



COURSE CURRICULUM

Introduction to the course

- Welcome to this Course
- Everyone has an accent
- Your Feedback is Important

Introduction To Virtualization

- How To Build A Virtual Environment
- Hardware Virtualization
- VMware vSphere Components and Features

Build Your Very Own VMware Hands-On-Labs

- Build Your VMware vSphere 6.5 Home Lab
- VMware Hands On Lab HOL
- My VMware vSphere 6.5 Lab Setup
- Downloading VMware Workstation And Hypervisor ESXi 6.5 For Free
- Create A Virtual Host With The ESXi 6.5 Hardware Requirements

Install and Configure ESXi 6.5 Hypervisor

- ESXi 6.5 Installation Step By Step
- ESXi 6.5 System Customization: Network management
- ESXi 6.5 System Customization: Troubleshooting and System Logs
- Login To ESXi 6.5 With vSphere Web Client
- Overview of ESXi 6.5 User Interface: Assign a License Key

Creating Virtual Machines

- Creating a New Virtual Machine: Choose The Name and The OS
- Creating a New VM: Thick And Thin-Provisioned Disks, CPU, RAM
- Overview Of A Virtual Machine Options
- VMware Remote Console To Complete The Guest Operating System Installation
- Maximum Number Of Virtual Machines Per Host
- Power On/Off A Virtual Machine
- Install VMware Tools In A Windows Virtual Machine
- Files That Make Up A Virtual Machine
- OVF and OVA File Formats and Templates
- Creating New Virtual Machines For Our Lab

vCenter Server 6.5: Installation & Management

- Introduction to vCenter Server 6.5: Windows Hardware Requirements
- Setting Up Domain Controller Functionality
- Joining The Vcenter Machine to an Active Directory Domain
- Downloading VMware vCenter Server 6.5 For windows
- Install vCenter Server 6.5 for Windows
- Configuring vCenter 6.5 Single Sign On
- vCenter 6.5 Single Sign-On Web client

- Overview of vCenter Server 6.5 User Interface
- Add an ESXi Host to the vCenter Server Inventory (Datacenter)
- Difference Between ESXi And vCenter Server User Interface
- Managing ESXi Hosts in vCenter Server
- Creating A Virtual Machine In vCenter Server
- Work in Progress Panel

vCSA 6.5 - vCenter Server Appliance

- Introduction to vCenter Server Appliance 6.5
- Download and Deploy the VMware vCenter Server Appliance
- vCenter Server Appliance 6.5 Installer
- Configuration of vCenter Server Appliance 6.5: SSO and Network Details
- Log in to vCenter Server and vCenter Server Appliance Management

Cloning A Virtual Machine

- Understanding Clones - VMware
- Cloning a Windows Virtual Machine: Destination Host
- Cloning a Windows Virtual machine: Storage Options
- Create a Customization Specification for Windows in the vSphere Client
- New VM Guest Customization Specification: Network Configuration
- Run and Complete The Process of Cloning a VM
- Cloning a Linux Virtual machine
- Customization Specification Manager vSphere 6.5
- Clone a Powered On Virtual Machine

Virtual Machine Template

- Introduction To VMware Template
- Clone A Virtual Machine To A Template
- Deploy a Virtual Machine from a Template
- Clone to Template in Content Library

Scheduled Tasks & VM Startup Shutdown

- Scheduling a Clone Task
- Other Scheduler Task Available
- Virtual Machine Startup
- Virtual Machine Shutdown

User Permissions And Privilege

- Introduction to User Permissions
- Create User, Manage Permission at ESXi 6.5 Level
- Create and Customize User Roles
- Log in With a Custom User Roles
- Create User, Manage Permission at vCenter Server 6.5 Level
- Create a New User and Roles at vCenter Server 6.5 Level
- Virtual Machine Power User
- Benefits of Having More vCenter Users
- Create A User for A Specific ChildItem
- User with Different Roles in Different Items

Firewall & Lockdown Mode

- Introduction to Security Profile
- Security Profile: Firewall Profiles
- Enabling or Disabling a Service in the Security Profile
- Enabling or Disabling Lockdown Mode on an ESXi Host
- Host Image Profile and Host Encryption Level

vNetwork Standard Switches

- Introduction To Virtual Network Standard Switches
- Types of Virtual Switch Available in VMware ESXi 6.5
- ESXi 6.5 Host Networking Concepts Overview

- The VMkernel, The Port Group and The Physical Adapters
- Adding More Physical Network Adapter Into Your Lab
- Configure Virtual Switch Security and Load-Balancing Policies
- Add a Physical Adapter to A Standard Switch for Redundancy
- Types of Virtual Standard Switch Connections
- Create and Manage A New Standard switch From ESXi 6.5 UI
- Add a Virtual Machine Port Group to a Standard Switch
- Add a VMkernel Port Group to a Standard Switch
- Creating a Private Network Port Group
- Create and Manage a Standard switch From vCenter Server 6.5 UI

vNetwork Distributed Switch

- Overview of vNetwork Distributed Switch concepts
- Add a New vSphere Distributed Switch
- Create A New Distributed Port Group
- Uplink Port Group: Add Hosts to a vSphere Distributed Switch
- Migrate VMs to Another Network
- Migrate VMkernel Adapters to Another Network
- Export and Restore Distributed Switch Configuration

vSphere Storage: External and Shared Storage

- Introduction to External and Shared Storage
- VMware Storage Technologies Overview
- vSphere iSCSI SAN components
- vSphere NFS storage components
- Fibre Channel (FC) SAN Components
- Create A New VMFS Local Datastore
- Freenas & StarWind Virtual SAN
- StarWind: Create A Virtual SAN
- Create Target LUNs (Logical Unit Number)
- Mapping LUN or vSAN to ESXi Host
- Deploying a Virtual Machine on Virtual SAN (vSAN)
- Creating and Mapping a Second LUN to ESXi Host

Conclusion and Bonus

- Bonus Lecture: The Complete VMware vSphere 6.5 Course Beginner to Advanced P 2/2

Partners :



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