibabacloud.com/product/identity-as-a-service-idaas>

Alibaba Cloud Identity as a Service (IDaaS) is a cloud-based identity and access management service (IAM) covering comprehensive functions that enable user portal, user directory, flexible authentication, single sign-on, centralized authorization, and audit reporting.

Benefits



Provides Enterprise-Level Unified Identity Service



Eliminates Redundant Passwords for All Users



Connects Identities among Sources across Cloud Platforms

5A Unified Certification Platform

Application

Docking web applications, mobile applications, desktop applications, and IoT devices provide users with integrated services that include access control, single sign-on, and application portals.

Authorization

According to the department or role of the user, the accessible range can be managed easily. Authorization or revocation can be centralized to achieve one configuration and take effect globally.

Account

IDaaS provides unique user identity data for enterprise information construction with complete account life cycle management.

Audit

IDaaS traces user behaviors and provide real-time audit reports to keep managers informed about the efficiency of the company's digital assets.

Authentication

IDaaS centrally verifies user identity, configures multi-factor authentication (MFA), and supports third-party authentication sources.




Fraud Detection

<https://www.alibabacloud.com/product/fraud-detection>

Fraud Detection is a risk management solution that features real-time analysis and accurate identification and is suitable for all business scenarios.

Benefits

 Real-Time Risk Identification

 End-to-End Protection

 Zero-Code Platform Providing Intelligent Algorithm-Based Policies

Features

Decision-Making Engine Platform

Leverages best practices of Alibaba Cloud business risk control and integrates data injection, feature processing, strategy models, and real-time decision-making into a one-stop platform to achieve risk control for all scenarios

Registration Risk Identification API

Identifies malicious registration, batch registration with scripts, registration bot and other malicious behaviors based on typical scenarios in app and website registration

Marketing and Sales Risk Identification API

Accurately identifies illegal behaviors in marketing and sales scenarios of e-commerce, social, and financial applications, to guarantee fund security

Other APIs

Provides various API services including log-on risk identification, email risk portrait, address risk rating, and business risk information (for financial businesses)



Content Moderation

<https://www.alibabacloud.com/product/content-moderation>

Content Moderation is an image and video moderation service that accurately detects inappropriate content.

Benefits



Fast, Accurate, and Reliable

Constant automated moderation responses in less than 0.1 second with an accuracy rate higher than 95 percent.



Comprehensive Service

It readily recognizes adverse images, videos, text, and audio dealing with illicit behaviors such as violence, terrorism, drugs, weapons, extremism and profanity.



Proven Performance

It provides daily access to billions of images, videos, text, and audio with highly scalable, deep learning technology developed by Alibaba.



Customizable

You can customize models according to your specific requirements. Continually improves recognition based on new data to expand its capabilities.

Features



Image moderation
(Adult, Violence & Terrorism, OCR, Logo)



Video moderation
(Adult, Violence & Terrorism, Logo)



Text Moderation



Sensitive Data Discovery and Protection

<https://www.alibabacloud.com/product/sddp>

Sensitive Data Discovery and Protection (SDDP) is an all-in-one data security solution that provides various features, such as sensitive data detection, classification, grading, and de-identification, to help you meet compliance requirements specified in General Data Protection Regulation (GDPR) and personal information protection.

Benefits



Compliance with Requirements of MLPS

SDDP helps you meet the compliance requirements on data security that are specified in GDPR, Multi-Level Protection Scheme (MLPS) 2.0 Level 2, MLPS 2.0 Level 3, and your requirements for personal information protection.



Security Management and Control for Big Data

SDDP provides comprehensive and centralized data security management for traditional databases and various data lakes and storage services, such as Object Storage Service (OSS), MaxCompute, and Alibaba Cloud Data Mid-End.



Reducing the Risk of Data Leaks

SDDP automatically classifies and grades sensitive data, detects sensitive data in your data assets, assesses the assets, and protects your sensitive data by using intelligent algorithms.



Comprehensive Data Security Protection

SDDP accurately detects sensitive data, automatically classifies and grades sensitive data, and aggregates your data assets. SDDP also provides diversified de-identification algorithms.

Scenarios



Sensitive Data Detection



Sensitive Data De-Identification



Visualized Display on SDDP Console



Key Management Service

<https://www.alibabacloud.com/product/kms>

Key Management Service (KMS) is a one-stop service platform for key management and data encryption and can help you encrypt and protect sensitive data assets.

Benefits



Fully Alibaba Cloud Managed Service



Security and Compliance, Offer Managed HSMs



High Availability, Reliability, and Elasticity



Data Encryption for Integrated Cloud Services



Custom Encryption and Digital Signatures



Cost-Effectiveness, Only Pay for the Resource You Use

Features

Comprehensive Management Features

- Keys Generated in KMS or Imported from External
- Key Lifecycle Management and Automatic Key Rotation
- Authentication, Authorization, and Auditing (AAA)

Fully Managed HSMs

- HSM Certification and Compliance
- Secure Generation of Keys
- Hardware Protection of Keys

Integration with Other Alibaba Cloud Services

- Entry-Level Default Encryption
- Optional Sources for Encryption Keys
- Auditing Key Usage by Cloud Services

Simple and Effective Cryptographic Operations

- Envelope Encryption
- Authenticated Encryption with Associated Data (AEAD)
- Digital Signature Verification



Penetration Test

<https://www.alibabacloud.com/product/penetration-test>

Penetration Test is a service that simulates full-scale, in-depth attacks to test your system security.

Benefits



A Team of Talented Security Experts

Our consultants hold some of the most respected international certifications from the IT Security Penetration Testing, Security Assessment, Computer Crime Forensic Investigation, and ISO/IEC 27001:2013 fields.



Proven Track Records

Alibaba Cloud and our partners have over a decade of experience in providing professional security penetration testing services. Over 1,000 professional security projects have been delivered over the last decade.



Comprehensive Test Plans

This service provides professional penetration test cases and ensures that the penetration test process is comprehensive and effective. The test scope includes the simulation of attacks on systems, web applications, mobile apps, network devices, Internet of Things (IoT) devices, and smart devices.



End-to-End Security Solution

This service identifies vulnerabilities and potential risks to provide security advice. You can leverage a variety of security solutions and Alibaba Cloud technologies to safeguard your business.

Container & Middleware

- 68 Alibaba Cloud Container Service for Kubernetes (ACK)
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Container & Middleware

Container & Middleware

Container

Container Service for Kubernetes

A certified Kubernetes platform

Container Registry

A secure image hosting platform

Alibaba Cloud Service Mesh

Unified traffic management for microservices across multiple clusters

Micro Services

Enterprise Distributed Application Service

App deployment and microservice solution

Applications

Application Real-Time Monitoring Service

Build business monitoring capabilities

Message Queue

AlibabaMQ for Apache RocketMQ

A distributed message queue service

Message Queue for Apache Kafka

Fully-managed and out-of-the-box Message Queue service powered by Apache Kafka

Message Queue for RabbitMQ

An out-of-the-box fully managed RabbitMQ service

Message Service

Send messages between applications

Serverless

Function Compute

Run your code in serverless environment

Serverless Workflow

A serverless cloud service that orchestrates distributed tasks

Customers





Alibaba Cloud Container Service for Kubernetes (ACK)

<https://www.alibabacloud.com/product/kubernetes>

Alibaba Cloud Container Service for Kubernetes (ACK) is a Kubernetes-based service that ensures high efficiency for enterprises by running containerized applications on the cloud.

Benefits

Security and Management

Ensures end-to-end security for applications and supports permission management by account management and RAM

Ease of Use

Helps create containers and clusters easily. Provides all-in-one lifecycle management of containerized applications

High Efficiency and Reliability

Verified by Alibaba Cloud in super-large-scale scenarios. Allows you to start a large number of containers in seconds

Features

O&M without Kubernetes

Full lifecycle management of enterprise-class containerized applications

High Elasticity

Elastic capabilities of automation and intelligence for containers and resources, with serverless containers

Complete Observability

The complete monitoring and alarming capabilities for IaaS, network, containers, and microservices

Performance and Scale

30% performance improvement compared with community solutions, with support for 10,000 nodes and 1 million pods from a single cluster

Hybrid Cloud Management

One-click publishing and unified O&M for the same application in different clusters

AI Project Acceleration

Support for heterogeneous computing resources including GPU, Hanguang AI-Inference chips, and RDMA



Container Registry

<https://www.alibabacloud.com/product/container-registry>

Container Registry (ACR) is a fully managed cloud-native artifacts management platform. ACR provides end to end security, intelligent building, efficient distribution of Docker container images, Helm Charts and OCI-compatible artifacts.

Benefits



Multiple Regions

Provides an intranet URL of the image repository for each region. You can visit this URL to download images without using traffic



Image Security Status Scan

Allows you to easily scan the image security status and provides multi-dimensional vulnerability reports



Stable Service Build Creation

Builds services automatically, in regions outside China, and in stages



Cost-Effectiveness

Supports Pay-As-You-Go and other billing methods to achieve cost effective and high-quality content delivery

Scenarios

Fully Managed Service

Obtains and manages images with easy operations at low management and maintenance costs

Security and Flexibility

Provides a secure private image management platform that supports the image security status scan and image sharing

Integration with DevOps Tools

Leverages open-source technologies to achieve compatibility with all DevOps tools for automatic image build creation and CI/CD

Complete API and SDK

Customizes the image management and performs extended development as needed



Alibaba Cloud Service Mesh

<https://www.alibabacloud.com/product/servicemesh>

Alibaba Cloud Service Mesh (ASM) is a fully managed service mesh platform that is compatible with Istio. ASM provides consistent traffic management, secure communication with authentication, and service observability in heterogeneous environments.

Benefits

Managed Control Plane

ASM instances are highly available and free you from complex O&M. ASM provides the best practices for security, allowing you to focus on business applications rather than O&M infrastructure.

Enhanced Observability on the Data Plane

ASM integrates with the cloud-native services of Alibaba Cloud to provide managed observability capabilities, such as link tracing, monitoring, alerting, and logging.

Unified Traffic Management Across Clusters and Regions

You can use an ASM instance to manage multiple clusters in different environments. You can manage application traffic across regions in hybrid clouds in a unified manner using services, such as the Cloud Enterprise Network (CEN).

Management for Applications in Multiple Types of Infrastructures

ASM allows you to manage the traffic of containerized applications and applications that run on virtual machines. It also helps containerize applications and migrate containerized applications to the cloud smoothly.

Scenarios



Cross-Region Multi-Cluster Traffic Management



Connection to the gateway of ASM with Global Traffic Manager (GTM) of DNS for Cross-Region Proximity Access



Cross-Region Multi-Cluster Distribution and Failover



End-to-End A/B Testing without Changing Applications Code



A/B Testing for Microservices through ASM



Zero Trust Security Implemented by ASM



Message Queue for Apache Kafka

<https://www.alibabacloud.com/product/kafka>

Message Queue for Apache Kafka is a fully-managed Apache Kafka service to help you quickly build data pipelines for your big data analytics.

Benefits



100% Compatible with Apache Kafka

Offers a quick and seamless Kafka workload migration experience



Fully Managed on Alibaba Cloud

Provides systematic and comprehensive services to help you manage your operational and maintenance challenges, allowing you to focus on building your streaming applications and data pipelines



High Availability with Optimized Long-Standing Issues

Optimizes long standing issues with Apache Kafka and provides a more reliable service



Data Security

Provides enterprise-level security that includes an authentication and authorization access control mechanism, master and sub accounts, etc

Scenarios

Asynchronous Decoupling

Application decoupling ensures that the iterations of different applications are no longer dependent on each other, and asynchronous decoupling can effectively shorten the length of data links and improve data processing efficiency.

Load Shifting

Load shifting can properly handle traffic pulses based on its powerful message processing capability. It responds to requests in a fast and effective manner without an effect on service availability to significantly improves user experience.

Distributed Cache Synchronization

The distributed cache synchronization feature notifies applications of data changes in real time to reduce the page response time and allow access to data changes from a large number of applications.



AlibabaMQ for Apache RocketMQ

<https://www.alibabacloud.com/product/mq>

AlibabaMQ for Apache RocketMQ is a distributed message queue service that supports reliable message-based asynchronous communication among microservices, distributed systems, and serverless applications.

Benefits



High Performance and Low Latency

Supports 10-million-level Queries Per Second (QPS) and trillion-level message flow



High Reliability

Ensures data reliability up to 99.99999999% (10 9's)



High Scalability

Scales queues of ten thousand messages



Permission Control

Controls permissions by the message topic and consumer ID

Scenarios

Low-Latency Message

Low-latency storage design keeps end-to-end latency in milliseconds in massive TPS scenarios.

Low Cost with Serverless

Out-of-the-box solution and pay-as-you-go billing method reduce the costs to lower than self-built open-source systems.

Financial-Level Reliability

Native support for same-city disaster recovery and geo redundancy ensures the message transmission links reach financial-level standards.

Secure Access Control

Native support for TLS transport encryption and API-granularity access control to prevent illegal access and secure message transmission.



Message Queue for RabbitMQ

<https://www.alibabacloud.com/product/rabbitmq>

Message Queue for RabbitMQ is a distributed, fully managed, and professional messaging service that features high throughput, low latency, and high scalability.

Features



Fully Compatible with Open Source RabbitMQ



Support Fanout Exchange, Direct Exchange, and Topic Exchange



Complete O&M Tools on Monitoring & Alerting, Resource Reports, and RESTful APIs

Scenarios

Asynchronous Decoupling

Asynchronous communication ensures that data no longer needs to be immediately processed, and asynchronous decoupling can effectively shorten the length of data links and improve data processing efficiency.

Load Shifting

Load shifting can properly handle traffic pulses based on its powerful message processing capability. It responds to requests in a fast and effective manner without an effect on service availability to significantly improve user experience.

Distributed Cache Synchronization

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Enterprise Distributed Application Service

<https://www.alibabacloud.com/product/edas>

Enterprise Distributed Application Service (EDAS) is a Platform as a Service (PaaS) offering that allows you to manage applications and microservices.

Benefits

One-Stop Out-of-the-Box Solution

You can directly upload, publish, and deploy (in console or using CI/CD) JAR/WAR packages, PHP code, and multi-language custom container images.

Support for Official Versions of Jenkins and Yunxiao 2020

EDAS supports CI/CD plug-in, Jenkins, and Yunxiao 2020. You can also use multiple EDAS accounts to deploy applications in grayscale or in batch to EDAS ECS and EDAS Kubernetes clusters.

Full Support for Open Source

EDAS supports the latest versions within five years of SpringCloud and Dubbo in a non-intrusive manner, and seamlessly integrates ASM-hosted Service Mesh.

Hybrid Deployment

You can choose Kubernetes and ECS as needed in hybrid cloud scenarios and access offline Kubernetes clusters and virtual machine resource pools.

Application Monitoring and Alarms

EDAS provides powerful non-intrusive application-level monitoring capabilities for you to flexibly configure alarms for based on multi-indicator diagnosis for applications, and perform quick troubleshooting in event center.

Enterprise-Level Features

EDAS provides enterprise-level namespace isolation, fine-grained permission control for sub-accounts, and Alibaba Cloud resource group management.

Features

Application Hosting

Full lifecycle management for application start-up, stop, release, rollback, change, and deletion

Distributed Task Scheduling

Timed scheduling, task schedule orchestration, distributed batch processing, and other scheduling functions

Multi-Language and Service Mesh Support

Integration with Service Mesh and support for multi-language



Serverless Workflow

<https://www.alibabacloud.com/product/serverless-workflow>

Serverless workflow is a fully managed cloud service that coordinates distributed tasks. In Serverless Workflow, you can orchestrate distributed tasks in sequence, in branches, or in parallel.

Benefits



The Distributed Component

Orchestrates applications written in different infrastructures, networks, and languages, and eliminates the transition from a hybrid cloud and proprietary cloud to a public cloud or evolve from a single architecture to a microservice architecture



Reduce the Amount of Code

Helps you manage the logic of your application and supports multiple control primitives, such as sequence, branch, and parallel, to minimize repeated orchestration code in your business



Improve Fault Tolerance

Manages process status, sets checkpoints, and processes reboots to ensure that your applications are performing step-by-step as expected, with built-in try/catch, retry, and rollback functions to automatically handle exception errors

Features



Operation & Maintenance Fully-Managed and Pay-As-You-Go



Service Orchestration Capabilities



Support Long Running Process



The Process State Management



Visual Monitoring on execution status



Support Distributed Component across Different Infrastructure and Networks



Application Real-Time Monitoring Service

<https://www.alibabacloud.com/product/arms>

Application Real-Time Monitoring Service (ARMS) is an end-to-end Alibaba Cloud monitoring service for Application Performance Management (APM).

Benefits



Application Performance and Anomaly Monitoring

Implements APM performance and anomaly monitoring in distributed applications, based on tracing information



Frontend Monitoring for User Experience

Reflects user webpage browsing behavior in real time using dimensions such as geographical regions, ISPs, and URLs



Advanced Custom Monitoring

Allows you to create real-time monitoring alarms and dashboards based on your business needs



Centralized Alarm and Report Platform

Integrates custom monitoring, frontend monitoring, and application monitoring into a centralized alarm and report platform

Scenarios

Quick Building of Business Monitoring Capabilities

Provides quick access to multiple data sources to help users quickly build multiple types of business monitoring capabilities and integrate with downstream applications

Complete Business Troubleshooting

Helps you build a complete business troubleshooting system based on the trace information in a distributed environment

IoT Monitoring

Quickly collects, calculates, demonstrates, and generates alerts for large amounts of IoT data to improve the compute and monitoring capabilities of IoT networks



Message Service

<https://www.alibabacloud.com/product/message-service>

Alibaba Cloud Message Service is a distributed message queuing and notification service that supports concurrent operations to facilitate message transfer between applications and decoupled systems.

Benefits



Secure

Provides multiple level security with authentication mechanisms

Ensures messages are stored in queues and secured against unauthorized access



Customizable Queue Attribute Configuration

Allows you to personalize queuing attributes to support different application scenarios

Supports customization for delay and prioritizes queues



Compatibility with RESTful APIs

You can easily build message queue and integrate it with other Alibaba Cloud services to build robust distributed deployments by accessing RESTful APIs.



Concurrent Read/Write

Multiple producers and consumers can operate on the same message queue concurrently.

Features



Easy-to-Use Service with HTTP RESTful APIs



Support Delay Message



Support Delay Queue



99.999999% (9 9'Ss) Multi-AZ Reliability



Diversity of Queue Attributes





Function Compute

<https://www.alibabacloud.com/product/function-compute>


Alibaba Cloud Function Compute is a fully managed, event-driven compute service. Function Compute allows you to focus on writing and uploading code without having to manage infrastructure such as servers.

Benefits

 Efficient and O&M-Free

 Elastic and Highly Available

 Low Cost on Demand

 Stable and Highly Reliable

Features

Minimal Function-Oriented Programming

You only need to write function code, hosted after the log automatic collection, monitoring and alarming, etc. are provided in one stop. No need to worry about the difficulty of operation and maintenance.

Auto-Scaling

Function Compute automatically switches in milliseconds in three instance types: pay-as-you-go, reserved, and resource prepared, to eliminate the impact of cold starts and perfectly cope with business traffic peaks.

Pre-Payment and After-Payment

You only pay for the actual consumption of the request, and you can choose pre-payment according to your business needs to securely save up to 70% of the overall costs.

Support for Container Image

Function Compute is the first domestic serverless service that supports custom container images, you can migrate your business without changes and enjoy the advantages of maintenance-free operations.

Networking & CDN

- 82 Virtual Private Cloud
- 83 Server Load Balancer
- 84 NAT Gateway
- 85 Elastic IP Address
- 86 Cloud Enterprise Network
- 87 Global Accelerator
- 88 VPN Gateway
- 89 Smart Access Gateway
- 90 Express Connect
- 91 CDN
- 92 DCDN
- 93 Secure Content Delivery (S-DCDN)



Alibaba Cloud Networking and CDN

<https://www.alibabacloud.com/product/networking>

Alibaba Cloud networking services provide you a highly stable, low latency, and high-speed network with flexible hybrid cloud connections. Our networking services deliver secure and reliable communication to and from IDCs in 25 regions globally. With more than 2,800 nodes covering six continents and 150 Tbps of bandwidth, Alibaba Cloud's extensive node network gives you access to the nearest nodes to shorten geographic distances.

Why Alibaba Cloud Network

Cross-Region Global Network Connection

Alibaba Cloud provides fast and cost-effective networking services for multinational enterprises to build cross-region network connections. We ensure that your cross-region interconnections are legal and compliant.











Comprehensive Hybrid Network Solution

For any industry, Alibaba Cloud hybrid cloud network solution enables you to connect your on-premise data from IDC, headquarters, branches, or offline stores to Alibaba Cloud. The hybrid network connections ensure that your cross-region interconnections are secure, reliable, and flexible.

Quickly and Easily Set Up and Manage Your Networks

Alibaba Cloud provides you with an easy-to-use interface to manage your networking services, such as Cloud Enterprise Network. You can set up a multi-region networking environment in 4 steps within 5 minutes.

Our Networking Services

Hybrid Cloud Network	Multi-Region Network	Alibaba Cloud
 VPN Gateway	 SLB	 CEN
 Express Connect	 Elastic IP	 GA
 SAG	 NAT Gateway	
	 VPC	
	 PrivateLink	

Scenarios

Building a cross-region hybrid enterprise network

You can optimize your internal business operations by connecting multiple offices, stores, and branches in different regions. With Alibaba Cloud networking, you can build your global business network connections using multiple VPCs in different regions. Cloud Enterprise Network learns the routing information and distributes the routing automatically, therefore providing advanced communication between VPCs. You can experience the faster, secure, and high-quality network worldwide.

Dedicated network connection between different cloud environments

You can access services on cloud from your own data center. Alibaba Cloud networking services enable your enterprise to access Alibaba Cloud Express Connect leased line from different local data centers. You can experience a high-quality network connection with our fast, compliant, and secure network cables.

Accelerating your websites, mobile apps and application services

You can bring the best experiences to your global customers with our fast and reliable networking services. For global business management, low latency communication between HQ and international offices is vital. Cloud Enterprise Network gives businesses access to multiple VPCs and regions, which improves business processes and overall connection with lower latency between headquarters and global branches.

Customers





Virtual Private Cloud

<https://www.alibabacloud.com/product/vpc>

Virtual Private Cloud (VPC) is a virtual private cloud service that provides an isolated cloud network to operate resources in a secure environment.

Benefits

Secure Isolation

Builds an isolated network environment based on Alibaba Cloud. Layer-2 logical isolation is achieved between different VPC instances

Flexibility

Configures the network as required with SDN and customizes the IP address range and route table

Scalability

Works with multiple products and easily manages Internet portals to provide a hybrid cloud architecture

Free of Charge

Achieves a fully isolated VPC environment for free on the Alibaba Cloud platform

Features

Access control

Flexible access control rules are compliant with the secure isolation regulations for government and financial users.

Custom network environment

You can customize the IP address range, network segment, route table, and gateway. You can also plan and manage the network as needed.

Hybrid cloud architecture

VPC can be connected to a traditional IDC through leased lines or VPN to build a hybrid cloud.

Internet portal management

VPC meets the requirement for VPC resources to actively access the Internet and provide external services.



Server Load Balancer

<https://www.alibabacloud.com/product/server-load-balancer>

Server Load Balancer (SLB) distributes network traffic across groups of backend servers to improve the service capability and application availability. It provides functions as a reverse proxy at Layer 7 ALB and load balancing services at Layer 4 CLB.

Benefits

High Security and Reliability

Server Load Balancer (SLB) provides disaster recovery at four levels for high availability. CLB and ALB support built-in Anti-DDoS services to ensure business security. In addition, you can integrate ALB with WAF in the console to ensure security at the application layer.

Multiple Protocols

Server Load Balancer (SLB) supports multiple protocols, such as TCP and UDP at the network layer, and HTTP, HTTPS, QUIC, and gRPC at the application layer. ALB provides multiple advanced routing features at Layer 7.

Cloud-Native

ALB and CLB support cloud-native networks. ALB is integrated with other cloud-native services, such as Container Service for Kubernetes (ACK), Serverless App Engine (SAE), and Kubernetes, and functions as a cloud-native gateway to distribute inbound network traffic.

Features



Multiple Protocol Support



Flexible Scheduling



Multi-Level Disaster Recovery



Session Retention



Superb Performance Guarantee



Multiple Management Channels and Payment Methods



NAT Gateway

<https://www.alibabacloud.com/product/nat>

NAT Gateway is a Network Address Translation (NAT) service. A NAT gateway enables multiple instances within a virtual private cloud (VPC) to communicate with the Internet.

Benefits

High Performance

A NAT gateway supports tens of Gbit/s of throughput and millions of connections. This meets the requirements of large-scale workloads migrated to the cloud.

High Reliability

Provides reliable gateway services that support disaster recovery across data centers with automatic elasticity as the business fluctuates

Cost-Effectiveness

Supports bandwidth sharing among multiple VPCs and ECS instances to reduce bandwidth costs significantly

Easy O&M

The graphic console makes it easy to create custom NAT rules and provides more than 22 monitoring metrics to facilitate operations and maintenance.

Features



Source Network Address Translation (source-nat or SNAT)



Destination Network Address Translation (DNAT)



Shared Bandwidth to Save Your Costs



Up to 22 monitoring metrics



Display ECS instances by network traffic volume



Elastic IP Address

<https://www.alibabacloud.com/product/eip>

An elastic IP address (EIP) is a public IP address that you can purchase and use as an independent resource.

Benefits



High Availability

A high-availability architecture that eliminates single points of failure and supports cross-zone disaster recovery and automatic failover



High-Speed Access from Different ISPs

You can use 89 high-quality BGP lines worldwide, and EIP bandwidth plans to increase the BGP bandwidth to 100 Gbit/s.



Flexible Billing Methods

Supports the pay-by-data-transfer metering method and data transfer plans, the pay-by-bandwidth metering method, subscription billing method, and EIP bandwidth plans



Abundant IP Addresses

Supports contiguous IP addresses and allows you to retrieve specific IP addresses you have released

Features

Elastic IP Address

One IP address can implement high-speed access from different ISPs, establish standby connections, and perform failover.

Elastic IP Address - China (Hong Kong)

BGP (Multi-ISP) Pro

Web services deployed in China (Hong Kong) can reduce the network latency for Mainland China users.

Elastic IP Address - (BYOIP)

One IP address can implement high-speed access from different ISPs, establish standby connections, and perform failover.



Cloud Enterprise Network

<https://www.alibabacloud.com/product/cen>

Cloud Enterprise Network (CEN) is a global network for rapidly building a distributed business system and hybrid cloud to help users create a network with enterprise level-scalability and the communication capabilities of a cloud network.

Benefits



Deploy and Connect Globally

You can build a globally interconnected network through connecting your Cloud Enterprise Network instances.



Simple and Easy to Use

You can create CEN, attach network instance, buy bandwidth package, and set inter-region bandwidth to perform cross-region connections in four easy steps.



Safe and Reliable

You can deploy a private communication environment and multi-link redundancy to guarantee high-quality communication.



Fast Convergence

Overall routing information is learned and forwarded automatically and routes convergence in seconds.

Features

Large-Scale Flexible Networking

Each geographic region provides Transit Router to connect network instances centrally, and the network can be controlled, managed, and easily expanded.

Network Resource

Inter-connection between any network instances enhances high-speed, reliable, and stable network.

Automatic Routing Learning and Distribution

Automatic management and learning of full network routing simplify network operations and maintenance.

Bandwidth Sharing and Autonomous Management

Only one bandwidth packet is required to enable inter-connection between specified domains.



Global Accelerator

<https://www.alibabacloud.com/product/ga>

Global Accelerator is a network acceleration service. It provides network acceleration service for your Internet-facing application globally with guaranteed bandwidth and high reliability.

Benefits



High Availability

Monitors the running status of applications and automatically schedules user traffic to ensure service continuity



Robust Security

Allows you to set access control policies and use Alibaba Cloud security services to protect applications from attacks



Easy Deployment

Easy to configure and deploy. A unified monitoring and operations and maintenance system is implemented for global resources.

Features

Superior Network Quality

Implements smart scheduling of user traffic to facilitate nearby access to the global network of Alibaba Cloud

Enhanced Security

Protects Internet services from attacks and reinforces the secure access to backend services

High Availability

Supports smooth upgrade and migration of your workloads to maximize service continuity



VPN Gateway

<https://www.alibabacloud.com/product/vpn-gateway>

VPN Gateway is an Internet-based service that establishes a connection between a VPC and your on-premise data center.

Benefits

Security

Supports Internet Key Exchange (IKE), IPsec, and SSL to guarantee the security and reliability of data transmission

High Availability

Adopts hot-standby architecture to achieve a failover of less than a few seconds, session continuity, and zero service downtime

Cost-Effectiveness

Provides secure internet-based connections to implement hybrid cloud computing, which is more cost-effective than leased lines

Ease of Use

VPN Gateway is a ready-to-use service that supports dynamic configuration for quick deployment.

Features

On-premise to cloud connections

Establishes secure connections to connect on-premise data centers and VPCs. This ensures the security and reliability of the hybrid cloud architecture.

Pay-As-You-Go and efficient management

All resources in the cloud are billed based on your actual usage. VPN Gateway provides multiple resource management methods.

Secure Internet platform connections

Supports SSL VPN to secure the connections established from Internet platforms to VPCs



Smart Access Gateway

<https://www.alibabacloud.com/product/smart-access-gateway>

Smart Access Gateway (SAG) is a one-stop solution for connecting private networks to Alibaba Cloud. You can connect private networks to Alibaba Cloud through SAG in a secure, intelligent, and reliable way.

Benefits



Intelligence

An out-of-the-box service that supports automatic configurations and dynamically adjusts network settings to adapt to network topology changes



Reliability

Ensures reliable connections between on-premises networks and Alibaba Cloud with device-based and link-based high availability



Security

Provides encrypted connections among private networks. Data transmitted over the Internet is encrypted and authenticated



Centralized Management

Allows you to configure and manage Smart Access Gateway devices in the console

Features

Security and Encryption

Encrypts data during transmission to ensure data security

Flexible Connection Modes

Provides multiple connection modes to satisfy different network requirements

High Availability

Provides high availability to eliminate single points of failure (SPOFs)



Express Connect

<https://www.alibabacloud.com/product/express-connect>

Express Connect is an easy-to-use network service that enables high-bandwidth, reliable, secure, and private connections between different environments.

Benefits



Secure transmission

All data is transmitted through Alibaba Cloud facilities, avoiding Internet-based connections and reducing the risk of data theft.



High bandwidth connectivity

Supports dedicated connections with reduced network latency and high bandwidth



Stability and reliability

Offers highly reliable connections with high redundancy based on Alibaba Group's robust infrastructures



Flexible topology

Allows you to deploy services in multiple data centers, and constructs a converged network that connects on-premise data centers and VPC networks

Features

Dedicated connections between on-premise data centers and VPC networks

Express Connect provides dedicated network connections between on-premise data centers and VPC networks to help you easily build a converged network across architectures

Multiple connection methods

You can connect on-premise data centers to Alibaba Cloud through ISPs or Alibaba Cloud partners. The service enables high bandwidth network connections with reduced costs.



CDN

<https://www.alibabacloud.com/product/cdn>

CDN is a scalable and high-performance content delivery service for accelerated distribution of content to users across the globe.

Benefits



Stability

Provides more than 2,800 nodes covering six continents and 150 Tbps of bandwidth, and supports major ISPs worldwide



High Speed

Supports a response time of less than several milliseconds, intelligent connection selection, and a backbone network with 10-GE NICs and SSD storage



Scalability

Supports multiple native features, including horizontal service scaling, customizable console, multiple APIs, and simple architecture scaling



Cost-Effectiveness

Supports Pay-As-You-Go and other billing methods to achieve cost effective and high-quality content delivery

Use Cases



Website Acceleration

Automatic migration of cache hotspots with a response time of less than several milliseconds



Download Acceleration

Cost-effective, stable, and high-speed downloading files that are larger than 20 MB



On-Demand Streaming

Faster and smoother on-demand streaming



Livestreaming

Out-of-the-box live streaming solution



Mobile Acceleration

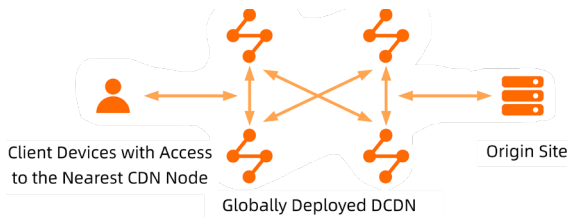
Compatibility with multiple platforms for smooth mobile network experience



DCDN

<https://www.alibabacloud.com/product/dcdn>

Dynamic Route for Content Delivery Network (DCDN) is a content delivery acceleration service, based on Alibaba Cloud's CDN to accelerate content delivery for hybrid sites, dynamic sites, and applications.



Benefits

Intelligent Acceleration

Improves website availability by up to 60%

Stability and Ultra-High Speed

Provides more than 2,800 nodes covering six continents with 150 Tbit/s network-wide

Content Security

Fortifies DCDN with a full range of edge security functions such as DDoS mitigation and WAF

Ease of Use

VPN Gateway is a ready-to-use service that supports dynamic configuration for quick deployment.

Features

Cross-Border Acceleration

DCDN provides network acceleration across countries and regions improves the success rate of dynamic requests significantly and reduces request latency.

Edge Computing

DCDN provides an edge application to upload and run your JavaScript code on CDN and DCDN nodes to personalize your requests from the client side.

Security

DCDN provides complete security capabilities to defend against CC attacks, attacks against WAF, and malicious bots, while accelerating network access.

Layer 4 Acceleration

DCDN provides Layer 4 network acceleration for applications and websites that use private protocols and cannot use the default HTTP-based Layer 7 network acceleration of CDN.

Dynamic Acceleration

For API interface requests with dynamic data that cannot be accelerated by CDN, DCDN's intelligent route selection capability allows requests to reach the origin site with the primary network link, accelerating access by 25% and improving availability.



Secure Content Delivery (S-DCDN)

<https://www.alibabacloud.com/solutions/content-delivery/secure-dcdn>

Secure Content Delivery (S-DCDN) fortifies DCDN with a full range of edge security functions, such as DDoS mitigation, WAF, Bot Manager, and precise access control, making it a Secure Content Delivery solution.

Benefits



Static and Dynamic Content Delivery

DCDN is an all-in-one product that best addresses the acceleration of static and dynamic content. It intelligently picks the best acceleration strategy based on the request, eliminating the need to modify a customer's origin.



Edge Security

Alibaba Cloud security capabilities can protect your online business from various threats, such as zero-day attacks and DDoS, via secure DCDN. Gartner, Forrester, and IDC recognize Alibaba Cloud's excellence.



Quick Start and Easy DevOps

You can get started on the DCDN console within five minutes, leverage rich Open APIs for easy DevOps on programmable orchestration and automation, and use Alibaba Cloud's programable edge computing features to customize your DCDN.



Robust Global Network

DCDN uses Alibaba Cloud global CDN nodes. It can deliver high-speed network access of 150 Tbps of bandwidth and ultra-low transmission latency with network coverage in 24 regions worldwide, including 110+ POP nodes and 2800+ edge nodes.



Best CDN Practice in China

Alibaba Cloud runs the largest CDN network in China with a 95% buffer cache hit ratio for cross-border cases. It can help you stay compliant with Chinese regulatory requirements, such as MLPS 2.0.



Deep Integration with Alibaba Cloud

Secure DCDN can be easily integrated with other Alibaba Cloud products to acquire long-term log storage, powerful data visualization and analytics, and performance monitoring capabilities.

Database

- 99 PolarDB
- 100 ApsaraDB RDS for MySQL
- 101 ApsaraDB RDS for SQL Server
- 102 ApsaraDB RDS for PostgreSQL
- 103 AnalyticDB for MySQL
- 104 AnalyticDB for PostgreSQL
- 105 ApsaraDB for Redis
- 106 ApsaraDB for MongoDB
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- 108 ApsaraDB for MyBase
- 109 PolarDB-X
- 110 Database Utility & Tools



Databases

<https://www.alibabacloud.com/product/databases>

Why Us

Extensive Product Portfolio

Alibaba Cloud offers one of the most extensive portfolios of cloud database solutions and can provide the necessary solutions to store, process, analyze and manage your data to support and add value to your business. Our database systems support all the mainstream open-source and commercial database solutions, including MongoDB, PostgreSQL, MySQL, SQL Server, HBase, ClickHouse, and Redis.

Proven Reliability and Scalability

Alibaba Cloud's databases can empower your business, no matter the scale. Database solutions like RDS and PolarDB supported Alibaba's systems behind the annual **Double 11 Shopping Festival**, the world's largest online shopping event.


Large and Growing Customer Base














Our database solutions have supported over 150,000 customers with more than 700,000 databases hosted on Alibaba Cloud. Alibaba Cloud is the number one choice among cloud database providers in Asia Pacific.








Paired with Powerful AI Solutions

Integrated with new and innovative AI solutions, our databases come with features such as auto-recovery and auto-optimization so that you can **be more equipped in the cloud native revolution**.

Database Services

Database Type	Product	Scenario
<p>Cloud Database Dedicated Cluster (CDDC)</p> <p>Autonomous and controllable database service cluster on Alibaba Cloud.</p>	 <p>ApsaraDB for MyBase</p>	<p>A highly cost-effective cloud database service on dedicated cluster with grants overprovisioning, hybrid deployment, resource scheduling and more authority.</p>

<p>Online Transaction Processing (OLTP)</p> <p>Comprehensive relational transactional database products on Alibaba Cloud.</p>	<ul style="list-style-type: none">  PolarDB <hr/>  DBStack <hr/>  ApsaraDB RDS for MySQL <hr/>  ApsaraDB RDS for PostgreSQL <hr/>  ApsaraDB RDS for SQL Server <hr/>  ApsaraDB RDS for MariaDB TX <hr/>  PolarDB-X 	<p>New generation of "Super MySQL, PostgreSQL or compatible Oracle" supporting up to 100 TB storage.</p> <hr/> <p>ApsaraDB platform deployed on any infrastructure, all under your ownership</p> <hr/> <p>An availability and performance enhanced MySQL service supporting versions 5.5, 5.6, 5.7 and 8.0.</p> <hr/> <p>An on-demand PostgreSQL service with automated monitoring, backup and disaster recovery capabilities.</p> <hr/> <p>A cost effective cloud hosted SQL Server service with automated monitoring, backup and disaster recovery capabilities.</p> <hr/> <p>Cloud hosted MariaDB Enterprise Edition.</p> <hr/> <p>A cloud-native distributed database developed by Alibaba Cloud.</p>
<p>NoSQL</p> <p>Semi-structured or non-structured databases built for superior performance.</p>	<ul style="list-style-type: none">  ApsaraDB for Redis <hr/>  ApsaraDB for MongoDB <hr/>  Time Series Database (TSDB) <hr/>  GDB <hr/>  Time Series Database for InfluxDB® <hr/>  LedgerDB 	<p>Performance enhanced and cost effective Redis offering in-memory caching and high-speed access to applications.</p> <hr/> <p>A secure, reliable, and elastically scalable MongoDB service.</p> <hr/> <p>A stable, reliable, and cost-effective online high performance time series database service.</p> <hr/> <p>Fast and reliable Graph database with TinkerPop Gremlin interface and ACID property.</p> <hr/> <p>A cost-effective online time series database service, compatible with the open source InfluxDB service, and offering high availability, auto scaling features.</p> <hr/> <p>A ledger database that provides powerful data audit capabilities</p>


<p>Online Analytical Processing (OLAP)</p> <p>World leading cloud data warehouse and data lake services built for extremely fast analytics.</p>	<p> AnalyticDB for MySQL</p> <hr/> <p> AnalyticDB for PostgreSQL</p> <hr/> <p> ApsaraDB for ClickHouse</p>	<p>A real-time data warehousing service that can process PB data with high concurrency and low latency.</p> <hr/> <p>Online expansion and performance enhanced data warehouse based on the open source Greenplum database.</p> <hr/> <p>Online expansion, monitoring and security powered data warehouse based on the open source ClickHouse database.</p>
<p>Utility Tools</p> <p>The highway and utilities for database ecosystem on cloud.</p>	<p> Data Transmission Service (DTS)</p> <hr/> <p> Database Backup (DBS)</p> <hr/> <p> Data Management (DMS)</p> <hr/> <p> Database Autonomy Service (DAS)</p>	<p>A migration and synchronization service between various data storage types.</p> <hr/> <p>Database backup offers strong data protection in Alibaba Cloud, IDC, hybrid clouds, or third-party clouds.</p> <hr/> <p>A data management service for data security, efficiency and collaboration on alibaba cloud or hybrid clouds.</p> <hr/> <p>Self-driving Database Platform : Self-repair, Self-optimization, and Self-security</p>

Database Solutions

Oracle Database Migration

Migrate your legacy Oracle databases to Alibaba Cloud to save on long-term costs and take advantage of improved scalability, reliability, robust security, high performance, and cloud-native features


<https://www.alibabacloud.com/solutions/oracle-database-migration>



Database Migration

Explore Alibaba Cloud's portfolio of fully managed database services, and learn how to leverage a rich set of utility tools and professional database expert services to migrate your business without down time

https://www.alibabacloud.com/solutions/database_migration



Cloud Database Solutions for FinTech

Learn how cloud databases can be used to help Fintech users build their business faster and improve the availability of their systems

<https://www.alibabacloud.com/solutions/database-for-fintech>



Cloud Database Solutions for Gaming

See how advanced cloud databases can help users in the Gaming industry to meet all the requirements for high throughput with low latency, and stay ahead of the competition

<https://www.alibabacloud.com/solutions/database-for-gaming>



Database Security

Protect, backup, and restore your data assets on the cloud with Alibaba Cloud database services

<https://www.alibabacloud.com/solutions/database-security>



Customers





PolarDB

<https://www.alibabacloud.com/product/polardb>

PolarDB is a cloud-native relational database compatible with MySQL, PostgreSQL, and Oracle. ApsaraDB for PolarDB provides the performance and availability of traditional enterprise databases and the flexibility and cost-effectiveness of open-source databases.

Benefits

Large Storage Capacity

Supports up to 100 TB of data with up to 16 nodes for an instance and 88 vCPUs for each node

High stability

Uses 'one primary node, multiple replicas' architecture, in which all read/write and read-only nodes of the same instance access the same replica

High compatibility

PolarDB is fully compatible with MySQL. You can migrate data to Alibaba Cloud without modifying the code.

Top Performance

Decouples compute and storage resources for 6 times faster performance than standard MySQL databases

Data Security

Supports active/standby switchovers to prevent data loss and data inconsistency. Read-only replicas can be created within minutes

Scenarios

Gaming

PolarDB's high elasticity and high performance can help you easily cope with traffic peaks with over one million users online at the same time, and quickly complete game rollbacks through high-frequency snapshots and database library/table recovery. GDN supports disaster recovery to ensure normal business operation 24/7.

Financial Insurance and Securities

PolarDB's 100TB storage effectively solves the bottleneck of storage capacity, and its high-elasticity scaling capability enables enterprises to quickly scale out in scenarios such as promotions and flash sales, easily coping with business traffic peaks dozens of times higher than usual.

New Retail, Online Education, and Mobile Apps

PolarDB provides unitized solutions to meet customers' needs for high data security in three-center-in-two-locations and five-center-in-three-locations scenarios. It is compatible with domestic chips and operating systems and supports hybrid deployment to meet customers' needs for innovation.

Urban Management, Hydraulic Engineering, and Agriculture

PolarDB provides built-in Ganos spatio-temporal data engine to meet customers' needs for integrated multi-modal storage, quick integrated retrieval and query analysis.



ApsaraDB RDS for MySQL

<https://www.alibabacloud.com/product/apsaradb-for-rds-mysql>

ApsaraDB RDS for MySQL is a fully hosted online database service that supports MySQL 5.5, 5.6, 5.7, and 8.0.

Core Tech

AliSQL

Our self-developed AliSQL can process highly concurrent requests; increase IOPS; and ensure stability.

CloudDBA

CloudDBA is integrated into the ApsaraDB for RDS console to monitor the performance and provides suggestions to locate performance issues.

Security certificates

ApsaraDB RDS for MySQL has received more than 10 security certificates from both China and the international community.



ApsaraDB RDS for SQL Server

<https://www.alibabacloud.com/product/apsaradb-for-rds-sql-server>

ApsaraDB RDS for SQL Server is an on-demand database hosting service for SQL Server with automated monitoring, backup and disaster recovery capabilities.

Benefits



Stability and High Availability

Automatically switches to standby instances when the primary instance fails. Maintained by the top database experts from Alibaba Cloud



Strict Security Mechanism

Complies with Grade III Protection of Information Security and supports encryption techniques such as TDE and SSL to prevent data leakage



Comprehensive Monitoring

Offers multiple performance metrics and custom alarm settings so that you can monitor and understand all your database information dynamically



High Cost-Efficiency

Authorized by the SQL Server Enterprise Edition license. You do not need to pay additional copyright fees.

Scenarios

E-Commerce Applications: High Concurrency and High Performance Scenarios

ApsaraDB for SQL Server is optimized to provide a 100-fold performance improvement in order to support data updates in high concurrency scenarios, such as e-commerce sales promotions.

Web Applications: Cost-Efficient Scenarios

ApsaraDB for SQL Server provides basic instances that are cost-efficient and support horizontal scaling. These instances can meet the business needs of multiple types of websites.

Healthcare Applications: High Availability and High Security Scenarios

ApsaraDB for SQL Server provides supports horizontal scaling and read-write splitting and can meet the business needs of multiple types of websites.



ApsaraDB RDS for PostgreSQL

<https://www.alibabacloud.com/product/apsaradb-for-rds-postgresql>

ApsaraDB RDS for PostgreSQL is an on-demand database hosting service for PostgreSQL with automated monitoring, backup and disaster recovery capabilities.

Benefits



NoSQL Compatibility

Compatible with SQL:2011 and supports multiple data types, such as JSON and XML



Multiple Extensions

Supports GIS data, cloud storage expansion, and Chinese text segmentation to make development easier



Efficient Querying

Provides a cost-based SQL query optimizer that shows significantly better performance in multi-table queries than MySQL



Secure and Stable

Supports SQL auditing and field permission control. Provides IP whitelists to prevent DDoS attacks

Scenarios

Standard enterprise-level PostgreSQL solution

ApsaraDB RDS for PostgreSQL supports local disaster recovery and ensures the security and stability of enterprise databases. It is a good choice for online transaction processing, and shows better performance at JOIN queries involving multiple tables.

Unlimited storage expansion

With AnalyticDB for PostgreSQL, you can expand your OLAP applications horizontally to provide better performance and more storage space.

Boosts IoT development with GIS and JSON

With PostgreSQL, you can use SQL to perform operations on JSON and GIS data directly. This saves the trouble of data imports and significantly increases the development efficiency.



AnalyticDB for MySQL

<https://www.alibabacloud.com/product/analyticdb-for-mysql>

AnalyticDB for MySQL is a real-time data warehousing service that can process petabytes of data with high concurrency and low latency. It is fully compatible with the MySQL protocol and SQL:2003 syntax and can perform instant multidimensional analysis and business exploration for huge amounts of data.

Benefits



Flexible Computing and Fast Response

Provides instant multidimensional analysis and can explore large amounts of data in milliseconds



Stability and Security

Provides a high-availability architecture with multi-copy redundancy to ensure the security of user data



Highly Concurrent Access

Meets the requirements for querying large amounts of data at high QPS rates



Dynamic Upgrade/Downgrade and Elastic Scaling

Allows you to flexibly scale your business to save costs

Scenarios

Real-Time Data Warehousing

AnalyticDB for MySQL provides real-time computing statistics of business metrics, and uses data visualization tools to display business trends in real time, such as real-time statistics of transaction orders and monitoring of the running status of vehicles and devices.

Real-Time Computing Service

AnalyticDB for MySQL is used to build a real-time computing business system to overcome problems of traditional databases, such as inability to perform quick multi-table join queries on large amounts of data.



AnalyticDB for PostgreSQL

<https://www.alibabacloud.com/product/hybriddb-postgresql>

ApsaraDB AnalyticDB for PostgreSQL is an online MPP (Massively Parallel Processing) data warehousing service based on the open source Greenplum Database.

Benefits



Superior Performance

Enables mixed use of row and column stores. Column stores are 100 times faster than OLAP analytics between row stores



Ease of Use

Supports rich OLAP SQL syntax and functions, as well as numerous Oracle functions. Industry-popular BI software can be unrolled for AnalyticDB for PostgreSQL directly



Stable and Reliable

Supports distributed database ACID transactions. Also features distributed deployment with ternary protection of the segment, server and cabinet, safeguarding security of the data infrastructure



Flexible Scalability

Scales the computing unit (CPU, memory, and storage space) and increases the OLAP performance to handle hundreds of terabytes

Scenarios



Upgrade of
Traditional Data
Warehouse



Refined
Operation
Analysis



GIS Data
Analysis



ApsaraDB for Redis

<https://www.alibabacloud.com/product/apsaradb-for-redis>

ApsaraDB for Redis is a database service that is compatible with the open source Redis protocol and supports a hybrid of memory and disks for storage. ApsaraDB for Redis provides the hot standby architecture and the cluster architecture, and can scale to meet requirements for high-throughput and low-latency operations.

Benefits



Highly Stable Architecture

ApsaraDB for Redis' master-replica architecture guarantees automatic failover. RDB persistence and AOF persistence are supported.



High Performance and Scalability

Connection capacity and network throughput are configurable. Elastic configurations of cluster instances apply to high concurrency scenarios.



Source Code Optimization

Alibaba Cloud senior experts provide professional services to optimize the kernel for higher performance and security, fix kernel vulnerabilities, and ensure service stability.



Smart Operations and Maintenance

It features visualized resource management, an end-to-end monitoring and alerting system, automatic upgrades for hands-free version control, and intelligent management and maintenance.

Scenarios

Internet Applications

Single node instances are suitable for websites that deal with heavy reads and writes but require cost-effectiveness. Single node instances are intended for caching services. They provide high QPS performance and use RDS to persist data.

Game Applications

Game companies release new games to attract more players and increase market share. ApsaraDB for Redis can reduce the complexity of application development and dynamically scale out to withstand heavy loads.

Livestreaming Applications

Traffic spikes occur in live streaming scenarios. Cluster instances can overcome the single-threading bottleneck of Redis, handle millions of QPS, and meet the requirements of low response latency and high concurrency.

E-Commerce Applications

In the e-commerce industry, large-scale promotion systems and inventory systems with a counting feature are exposed to a huge amount of user traffic. ApsaraDB for Redis can withstand heavy reads and provide data persistence.



ApsaraDB for MongoDB

<https://www.alibabacloud.com/product/apsaradb-for-mongodb>

Alibaba Cloud ApsaraDB for MongoDB is a secure, reliable, and elastically scalable cloud database service for automatic monitoring, backup, and recovery by time point.

Benefits



Highly Available Storage Engine

Adopts the Apsara distributed system and three-member replica set architecture. You can create multiple replicas for backup.



Elastic Scaling

Supports clustering to achieve unlimited elastic scaling and data storage



Homogeneous and Heterogeneous Data Transmission

Supports homogeneous data transmission between on-premise databases and cloud databases, and heterogeneous data transmission between cloud databases, for efficient and easy data analysis



Professional Services

ApsaraDB for MongoDB has been improved by the MongoDB open source team and provides MongoDB certificated database administrator (DBA) support.

Features

Internet Services

Internet services always have fast business and visit growth and include a large amount of data. ApsaraDB for MongoDB supports horizontal scaling of data storage.

Game Server Sharding

When replacing old servers with new servers, or merge servers, ApsaraDB for MongoDB supports quick mirroring and incremental database backup and timestamp-based database recovery.

Big Data Services

ApsaraDB for MongoDB can deliver the data to the compute engine. The compute engine analyzes the data and returns the analysis results to the databases. This enables your business to quickly obtain the analysis results.



ApsaraDB for HBase

<https://www.alibabacloud.com/product/hbase>

ApsaraDB for HBase is a NoSQL database engine that is highly optimized and 100% compatible with the community edition of HBase. It is a stable, easy-to-use, and cost-effective database solution.

Benefits



High Storage Reliability

ApsaraDB for HBase is built with a distributed cluster architecture with six data backups and at least three replicas to guarantee a data reliability of 99.9999999%.



High Availability

Real-time availability monitoring and single-point failover are supported to guarantee the continuity of your workloads. Service process monitoring and automatic recovery can help you recover processes within a few seconds.



High-Efficiency Operations and Maintenance

ApsaraDB for HBase is equipped with a unified platform for visualized database management, monitoring, and alerting. Its kernel, web console, API, and multi-language SDKs are designed for the easy cluster management.



Significantly Improved Performance

Alibaba Cloud has significantly optimized the HBase kernel, allowing for read and write performance to be increased by 3 to 7 times, with 99% percentile latency reduced by 90%, and MTTR reduced by 90%.



ApsaraDB for MyBase

<https://www.alibabacloud.com/product/cddc>

ApsaraDB for MyBase is a dedicated service for managing databases on the cloud. MyBase is easy to use and flexible, and can meet the requirements of database regulations and compliance, high security, and high performance.

Benefits



Secure and Manageable

ApsaraDB for MyBase provides dedicated physical resources and supports high-level resource isolation. It grants you permissions on databases and limited permissions on operating systems and adapts to existing applications and O&M tools/scripts.



Cost-Efficient

ApsaraDB for MyBase allows you to allocate resources based on your workloads and fully utilize resources, such as CPU and memory resources, to reduce the Total Cost of Ownership (TCO).



High Performance

Multiple types of databases can be deployed in a cluster that is close to your business system to meet the requirements of business architecture design and improve the efficiency of database access.



PolarDB-X

<https://www.alibabacloud.com/product/polardb-x>

PolarDB-X is a cloud-native distributed database developed by Alibaba Cloud. It is compatible with the MySQL syntax and provides scale-out capabilities, financial-grade high availability, and hybrid transaction/analytical processing (HTAP) functionality. It distributes business workloads to multiple compute and storage nodes and is designed to address database challenges such as ultra-high concurrency, massive data storage, and large table performance bottlenecks.

PolarDB-X has been tried and tested in Alibaba's Double 11 shopping festivals, and has helped customers in industries such as finance, logistics, energy, e-commerce, and public service to address business challenges.

Benefits



High-Volume Storage

Linearly increases storage space to provide petabyte-scale storage, making storage bottlenecks of standalone databases a thing of the past



HTAP Functionality

Provides the massively parallel processing (MPP) capabilities to significantly improve the efficiency of complex analysis and queries on vast amounts of data



Scale-Out

Provides extensive algorithms to distribute data across multiple storage nodes, effectively reducing the volume of data stored in a single table

Database Utility & Tools




Database Autonomy Service (DAS)



<https://www.alibabacloud.com/product/das>

Database Autonomy Service (DAS) is a cloud service that implements self-perception, self-repair, self-optimization, self-O&M, and self-security of databases based on machine learning and expert experience. DAS eliminates the complexity of database management and service failures caused by manual operations, and ensures the stability, security, and efficiency of database services.

Benefits

-  Saves More than 90% of Management Costs
-  Reduces Database O&M Risks
-  Enhances Database Security

Scenarios



Autonomy Service



Enterprise-Class Database Service



Security Audit



Hybrid Cloud Database Management

Hybrid Cloud Database Ecosystem Tools

Data Transmission Service

Data Transmission Service (DTS) helps you migrate data between data storage types, such as relational database, NoSQL, and OLAP. The service supports homogeneous migrations as well as heterogeneous migration between different data storage types.

<https://www.alibabacloud.com/product/data-transmission-service>



Data Management

Data Management (DMS) is a database research and development service platform developed by Alibaba. DMS can help enterprises safeguard data access, ensure security of data change and improve the database research and development efficiency.

<https://www.alibabacloud.com/product/data-transmission-service>



Database Backup

Database Backup (DBS) is a secure and cost-efficient solution for continuous data protection. The service offers strong protection for data stored in multiple environments, such as enterprise data centers, hybrid clouds, public clouds, and third-party cloud vendors.

<https://www.alibabacloud.com/product/database-backup>



Big Data

115 MaxCompute

116 Hologres

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Data Intelligence

Why Us

Rich Data Analytics Capabilities

The Data Analytics and AI solutions leverage Alibaba Cloud's broad set of data analytics and cloud infrastructure services, providing you with all the necessary capabilities throughout the entire data lifecycle.

Consistent Full-Lifecycle Data Management

Alibaba Cloud embeds all data analytics capabilities into a Unified Data Analytics Platform to offer integrated support on data consistency with lower TCO and the greatest manageability.

Deep Industry Expertise

By leveraging Alibaba's continuous innovations in industries such as new retail, finance, and logistics, we help you develop industry solutions and applications based on our unique methodology and data analytics to accelerate your success.

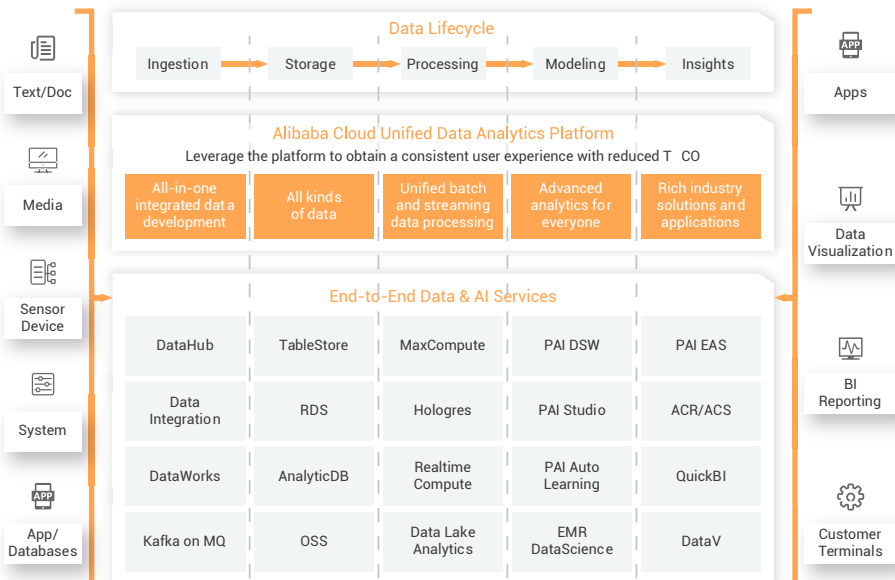
Robust Cloud Platform

Alibaba Cloud provides a robust cloud infrastructure with high reliability, security, performance, and cost-efficiency. The breadth and depth of our offerings are among the best in Gartner's evaluation.

Customizable AI Platform

You can build and customize your cloud-native AI training platform with a console for development and O&M by using **Alibaba Cloud-Native AI Suite** to improve AI engineering efficiency in all stages of deep learning.

Featured Products



Featured Solutions

Alibaba Cloud Big Data Consulting Services for Enterprise Data Technology.

Alibaba Cloud experts can help you set up a customized big data platform with data governance models, unleash the power of data from data analytics, develop machine learning use cases for faster and smarter decision making, and evolve to a data-driven organization.



<https://www.alibabacloud.com/solutions/consulting-services/enterprise-data-tech>

Alibaba Cloud Big Data Consulting Services for Retail

Alibaba Cloud experts provide retailers with a lightweight and customized big data consulting service to help you assess your big data maturity and plan your big data journey in two to six weeks, transforming your retail business through big data technologies.



<https://www.alibabacloud.com/solutions/consulting-services/retail>

Data Lake Storage

Build a Data Lake with Alibaba Cloud Object Storage Service (OSS) with 99.999999999% (12 9s) availability, 99.995% SLA, and high scalability



<https://www.alibabacloud.com/solutions/data-lake-storage>

Customers





MaxCompute

<https://www.alibabacloud.com/product/maxcompute>

MaxCompute (previously known as ODPS) is a general purpose, fully managed, multi-tenancy data processing platform for large-scale data warehousing. MaxCompute supports various data importing solutions and distributed computing models, enabling users to effectively query massive datasets, reduce production costs, and ensure data security.

Benefits



Large-Scale Computing and Storage

Supports EB-level data storage and computing



Multiple Computational Models

Supports SQL, MapReduce, and Graph computational models and Message Passing Interface (MPI) iterative algorithms



Reliable Data Security Measures

Provides stable offline analysis services for more than seven years, and enables multi-level sandbox protection and monitoring



Cost-Effective

Provides more efficient computing and storage services than an enterprise private cloud, and reduces the purchase cost by 20% to 30%

Features



TPCx-BB passed the world's first 100TB scale test



Fully managed serverless online services



Elasticity, scalability, and high performance



Unified rich compute and storage capabilities



Integrated AI capabilities



Deep integration with Spark engine



Data lake exploration and analysis



Native integration with DataWorks



A unified view of enterprise data



Fine-grained data security



Hologres

<https://www.alibabacloud.com/product/hologres>

Hologres is a cloud-native Hybrid Serving & Analytical Processing (HSAP) system that is seamlessly integrated with the big data ecosystem. You can use Hologres to analyze and process PB-scale data with high concurrency and low latency.

Benefits



Quick Response

Responds to queries on PB-scale data at sub-second speeds. This response speed allows you to analyze data in multiple dimensions and explore your business in real time.



High Performance

Supports highly concurrent writes and queries at a speed of up to 100 million transactions per second (TPS). Data can be queried immediately after it is written.



Low Cost

Uses the compute-storage separation architecture. It allows you to dynamically upgrade or downgrade configurations and resize the storage capacity based on your business requirements.



High Reliability

Stores multiple replicas of data by default based on the distributed high-availability architecture. The SLA level reaches 99.99%.

Features

Support for Various Query Modes

Stores data in column- or row-oriented mode. Hologres can process a large volume of SQL statements concurrently in distributed mode. It returns query responses on large volumes of data at sub-second speeds.

High Compatibility and Ease of Development

Compatible with the PostgreSQL ecosystem and seamlessly integrated with DataWorks. DataWorks is the big data computing engine and big data development platform of Alibaba Cloud.

Writes and Updates Data in Real Time

Supports highly-concurrent writes and updates at a speed of up to 100 million TPS. Data can be queried immediately after it is written.



E-MapReduce

<https://www.alibabacloud.com/product/emapreduce>

EMR is an all-in-one enterprise-ready big data platform that provides cluster, job, and data management services based on open-source ecosystems, such as Hadoop, Spark, Kafka, Flink, and Storm.

Benefits



Easy-to-Use

You can quickly create clusters without the need to configure hardware and software. All maintenance operations are completed on its Web interface.



Cost-Effectiveness

You can create clusters and dynamically scale in and out the number of compute nodes based on current computing needs.



Stability

EMR provides a deeply optimized cluster environment, automated background maintenance, and multiple online support channels.



Security

EMR supports Kerberos authentication and data encryption. You can use RAM users to refine the management of service permissions.

Features

Automated Cluster Deployment and Scaling

You can quickly deploy and scale clusters via web pages deployment and scaling regardless of the underlying hardware and software.

Data Acceleration

JindoFS provides high-performance data analytics and acceleration capabilities.

Rich Components

You can choose from a comprehensive set of components based on your business needs.

Complete Ecosystem

E-MapReduce is deeply integrated with the product ecosystem of Alibaba Cloud.



Alibaba Cloud Elasticsearch

<https://www.alibabacloud.com/product/elasticsearch>

Elasticsearch is an open source, distributed, real-time search and analytics engine built on Apache Lucene and is designed for search and analytics scenarios.

Benefits



Commercial Features

Commercial features provide access control, cluster monitoring, data visualization, and machine learning.



Deployment Free

Deployment free service can be activated at any time.



Elastic Scale-Out

Elastic scale-out of clusters addresses growing business needs, without disrupting service.



Search and Analytics

Fully compatible with ELK architecture and equipped with Kibana visual interactive data search and analysis.

Features



Real-Time Data Import with ElasticFlow

Provides high-performance data import ES tools based on the powerful streaming data computing engine Flink, with concurrent performance far exceeding Logstash



Intelligent Operations with Eyou

Explores the potential risks of ES clusters based on the cluster operation and maintenance experience on the cloud, summarizes system operation and maintenance rules, and provides cluster optimization solutions for the risks



Data Security

Provides two layers of data and RBAC privilege control of the system based on VPC standalone network environment deployment, encrypted inter-node transmission, and provide HTTP access port



Compatibility with the Open-Source Community

Supports user-defined plug-ins and other native features, with 100% compatibility with all access ports and APIs of open-source Elasticsearch



Realtime Compute for Apache Flink

<https://www.alibabacloud.com/product/realtime-compute>

Realtime Compute for Apache Flink offers a highly integrated platform for real-time data processing, which optimizes the computing of Apache Flink.

Benefits

Support for Batch Processing and Stream Processing

Uses the same engine and APIs for batch processing and stream processing, which simplifies development

Ultra-High Performance

Ten times higher performance than open-source Apache Flink, and five to ten times higher than Apache Spark for some performance metrics

Cutting-Edge Technology

Resolves a wide range of issues that involve Flink, with the expertise of Apache Flink committers

Features



Ultra-High Performance

Features high throughput and scalability



Stable and Secure

Uses exactly-once semantics, achieves automatic fault recovery, and isolates resources



Easy to Use

Supports SQL, online development, and user-defined extensions (UDXs)



Powerful Functions

Offers a one-stop platform for you to handle issues involving real-time and offline data processing



DataWorks

<https://www.alibabacloud.com/product/ide>

DataWorks is a Big Data platform product that provides one-stop Big Data development, data permission management, offline job scheduling, and other features. DataWorks works straight 'out-of-the-box' without the need to worry about complex underlying cluster establishment and Operations & Management.

Benefits

Development Visualization

You can drag and drop nodes to create a workflow. You can also edit and debug your code online, and ask other developers to join you.

Multiple Task Types

Supports data integration, MaxCompute SQL, MaxCompute MR, machine learning, and shell tasks

Strong Scheduling Capability

Runs millions of tasks concurrently and supports hourly, daily, weekly, and monthly schedules

Task Monitoring and Alarms

Supports task monitoring and sends alarms when errors occur to avoid service interruptions

Features

Data Integration

Dataworks inter-connects data from different systems to achieve free offline data flow or real-time data flow.

Data Development

DataWorks data development (DataStudio, StreamStudio, HoloStudio) allows users to easily build offline data warehouses, real-time data warehouses and ad hoc analytics systems.

Connection with PAI

You can connect Dataworks to Machine Learning Platform for AI (PAI) to monitor the node status in PAI.

Data Security

Big Data Security Management leverages full-link data flow protection technology to guarantee data security in transmission.

Integrated Data Governance

Integrated data governance helps build and manage data, and derive insights and value from data.

Data Service

Data Service provides comprehensive services such as data API and service orchestration, and data sharing capabilities to enterprises.



Dataphin

<https://www.alibabacloud.com/product/dataphin>

Dataphin is a unified PaaS platform for intelligent data creation and management at exabyte scale. Dataphin applies Alibaba Group's unique and proven OneData, OneID & OneService technologies to help enterprises thrive in the new era of data intelligence.

Benefits



Data Metric Standardization

Dataphin automatically detects and eliminates contradictory metrics at scale to prevent duplications and contradictions even when hundreds of analysts are defining tens of thousands of metrics simultaneously.



Data Warehousing Development Automation

By automating code generation, Dataphin can turn data warehousing ETL work from days to minutes and machine-generated code is intelligently optimized to save computation and storage cost.



Theme-Based Data Services

Dataphin's theme-based service module allows analysts to query data from a business perspective, without the need to understand complex tables. Alibaba Cloud's in-house assessment shows that this can simplify queries by up to 80%.



Comprehensive & Automated Data Asset Management

Using auto-generated 360-degree meta data, Dataphin can automatically create a panoramic data asset map, and can reliably perform data lineage analysis all the way from application to data source.

Features



Intelligent Data Master Design



Quick Source Data Synchronization



Automatic Data Model Development



OneID-Based Entity Profiling



Quick BI

<https://www.alibabacloud.com/product/quickbi>

Quick BI is a next-generation intelligent business intelligence (BI) service platform. It enables you to perform data analytics, exploration, and reporting, and empowers enterprise users to view and explore data and make informed, data-driven decisions.

Benefits



Seamless Integration of Cloud Data

Supports multiple data sources, such as ApsaraDB for RDS, AnalyticDB, MaxCompute, MySQL, SQL Server, and local files



Quickly Builds Data Portals

Provides drag-and-drop operations, powerful data modeling, and data visualization to help you build data portals quickly



Flexible Embedding into Third-Party Systems

You can embed the Quick BI dashboard into your own third-party systems and use it to view the reports and charts directly.



Full Control of Data Access Permissions

You can set the access permissions for individual rows so that the same report is displayed differently for each user role.

Features



Data Sources

Provides a standard interface for retrieving the metadata and data of a wide range of data sources



Data Modeling

Supports OLAP modeling of data sources, and converts data sources to multi-dimensional analytics models



Dashboards

Enables you to build dashboards with visualization components



Workbooks

Allows you to perform analytics in a spreadsheet environment



Portals

Allows users to build portals with embedded links, templates, and menu structures

Alibaba Cloud
Product Catalog

Artificial Intelligence

- 126 Machine Learning Platform for AI
- 127 Image Search
- 128 Machine Translation
- 129 Intelligent Speech Interaction

Artificial Intelligence

Alibaba Cloud Artificial Intelligence technology is based on Alibaba's top algorithms, and combined with Alibaba Cloud's reliable and flexible cloud computing infrastructure and platform services, to help enterprises simplify IT frameworks, realize business value, and accelerate digital transformation. With dozens of capabilities, Alibaba Cloud AI technology is stable, easy to use, and stands out as the best choice for the development of AI applications.

Vision AI Open Service

The Visual Intelligence Open Platform is an open platform that aggregates visual capabilities in and out of Alibaba's economy. It provides standard call services and a toolset to the public with a unified specification for common vision AI capabilities. The platform helps users improve business efficiency or create new business opportunities. The platform helps users improve business efficiency or create new business opportunities, and is widely used in new retail, new media, new manufacturing, and other fields.

Text Recognition

Based on deep learning technology, it provides users with capabilities such as general printing text recognition and document structuring, which can be flexibly applied to scenarios such as personal document recognition, ticket and certificate recognition, asset document recognition, and general document recognition and collation to meet business needs such as certification, authentication, and ticket and paper auditing.

Content Security

We provide a full range of services such as image recognition, rating, and retrieval for risk control and governance based on visual analysis and deep recognition technologies. These services have been optimized in various fields and scenarios within the Alibaba economy. They can help users reduce the risk of violations such as pornography, terrorism, advertising, spam, and sensitive information, and can significantly reduce the cost of auditing by labor.

Intelligent Visual Production

Based on the deep learning framework, combined with detection and recognition technology, we provide high-precision image segmentation capability, which can achieve automatic pixel-level recognition of subjects and scenes in seconds, and high-precision image-based keying, which can be widely used in e-commerce, retail, pan-cultural entertainment, personal applications and other scenes.

Intelligent Speech

Leveraging speech recognition, speech synthesis, and other technologies, we empower products with intelligent human-machine interaction capabilities of "listen, speak, understand" for enterprises in a variety of practical application scenarios.

Voice Recognition

The word-level LC-BLSTM/DFSMN-CTC modeling drastically improves the accuracy of speech recognition.

Voice Synthesis

The synthesis effect is realistic, full, intonating, and expressive, with an industry-leading MOS score.

Voice Analysis

You can build an analysis and dialogue system for vocal interaction scenarios for with self-correcting and dialogue customization capabilities for developers.

Lingual Technologies

We are dedicated to various theories and methods to achieve effective man-machine communication in natural languages, which are widely used in customer service, information services, legal services, medical services and other fields.

Natural Language Processing

Alibaba Cloud's advanced natural semantic processing technology is widely used in e-commerce, finance, logistics, and other industries.

Semantic Understanding

We provide high-quality algorithms for scenarios such as text similarity verification and machine reading comprehension.

Machine Translation

We aim to eradicate language barriers in all scenarios for 214 languages worldwide.

Featured Solutions

EasyDispatch for Field Service Management

Improve your efficiency with an AI-powered, centralized, real-time service dispatch product incorporating Vehicle Route Planning (VRP), suitable for a range of industries, including logistics, e-commerce, professional services, telecommunications and public utilities

<https://www.alibabacloud.com/product/machine-learning>



Personalized Content Recommendation

Help media companies build a discovery service for their customers to find the most appropriate content

<https://www.alibabacloud.com/solutions/personalized-content-recommendation>





Machine Learning Platform for AI

<https://www.alibabacloud.com/product/machine-learning>

Machine Learning Platform for AI is an end-to-end platform that provides various machine learning algorithms to meet your data mining and analysis requirements.

Benefits



Visualized Web Interface



Powerful Computing Capability



Myriad Algorithms Trained from Alibaba Group Best Practices



A Complete Workflow for enterprise-level data modeling and application

Features

Data Processing

Machine Learning Platform for AI provides data preprocessing components and feature engineering components for data processing.

Data Mining and Analysis

Machine Learning Platform for AI provides statistics components, machine learning components, and network analysis components for data mining and analysis.

NLP (Natural Language Processing)

Machine Learning Platform for AI provides text processing components for NLP, including word splitting, deprecated word filtering, LDA, TF-IDF, and text summarization.

Scenarios

Product Recommendation

You can use Machine Learning Platform for AI to discover features from customers' historical shopping behavior and recommends the relative products to the customer to increase product sales.

Financial Risk Management

Machine Learning Platform for AI provides the scorecard component for you to calculate the capability of your clients to settle their credit card debt and provides risk indexes to help financial institutions manage risks effectively.

News Classification

Machine Learning Platform for AI provides a large number of text analysis components and by learning the existing document classification data, these components can automatically classify documents in a short period of time.



Image Search

<https://www.alibabacloud.com/product/imageSearch>

Image Search is an intelligent image search service that helps users find similar or identical images. The product's search function is suitable for e-commerce websites and platforms, whereas the generic search feature is ideal for enabling searches on stock photography and photo-sharing sites.

Benefits



High Accuracy

Provides industry-leading image search services with high accuracy based on advanced machine learning/deep learning



Fast Response

Responds to your user's image queries in mere milliseconds



Large Volume Support

Supports more than ten billion searchable image items



Customization

Provides feature customization flexibility to meet individual business requirements

Features

Product Image Search

Helps users find similar or identical products to their input image

Generic Image Search

Helps users find images containing content or elements similar or identical to their input image



Machine Translation

<https://www.alibabacloud.com/product/machine-translation>

Machine Translation is a customized high-quality machine translation service. Leveraging its leading natural language processing (NLP) technology and massive e-commerce data, Alibaba Translate has developed a deep neural network translation (NMT) system based on the attention mechanism.

Benefits



Easy-to-Use API

Standardized API encapsulation greatly reducing the R&D cost



Stable and Reliable

99.99% service reliability; data centers deployed worldwide, with the capacity to decode a single sentence in 100 milliseconds with a single machine



Leading Algorithm

The most advanced end-to-end deep learning framework with hundreds of millions of sentence pairs for e-commerce, and multi-lingual knowledge base of tens of millions of e-commerce entries



Solutions for Diversified E-Commerce Scenarios

Optimized for various e-commerce scenarios such as title, attribute, search, comment, and communication, with support for flexible real-time intervention

Scenarios

Product Information Translation

Translates product titles, descriptions, categories and other information to help sellers quickly develop overseas business and drive transactions

Buyer-Seller Communication

Translates instant messages between buyers and sellers to facilitate cross-border trade

Conference Speech Translation

Recognizes and translates voices of speakers in real time during conferences or live broadcast, and provide bilingual subtitles



Intelligent Speech Interaction

<https://www.alibabacloud.com/product/intelligent-speech-interaction>

Intelligent Speech Interaction is developed based on state-of-the-art technologies such as speech recognition, speech synthesis, and natural language understanding. Intelligent Speech Interaction is suitable for various scenarios, including intelligent Q&A, intelligent quality inspection, real-time subtitling for speeches, and transcription of audio recordings.

Benefits



High Recognition Accuracy

Reduces the error rate by 20%, greatly improving the accuracy of speech recognition



Ultra-High Decoding Speed

Shortens response time and improves user experience by more than three times



Novel Self-Learning Platform

Specifies hot words, and uploads customized data to build specific models for better recognition accuracy



Extensive Industry Coverage

Applied to finance, insurance, e-commerce, smart home, and many more industries

Features

Recording File Recognition

Converts audio from files uploaded by users into text within 24 hours

Real-time Speech Recognition

Converts audio streams into text in real time

Short Sentence Recognition

Converts short audio (< 1 min.) to text

Speech Synthesis

Converts text to natural speech

Alibaba Cloud
Product Catalog

Internet of Things

131 IoT Platform

132 Link IoT Edge

Internet of Things



IoT Platform

<https://www.alibabacloud.com/product/iot>

Alibaba Cloud allows you to manage a large number of devices on a single IoT Platform, providing secure and reliable communication between devices and the IoT Platform with low latency globally.

Benefits

Connectivity

Supports device access worldwide, from a variety of networks and providers that are all based on different protocols

Performance

Maintains connections for hundreds of millions of devices, allows millions of devices to communicate with the IoT Platform at the same time, and guarantees 99.9% availability

Security

Device authentication ensures the security and uniqueness of each device, and encrypted communication makes sure your data is not tampered with during transfer.

Compatibility

Provides end-to-end device management that allows you to monitor devices in real time and build applications by integrating other Alibaba Cloud services based on the rule engine

Features

Accelerated Cloud Migration for Devices

Reduces the development lifecycle of cloud migration for devices significantly

Enterprise-Level Device Management Tools

Provides one-stop device and data management

Multiple Remote O&M Tools at Low Costs

Reduces the manual O&M costs of shipping equipment



Link IoT Edge

<https://www.alibabacloud.com/product/linkiotedge>

Link IoT Edge allows you to use Thing Specification Language (TSL) to convert devices of various protocols and data formats into standard TSL models. Link IoT Edge provides secure reliable low-latency cost-effective scalable weak-dependency local computing services.

Benefits

Compatible with 1000+ Devices

Link IoT Edge allows devices to use ecological drivers for quick migration to the cloud after debugging, and supports multi-programming-language development frameworks.

A Reliability Assurance of 99.9%

The cloud management service has a service availability of 99.9%, and provides several capabilities including network disconnection, hot active standby, and edge clusters to address different failure modes.

1/10 of the Costs of Traditional Schemes

By providing a full range of secondary development tools and a large variety of tailored solutions, Link IoT Edge reduces the long-term costs of IoT systems.

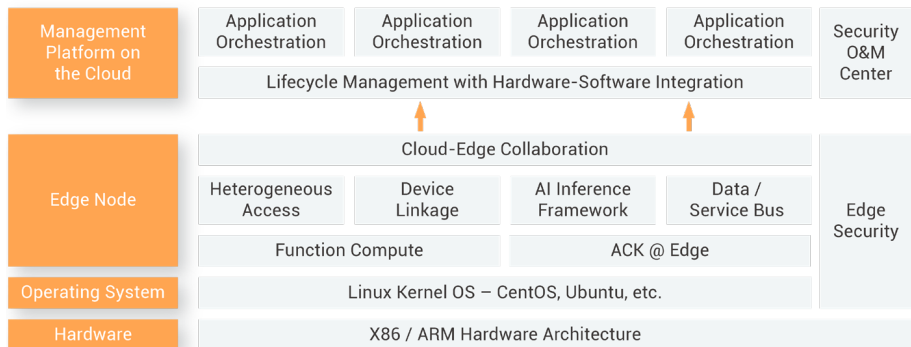
Compatibility

Provides end-to-end device management that allows you to monitor devices in real time and build applications by integrating other Alibaba Cloud services based on the rule engine.



Features

Cloud-Edge Collaborative Service System

Based on cloud-native technology, we built a service system with management on the cloud and execution on the edge to achieve differentiated operations, heterogeneous access, scenario-based construction, and one-stop management.





Data High Availability



High-Availability Middleware High-Availability Middleware

Data High Availability





High-Availability Middleware High-Availability Middleware

Cloud-Edge Integrated Security




A security control system designed for distributed edge services

Full-Link IoT Security



High-Availability Middleware High-Availability Middleware

Operation Security on the Cloud





Risk Prediction on the Cloud Identity Management on the Cloud Remote Upgrade on the Cloud

Comprehensive Situation Awareness



Identity, Information, Virus, and Transmission Vulnerability Awareness

Security and Compliance



Edge Node Management Cloud-Edge Integration Guarantee

Enterprise Application

- 135 DingTalk
- 136 Alibaba Mail
- 137 Domain Name Service
- 138 RPA
- 139 GoChina ICP Filing Assistant
- 140 Direct Mail
- 141 CloudQuotation
- 142 ZOLOZ Real ID
- 143 ZOLOZ Smart AML
- 144 mPaaS
- 145 Blockchain as a Service
- 146 Short Message Service

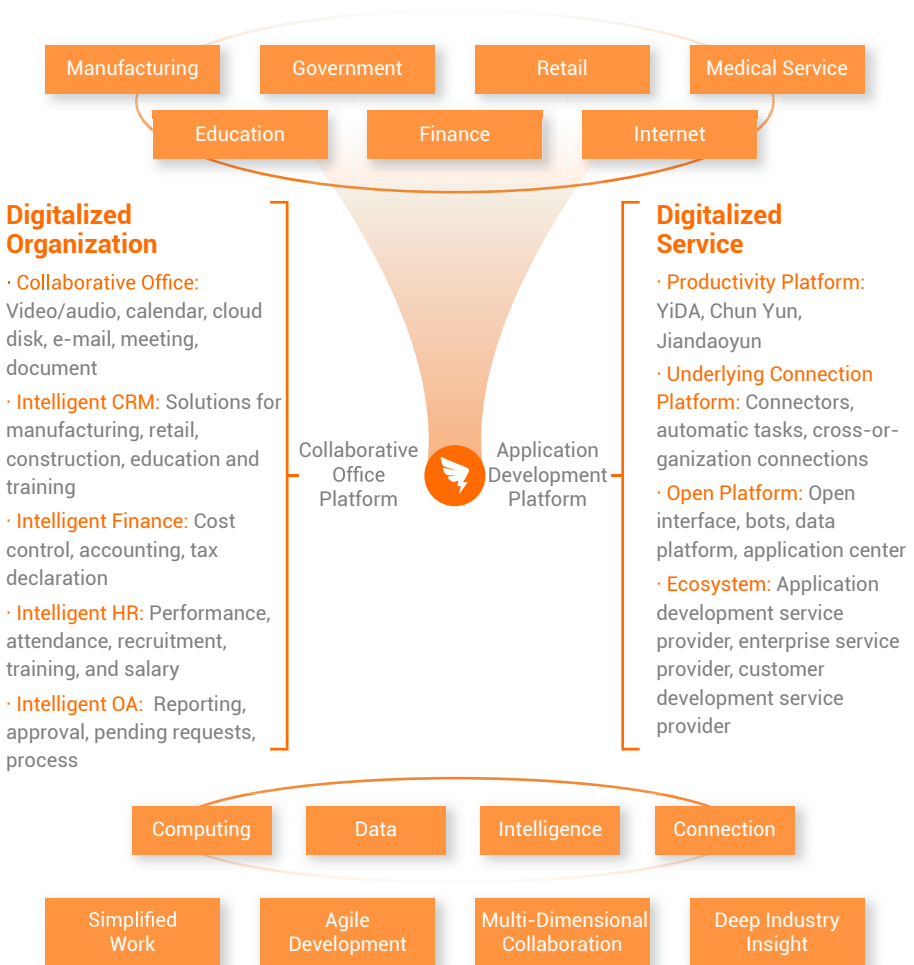


DingTalk

<https://www.alibabacloud.com/solutions/dingtalk/dedicated-dingtalk>

DingTalk is an intelligent mobile office platform for global organizations. It is currently used by 500 million users in 190 million organizations.

Benefits





Alibaba Mail

<https://www.alibabacloud.com/product/alibaba-mail>

Alibaba Email Service is a SaaS service built on the Alibaba Cloud platform, as a professional email service provider (ESP), providing enterprise clients with secure, stable, efficient and open email services.

Benefits

Stable and Secure

Built on Alibaba Cloud Apsara System, the service provides multiple layers of protection and comprehensive monitoring capability to reinforce your email security.

Open to Integration

The service offers multiple open APIs and supports Single Sign-On (SSO), user data synchronization across multiple terminals, and Active Directory authentication to meet integration requirements.

Collaborative

Calendars and schedules can be synchronized across all terminals. Advanced features such as meeting room management and schedule checking is also integrated to enhance collaborations.

Professional

Provides rich email functions, powerful transmission rules, cost-effective online archiving services, multi-site data center, cross-border delivery link, and professional services.

Features



Payment by Number of Accounts



Storage Options between 100GB/1TB Mailbox Storage Per User and 5GB/10GB Personal File Storage



7/24 Services



Up to 2 GB Large Attachment



Web Client Access, Outlook Client Access, and others



Protection by Alibaba Mail Anti-Malware and Anti-Spam Gateway



Domain Name Service

<https://www.alibabacloud.com/domain>

Domains is a platform that provides domain name registration and management services. Alibaba cloud domain name service helps you register .com, .cn and other top-level domain names, the registration volume holds the No.1 record in Asia.

Benefits



No.1 Market Share

Asia's No. 1 domain name registrar, 22 years of consistent high-quality domain name services

Source: ICANN Monthly Registry Reports, Q2 2021



Simple Operations with High Security

Intelligent query, fast registration, and easy management through a powerful self-help domain name platform, self-checking service, and renewal reminder



High Cost-Efficiency

Rich domain name choices at low costs based on platform scale and constantly improving services, with multiple services for your selection

Features



Top Domain Name Registrations



Registrar Protection on Domain Registration Data



Domain Transfer



Domain Name Renewal



Secure Domain Resolution

WHOIS Search

You can use WHOIS to view current information regarding: domain name status, registration date, expiry date and DNS server information



RPA

<https://www.alibabacloud.com/product/rpa>

Robotic Process Automation (RPA) allows you to automate repetitive tasks. It also allows you to integrate business rules and decisions into processes, which will increase the productivity of employees.

Benefits

Significant Cost Reduction

RPA robots reduce processing costs by up to 80%. Most enterprises can obtain positive ROI in 12 months. The accumulated cost can be reduced by up to 20%.

100% Accuracy

RPA robots strictly conform to preset procedures and operation specifications to ensure work accuracy.

Smooth Integration

RPA robots can improve your system performance with no need to change the system architecture. Daily operations and existing features of the IT system will not be affected.

Features

Warehousing and Logistics

Batch order commenting, order management, piece-based billing, order quantity prediction, and stock-keeping unit (SKU) management

E-Commerce

E-commerce reconciliation, order sorting, address modification, inventory entry, intelligent response, and advertisement review

O&M Testing

Performance monitoring, capacity monitoring, alerting, automatic O&M shutdown, log clearing, testing, and upgrades

Data & Document Processing

Table merging, report sorting, automatic calculation, report generation, table splitting, data cleansing, logic analysis, predictive analysis, machine learning, data integration, and data mining

Message Management

Automatic detection of information, automatic reply, new message reminder, abnormal alarm, and intelligent response



GoChina ICP Filing Assistant

<https://www.alibabacloud.com/product/icp-filing>

GoChina ICP Filing Assistant is a service that provides ICP filing consultation and delivery for enterprises outside mainland China.

Benefits



Assistance Throughout the Filing Process

One-on-one service throughout the filing process with one assistant managing multiple products for your diverse needs



Qualification Assessment to Minimize Risks

Documents preparation support according to your needs to avoid risks of violation



Full-Process Filing Operations

Filing operations on behalf of your company throughout the whole process with upstream/downstream content consistency



Fast Preliminary Examination and High Success Rate

Review by professional teams with high-priority preliminary examination channels and professional planning, ensuring higher success rates and security



Associated Qualification Consulting or Operations

Full-process services including company registration, domain name registration, filing operations, and business qualification operations

Features

End-to-End Solution

- One-on-One Expert Service
- ICP Filing Delivery
- Qualification Compliance Assessment

Company Registration Consultation

- Process Q&A
- Delivery Progress Follow-Up
- Efficient Completion of Required Paperwork

Domain Name Consultation

- Registration and Ownership Transfer
- Transfer-In and Transfer-Out Assistance
- Real-Name Verification

Qualification Assessment

- Operations Compliance
- Qualification Document Compliance
- Qualification Compliance

Assistance in ICP Filing Application

- Support from Experts
- Reduced Learning Costs
- Improved Pass Rate



Direct Mail

<https://www.alibabacloud.com/product/directmail>

Direct Mail is a simple and efficient service to send email notifications and batch emails quickly and efficiently without the need to build your own email server.

Benefits

Stable and Scalable

Outbound mail redundancy is stored on multiple servers and databases to provide stability and scalability.

Fast and Accurate

Direct Mail ensures high concurrency mail processing and reliable and fast delivery. You can control your mailing frequency with strategic mailing functionality.

Multiple Mail Types

Direct Mail supports triggered mail such as registration confirmation, order confirmation, and notifications, and batch mail.

Highly Cost-Effective

You can use it Pay-As-You-Go without any minimum usage fees.

Features

Multiple Email Delivery Methods

Direct Mail supports administration console, API interface, or SMTP interface for email sending.

Multidimensional Statistics

Direct Mail provides a wide range of statistics such as the number of mailing requests, successfully sent emails, failed emails, invalid addresses, and open and click rates.

Add-On Mailing Services

Direct Mail supports email address lists, a variety of email templates, and a mail queuing and scheduling mechanism to efficiently deliver mails and ensure successful delivery.



CloudQuotation

<https://www.alibabacloud.com/product/cloudquotation>

CloudQuotation is a quotation service that establishes stable, high-quality connections to mainstream exchanges such as Nasdaq and HKEX with ultra-low latency.

Benefits



Real-Time Quotations

CloudQuotation provides enterprises of all sizes with tens of millions of market quotes per second with low latency and high elasticity. CloudQuotation can compute and process more than 1.5 billion index data records per second.



Out-of-the-Box Solution

CloudQuotation provides you with an innovative plug-and-play solution that not only lowers the technical threshold to consolidate market quotes, but also saves significant time and costs using these services.



High Stability Across the Globe

CloudQuotation is a highly robust service based on our expanding network across 80 availability zones in 25 regions and delivers a strong data recovery service thanks to our Global Disaster Recovery Network System.



High Scalability and Flexibility

Using our Pay-As-You-Go payment model, you can report your usage and be billed monthly based on the number of reported users. It's also easy to downgrade and upgrade your data subscription from the Alibaba Cloud Console.



Cost Efficiency

CloudQuotation is a complete market data service with near-zero up-front investment required. It delivers a lower TCO, replacing global connection fees with a cost-effective O&M charge and no vendor management fees.



ZOLOZ Real ID

<https://www.alibabacloud.com/product/ZOLOZ>

ZOLOZ Real ID is a digital and remote online solution for eKYC (Electronic Know Your Customer).

Benefits

Up to **99%**

Stable recognition confidence

100% AI Technology

Verification without human intervention

Up to **90%**

Reduces manual data checks

3 Minutes

Complete an application in no time

10 Seconds

Swift approval

Features

Security & Compliance

ZOLOZ Real ID adheres to the international information security standards: ISO27001 and PCI-DSS.

The liveness technology meets the ISO-30107-3 level 2 standard.

Reduce Identity Fraud

Comprehensive ID document security check, rich AI model, and risk engine can identify frauds automatically.

Approval Alerts

Provides customer service representatives with the necessary information to approve or reject applications as needed.

Multiple Service Accesses

ZOLOZ Real ID provides SDK, API, and mobile H5 access solutions to solve business needs for fast integration.



ZOLOZ Smart AML

<https://www.alibabacloud.com/product/smart-aml>

ZOLOZ Smart AML is a comprehensive, Intelligent Detecting, Big Data-driven Anti Money Laundering (AML Solution to help you keep pace with the legislative and regulatory changes on AML.

Advantages

Recognized Solution
 Regulatory checks in the United States, Mainland China, Hong Kong, Macau, Malaysia, Vietnam, and Europe for years. Awarded by PBOC and HKMA based on AML intelligence solution

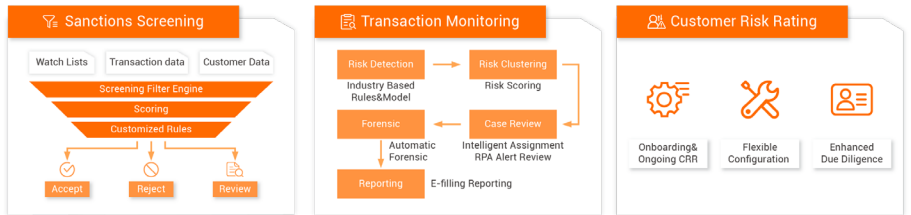
Explainable Measures
 Certificated by PwC and SWIFT, and copies could be provided for you for regulation audit usage. Configurable and sand box simulation support from workflow to algorithm

Accurate Algorithm
 Supports 14+ languages and unstructured information screening. Lowers false positive matches by 40% compared to top vendors in the market

High Performance
 Increases screening performance by 80% compared to common vendors in the market. Real-time screening of 10,000-level list only takes 10ms, million-level list takes 30ms.

Key Functions

ZOLOZ Smart AML provides standard and customized solutions via SaaS and on-premise deployment base on your needs.





mPaaS

<https://www.alibabacloud.com/product/mpaas>

mPaaS (Mobile PaaS) is a mobile development platform, providing a cloud-to-end one-stop solution for mobile development, testing, maintenance, and operation.

Benefits



High Stability

Each business module is containerized to minimize performance problems, such as white screen errors and loading failures.



Optimized Performance

All mPaaS components apply to scenarios that require high concurrency and traffic. mPaaS is an optimal solution that is compatible with complex clients. It helps apps run in weak network conditions and keeps processes alive.



Futuristic Technologies

Futuristic technologies based on Alipay are developed on mPaaS. For example, hotfixes help you fix errors in native code without releasing new versions of apps.



Message Push

Integrated with multiple cell phones, mPaaS allows you to customize message delivery settings, interact with app users, and obtain higher retention rates.



Security Armor

mPaaS provides stable, convenient, and effective security solutions for mobile applications to prevent reverse engineering.



Blockchain as a Service

<https://www.alibabacloud.com/product/baas>

Blockchain as a Service (BaaS) is an enterprise-level platform service based on leading blockchain technologies. This service helps you build a secure and stable blockchain environment, save the costs of operations and maintenance, and facilitate business development. BaaS supports Hyperledger Fabric, Ant Blockchain technologies, and Quorum.

Features



Quick Deployment

Supports quick deployment of blockchains for enterprises without concerns of complex configuration. BaaS provides out-of-the-box services



Consortium Management

Allows you to create consortia, invite and approve the participant that is involved in the business to join the consortium, and manage the business



Organization Management

Allows you to easily manage the enterprises that are in the business consortium, manage the users in the organization, and grant business application access to the blockchain service



Chaincode Management

Allows you to manage the smart contracts (chaincode) in the organization and the business, including the period of overwriting installation, creating instances, and updating



Security Service

Provides CA certificate service and supports cryptographic algorithms recommended by China's authorities and SGX security protection, and creates a multi-dimensional blockchain security system



Application Access

Provides standard Fabric SDKs, ant blockchain SDKs, built-in connection information, and certificates to accelerate development



Permission Management

Provides a graphical management of organizations and users, and supports RAM users and sub-accounts and enterprise-ready management and monitoring



Monitoring

Supports blockchain explorer and integration with CloudMonitor to monitor the blockchain state in real time and give automatic alerts



Short Message Service

<https://www.alibabacloud.com/product/short-message-service>

Alibaba Cloud SMS is a messaging service that allows enterprise users to better engage their customers through short messages. You can send promotion, notification and verification messages to mobile phones in over 200 countries and regions worldwide.

Benefits



Intelligent Scheduling

Selects the best route in real-time based on its throughput and delivery success rates to ensure that messages can be sent on time



Controllable Message Sending

Allows you to limit the total number of messages sent to multiple customers and number of messages sent to a single customer to minimize unexpected resource consumption and avoid unnecessary disturbances



Secure API Calls

Provides authentication based on your Alibaba Cloud account and Resource Access Management (RAM) users to ensure that only you can call API operations to manage your resources

Features



High Concurrency



Intelligent Sending based on Quality of Service (QoS)



Message Analysis



Diversified Message Content Formats



Long Messages (More than 160 Bytes)



Allocated Sender IDs



Simple Integration Free of O&M



Asynchronous Notifications

Alibaba Cloud
Product Catalog

Media Services

150 ApsaraVideo Live

151 ApsaraVideo VOD


152 ApsaraVideo Media Processing


Media Services

Alibaba Cloud Media Services provide stable and reliable IT infrastructure for video applications with intelligent, low-latency, flexible, and easy-to-use product features. Based on the high-speed content distribution global network, region-wide coverage of edge computing services, and years of accumulation in video decoding and video AI, we provide a complete product matrix comprising live video, video on demand (VOD), media processing, and other technologies, to empower video production, upload, transcoding, management, distribution, and playback throughout the entire media lifecycle.


Why Alibaba Cloud

 2800+ nodes deployed globally to accelerate content distribution

 Video products covering multiple scenarios such as interactive livestreaming, video conferencing, and online education

 Video encoding and decoding technologies such as narrowband HD, video optimization, and super resolution.

 A one-stop solution for end-to-end services

 Video AI capabilities such as multi-modal content comprehension and video DNA

 Mature technologies such as encrypted playback and secure download, and access control mechanism of cloud-device integration

Industry Applications

- Livestreaming Platform
- Video Website
- Short-Form Video Platform
- Online Education
- OTT

VPaaS Services

- Livestreaming
- VOD
- Media Processing

Featured Solutions

Narrowband HD Transcoding

Reduce the bandwidth costs of your high definition media service by up to 30%
<https://www.alibabacloud.com/solutions/media/narrowband-hd-transcoding>



Livestreaming for E-Commerce

Set up an all-in-one live shopping platform quickly and simply and bring the in-person shopping experience to online audiences through a fast and reliable global network

<https://www.alibabacloud.com/solutions/multimedia/livestreaming-ecommerce>



Real-Time Livestreaming for Sports and Events

Stream sports and events on the Internet smoothly to worldwide audiences concurrently

<https://www.alibabacloud.com/solutions/multimedia/livestreaming>





ApsaraVideo Live

<https://www.alibabacloud.com/product/apsaravideo-for-live>

ApsaraVideo Live is a live streaming platform for both audio and video based on leading content hosting and delivery networks and large-scale distributed real-time transcoding technology. ApsaraVideo Live provides high-definition and uninterrupted live audio and video services that are convenient and accessible, with low latency and high concurrency.

Benefits

Multi-Client Support

Supports multiple platforms, multi-client video recording and playback SDKs

Industries

Offers mature industry-tailored solutions to cover most live video application scenarios

Low latency delivery

Supports low-latency protocols such as LL-HLS and Real Time Streaming with latency in the client side reduced to 1 to 2 seconds

Security Management

Features multiple security approaches including URL encryption, video encryption, and commercial DRM

Scenarios

Cultural and Entertainment Interaction

Provides cost-effective video transcoding and worldwide distribution services for cultural and entertainment broadcast industries

Online Education

Deploys online education interaction websites on Alibaba Cloud to facilitate online evaluations, online exams, and online interactions between teachers and students

E-Commerce Shopping

Exhibits product information in an all-around way, in a bid to influence user decision-making and strike deals

Financial Live Video

Provides robust security services and global live video services for financial cloud products and services tailored to enterprises

Professional Livestreaming

Helps new media users to rapidly build a professional broadcast platform for news, sports, and variety shows



ApsaraVideo VOD

<https://www.alibabacloud.com/product/apsaravideo-for-vod>

ApsaraVideo VOD is an all-in-one solution for on-demand audio and video streaming. You can collect, edit, and upload audio and video files to ApsaraVideo VOD and enable automatic transcoding.

Benefits



Content Protection

Supports multiple video protection functions, including anti-leeching, playback authentication, and video encryption



Stable and Smooth Playback Service

Provides a bandwidth of 150 Tbps to deliver high-quality video playback services based on more than 2,800 Alibaba Cloud CDN nodes



Multiple Functions

Provides multiple easy to use functions, including content auditing, high-performance transcoding, media management, and content production

Scenarios

Online Videos

Helps enterprises to quickly build secure and reliable VOD applications for high-quality video playback

Short Videos

Helps you to build short video functions such as video recording and effect editing on mobile phones

Online Education

Enables users to quickly play videos online based on a complete cloud-to-client video encryption scheme to ensure the security of video playback and distribution

OTT Platform

Includes complete steps such as video production, storage, processing, management, distribution, and playback for the over-the-top (OTT) platform



ApsaraVideo Media Processing

<https://www.alibabacloud.com/product/mts>

Alibaba Cloud Media Processing is a cloud service for transcoding multimedia data into various output resolutions, bit rates, and formats for unhindered playback.

Benefits

Ultra-Speed Transcoding

Features multi-region deployment and dynamic on-demand scaling, and handles high-concurrency scenarios easily and ensures efficient transcoding

Digital Restoration Service

Features the latest human visual system models and breaks average transcoding limits, and supports restoration of corrupted video files

NarrowBand HD

Helps you to save up to 30% traffic costs with NarrowBand HD and high efficiency video coding (HEVC) technology

Feature-Rich, Highly Customizable

Provides video transcoding, snapshots, watermarks, video editing, splicing capabilities with highly-scalable and customizable templates

Scenarios

Video Websites

Provides a VOD service for business scenarios and help customers to build secure and highly-customizable on-demand streaming platforms and applications

Online Education

Includes multiple rich video features to ensure the best viewing experience, and enable teachers to share course videos and manage educational resources in one platform

Television Media

Offers efficient encoding services to meet the technological requirements of traditional radio, video and television formats, and improve video quality

E-Commerce Videos

Provides VOD and livestreaming services for product description videos, new product launches, video shopping guides, and auctions

Game Videos

Helps users build a complete release platform for game videos and offer complete video services to game portals

Alibaba Cloud
Product Catalog

Hybrid Cloud

156 Alibaba Cloud Apsara Stack

157 Apsara Stack Agility Elastic Compute
Service (Alibaba Cloud ZStack)

| Hybrid Cloud

Alibaba Cloud helps you smoothly evolve your architecture to a hybrid cloud. Our hybrid cloud solution lets you ensure business continuity through capabilities such as application elastic scaling, disaster recovery, data backup, and hot upgrade. It shortens your time to market so you can quickly meet the needs of your customers, enhance user experience, and accelerate your business success. Additionally, Alibaba Cloud Hybrid Cloud improves operational efficiency and reduces costs by using centralized management for troubleshooting, system expansion, application deployment across multiple clouds, and DevOps functionalities. With our hybrid cloud solution, you can rest assured that your infrastructure complies with the strictest security and compliance requirements, locally and globally.

Why Alibaba Cloud



Supreme Elasticity with Full-Stack Capabilities

Alibaba Cloud Hybrid Cloud gives you supreme elasticity with over 80 full-stack product portfolios and over 10,000 servers in a single region. You can easily scale up/down and out/in as needed.



World-Leading Security Capability

Alibaba Cloud provides a suite of security elements covering servers, applications, data, and network layers, etc. to achieve world-leading security capability.



High Reliability and Stability

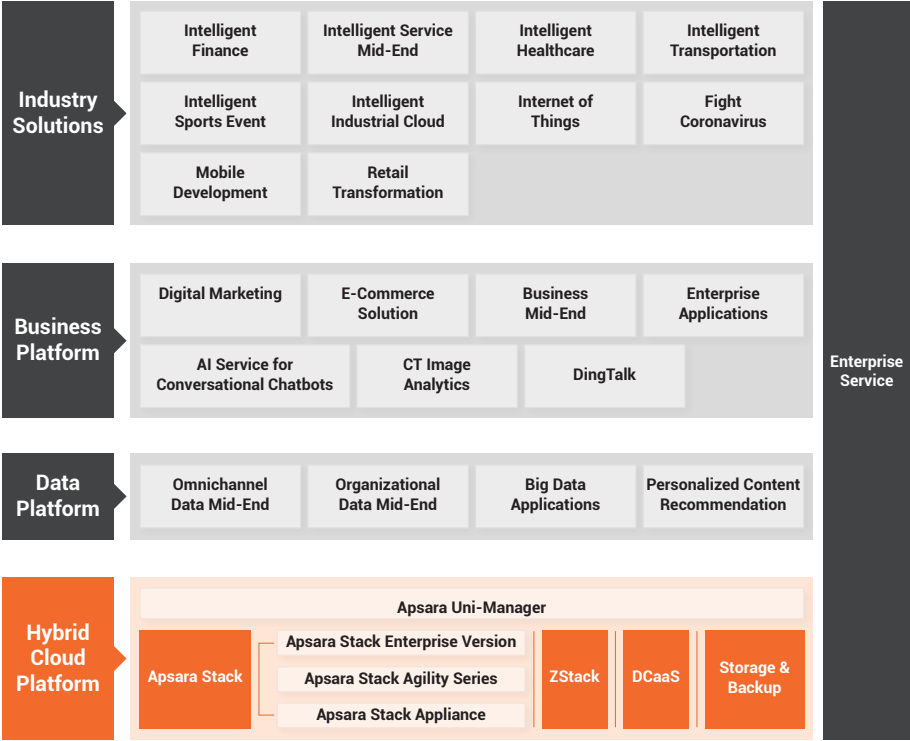
Inherited from Alibaba Cloud public cloud, Alibaba Cloud Hybrid Cloud ensures enterprise-level reliability and stability. In addition, it provides you with cross-geography disaster recovery and hot upgrade capabilities to take this to the next level.



Open-Source Support

Alibaba Cloud Hybrid Cloud fully supports open-source engines and compatibilities from multiple-brand hardware.

Alibaba Cloud Hybrid Cloud, Unleash the Power of Data Intelligence





Alibaba Cloud Apsara Stack

<https://www.alibabacloud.com/product/apsarastack>

Apsara Stack is a stable, secure, open, and intelligent solution that provides industry customers, such as public service sectors, enterprises, and carriers, with a consistent cloud service experience and powerful cloud computing technologies. It is developed based on the same distributed architecture as Alibaba Cloud public cloud.

Benefits

World-Leading Architecture

Apsara Stack uses the same architecture as Alibaba Cloud public cloud and is recognized as top hybrid cloud provider by Gartner, IDC, and Forrester in both north America and China.

Scalability and Stability

Apsara Stack saves your CAPEX with less servers needed, supports up to 10,000+ servers in one single region, and can be scaled in/out and up/down smoothly.

Openness

Apsara Stack provides standard-compatible development APIs and is compatible with hardware from mainstream brands.

Security & Stability

Apsara Stack provides a financial-grade disaster recovery solution and other customized disaster recovery modes together with world leading security capabilities.

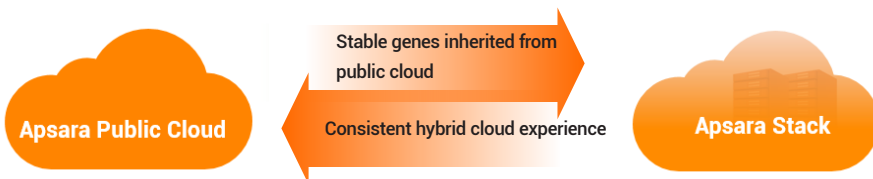
Intelligence

Apsara Stack provides mature AI algorithms for intelligent resource scheduling to reduce OpEx.

Easy Deployment and O&M

Apsara Stack allows automatic deployment and integrates monitoring, management, and control capabilities for automated O&M.

Apsara Stack: The mature and commercial native hybrid cloud



Apsara system is verified by 11 years of practice



Apsara Stack Agility Elastic Compute Service (Alibaba Cloud ZStack)

<https://www.alibabacloud.com/product/zstack>

Apsara Stack Agility Elastic Compute Service (Alibaba Cloud ZStack) is a light-weight hybrid cloud solution which can be easily deployed to manage hardware in data centers, servers on the edge, and hybrid cloud environments across on-premises and Alibaba Cloud resources.

Benefits



Outstanding Performance

Alibaba Cloud ZStack can process 10,000+ concurrent API requests per second, and create 100+ VM instances in minutes.



Cost Efficient

Alibaba Cloud ZStack increases the utilization of server resources and can save up to 90% in total costs.



Automated O&M

Alibaba Cloud ZStack provides rich Restful APIs and SQL-like query APIs for common queries with millions of combined conditions.



Stability and Reliability

Alibaba Cloud ZStack provides high availability for VM instances and management nodes, ensuring your business continuity.



Easy Deployment

You can easily install and set up a cloud platform in just 30 minutes, and enable a one-click smooth upgrade in 5 minutes.



Secure and Controllable

Alibaba Cloud ZStack supports L2 VLAN/VXLAN isolation, three levels of permission management (admin-level, account-level and user-level), and resource isolation.

Scenarios



Network Interconnection



One-Click Cloud Migration



Disaster Recovery



Security and Protection



Unified Hybrid Cloud Management



Public Cloud Value-Added Services

Conclusion

Alibaba Cloud offers a complete range of cloud services to customers worldwide, including elastic computing, databases, networking, security management, application services, big data analytics, machine learning, and IoT services to support virtually any workload. With Alibaba Cloud, users have access to highly durable storage, efficient computing, high-performance databases, intelligent analytical tools, and more. Users can access all this without any up-front cost by only paying for what they use. These services help enterprises move faster, lower IT costs, and scale.

If you have any queries about getting started with Alibaba Cloud or specific questions about our products and services, please reach out to your nearest Alibaba Cloud representative. We are more than happy to be of assistance to you.

For more information, please visit

www.alibabacloud.com



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 Alibaba Cloud