

HCIE-Data Center Network



Online Course

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Course Modules

1.Data Center and Data Center Network Technologies

- DC Overview
- Data Center Network Overview
- Overview of Key DC Technologies

2.Huawei CloudFabric Hyper-Converged DCN Solution

- Development Trends and Challenges of DCNs
- Huawei CloudFabric Solution
- Solution Features

3.Technical Principles and Applications of VXLAN

- Background of VXLAN
- Basic Concepts and Fundamentals of VXLAN
- EVPN VXLAN Fundamentals
- Multicast VXLAN Fundamentals
- Application of VXLAN in DCI
- VXLAN Deployment Cases in Typical Scenarios

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4. Technical Principles & Applications of Micro segmentation

- Micro segmentation
- SFC

5. Technical Principles and Applications of Virtualization

- Server Virtualization
- Network Virtualization

6. Technical Principles & Apps of the OpenStack Cloud Platform

- Introduction to OpenStack
- Key Components of OpenStack
- OpenStack Applications

7. Technical Principles and Apps of Containers and Kubernetes

- Introduction to the Container Technology
- Introduction to the Container Management Platform

8. Technical Principles and Apps of HPC and AI Computing

- Overview of Computing Industry Development
- High-Performance Computing
- AI and Deep Learning



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9. Technical Principles and Applications of Storage

- Storage Basics
- Storage Technology Principles
- Storage Technology Applications in DCs

10. Technical Principles & Apps of the Intelligent and Lossless

- Development Trend of Intelligent & Lossless Network Technlgs
- Principles of Key Technologs of the Intellignt & Lossless Ntwrk
- Typical Scenarios of Intelligent Lossless Network

11. CloudFabric Computing and Hosting Network Solutions

- CloudFabric Soln Overview in the Network Virtualizatn Scenario
- CloudFabric Solution in the Computing Scenario
- CloudFabric Solution in the Hosting Scenario

12. CloudFabric Cloud-Network Integratn & Container Ntwrk

- CloudFabrc Cloud-Ntwrk Integratn Soln – OpnStack Scenario
- CloudFabric Container Network Solution

13. CloudFabric Data Center Network Deployment Guide

- Deployment Process Overview
- iMaster NCE-Fabric Pre-configuration and Interconnection
- Service Provisioning



14. CloudFabric Multi-Cloud and Multi-DC Solution

- Multi-DC Scenarios
- Multi-PoD Solution Introduction
- Multi-Site Solution Introduction
- Hybrid Cloud Solution Introduction

15. CloudFabric Supercomputing Network Solution

- Background and Challenges of Diversified Computing
- Lossless Network Solution Design for Diversified Computing
- Lossless Network Design Case for Diversified Computing

16. CloudFabric Storage Network Solution

- Overview of Storage Industry Development
- Intelligent and Lossless Network Soln for Distributed Storage
- Intelligent and Lossless Network Soln for Centralized Storage

17. CloudFabric Data Center Network Security Solution

- DCN Security Solution Overview
- DCN Security Design
- DCN Security Service Orchestration

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18. CloudFabric Data Center Network Planning and Design

- CloudFabric Solution and DCN Overview
- Network Architecture Design and Data Planning
- Underlay Network Design
- Overlay Network Design
- Multi-PoD and Multi-Site Design
- Network Security Design
- Network Management and O&M Design

19. CloudFabric Data Center Network IPv6 Evolution Solution

- IPv6 Address Planning for DCNs
- Key IPv6 Evolution Technologies for DCNs
- IPv6 Evolution Solution for DCNs
- IPv6 Service Rollout on DCNs (CloudFabric Cloud-Network Intgrn)

20. CloudFabric Intelligent Data Center Network O&M Solution

- DCN O&M Challenges & CloudFabric Intelligent DCN O&M Solution
- iMaster NCE-Fabric
- iMaster NCE-FabricInsight



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21. Data Center Network Typical O&M

- DCN Typical O&M Scenarios
- DCN Management and Monitoring
- DCN Typical Troubleshooting

22. Data Center Network Automated O&M

- Overview of Network Service Open Programmability
- Network Service Open Programmability of iMaster NCE-Fabric
- Netwrk Service Open Programmability of iMaster NCE-Fabric

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