3 Days

VMware Data Center Virtualization Fundamentals [V6] (Self-Paced)

This VMware course is a self-paced (eLearning) program on DCV – Data Center Virtualization technology and provides you with basic knowledge of VMware's DCV products and concepts. In this course, you get insights on the components and feature of vSphere 6.0 and displays how the vSphere 6.0 product line assists in resolving day-to-day IT challenges and business issues experienced every other day in the organizations.

Course Details

Course Outline

1. Course Introduction

- Course Overview
- Course Outline
- Course Objectives

2. Data Center Virtualization with VMware vSphere Introduction

- Virtualization Overview
- VMware Vision
- Virtualization: The Foundation of Cloud Computing
- Introduction to Virtual Machines
- Data Center Virtualization Overview
- Virtual Machine Capabilities
- Hypervisor
- ESXi Hypervisor
- vSphere 6.0 Capabilities and Benefits

3. Components of VMware vSphere

- vSphere 6.0: Overview and Architecture
- vSphere 6.0 Configuration Maximums
- Topology of vSphere 6.0 Data Center
- vCenter Server Features
- Alarms and Alertso Monitoring Features
- Linked Mode Deployment
- Template Management
- Storage Features in vSphereo Shared Storage
- Storage Protocols
- Virtual SAN
- Networking Features in vSphere
- Virtual Networking and Switches
- Virtual Switch Types
- NSX Introduction
- vSphere Resource Management Features
- Distributed Resource Scheduler (DRS)

- Distributed Power Management (DPM)
- Storage vMotiono Storage DRS
- Storage and Network I/O Control
- vSphere Availability Features
- vSphere Data Protection
- Fault Tolerance
- High Availability
- vSphere Replication
- vSphere with Operations Management
- Data Center Virtualization Products: Overview
- vRealize Suite
- Software Defined Storage-Virtual SAN
- Software-Defined Networking
- Big Data Extensions
- VMware Integrated OpenStack (VIO)
- Hyperconverged Offerings (EVO:RACK and EVO:RAIL)
- Cloud Services - vCloud Air

4. vSphere Solutions to Data Center Challenges

- Scalability Challenges
- Availability Challenges
- Optimization Challenges
- Management Challenges
- Cloud Challenges
- Application Upgrade Challenges

Exams

VMware Certified Professional (VCP) [VCP6-DCV]

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