

Training: Huawei
Everyone Learns IT - Cloud Data Center Technology

**FORM OF TRAINING****PRICE****DURATION**

E-learning

480 USD

20 days

TRAINING GOALS:

This course introduces the Cloud Data Center technical knowledge, including Cloud Computing Introduction, Server & Storage Introduction, Linux basis, Vmware Basis, Data center core technology network technology, OpenStack Introduction, Docker basis, Storage Network Technology and Application, etc.

On completion of this program, the participants will be able to:

- Understand the cloud computing, cloud data center basic concepts and trends
- Understand the server & storage
- Understand the advantages of server virtualization and the way to achieve
- Understand the VMware component features, virtual machine management and VMware's availability and scalability
- Understand the Linux origin, application areas
- Understand the origin of OpenStack, framework and related components of the architecture principle
- Understand the network and security commonly used in some IP routing, IPv6, VLAN, firewall, QoS, NAT and other common technologies

Target Audience:

- Everyone interested in topics
- Cloud Data Center planners, Cloud Data Center operation personnel

CONSPECT:

- First week
 - Cloud Computing Introduction
 - The Concept of Cloud Computing
 - The Value of Cloud Computing
 - The Key Technology of Cloud Computing Virtualization Technology

- Quiz
- Cloud Data Center
 - Cloud Data Centers Replace Traditional Data Centers
 - Traditional Data Center Components
 - The Composition of the Cloud Data Center
 - The Different between Cloud Data Center and Traditional Data Center
 - Cloud Data Center Building and Evolution
 - Manage the Cloud Data Center
 - Quiz
- Server & Storage Introduction
 - Server Definition and Development History
 - The Server Type
 - Server Technology and Architecture
 - Server Software Architecture
 - What Is a Storage?
 - Storage Development Process
 - Quiz
- VMware Basis
 - Introduction to Server Virtualization
 - Introduction to VMware Components
 - ESXi Introduction
 - vCenter Server Introduction
 - Introduction to VMware virtual machines and virtual machine management
 - VMware vMotion & Storage vMotion
 - VMware Availability and Scalability
 - Quiz
- First week test
- Second week
 - Linux basis
 - Linux Overview
 - Linux user and user group management
 - Linux File and Directory Management
 - Linux file and directory permissions management
 - Linux vi editor
 - Linux File System Management
 - Linux LVM configuration

- Linux Network Management
- Linux process and task management
- Linux system monitoring
- Quiz
- OpenStack Introduction
 - The History of OpenStack
 - Openstack Architecture
 - Nova Introduction
 - Swift Introduction
 - Keystone Introduction
 - Neutron Introduction
 - Glance Introduction
 - Cinder Introduction
 - Ceilometer Introduction
 - Heat Introduction
 - Quiz
- Second week test
- Third week
 - Data center core technology network technology
 - IP routing technology
 - MPLS technology description
 - VPN technology description
 - IPv6 technical description
 - VLAN technology description
 - Overview of Network Routine Maintenance
 - QoS technology description
 - Switch Product Description
 - Router Product Description
 - NAT technology description
 - Firewall Product Description
 - Firewall technology description
 - Quiz
 - Docker basis
 - Docker's development
 - Analysis of the essence of LXC technology
 - Docker Platform Architecture

- Docker's core technology (Build.Ship.Run)
- Docker platform with the advantages and disadvantages
- Docker ecosystem of the industry application scenarios and enterprise applications
- Quiz
- Third week test
- Fourth week
 - Storage Network Technology and Application
 - Storage and application environment
 - Storage media and interfaces
 - RAID Technology and Application (1)
 - RAID Technology and Application (2)
 - Storage Array Technology and Application
 - SAN Technology and Application
 - NAS Technology and Application
 - Storage deployment and operation and maintenance management
 - Large data storage base
 - Backup disaster recovery technology base
 - Cloud computing foundation
 - Storage Advanced Technology Introduction
 - Quiz
 - Automation operation and maintenance
 - Automated operation and maintenance introduction
 - Automated operation and maintenance of the system architecture
 - Technical framework for automated operation and maintenance
 - Shell programming
 - Shell Language introduction
 - Python programming
 - Cobbler with system deployment
 - SaltStack with configuration management
 - Zabbix with monitoring
 - Quiz
 - Final Test

REQUIREMENTS:

No prerequisites.

Difficulty level



CERTIFICATE:

The participants will obtain certificates signed by Huawei.

TRAINER:

Huawei Certified Trainer.

ADDITIONAL INFORMATION:

Massive Open Online Courses ([MOOCs](#)) series “Everyone Learns IT” works based on the Huawei Learning Cloud Service <http://www.huaweils.com/en>.

Huawei Learning Cloud Services is a set of online learning management system can help companies to build an efficient and easy to use talent management and learning and development online learning platform. Providing include HR management, training management, online learning , e-lab services.

User can access learning cloud from Windows, MAC, iOS, Android.

All Huawei MOOC courses are provided in English.

Duration: Min 4 weeks (20 days).