



VxBlock Systems Test Drive™ for Technical Decision Makers



VB-TD

Length: 2 days

Format: Lecture/Lab

Course Description

The “accidental architecture” that dominates today’s data centers increases complexity and cost, while making it difficult to meet increasingly strict service-level agreements. The complexity of today’s data center architectures makes it impossible for IT to respond to the needs of the business in a timely manner, and relegates IT to the role of cost center rather than innovator.

To meet these challenges, data centers are moving toward pervasive virtualization and cloud computing—for delivering IT Infrastructure as a Service. This new model requires innovative approaches to the underlying technology and to the delivery model for customer success.

VxBlock Systems from Dell EMC combine industry-leading virtualization, networking, compute, storage, security, and management technologies with end-to-end vendor accountability—to create a pre-integrated, ready-to-deploy solution.

The goal of this workshop is to help you understand the fundamentals and advantages of VxBlock Systems and their key enabling technologies. This course includes hands-on lab exercises using demo pods that have been designed for you to explore VxBlock management capabilities.

Prerequisites

You will gain the most from this seminar if you are familiar with basic storage networking concepts, have at least a CCNA-level knowledge of routing and switching, and some familiarity with VMware®.

Who Should Attend

This workshop provides solutions-oriented training that is designed for technical decision makers who are end-user DC Architects and Senior Engineers responsible for developing data center solutions that span compute, network, and storage.

Learning Objectives

- Provide an introduction to the VxBlock Systems Value Proposition
- Describe VxBlock Systems Architecture
- Describe the Cisco UCS with Intel® Xeon® Processors B-Series Blade Server hardware components and C-Series Rack-Mount Servers
- Provide a detailed description of VxBlock Systems LAN and SAN networking components
- Provide a description of VxBlock Systems Storage components and features
- Discuss the UCS Director solution and provide an overview of the UCSD
- Describe the Advanced Management Platform (AMP) and the VxBlock Systems Management Model
- Discuss Dell EMC Vision™ Intelligent Operations Software

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Lessons

Lesson 1: VxBlock Systems Value Proposition

- Brief Intro to Dell EMC
- Market Overview and Technology Overview
- Dell EMC Converged Solutions

Lesson 2: VxBlock Systems Architecture

- VxBlock Systems Architecture
- Storage Tech Extension
- Compute Tech Extension

Lesson 3: VxBlock Systems Compute

- Cisco UCS in a VxBlock System Infrastructure
- UCS B-Series Components
- UCS B-Series Models
- UCS C-Series
- UCS Manager and Service Profiles

Lesson 4: VxBlock Systems Network

- Cisco MDS 9000 Switches
- Cisco Nexus 5000 and Nexus 7000 Switches
- Cisco Nexus 9300 Switches
- Fabric Interconnect: End Host Mode
- ACI Concepts and Principles
- AMP Network Switch

Lesson 5: VxBlock System Storage

- VxBlock System Overview
- VxBlock System 240
- VxBlock System 350
- VxBlock System 540
- VxBlock System 740
- Technology Extensions
- Data Protection
- Disaster Recovery Strategies and Options

Lesson 6: VxBlock Systems Management with UCS Director

- Cisco UCS Director
- Cisco UCS Director Infrastructure
- Cisco UCS Director Installation and Setup

Lesson 7: VxBlock Systems Management

- VxBlock Systems Management Infrastructure AMP-2
- VxBlock Systems Management Stack
- Dell EMC Vision Intelligent Operations Orchestration
- Security and Multi-Tenancy Solutions

Lesson 8: Dell EMC Vision™ Intelligent Operations Software

- Dell EMC Vision Intelligent Operations Software Converged Operations
- Dell EMC Vision Intelligent Operations Capabilities
- Dell EMC Vision Intelligent Operations and VMware vCenter Integration
- Dell EMC Vision Multisystem Management
- Dell EMC Vision Multisite Management Deployment Scenarios

Labs

Lab 1: Connect to Lab Environment

Lab 2: Converged Infrastructure Discovery

Lab 3: Deploy UCS Service Profile

Lab 4: Utilizing NFS Datastores

Lab 5: Compute Life Cycle Management

Lab 6: Dell EMC Vision

Demonstrations

Demo 1: Dell EMC Vision Intelligent Operation Demo

Cisco UCS Runs on Intel® Xeon® Processors

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