



Diving into Huawei Cloud





Foreword

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



Objectives

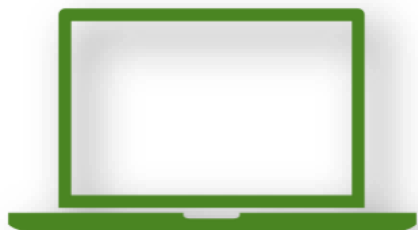
- Upon completion of this lesson, you will learn about:
 - Basic concepts of cloud
 - Advantages of cloud
 - Infrastructure of Huawei Cloud
 - Ecosystem policies of Huawei Cloud
 - Log in to Huawei Cloud



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



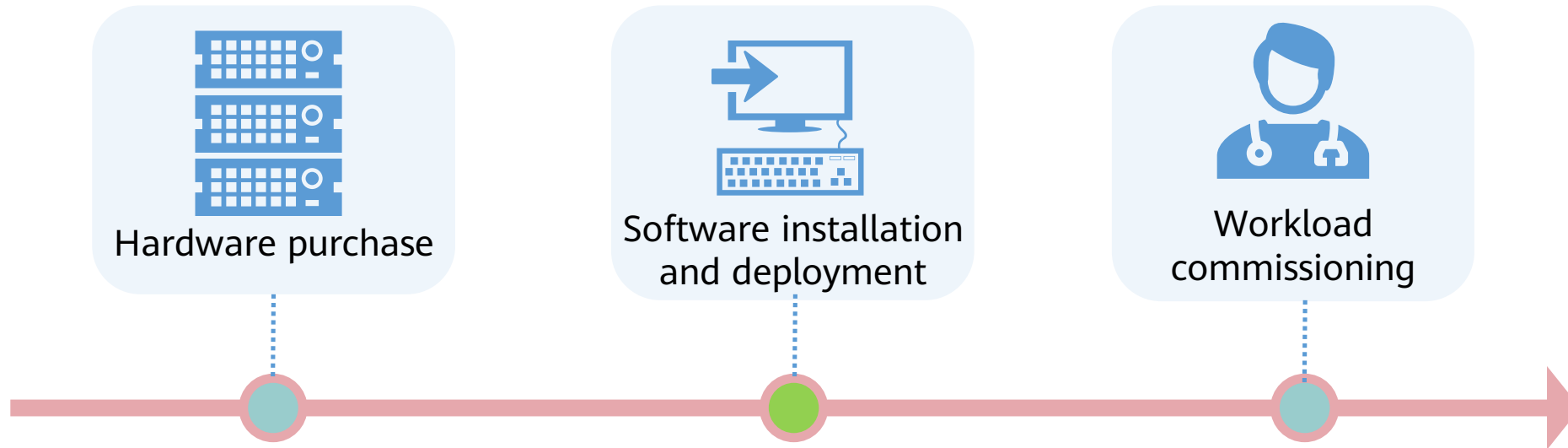
Mobile Internet



Cloud

Headaches Caused by Traditional IT Infrastructure

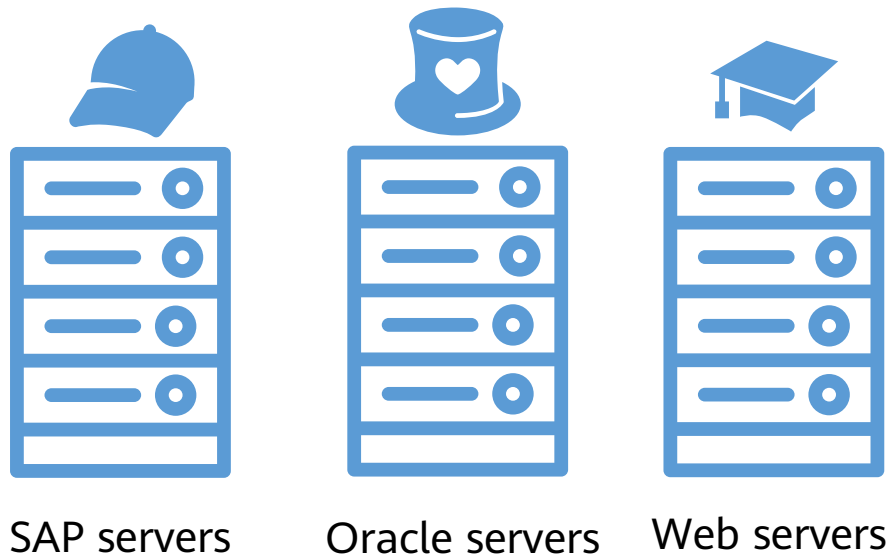
Slow service rollout



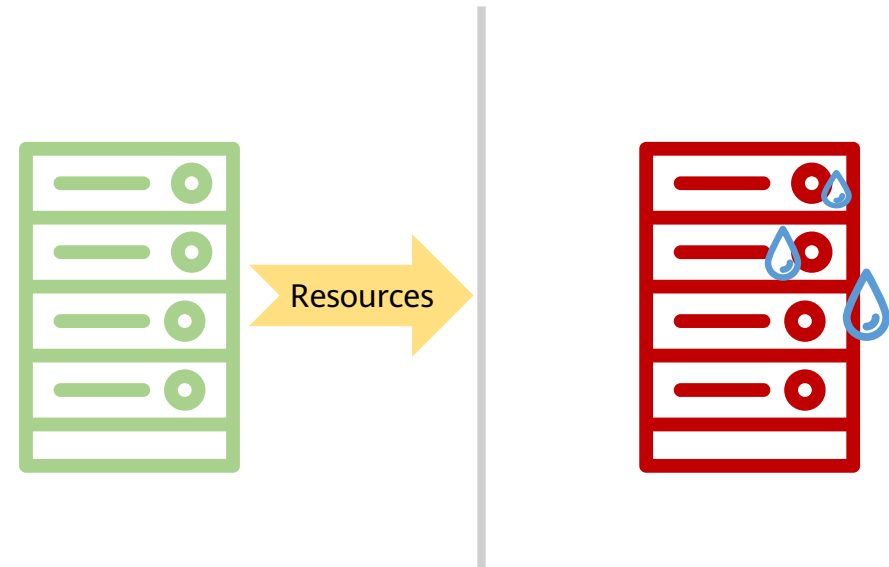
Requires weeks or even months

Headaches Caused by Traditional IT Infrastructure

Low resource utilization and high TCO



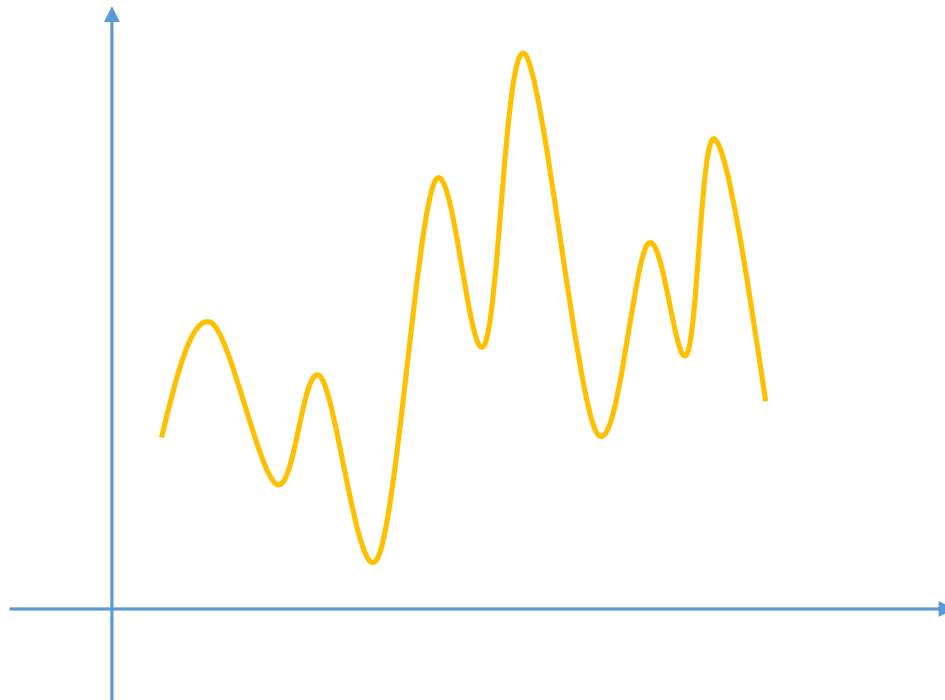
Hardware resources are used by specific service software, meaning tight hardware-software coupling.



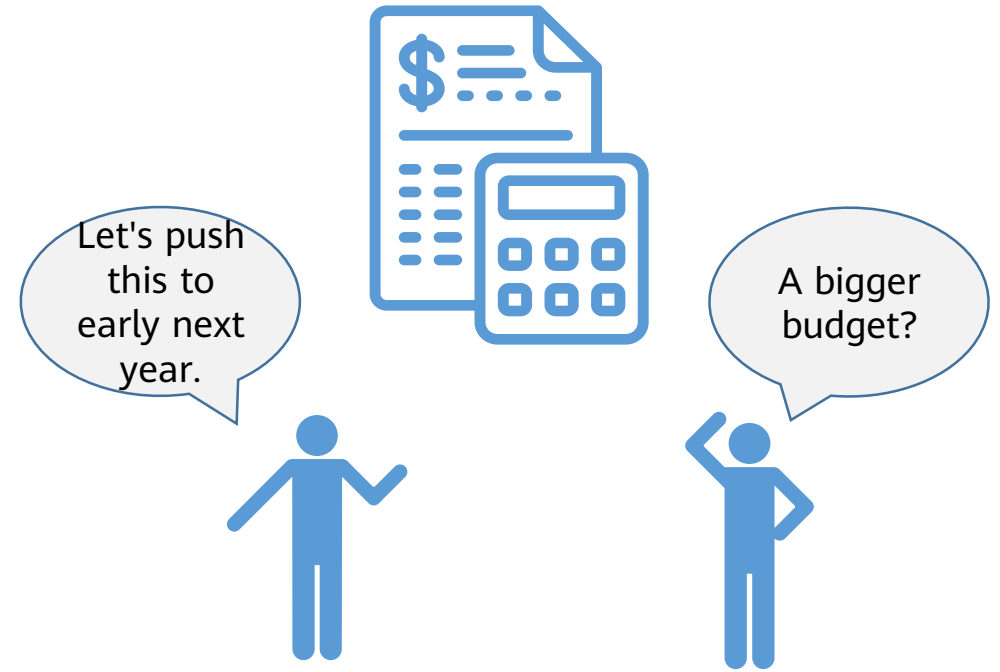
Inflexible resource allocation

Headaches Caused by Traditional IT Infrastructure

Complex scaling

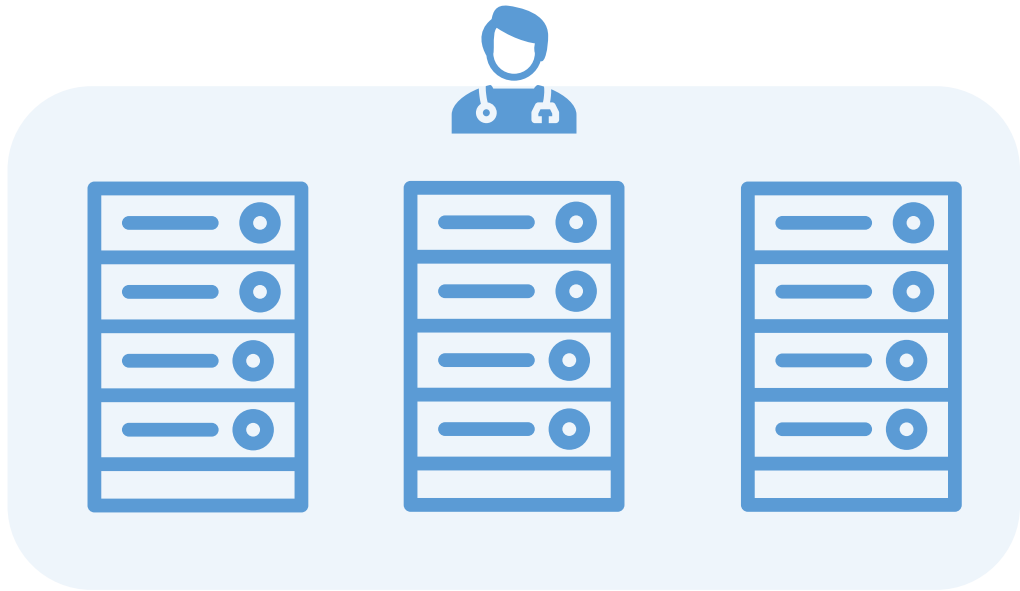


Unpredictable business changes

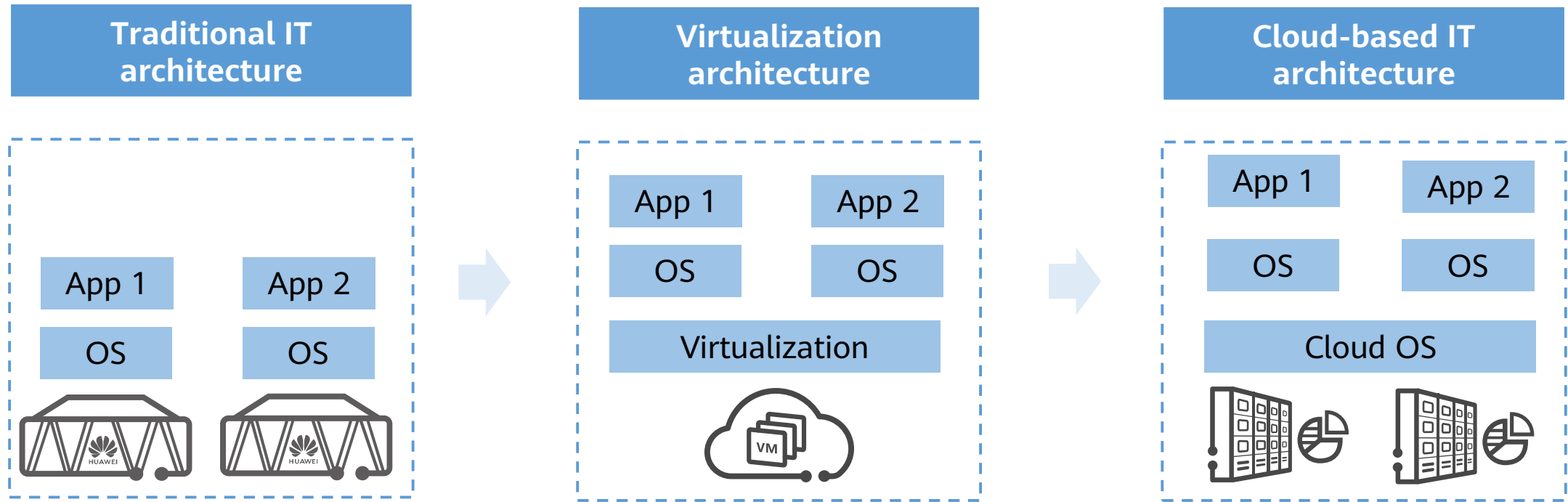


Headaches Caused by Traditional IT Infrastructure

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



Moving IT Architecture to the Cloud



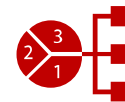
What Is Cloud Computing?

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

Values of Cloud Computing



Less investment in fixed assets



Abundant resources



Quick resource acquisition



New O&M methods



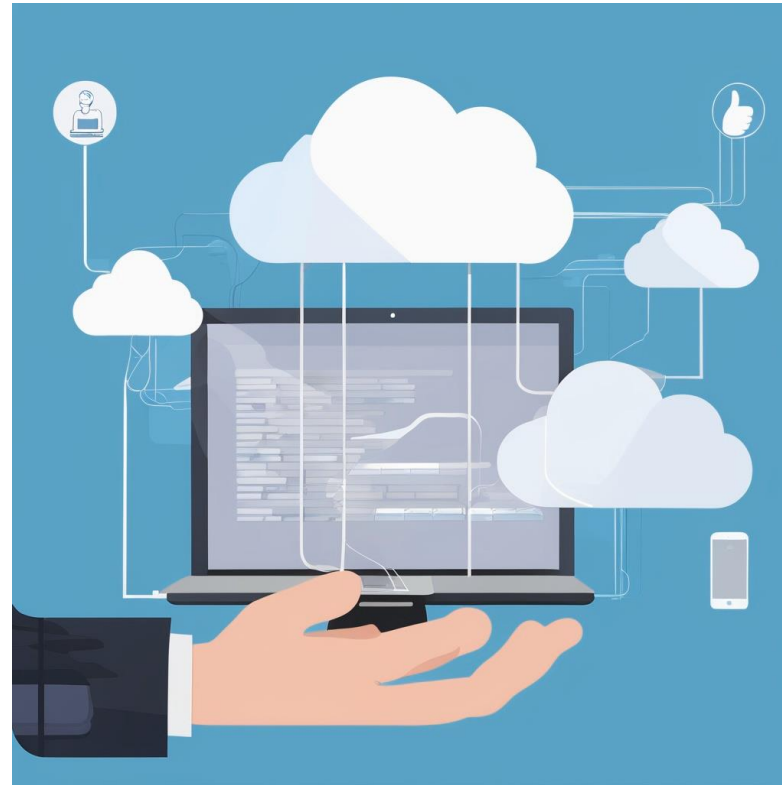
No guessing of required capacity



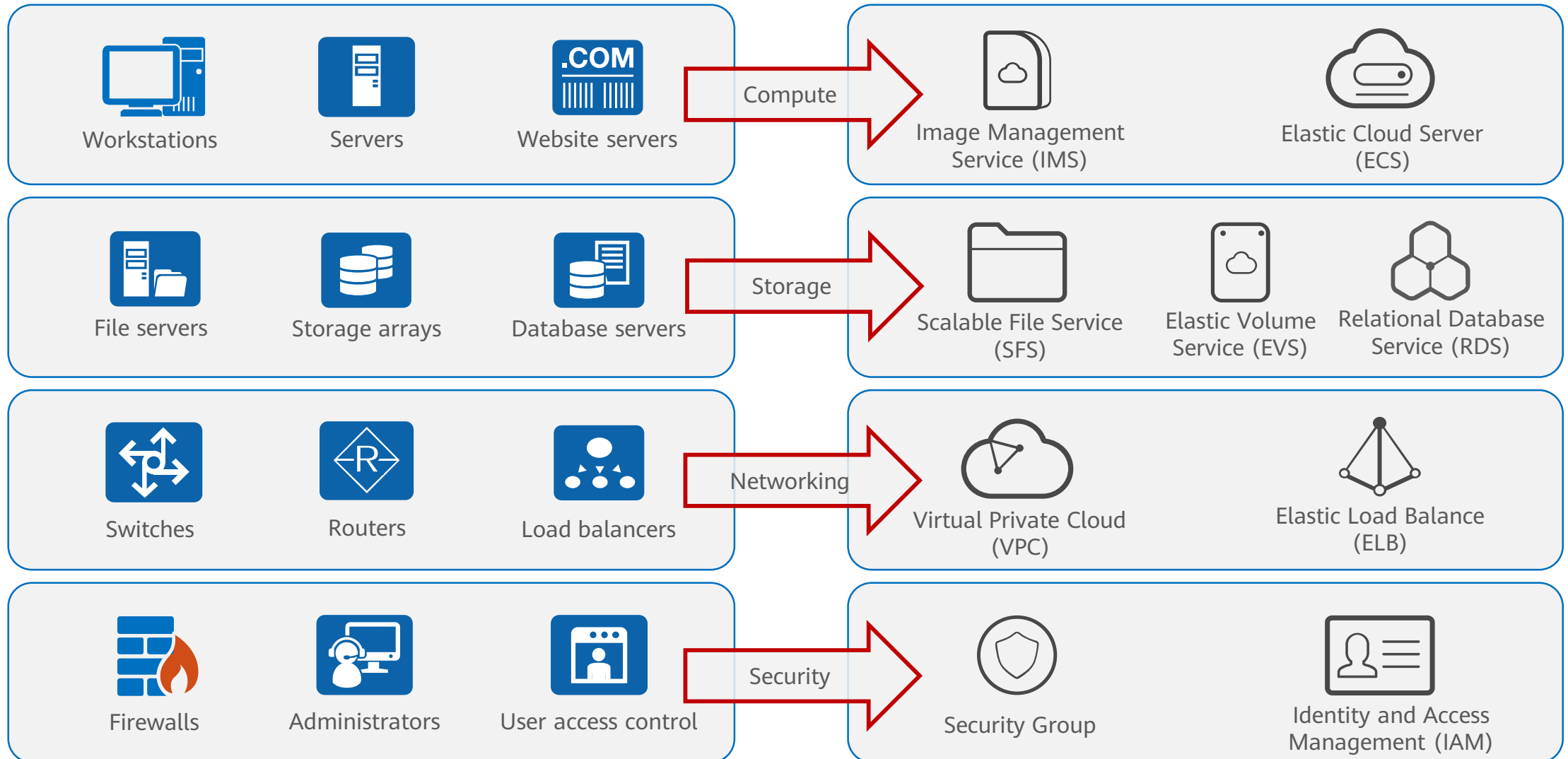
Operations across geographical locations

What Are Cloud Services?

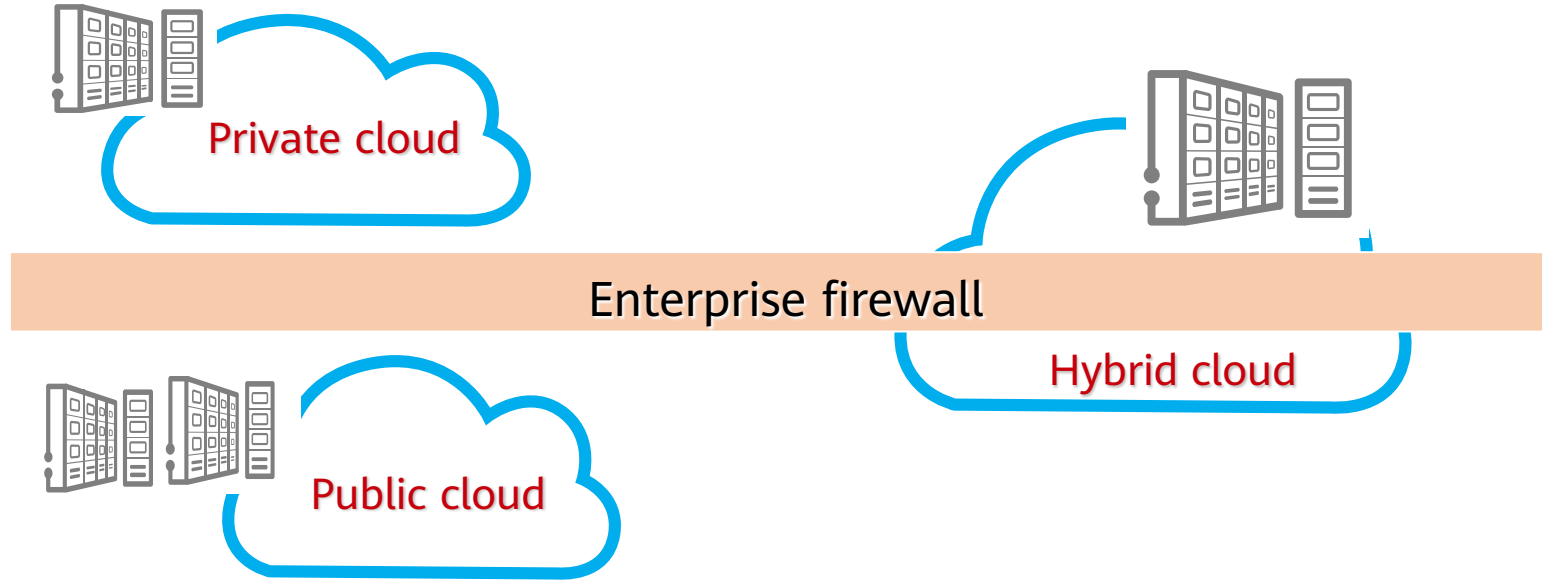
- Cloud services are an on-demand and measurable IT service model underpinned by cloud computing architecture.



Huawei Cloud Services for Common Components



Cloud Deployment Models



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

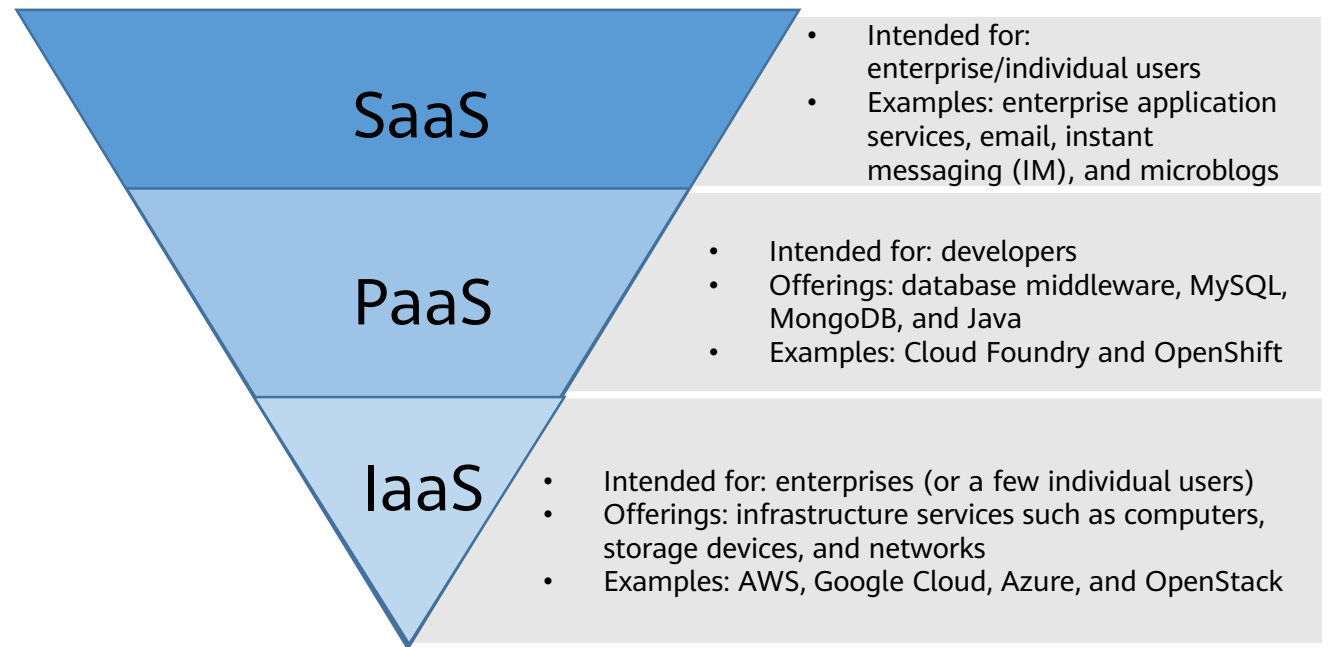
Public cloud: Owned and managed by a third-party cloud service provider and shared with multiple organizations over the Internet

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)





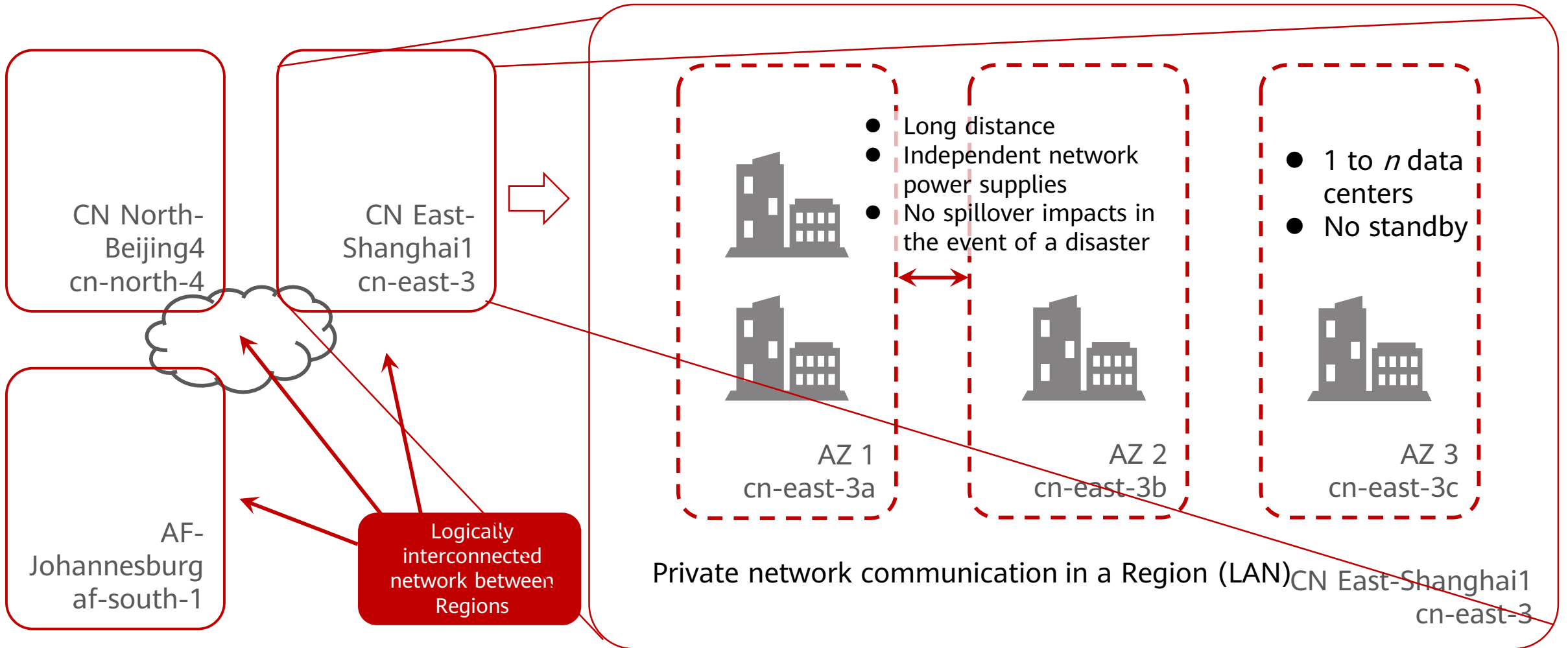
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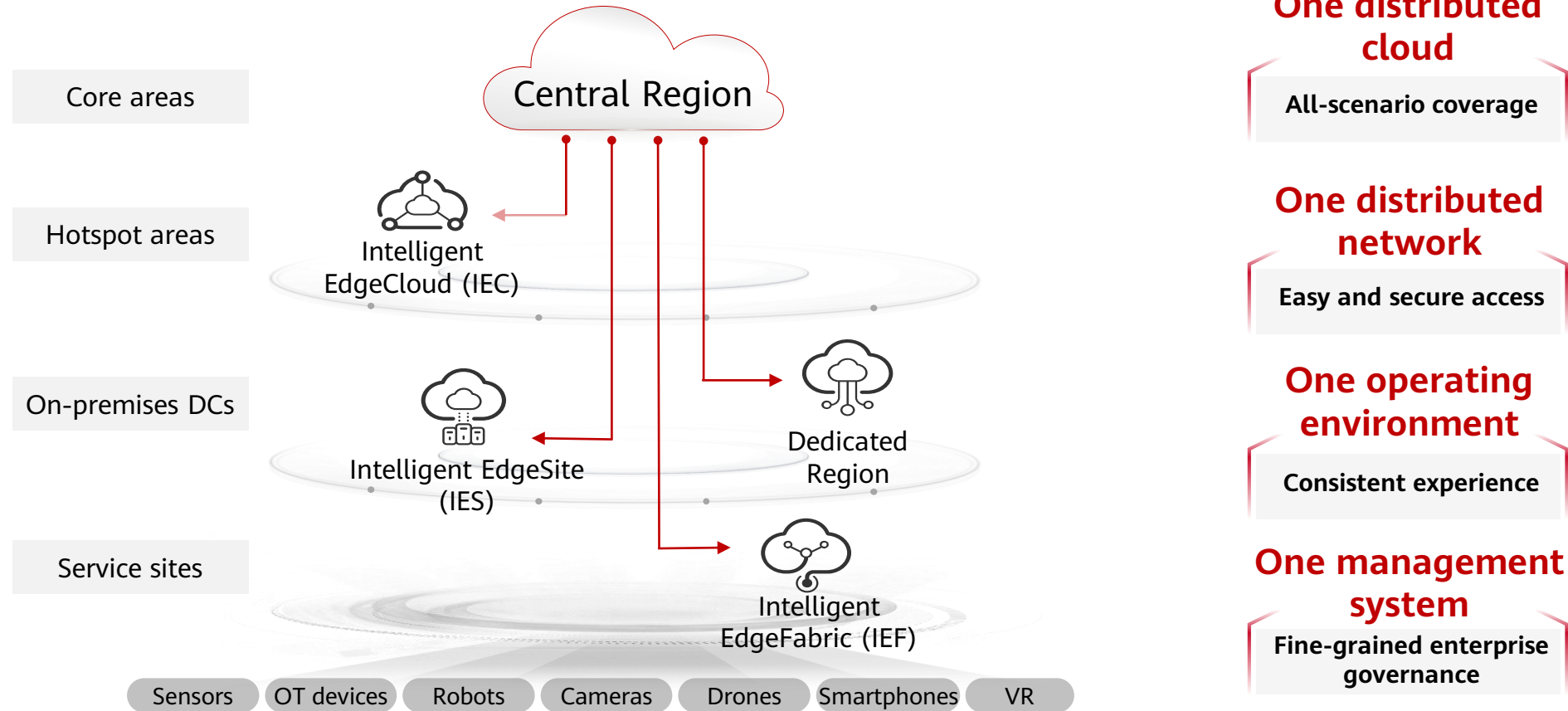
Huawei Cloud's Global Presence for One-Stop Services



Huawei Cloud Infrastructure Architecture



Infrastructure at All Levels Extends to All Scenarios



Challenges for being all-in-cloud



Resources across regions
Headquarters, branches, and outlets



Diverse scenarios
Latency, cost, and localization



Diverse workloads
Multiple technology stacks and networks



Multi-level organizations
R&D, finance, manufacturing, and supply chain



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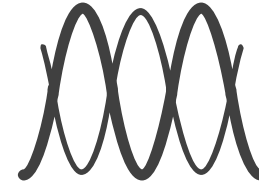
Core Service: Computing Cloud Service



Elastic Cloud Server
ECS



Image Management Service
IMS



Auto Scaling
AS

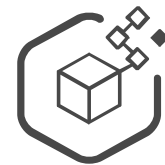
Core Service: Container Service



SoftWare Repository for
Container
SWR



Cloud Container Engine
CCE



Cloud Container Instance
CCI

Core Service: Storage Service



Object Storage Service
OBS

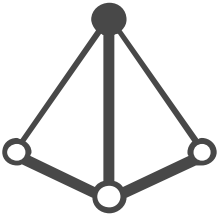


Elastic Volume Service
EVS

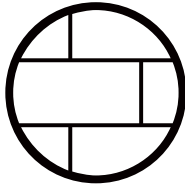


Scalable File Service
SFS

Core Service: Network Service



Elastic Load
Balance
ELB



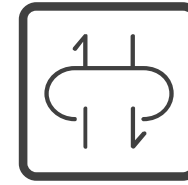
Network ACL



Elastic IP
Address
EIP



Virtual Private Cloud
VPC



Network
Address
Translation
Gateway
NAT Gateway

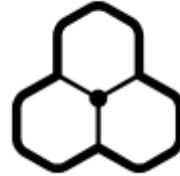


VPC Peering

Core Service: Database Service



Cloud Database
GaussDB



Relational Database Service
RDS

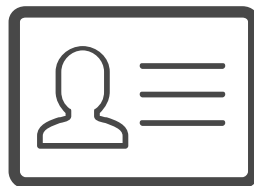


Cloud-native multi-model database
GeminiDB

Core Service: Security and Management Service



Data encryption
Workshop
DEW



Identity & Access
Management
IAM



Cloud Trace Service
CTS



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Huawei Cloud Ecosystem Framework

Build the optimal service flow and platform for ecosystem enablement and value monetization to maximize the value of every dollar spent by Huawei Cloud.

Diverse flexible business models, abundant categories, enhanced branding for user attraction, and B2B and B2D one-stop services
Perform joint operations and share profits to increase the overall Gross Merchandise Volume (GMV) of cloud services to enhance reputation and build success in B2B and B2D markets.

3 Industry's best marketplace

1 Developers

Developer platform:
gathering an enormous number of developers and building abundant applications

Build the best-in-class development platform for tens of millions of developers and massive applications, as well as talent pools for universities and industries.

Huawei Cloud Developer Institute: abundant learning resources and talent pools for universities and industries

Guide partners' transformation based on the partner competencies defined by Huawei Cloud, and **cultivate and attract even more competent partners.**

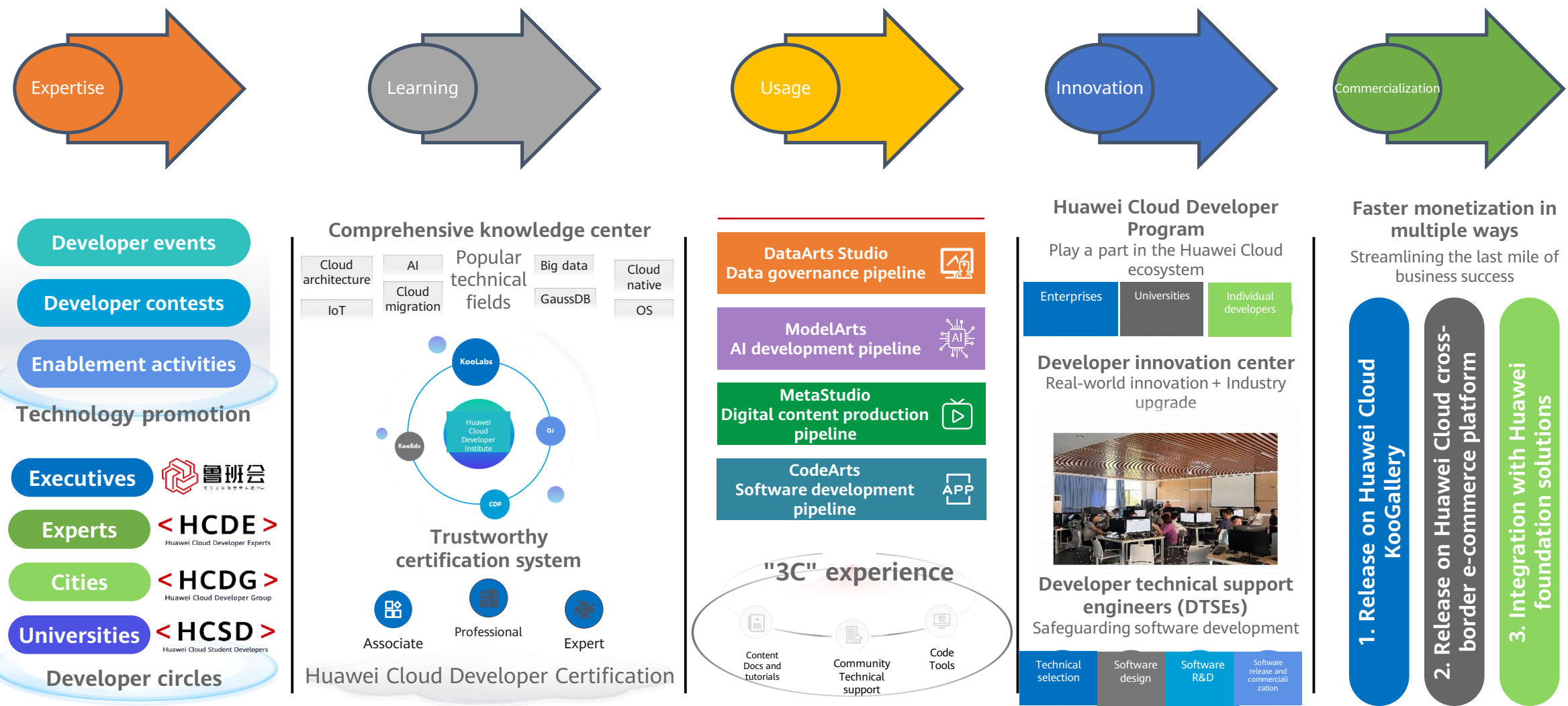
GoCloud: identifying and upskilling partners

Establish a process mechanism to **help partners build diverse solutions with Huawei Cloud** and accelerate monetization for partners.

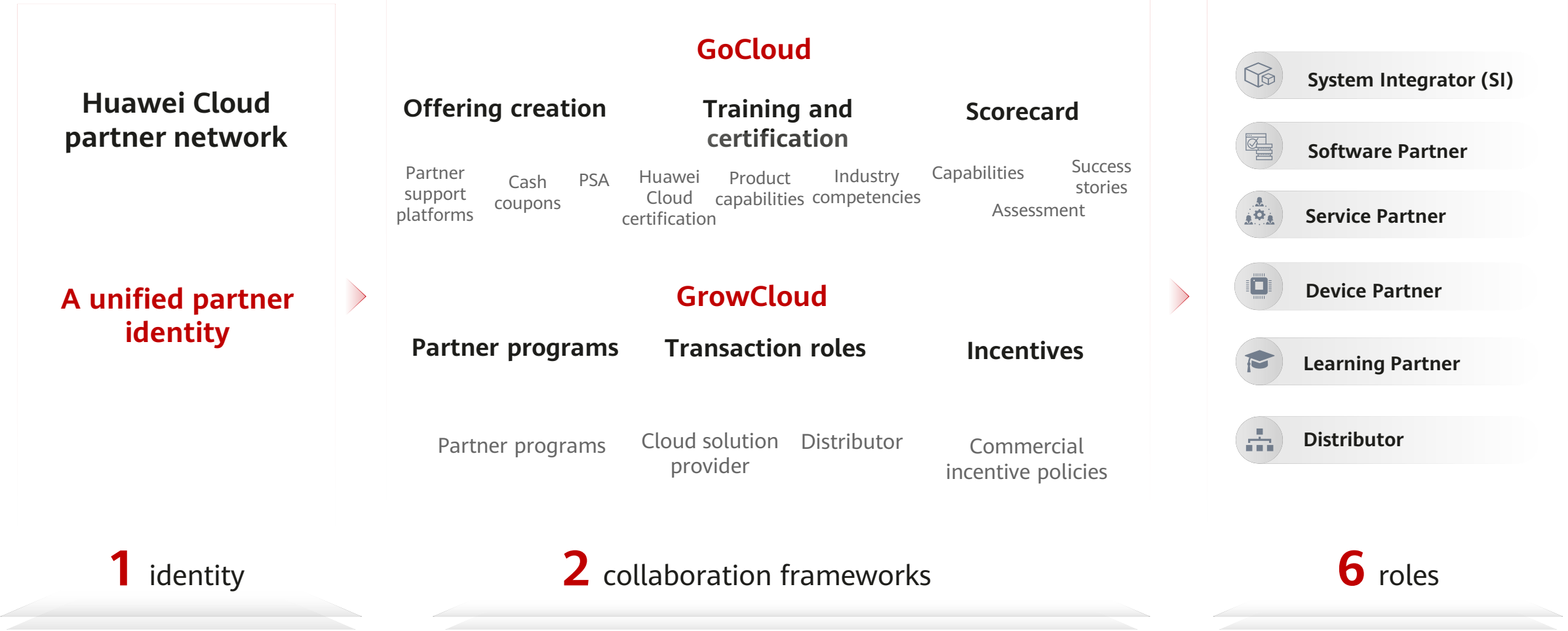
Sharpen the edge of joint solutions to accelerate monetization for partners

2 Partners

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 KooGallery: Accelerating Digital Transformation and Building an Innovative Application Ecosystem

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

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

Partner success

One-stop operations for sellers

Build a prosperous application ecosystem and help partners achieve success



Huawei Cloud KooGallery

Abundant applications | Enhanced reliability | Premium services | Global reach

One-stop shop for customers

Enable industries and accelerate digital transformation of organizations

Customer satisfaction

11 delivery methods

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

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 

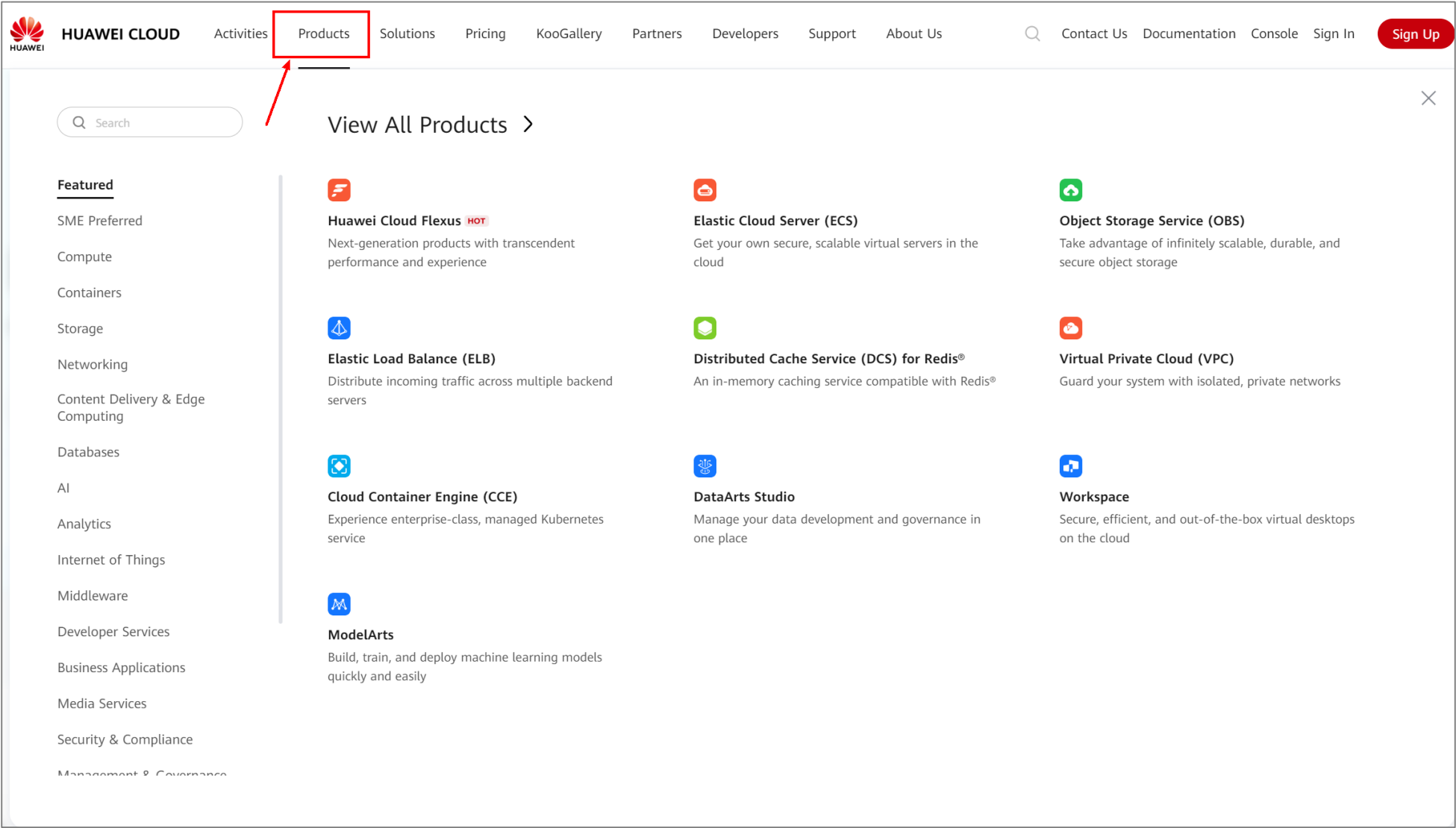
This service requires an **Internet** connection and needs to access information about your account, region, and browser settings, in addition to any basic personal and identity information that you actively upload. By clicking Register, you agree to these terms as well as the [HUAWEI ID User Agreement](#)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

[Register](#)

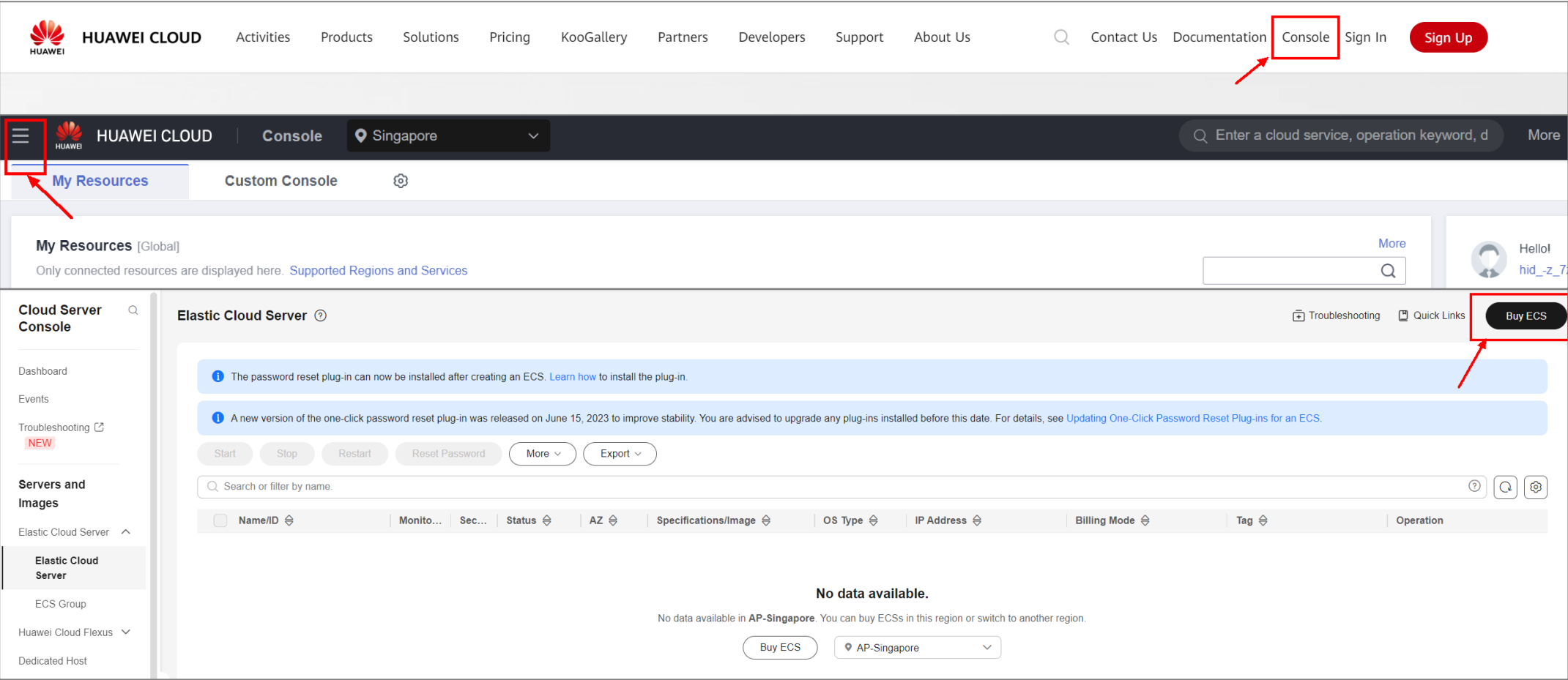
Huawei Cloud Official Website: <https://www.huaweicloud.com/intl/en-us/>

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Huawei Cloud Product Catalog



Huawei Cloud Console





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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