

## **HCIA-Storage v4**

Last Update: 2020-03-25

Duration: 5 Days

### **Objectives**

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

- (1).Understand how storage supports the development and application of Cutting-edge new technologies (Such as AI, Big data, cloud computing).
- (2).Understand the key role of storage in the entire IT development.
- (3).Master storage ecosystem knowledge and have a more in-depth and systematic understanding of storage common technical knowledge.
- (4).Master business continuity technology and application knowledge, and have a deeper understanding of the data center backup solution and disaster recovery solution.
- (5).Perform data center storage management and maintenance operations.

### **Target Audience**

Those who want to be storage engineer.

Those who want to achieve HCIA-Storage certification.

Administrator of storage array.

### **Prerequisites**

understand basic network knowledge, computer knowledge, basic knowledge of Windows/Linux.

### **Training Content**

#### *Storage cutting-edge technology and trends*

##### 1.Latest Storage Technologies and Trends

Definition of storage

Development history of storage

Evolution of storage technologies

Latest storage technologies and trends

Storage products and solutions

##### 2.Storage Technologies for AI, Big Data and the Cloud

ICT technologies development trends

Storage technologies and its application in the cloud

Storage technologies and its application in AI and Big Data

### *Storage ecosystem introduction*

- 1.Storage system structure
  - Storage System Architecture
  - Storage components
  - Huawei storage product introduction
- 2.Architecture of Storage Systems
  - Architecture of Storage Systems
  - Components of Storage Systems
  - Introduction to Huawei Storage Products
- 3.Introduction to common storage protocols
  - SAN storage protocols: SCSI, iSCSI, FC, SAS, IB, FCOE, etc.
  - NAS Storage Protocol: CIFS, NFS, FTP, HTTP, etc.
- 4.Storage networking technologies
  - DAS networking technology and application
  - SAN networking technology and application
  - NAS networking technology and application
- 5.Storage Reliability Technology
  - Traditional RAID Technologies
  - RAID 2.0+ Technologies
  - Host Multipathing Technologies
  - Disk Reliability Technologies
- 6.Common storage advanced technologies
  - Thin provisioning technology (SmartThin)
  - Storage Tier Technology (SmartTier)
  - Quality of Service Control Technology (SmartQoS)
  - Cache partitioning technology (SmartPartition)
  - Snapshot Technology (HyperSnap)
  - File System Quota Management Technology (SmartQuota)

### *Business continuity solution*

- 1.Business Continuity Plan Overview
  - Challenges of Business Continuity
  - Definition of Business Continuity
  - Overview of Business Continuity Solutions
  - Product Panorama of Huawei Business Continuity Solutions
- 2.Backup scheme technologies and applications
- 3.Disaster Recovery Solution Technology and Application

### *Storage system routine maintenance and troubleshooting in data center*

- 1.Data center basics

- 2.Data center storage system management
- 3.Daily maintenance of data center storage