

VxBlock and Vblock Systems Test Drive™ Program for Technical Decision Makers

Contact Us

VB-TD

Length: 2 days

Format: Lecture/Lab

Why Firefly

Converged Infrastructure has rapidly emerged as a hot concept in Data Center architecture, and Dell EMC has risen to the top of the heap. But the term ‘Converged Infrastructure’ is applied to wide range of solutions, and customers may end up more mystified than ever over a solution that’s supposed to eliminate complexity. Our VxBlock and Vblock Test Drive™ program helps customers cut through the hype and explores how Dell EMC reinvents the Data Center as a plug-and-play architecture.

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 “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 and Vblock 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 and Vblock Systems and their key enabling technologies. This course includes hands-on lab exercises using demo pods that have been designed for you to explore their 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.

Related Training

Cisco UCS for Implementation Professionals (UCS-IP)

Cisco UCS Runs on Intel® Xeon® Processors

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Learning Objectives

- Provide an introduction to the VxBlock and Vblock Systems value proposition
- Provide a description of VxBlock and Vblock Systems value proposition
- Describe VxBlock and Vblock 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 and Vblock Systems LAN and SAN networking components
- Provide a description of the VxBlock and Vblock Systems Storage components and features
- Discuss the UCS Director solution and provide an overview of the UCSD
- Describe the Advanced Management Pod (AMP), the VxBlock and Vblock Systems Management Model, and the Unified Infrastructure Manager
- Discuss Dell EMC Vision Intelligent Operations Software

Lessons

Lesson 1: Introduction to the Dell EMC Converged Systems

Introduction to Dell EMC Converged Systems
Market Overview and Technology Directions
Introduction to VxBlock and Vblock Systems and Converged Technology Extensions

Lesson 2: VxBlock and Vblock Systems

VxBlock and Vblock Systems Overview
Summary

Lesson 3: VxBlock and Vblock Systems Compute Architecture: Cisco UCS

VxBlock and Vblock System Topology with Cisco UCS
Cisco UCS B-Series Components
Cisco UCS B-Series Blade Servers and Rack-Mount Server
Cisco UCS Manager and Service Profiles

Lesson 4: VxBlock and Vblock Systems SAN and LAN Networking

VxBlock and Vblock Systems Network Architecture
Cisco MDS Switches
Cisco Nexus
Cisco Nexus Virtual Stitch
Fabric Interconnect - End Host mode
ACI Concepts and Principles

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Lesson 5: VxBlock and Vblock Systems Storage

- VxBlock and Vblock Systems Storage and Software
- VxBlock and Vblock Systems 240
- VxBlock and Vblock Systems 340
- VxBlock and Vblock Systems 350
- VxBlock and Vblock Systems 540
- VxBlock and Vblock Systems 740
- Dell EMC Converged Technology Extensions for Storage
- Dell EMC Converged Technology Extensions for Compute
- Data Protection and Recovery Strategies/Options

Lesson 6: VxBlock and Vblock Systems: Cisco UCS Director

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

Lesson 7: VxBlock and Vblock Systems Management

- VxBlock and Vblock Systems Management Infrastructure
- VxBlock and Vblock Systems Management Stack
- Dell EMC Vision Intelligent Operations
- Orchestrations, Security and Multitenancy Solutions

Lesson 8: Vision Intelligent Operations Software

- Converged Operations
- Vision and VMware vCenter Integration
- Vision Capabilities
- Vision Multi-system Management
- Vision Deployment Scenarios

Labs

Lab 1: Connect to Lab Environment

Lab 2: Environment Discovery

Lab 3: Deploy UCS Service Profile

Lab 4: Utilizing NFS Datastores to Mount Storage

Lab 5: Create a Virtual Data Center and Service Catalog

Demonstrations

Demo 1: Dell EMC Vision Intelligent Operation Demo

Cisco UCS Runs on Intel® Xeon® Processors

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