FIREFLY

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Understanding Cisco Cloud Fundamentals

DURATION: 5 DAYS COURSE CODE: CLDFND FORMAT: LECTURE/LAB

COURSE DESCRIPTION

Understanding Cisco Cloud Fundamentals is designed for Cloud Operations Engineers, Cloud Technical Administrators, Cloud Infrastructure Architects and Cisco Integrators and Partners who provide operations and support of Cisco Cloud Products and Solutions. This course provides students with the necessary knowledge and skills required to perform foundational tasks related to Cloud computing and to help students prepare for the CCNA Cloud certification, an associate level certification specializing in Cloud technologies.

This course is worth 30 Credits in the Continuing Education Program.

PREREQUISITES

Understanding of networking, computing and storage fundamentals - CCNA R/S or CCNA DC recommended.

TESTING AND CERTIFICATION

Recommended preparation for the following exams:

210-451 - CLDFND

This is one of two exams required for the Cisco Certified Network Associate Certification for Cloud.

TARGET AUDIENCE

Engineers who plan, design, implement and support cloud deployments, as well as those looking to develop a career in cloud or enhance their current Data Center skills.

FOLLOW-ON-COURSES

Students looking to obtain the Cisco's CCNA Cloud Certification should also attend:

CLDADM - Introducing Cisco Cloud Administration

LEARNING OBJECTIVES

After completing this course, you should be able to:

Describe common cloud characteristics

List cloud service models

Compare cloud deployment models

Illustrate key features of UCS

Define server virtualization

Describe network architectures for the datacenter

Describe Cisco ACI

Describe Infrastructure Virtualization

Define virtual networking services

Define Virtual Application Containers

Analyze storage provisioning concepts

Describe basic SAN storage concepts

Define basic NAS storage concepts

Compare the difference between all the storage access technologies

Identify the various Cisco storage network devices

Describe various reference architectures for converged infrastructure

COURSE OUTLINE

1. Introduction to Cloud Computing
    - Introducing Cloud Computing Basic Concepts
    - Describing Cloud Service Models
    - Comparing Cloud Deployment Models
    - Exploring the Cisco Intercloud Solution
2. Cloud Networking
    - Describing Cisco Data Center Network Architecture
    - Exploring Virtual Networking
    - Identifying Cisco Nexus 1000V Series Switches
    - Define and Analyze Cisco Virtual Networking Service Appliances
    - Define and Analyze Software Defined Network Fundamentals
    - Describing the Cisco ACI Solution
3. Cloud Storage
    - Comparing Storage Options
    - Describing Fibre Channel Storage Networking Concepts
    - Exploring NAS Storage Basic
    - Concepts Identifying Cisco MDS and UCS Invicta Products
4. Cloud Compute
    - Describing Cisco UCS C-Series Product Family
    - Identifying Cisco UCS B-Series Product Family
    - Explaining Cisco UCS Blade
    - Provisioning Defining Server Virtualization
5. Cloud Automation and Reference Architectures
    - Exploring Reference Architecture for Converged Infrastructure
    - Describing Cloud Automation, Provisioning, and Management Platforms

DISCOVERY LABS

1: Examine Cisco Intercloud Fabric Director

2: Explore the Cisco UCS Manager GUI

3: Review Cisco UCS Series Configuration

4: Deploy VMware ESXi Server on Cisco UCS Series Servers

5: Examine the Cisco Prime Network Services Controller

6: Deploy Cisco Virtual Security Gateway

7: Deploy Cisco ASA 1000V Cloud Firewall