Huawei Cloud, Building an Intelligent Africa

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Huawei: Leading provider of smart ICT infrastructure

Bring digital to every person, home and organization for a fully connected, intelligent world

- **194,000** Employees
- **96,000+** R&D employees
- **170+** Countries and regions
- **49** on Global 500
Huawei Cloud Global Layout

- **23 Regions**
- **40 Availability Zones**
- **1500+ CDN nodes**

**Timeline:**
- **Mar 2018:** Hong Kong
- **Mar 2018:** Russia
- **Sept 2018:** Thailand
- **Nov 2018:** South Africa
- **Feb 2019:** Singapore

**Regions:**
- Europe
- South Africa
- Asia Pacific
- Russia
- Kenya
- Turkey
- Nigeria
- South America
- Northern Latin America
- Asia Pacific
- East China
- South China
- West China
- North China
- Hong Kong
- Thailand
- Singapore
- Chile
- Brazil
- Peru
- Argentina
- Dubai
- Nigeria
- Turkey

**Planning Regions:**
- To Europe
- Hong Kong
- Dubai
- Northern Latin America

**Existing Regions:**
- Hong Kong
- Russia
- Thailand
- South Africa
- Singapore
Huawei Cloud Differentiated Advantages for Ecosystem

1. **Rich Cloud services**
   - Rich cloud services
   - Huawei Cloud expand Network connection opportunities

2. **Cloud & Connection Convergence**
   - Huawei Cloud expand Network connection opportunities

3. **Security Reliable**
   - (Physical Environment, Network)

4. **Local currency Support**
   - Local Rand payment supported

5. **Dedicated Support Team**
   - Dedicated resource to support to develop market

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POP 1

Public Cloud Services

HUAWEI CLOUD AZ1 in JHB

Direct Connect

Rich Cloud services

High Availability

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POP 2

Public Cloud Services

HUAWEI CLOUD AZ3

Direct Connect

HUAWEI CLOUD Solutions

HPC, SAP, OCR, IOT +
Block Chain ...

HUAWEI CLOUD Marketplace

Huawei DC

Local currency Support

Dedicated Support Team

Huawei Cloud expand Network connection opportunities
200+ Cloud Services from Infrastructure Services to AI Services

**Computing**

- ECS
- Computing
- ECS
- QAC
- FAC
- BMS
- DMS
- A

**Application services**

- ServiceStage
- ECPC
- SWR
- BCS
- AOM
- AOS
- CAF

**DevCloud**

- CodeCheck
- TestMan
- CloudIDE
- Classroom

**Storage**

- EVS
- VBS
- CSBS
- CDN
- SDRS
- DFS
- DES
- LSA
- DBS
- DTA

**Domain names and websites**

- domains
- Web record
- optimization server

**Network**

- VPC
- ELB
- Gatway
- Elastic IP
- Direct Connect
- VPN
- DNS
- CMN
- HTTPDNS

**Management & deployment**

- CES
- LTS
- IAM
- CTS
- TMS

**Video**

- Media Processing Center
- Video on Demand
- Live
- Convergent Video

**Database**

- DAS
- Cassandra
- Taurus
- mysql
- RDS
- Memcached
- DOM
- DRIS

**Cloud communications**

- IM
- CloudPBX
- CloudIPCC
- VoiceCall
- MSGSMS

**Migration**

- OMS
- CDM
- CMC
- SMS

**Security**

- WAF
- AAD
- WebScan
- HSS
- DEW
- DBSS

**Edge cloud services**

- IEF

**Enterprise applications**

- Workspace
- CloudVC

**IoT**

- IoT Platform
- IEF

**Dedicated cloud**

- HCS
- DCC
- DSS
- DESS
- BMS

**Enterprises network**

- CMN

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Huawei Cloud have the most services Launched in SA

- 8 categories
- 40 services
- 2.2019

- 10 categories
- 50 services
- 9.2019

- 13 categories
- 60 services
- 3.2020

- 14 categories
- 70+ services
- 9.2020

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200+ Cloud Services

190+ Solutions
Industry-Leading Huawei Cloud Infrastructure Services

**ECS**
- C6
- 15% higher computing performance
- Tens of millions of PPS
- Thousands of ECSs provisioned within minutes

**ARM**
- 3x higher performance
- Cost-effective Provision within minutes
- ARM Cloud server

**BMS**
- 768 cores; 32 TB memory
- All-flash storage
- Exclusive support for shared disk
- SDI Architecture

**OBS**
- Latency: 10 ms
- Unidirectional bandwidth: 300 Mbit/s
- Support for multiple protocols
- Twelve-nines data validity

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**Cloud phone**

**VM**
- Provisioning speed

**Music**
- Evolution of Huawei mobile phones’ native applications
  - AppGallery
  - GameCenter
  - Video
  - Browser
  - SkyTime
  - Music
  - Browser
  - Wallet
  - Theme
  - HiBoard
  - Smart Home

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Huawei Consumer Cloud
HUAWEI CLOUD Stack Accelerates Cloud Transition

180+ services of 18 categories, 180+ solutions, and cloud ecosystem

Unified architecture
Unified APIs
Unified cloud services
Unified O&M
Unified ecosystem

Powerful cloud base
Innovation
Heterogeneous compatibility
Smooth evolution

All-stack cloud services
Synchronization with advanced services
Full-stack, all-scenario AI
Practices from multiple industries

Considerate O&M
Automated O&M
Matching organizations
Open for integration
**SAP on Huawei Cloud Business**

**Entire SAP System on Cloud**

Allows customers to run the entire development, test, and production systems on the public cloud to make full use of public resources:

- Support All SAP Product Portfolio
- All SAP ECC will migrate to HANA before 2025

**SAP Dev and QAS on Cloud**

On/offcloud collaboration, ondemand use, auto scaling, easy and fast to use:

**SAP DR System on Cloud**

Implements DR from the customer data center to the public cloud for SAP:
Huawei Cloud Scenarios

**Application Migration**
- Dev/QAS
- Infrastructure renew
- Data center consolidation

**Data Center Expansion**
- scale your environment
- On-Demand capacity

**New Business**
- New application build-out
- Application modernization

**Disaster Recovery**
- Production workloads Protection
- Replace DR Data Center

Leverage the advantage of the public cloud
Application Scenarios and Solutions in Huawei Cloud

1. **Web & Mobile**
   The common scenario for enterprise business to Cloud
   - Mobile APP, hosted Website etc.
   - E-Commerce platform and internet applications etc.

2. **SAP on Cloud**
   One of the most widely used application software in large enterprise.
   - DEV/QAS on Cloud
   - DR on Cloud
   - SAP HANA on Cloud
   - BYOL PRD on Cloud
   - BYOL BW on Cloud
   - BYOL B1 on Cloud

3. **Backup & Restore**
   Protect data with backup in cloud storage
   - Backup data to Cloud
   - Backup inside Cloud
   - Archive data to Cloud
   - Backup all the disk in Cloud

4. **VMware on BMS**
   Offer the same operation environment in Cloud with PAYU mode.
   - Migration to Cloud
   - Expansion to Cloud
   - VMware Replication
   - Image Import & export
Application Scenarios and Solutions in Huawei Cloud

5 Disaster Recovery
Synchronize the disk data between two nodes immediately

6 DeH
Dedicated host for the customer to isolate the computing environment

7 Docker Container
run an application in resource-isolated processes

8 BMS
Physical server for high performance application, such as oracle database
Application Scenarios and Solutions in Huawei Cloud

**GPU ECS**
3D design on the cloud with high performance computing

- Construction & Engineering
- Oil & Mining
- Film & Media
- Medical
- Automotive

4C 8G 1GBGPU/ 8C 16G 2GBGPU

**RDS & DDS & DCS**
In-houses database service with access API

- MySQL
- PostgreSQL
- MongoDB
- Redis
- DDS
- DCS

**Big Data**
Provide computing capacity for complex analysis

- MRS
- OBS
- DPS + MRS + OBS in Cloud
- DPS + MRS + HDFS in Cloud
- Hortonworks on Cloud

**HCS Online**
Huawei Cloud extended into customer on-premises

- Dedicated Cloud in Cloud DC
- Dedicated Cloud in Customer DC
Providing End-to-End Cloud and Local Services

Tiered Support Plans

- Multi-channel support: service tickets, dedicated hotline, IM groups, and technical account managers (TAMs)
- Quick response: Service requests are addressed in as little as 10 minutes.
- Professional services: Technical experts handle service requests.
- TAMs and active services: TAMs obtain customers’ service requests, help customers optimize services, and send monthly service reports.
- Value-added services: consulting of cloud product architectures and key event support
Huawei OceanStor Accelerates the Core Applications of FIRS

The Huawei SAP HANA Solution serve for FIRS production and non-production environment, employs a high-reliability architecture and high-performance design, ensuring quick service response and stable performance as required. Abundant value-added functions provide data protection, monitoring, and analysis.

### Challenges

- With rapid growth of services, the performance of FIRS legacy IT infrastructure failed to meet the fast service response requirements of core applications system like ERP, CRM, etc. In order to improve the user experience, and meet core applications requirements in real time, the database performance needs to be improved.
- FIRS decided to reconstruct the SAP system on the live network with HANA, and a scalable, reliable and cost effective infrastructure solution is needed to support SAP HANA and core applications. FIRS Need a trusted and reliable strategic IT partner.

### Huawei Solution

- The FIRS system has been divided into two parts, production system and non-production system. Huawei provides FIRS with RH5885H Server and OceanStor 5800 V5 storage with SAP certificate to support customer’s core applications.
- The solution architecture with capacity of expansion and long-term evolution, provides the production and non-production environment for development and research, and achieved Data Center DR(disaster recovery) solution.

### Customer Benefits

- Based on Huawei SAP HANA TDI solution, the FIRS SAP HANA appliance delivers higher performance and higher reliability than the previous system, empowering FIRS meet core applications requirements and better user experience.
- Huawei SAP HANA TDI solution will ensure the long-term evolution of FIRS business system, the expansion and upgrade is flexibly based on the business requirements witch will lower the CAPEX and OPEX of FIRS.
Growing business with partners in Africa
Thank you.

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