FlexPod Test Drive for Technical Decision Makers

FXTD-TDM

Length:
2 Days

Format:
Lecture/Lab

Course Version:
2.2r2

Why Firefly

Firefly instructors bring a wide range of industry experience to this course. Their unique skill is to blend this experience with the course content in a highly interactive style. This delivers great value to all attendees as their questions are answered directly during the course.

Course Description

The haphazard siloed IT infrastructures that dominate todays data centers increase complexity while making it difficult to meet the demands of business. These demands include rapid application deployment, increased reliability, seamless scalability and managed costs. IT teams are changing with a continuing need to be a positive contributor to the business rather than a cost. This course introduces the next generation technologies that comprise the FlexPod architecture. The thinking behind FlexPod directly addresses the IT team's need to offer flexible responsive service to the business as part of the change strategy for the Data Center.

Attendees will be given a technical review of exactly what FlexPod comprises and the unique values that this provides to both IT and the business. The NetApp-Cisco architecture brings together best of breed features from the Cisco Unified Computing System, Cisco Nexus switches, and NetApp storage.

Get Your Hands on the Wheel: This workshop will include hands-on time in a demonstration lab with a FlexPod solution. The labs will allow you to see the basic configuration, management, provisioning, fault tolerance, and service assurance features of a FlexPod architecture.

Who Should Attend

This workshop is intended for end user technical decision makers and solution architects who are responsible for developing data center solutions that span compute, network, and storage IT infrastructure.

Prerequisites

There are no mandatory prerequisites, but a familiarity with data center architecture, x86 servers, virtualization and storage designs will be of value.

Learning Objectives

- Describe how FlexPod solutions are designed to meet today's business requirements
- Describe Cisco UCS
- Describe how FlexPod NetApp components
- Describe how Data Center Bridging, Nexus switches, and FlexPod work together for data center virtualization
- Describe the Cisco-NetApp-VMware Secure Multi-Tenant (SMT) architecture
- Define the Journey, Benefits, and Barriers to Cloud Adoption

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Demystify Technology

Cisco Unified Workspace Sales Acceleration Training

Lesson 1: FlexPod Architectural Overview

- Post-Virtualization Data Center Challenges
- FlexPod Architecture Overview
- FlexPod Coordinated Support Solution
- FlexPod Technology Integration
- FlexPod Architectural Positioning and Technology Differentiation

Lesson 2: Cisco UCS—Unified Computing System

- Cisco UCS
- Cisco UCS B-Series Chassis
- Cisco UCS B-Series Blades and C-Series Standalone Servers
- UCS B-Series Servers
- UCS C-Series Servers
- FlexPod Support for Virtualization and Validated Workloads
- VMware vSphere Built on FlexPod
- VMware View Built on FlexPod
- Citrix XenDesktop Built on FlexPod
- FlexPod with Microsoft Private Cloud

Lesson 3: FlexPod NetApp Components: Storage Versatility

- Storage Platform for the Evolving Data Center
- NetApp Storage Enhancements—Why NetApp?
- New Entry Level FAS2240
- Data ONTAP Cluster Mode

Lesson 4: Cisco Nexus—FlexPod Network Virtualization

- FlexPod Network Virtualization
- FlexPod Network Design
- Extending FlexPods with the Cisco Nexus 2000
- FlexPod Virtual Machine Network Integration with Cisco Nexus 1000V/1010
- Enhancing FlexPod's Virtual Network Connectivity with Virtual Networking Services

Lesson 5: Secure Multi-Tenant Solutions Based on VMware Built on FlexPod

- FlexPod and Secure Multi-Tenancy: Detailed
- SMT in the Virtualized and Non-Virtualized World
- The Four Pillars of Secure Multi-Tenancy in FlexPod
- SMT: Deployment and Support

Lesson 6: Journey to the Cloud and Realizing Cloud Benefits with Orchestration

- The Journey to the Cloud and Orchestration
- Orchestration Offerings
- Cisco IAC Orchestration Capabilities

Lab 1: Connecting to the Lab Environment

Lab 2: Exploring FlexPod Nexus Configuration

Lab 3: Exploring FlexPod UCS Configuration

Lab 4: Deploying a UCS Service Profile

Lab 5: Using NFS Datastores and SIS

Lab 6: Exploring NetApp DataFabric Manager

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