

# 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 Technolgs 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



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## 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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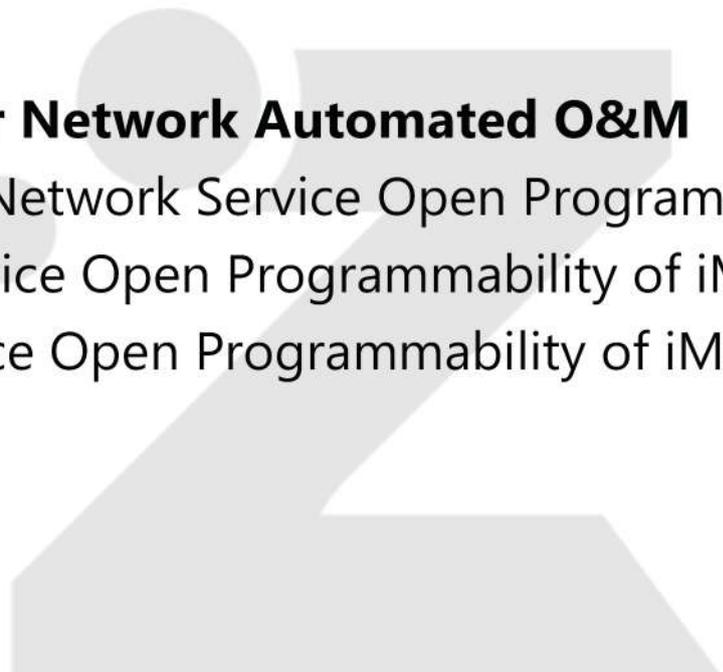
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## 21. Data Center Network Typical O&M

- 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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