



Diving into Huawei Cloud



www.huaweicloud.com



Foreword

- This chapter covers the basic concepts of cloud computing and then provides an in-depth introduction to Huawei Cloud.



Objectives

- Upon completion of this lesson, you will learn about:
 - Basic concepts of cloud
 - Advantages of cloud
 - Infrastructure of Huawei Cloud
 - Ecosystem policies of Huawei Cloud
 - Log in to Huawei Cloud



Contents

- 1. Basic Concepts and Values of Cloud Computing**
2. Huawei Cloud Infrastructure Architecture
3. Core Services on Huawei Cloud
4. Huawei Cloud Ecosystem
5. Log in to Huawei Cloud

ICT Developments



PCs



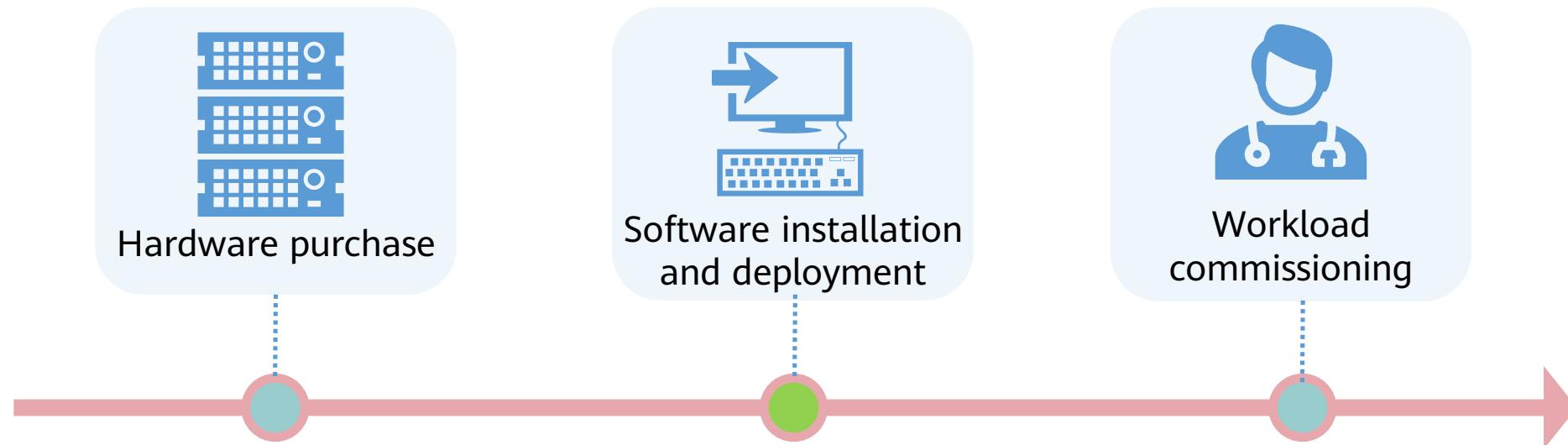
Mobile Internet



Cloud

Headaches Caused by Traditional IT Infrastructure

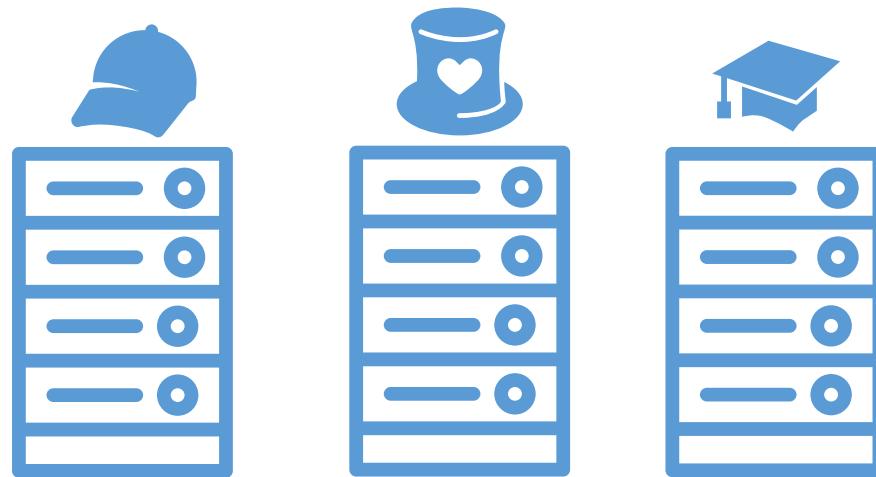
Slow service rollout



Requires weeks or even months

Headaches Caused by Traditional IT Infrastructure

Low resource utilization and high TCO

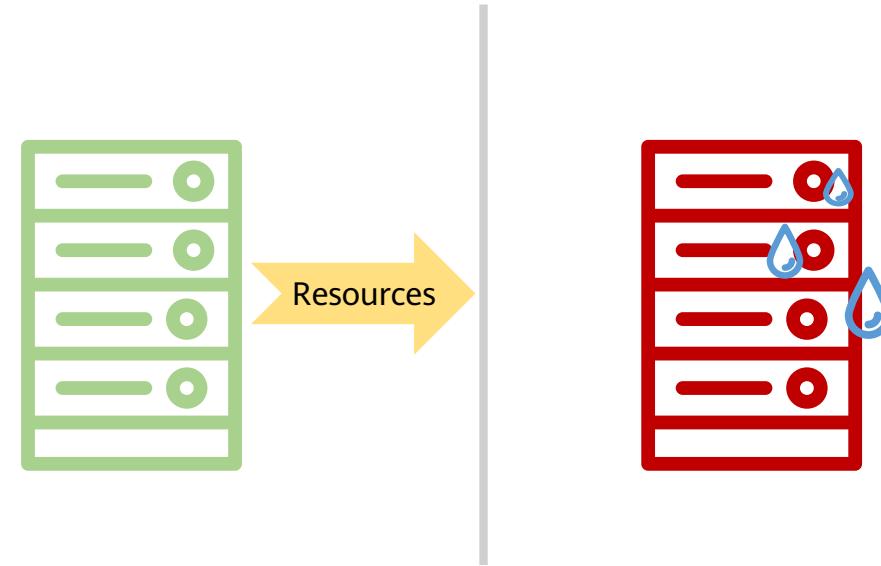


SAP servers

Oracle servers

Web servers

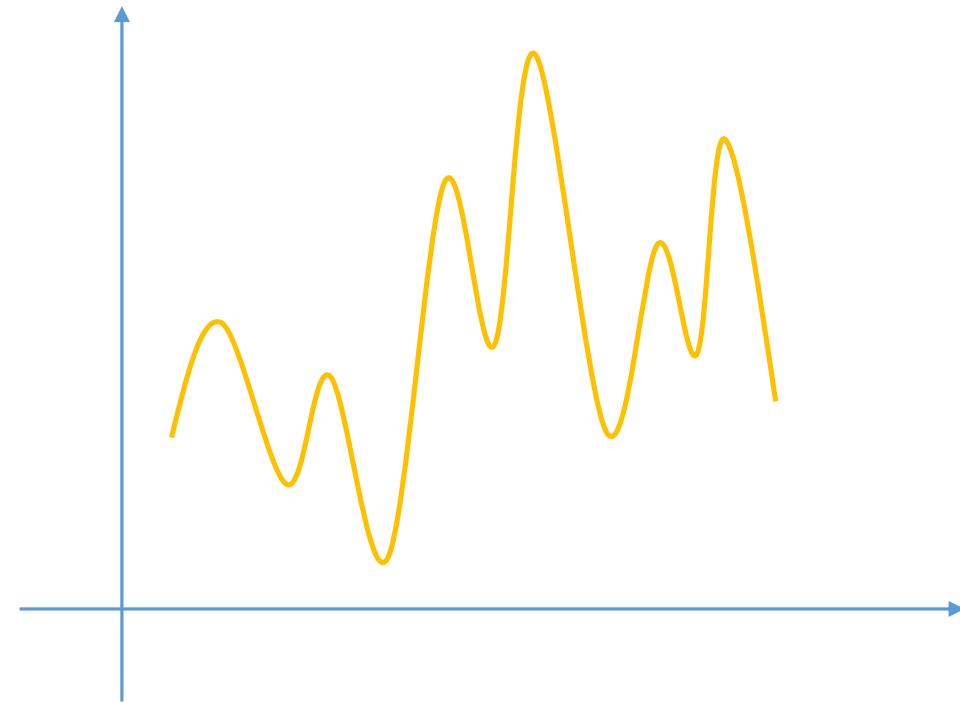
Hardware resources are used by specific service software, meaning tight hardware-software coupling.



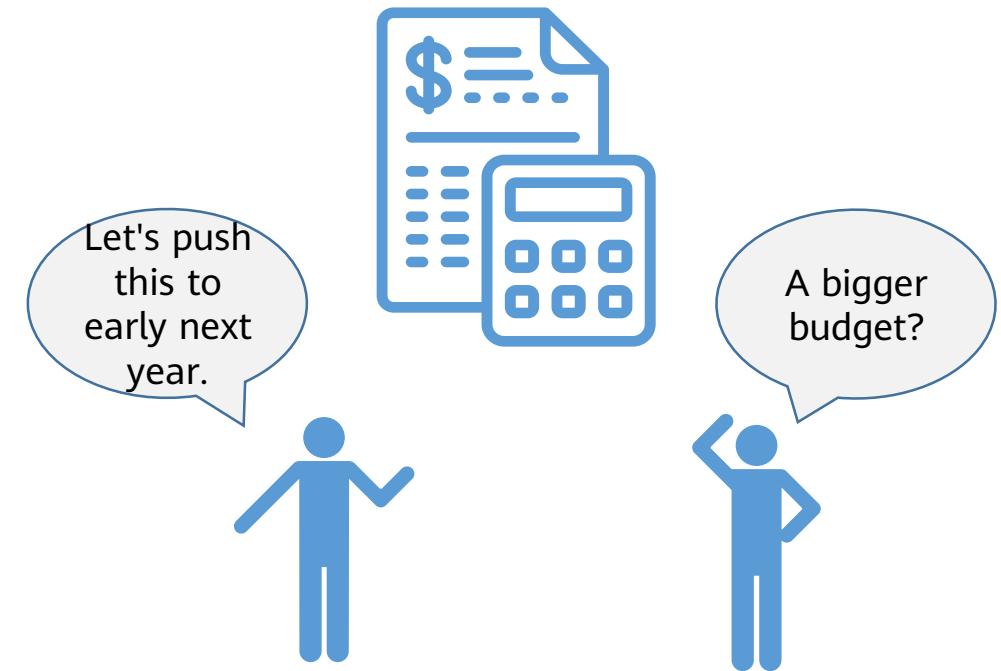
Inflexible resource allocation

Headaches Caused by Traditional IT Infrastructure

Complex scaling

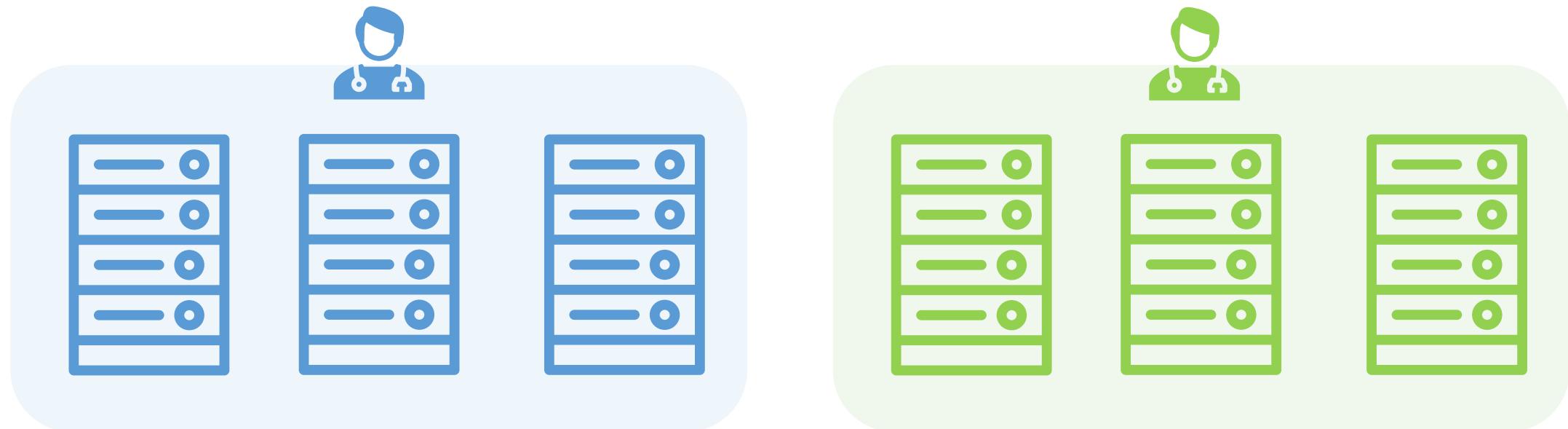


Unpredictable business changes

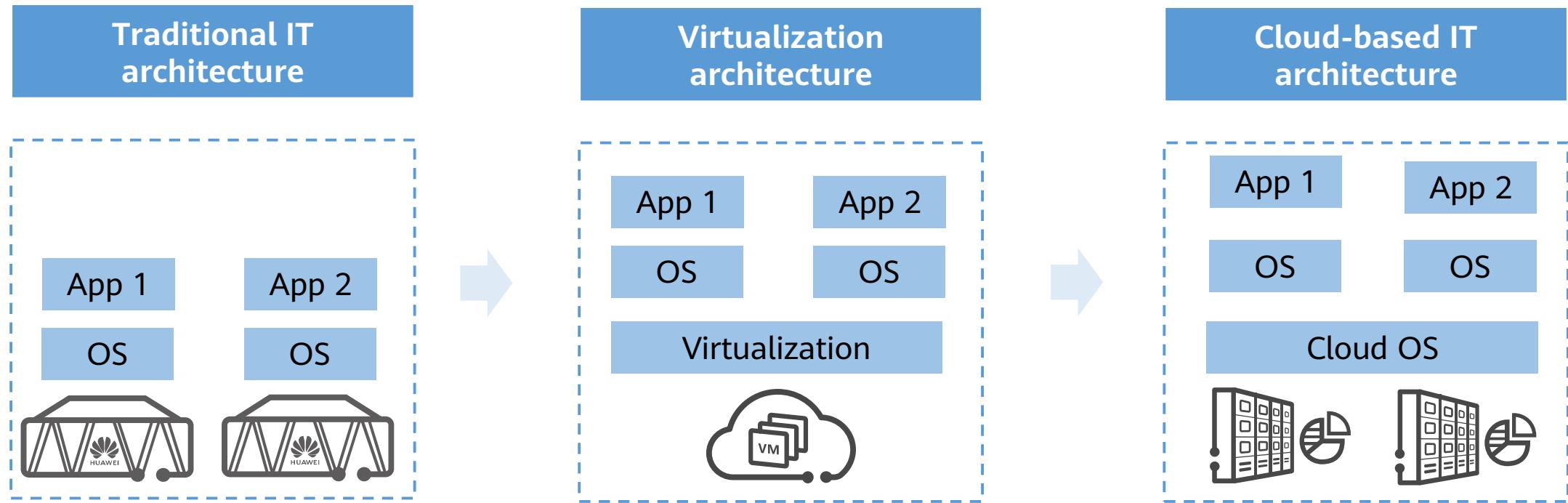


Headaches Caused by Traditional IT Infrastructure

Challenging O&M due to geographically dispersed infrastructure and time-consuming service recovery



Moving IT Architecture to the Cloud



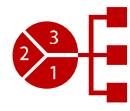
What Is Cloud Computing?

① Over the Internet, application programming interfaces (APIs)
② are used to obtain and schedule resources, making them
③ available to users on an "as needed" basis. Users only pay for
④ the resources they use.

Values of Cloud Computing



Less investment in fixed assets



Abundant resources



Quick resource acquisition



New O&M methods



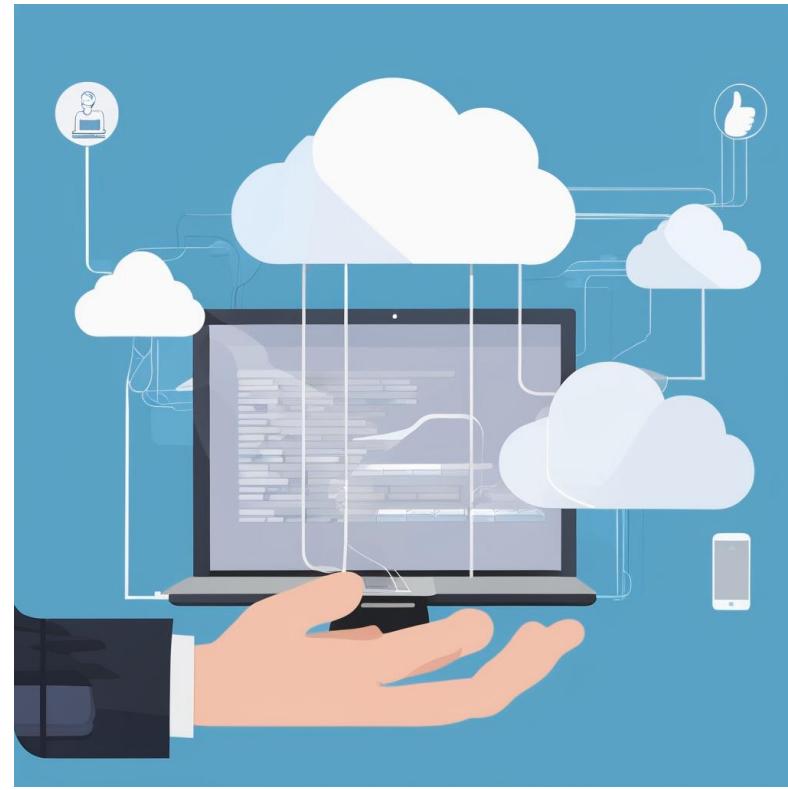
No guessing of required capacity



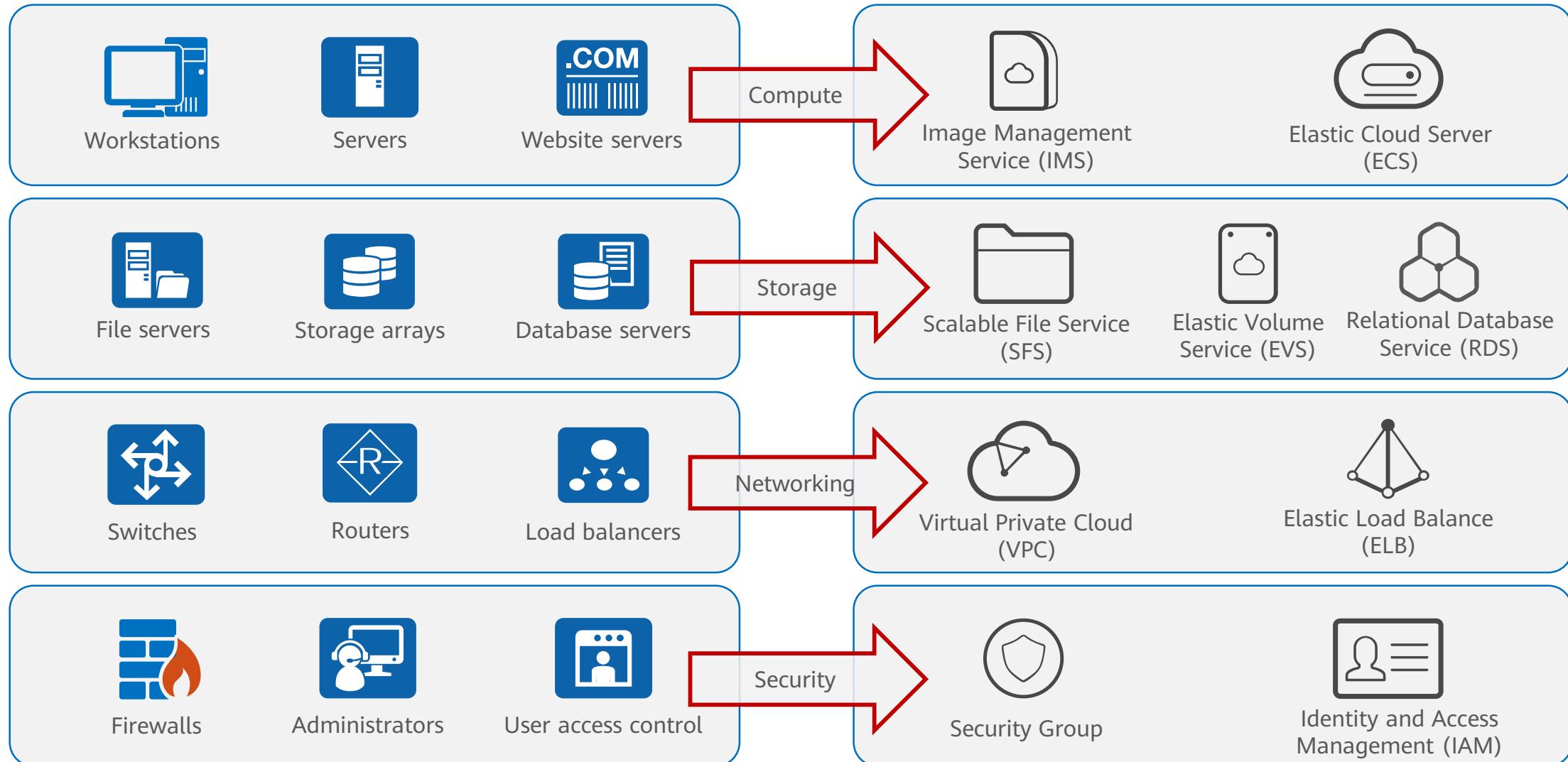
Operations across
geographical locations

What Are Cloud Services?

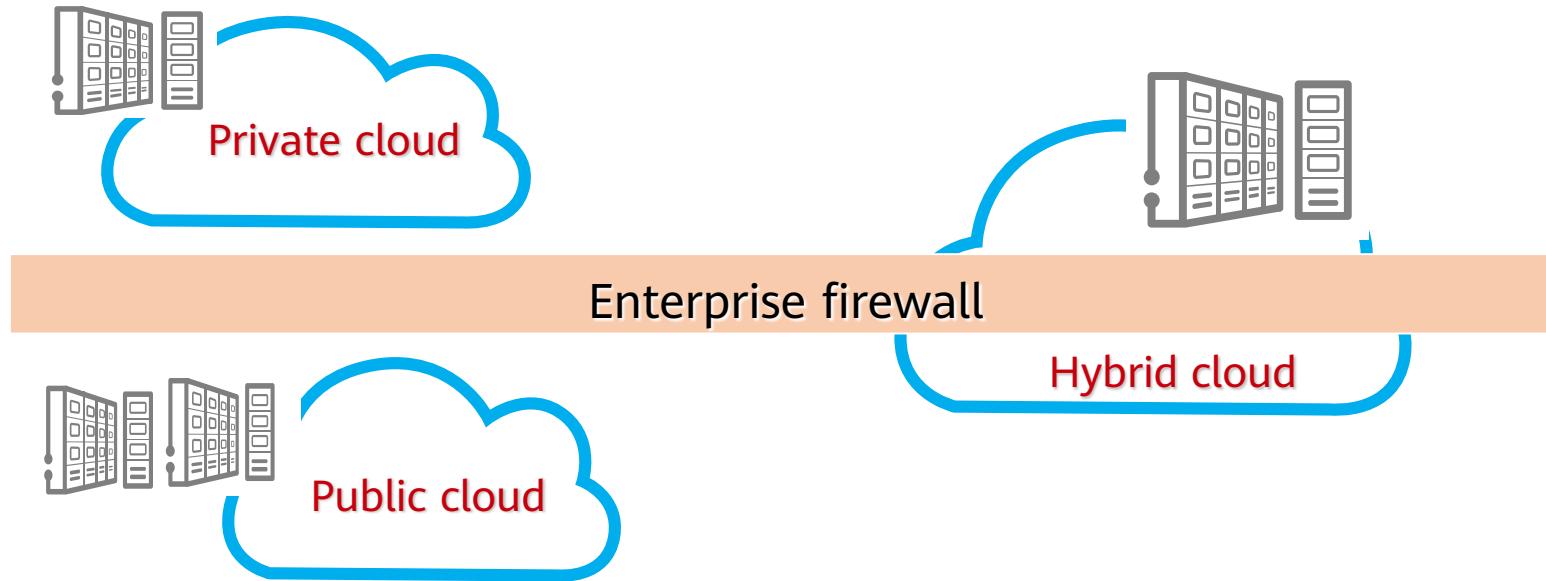
- Cloud services are an on-demand and measurable IT service model underpinned by cloud computing architecture.



Huawei Cloud Services for Common Components



Cloud Deployment Models



Private cloud: Owned and managed for exclusive use by a single organization

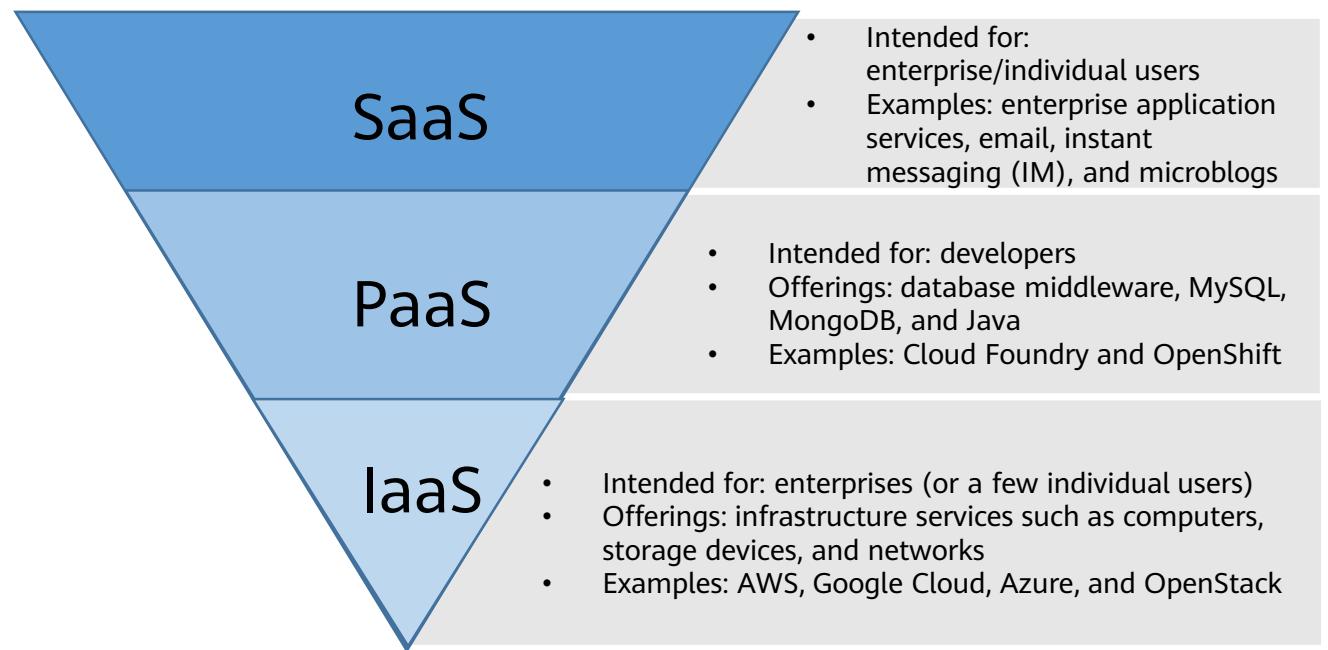
Public cloud: Owned and managed by a third-party cloud service provider and shared with multiple organizations over the Internet

Hybrid cloud: A combination of public and private clouds, viewed as a single cloud externally

Cloud Service Models

Cloud service models are ever-evolving. Generally there are three types:

- Infrastructure as a service (IaaS)
- Platform as a service (PaaS)
- Software as a service (SaaS)





Contents

1. Basic Concepts and Values of Cloud Computing

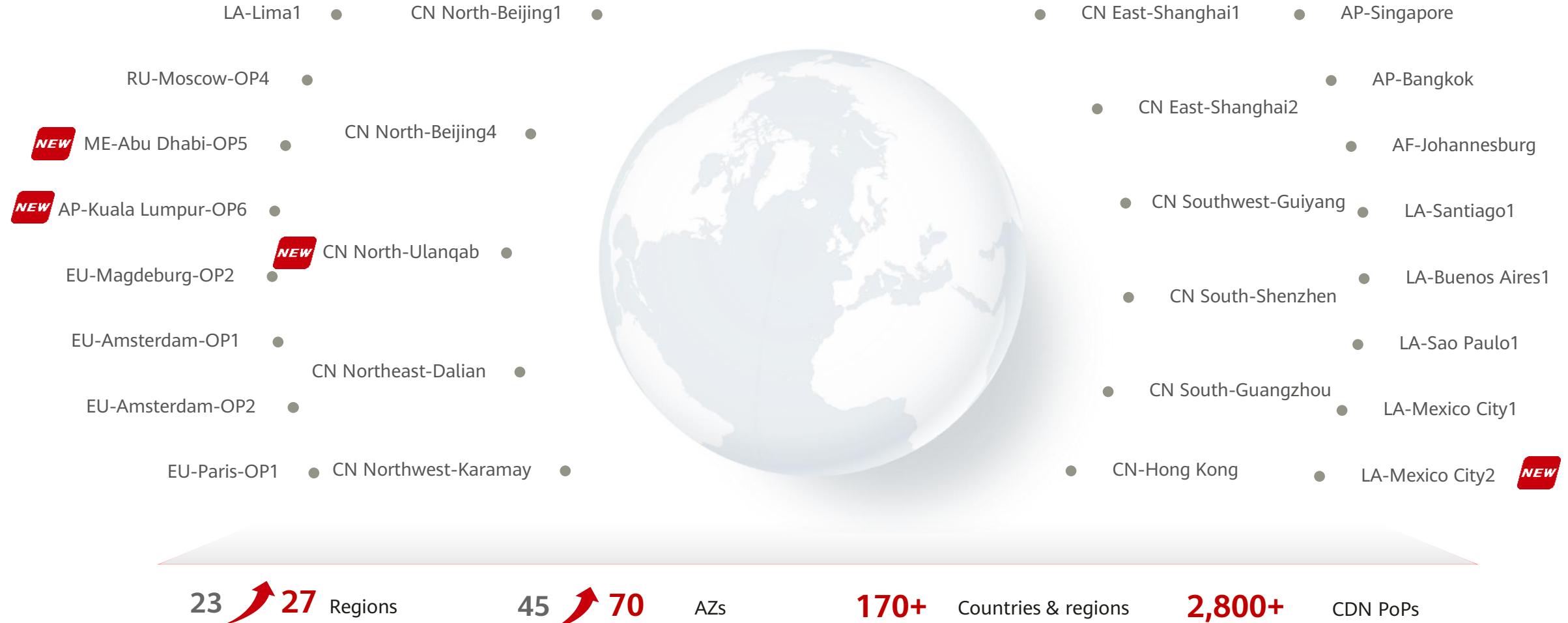
2. Huawei Cloud Infrastructure Architecture

3. Core Services on Huawei Cloud

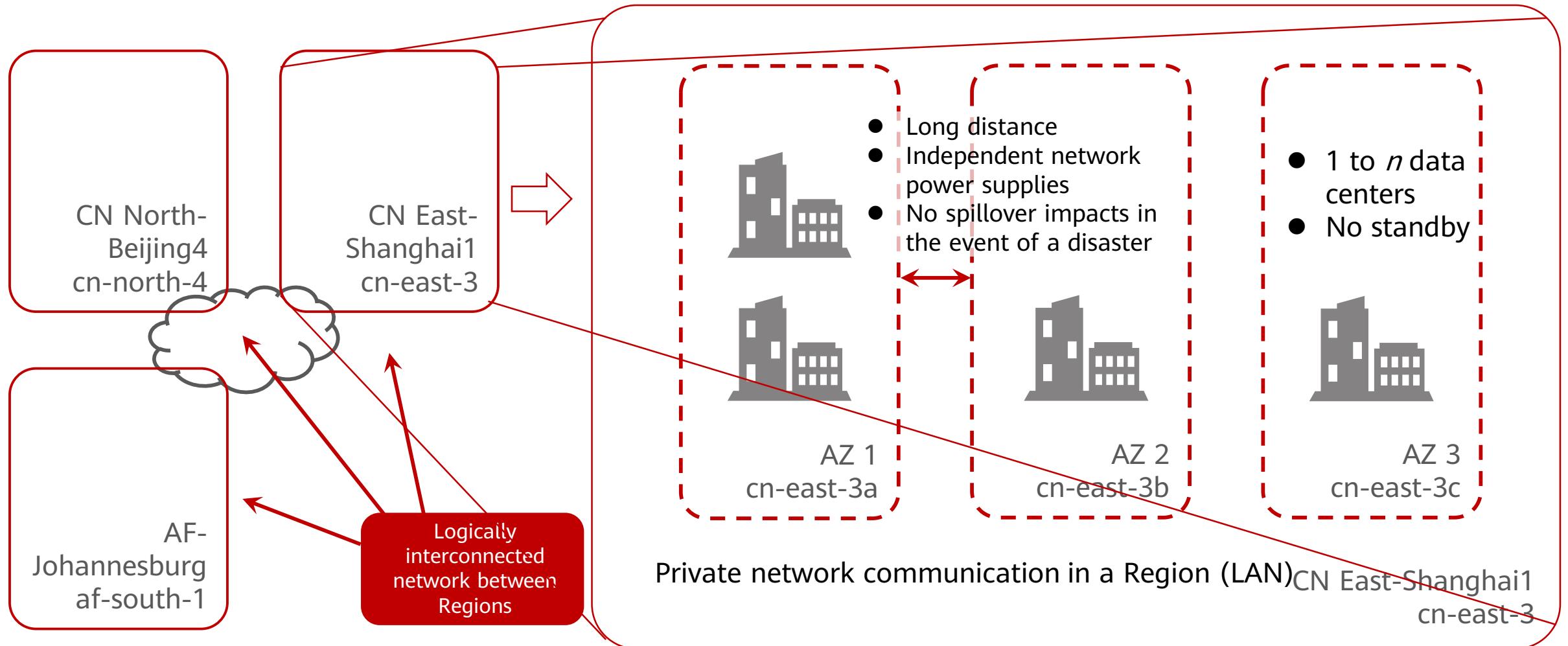
4. Huawei Cloud Ecosystem

5. Log in to Huawei Cloud

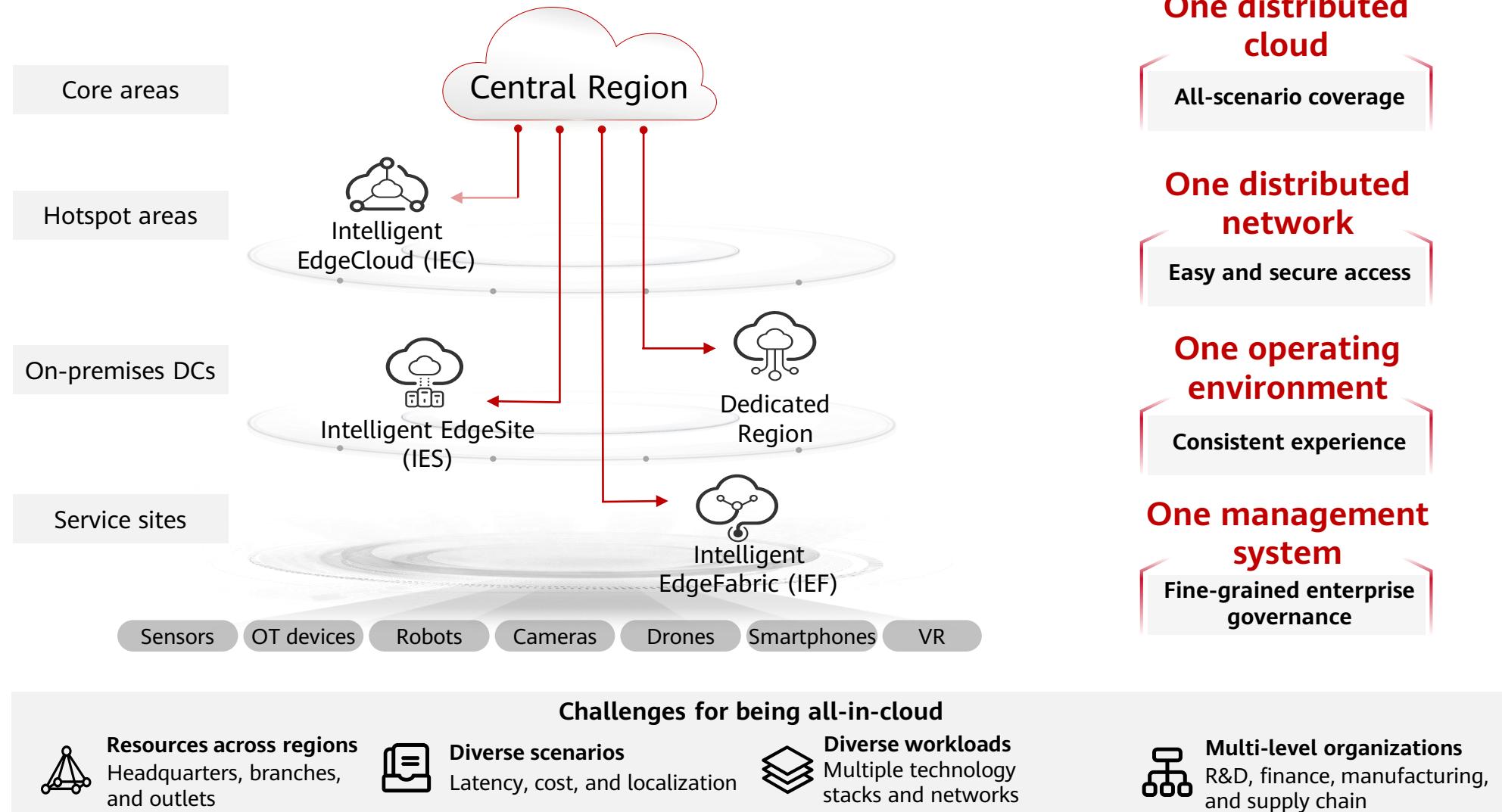
Huawei Cloud's Global Presence for One-Stop Services



Huawei Cloud Infrastructure Architecture



Infrastructure at All Levels Extends to All Scenarios





Contents

1. Basic Concepts and Values of Cloud Computing
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4. Huawei Cloud Ecosystem
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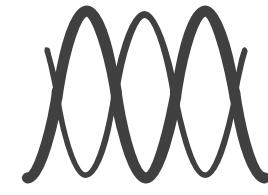
Core Service: Computing Cloud Service



Elastic Cloud Server
ECS



Image Management Service
IMS

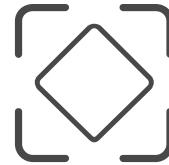


Auto Scaling
AS

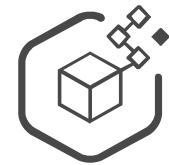
Core Service: Container Service



SoftWare Repository for
Container
SWR



Cloud Container Engine
CCE



Cloud Container Instance
CCI

Core Service: Storage Service



Object Storage Service
OBS

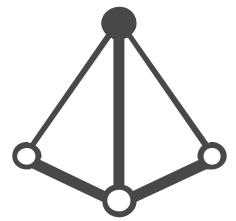


Elastic Volume Service
EVS

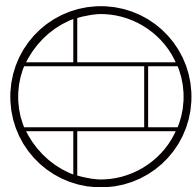


Scalable File Service
SFS

Core Service: Network Service



Elastic Load
Balance
ELB



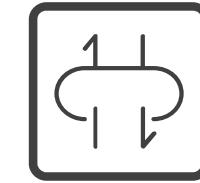
Network ACL



Elastic IP
Address
EIP



Virtual Private Cloud
VPC



Network
Address
Translation
Gateway
NAT Gateway

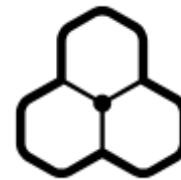


VPC Peering

Core Service: Database Service



Cloud Database
GaussDB



Relational Database Service
RDS

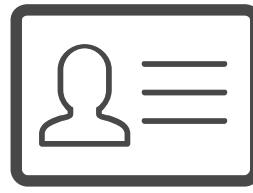


Cloud-native multi-model database
GeminiDB

Core Service: Security and Management Service



Data encryption
Workshop
DEW



Identity & Access
Management
IAM



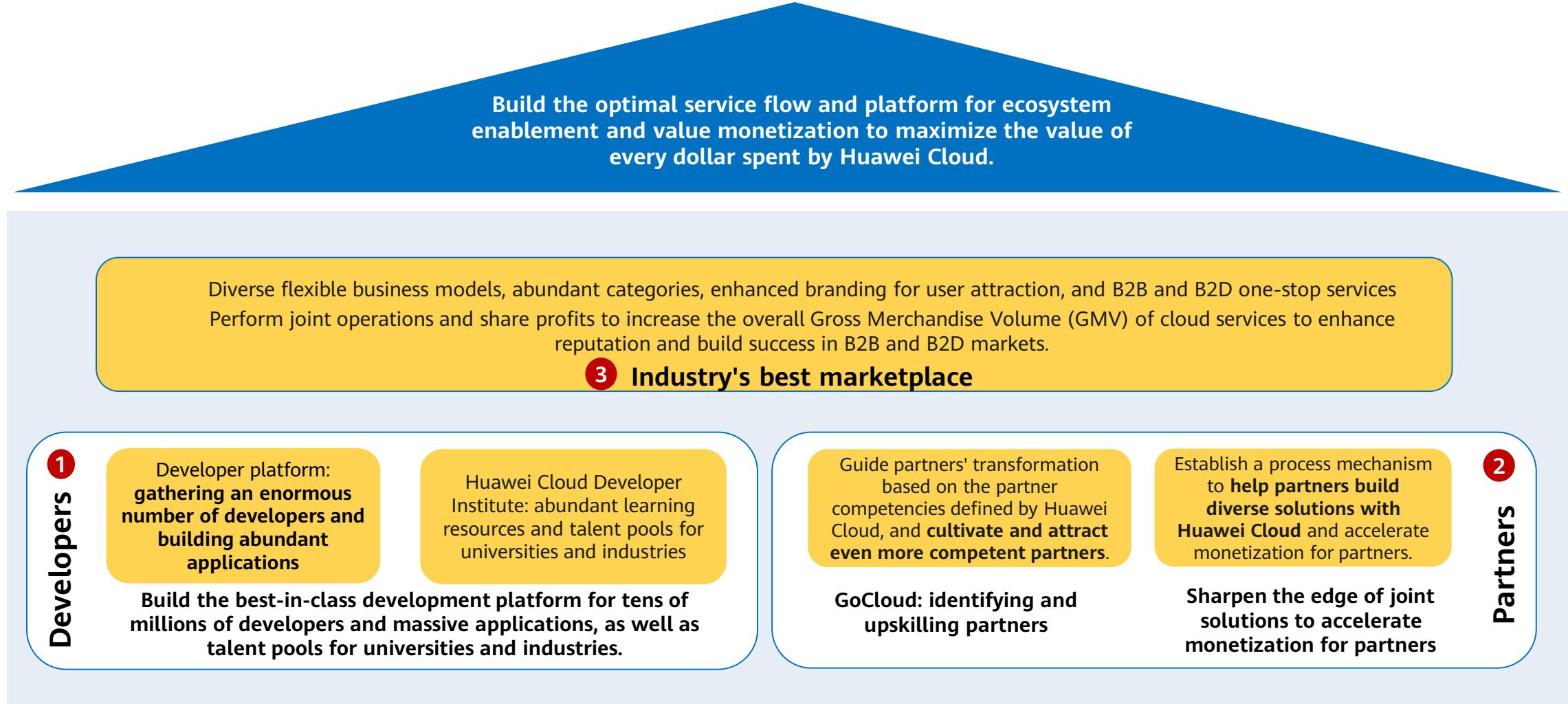
Cloud Trace Service
CTS



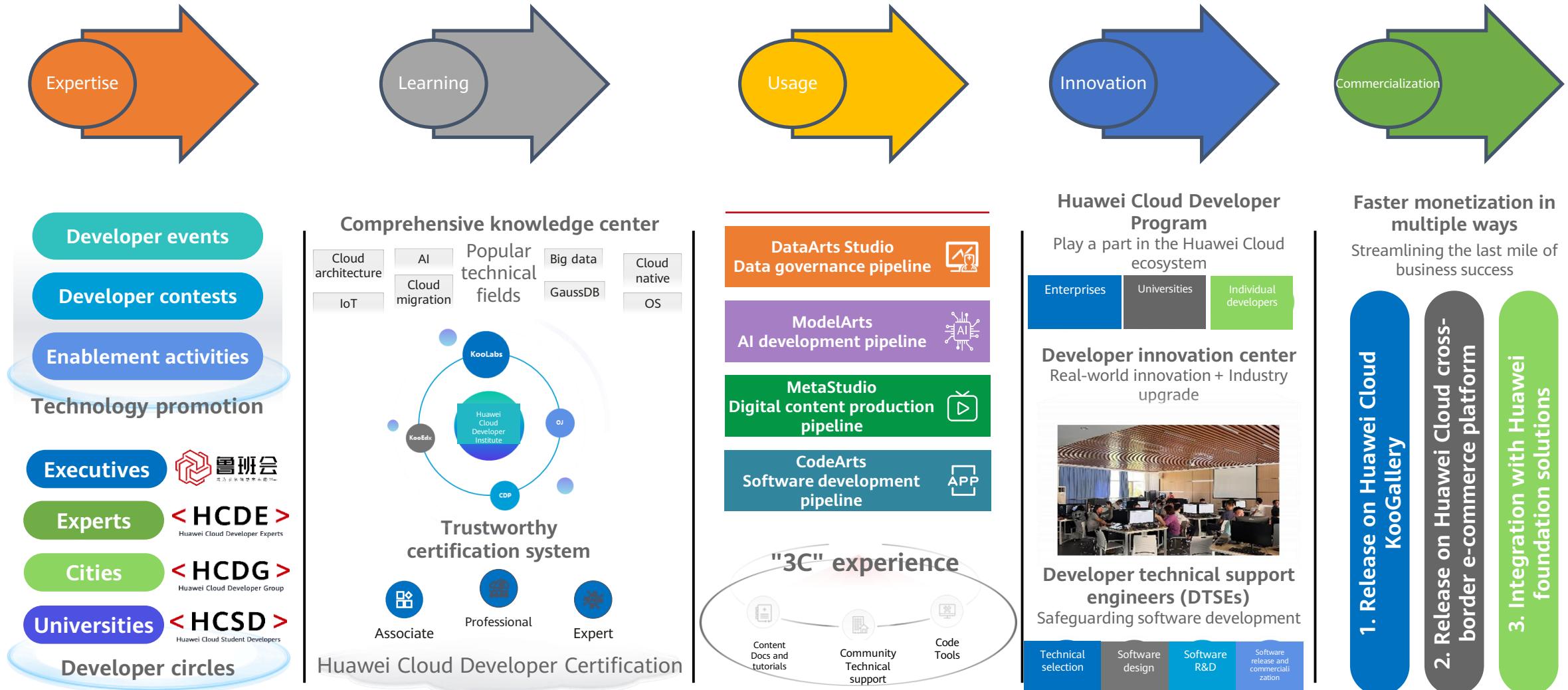
Contents

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Huawei Cloud Ecosystem Framework



Upskilling Developers on the Cloud with Comprehensive Services and Diverse Enablement



Huawei Cloud Partner System: Helping Partners Build Capabilities and Solutions to Make Customers Happier

Huawei Cloud partner network

A unified partner identity

1 identity

Offering creation

Partner support platforms
Cash coupons
PSA

GoCloud

Training and certification

Huawei Cloud certification
Product capabilities
Industry competencies

Scorecard

Capabilities Assessment
Success stories

Partner programs

Partner programs

GrowCloud

Transaction roles

Cloud solution provider
Distributor

Incentives

Commercial incentive policies

2 collaboration frameworks

 System Integrator (SI)

 Software Partner

 Service Partner

 Device Partner

 Learning Partner

 Distributor

6 roles

Huawei Cloud KooGallery: Accelerating Digital Transformation and Building an Innovative Application Ecosystem

Connecting sellers across industries to offer high-quality products and services

Partner success

One-stop operations for sellers

Build a prosperous application ecosystem and help partners achieve success



Connecting customers to help them meet their application requirements during digital transformation

Customer satisfaction

One-stop shop for customers

Enable industries and accelerate digital transformation of organizations

11 delivery methods

SaaS	License	API
AI asset	Data asset	Application orchestration
Image	Professional service	Hardware cloud service

14 horizontal domains

ERP	Office software	OA	Video management	Big data
AI	Customer acquisition	DR and backup	WAF	Digital twins
Open-source images	Identity authentication	Finance	Education	

Our presence

Smart manufacturing	Smart city	Transportation & logistics	Gaming
Education	Healthcare	Smart campus	Media & entertainment
Government cloud	Retail & e-commerce	More	

Connect partners and customers, provide high-quality cloud products, and work with partners to facilitate the digital journeys of organizations



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Registering a Huawei Cloud Account



Register HUAWEI ID

Already have an account? [Log in >](#)

Country/Region: Hong Kong (China) ▾

Email:

Email code: [Get code](#)

Password:

Confirm password:

This service requires an [Internet](#) connection and needs to access information about your account, region, and browser settings, in addition to any basic personal and identity information that you actively upload. By clicking Register, you agree to these terms as well as the [HUAWEI ID User Agreement](#) and [Statement About HUAWEI ID and Privacy](#).

[Register](#)

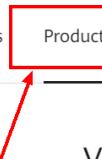
Huawei Cloud Official Website: <https://www.huaweicloud.com/intl/en-us/>

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Page 34



Huawei Cloud Product Catalog



The screenshot shows the main interface of the Huawei Cloud Product Catalog. At the top, there's a navigation bar with the Huawei logo, 'HUAWEI CLOUD', and links for Activities, Products (which is highlighted with a red box and has a red arrow pointing to it), Solutions, Pricing, KooGallery, Partners, Developers, Support, and About Us. There's also a search bar, a contact link, documentation, console access, sign-in options, and a 'Sign Up' button. Below the navigation, a large 'View All Products >' button is visible. On the left, a sidebar titled 'Featured' lists various cloud services: SME Preferred, Compute, Containers, Storage, Networking, Content Delivery & Edge Computing, Databases, AI, Analytics, Internet of Things, Middleware, Developer Services, Business Applications, Media Services, Security & Compliance, and Management & Governance. The main content area displays eight product cards: 1. **Huawei Cloud Flexus** (HOT): Next-generation products with transcendent performance and experience. 2. **Elastic Cloud Server (ECS)**: Get your own secure, scalable virtual servers in the cloud. 3. **Object Storage Service (OBS)**: Take advantage of infinitely scalable, durable, and secure object storage. 4. **Elastic Load Balance (ELB)**: Distribute incoming traffic across multiple backend servers. 5. **Distributed Cache Service (DCS) for Redis®**: An in-memory caching service compatible with Redis®. 6. **Virtual Private Cloud (VPC)**: Guard your system with isolated, private networks. 7. **Cloud Container Engine (CCE)**: Experience enterprise-class, managed Kubernetes service. 8. **DataArts Studio**: Manage your data development and governance in one place. 9. **ModelArts**: Build, train, and deploy machine learning models quickly and easily. 10. **Workspace**: Secure, efficient, and out-of-the-box virtual desktops on the cloud.

Huawei Cloud Console

The screenshot shows the Huawei Cloud Console interface. At the top, there is a navigation bar with the HUAWEI logo, 'HUAWEI CLOUD' (with 'Console' highlighted), 'Activities', 'Products', 'Solutions', 'Pricing', 'KooGallery', 'Partners', 'Developers', 'Support', and 'About Us'. There is also a search icon, 'Contact Us', 'Documentation', 'Console' (which is highlighted with a red box and has a red arrow pointing to it), 'Sign In', and 'Sign Up' buttons.

The main content area has a dark header bar with the HUAWEI logo, 'HUAWEI CLOUD', 'Console', 'Singapore' (with a dropdown arrow), a search bar ('Enter a cloud service, operation keyword, d'), and a 'More' button.

The left sidebar has a 'My Resources' tab (highlighted with a red box and has a red arrow pointing to it) and a 'Custom Console' tab. It includes sections for 'Cloud Server Console', 'Dashboard', 'Events', 'Troubleshooting' (marked as 'NEW'), 'Servers and Images', 'Elastic Cloud Server' (selected), 'ECS Group', 'Huawei Cloud Flexus' (with a dropdown arrow), and 'Dedicated Host'.

The right main area is titled 'Elastic Cloud Server' with a question mark icon. It contains two informational messages: one about a password reset plug-in and another about a new version of the one-click password reset plug-in. Below these are 'Start', 'Stop', 'Restart', 'Reset Password', 'More', and 'Export' buttons. A search bar at the bottom of this section allows filtering by name.

The central part of the main area displays a table header with columns: Name/ID, Monitor..., Sec..., Status, AZ, Specifications/Image, OS Type, IP Address, Billing Mode, Tag, and Operation. A message 'No data available.' is centered below the table. At the bottom of this section are 'Buy ECS' and 'AP-Singapore' buttons.



Section Summary

- Basic concepts of cloud computing
- Values of cloud computing
- Infrastructure of Huawei Cloud
- Ecosystem policies of Huawei Cloud
- Log in to Huawei Cloud

 Quiz

What are the deployment models of cloud computing? ()

- A. Public cloud
- B. Private cloud
- C. Hybrid cloud
- D. Community/Industry cloud



Acronyms and Abbreviations

- AZ: availability zone
- IaaS: infrastructure as a service
- PaaS: platform as a service
- SaaS: software as a service



Recommendations

- Huawei Cloud websites
 - Huawei Cloud: <https://www.huaweicloud.com/intl/en-us/>
 - Huawei Cloud Developer Institute: <https://edu.huaweicloud.com/intl/en-us/>



Huawei Cloud
Developer Institute

Thank You.

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