Virtualizing Enterprise Desktops and Apps

Duration: *5 Day(s)*

Course Overview

This five-day, hands-on training course is designed to teach you the breadth of Microsoft virtual desktop technology, and the course will compare and contrast the various technologies with use cases and best practices. This course builds your skills in Microsoft Application Virtualization (App-V) Service Pack 2 (SP2), Microsoft User Experience Virtualization (UE-V), and Virtual Desktop Infrastructure (VDI) as part of Windows Server 2012 R2. Throughout this course, you will learn how to manage, monitor, support, and troubleshoot various Windows-based desktop virtualization solutions.

Review this course online at https://www.alta3.com/courses/20694

Objectives

- Understand desktop and application virtualization.
- Implement user state virtualization and App-V.
- Deploy and manage virtual desktops using Microsoft technologies.
- Monitor and troubleshoot VDI infrastructure.

Who Should Attend

- IT Administrators
- System Implementers
- Infrastructure Managers
- Virtualization Specialists

Prerequisites

- Networking fundamentals, including Transmission Control Protocol /Internet Protocol (TCP/IP), User Datagram Protocol (UDP), and Domain Name System (DNS).
- Active Directory Domain Services (AD DS) principles and fundamentals of AD DS management.
- Installation, configuration, and troubleshooting for Windows-based personal computers.
- Basic understanding of scripting and Windows PowerShell syntax.
- Desired: Basic understanding of Windows Server roles and services.

Course Outline

Module 1: Overview of Desktop and Application Virtualization

1. Overview of Virtualization Technologies
2. Usage Scenarios for Virtualization
3. Considerations for Implementing Virtualization

Module 2: Planning and Implementing User State Virtualization

4. Understanding and Planning for User State Virtualization
5. Configuring Roaming User Profiles and Folder Redirection
6. Configuring UE-V

Module 3: Planning and Implementing App-V

7. Overview of Application Virtualization
8. App-V Architecture
9. Planning App-V Infrastructure
10. Deploying App-V Infrastructure

Module 4: Managing and Administering Application Virtualization

11. Managing and Administering App-V
12. Modifying Published Application and Configuration Upgrades
13. Implementing App-V Reporting

Module 5: Planning and Deploying App-V Clients

14. Overview of the App-V Client
15. Installing and Configuring the App-V Client
16. Managing App-V Client Properties

Module 6: Application Sequencing

17. Overview of Application Sequencing
18. Planning for Application Sequencing
19. Sequencing an Application
20. Advanced Application Sequencing

Module 7: Configuring Client Hyper-V

21. Overview of Client Hyper-V
22. Creating VMs
23. Managing Virtual Hard Disks
24. Managing Checkpoints

Module 8: Planning and Deploying Session-Based Virtual Desktops

25. Overview of Remote Desktop Services
26. Planning an Infrastructure for Session-Based Desktop Deployments
27. Deploying Session-Based Desktops

28. Overview of Remote Desktop Services High Availability

Module 9: Configuring and Managing RemoteApp Programs

29. Publishing and Configuring RemoteApp Programs
30. Working with RemoteApp Programs

Module 10: Planning Personal and Pooled Virtual Desktops

31. Overview of Personal and Pooled Virtual Desktops
32. Planning and Optimizing Virtual Desktop Templates

Module 11: Planning and Implementing Infrastructures for Personal and Pooled Virtual Desktops

33. Planning Storage for Personal and Pooled Virtual Desktops
34. Capacity Planning for Personal and Pooled Virtual Desktops
35. Implementing Personal and Pooled Virtual Desktops
36. Implementing RemoteApp for Hyper-V

Module 12: Implementing Remote Access for Remote Desktop Services

37. Extending Remote Desktop Services Outside the Organization
38. Controlling RD Gateway Access

Module 13: Performance and Health Monitoring of VDI

39. Overview of Monitoring Desktop and Application Virtualization
40. Monitoring a Desktop Virtualization Infrastructure