Virtualizing Enterprise Desktops and Apps (MS-20694)

Modality: Virtual Classroom

Duration: 5 Days

SATV Value: 5

About this course:

This training for IT Ops makes you able to figure out how to deal with, take care of, help and get rid of the issues of different Windows-based desktops virtualization resolutions. It will additionally cover the abilities and instructing of the width of MS virtual desktop innovation. This training course of IT Ops will upgrade your aptitudes and practice in Microsoft User Experience Virtualization (UE-V), Microsoft Application Virtualization (App-V) Service Pack 2 (SP2), and VDI (Virtual Desktop Infrastructure). This course for five days covers every theme's hand-on practice and detailed lectures with different technologies for better practice and understanding.

Targeted Audience

The course is intended for experts who want to figure out how to organize, design, and handle virtual structure arrangements dependent on technologies and the individuals who wish to increase ongoing desktop virtualization technologies and Microsoft applications, including:

- IT managers.
- IT implementers / engineers

Course Objective

After the finishing of this course, learners will be capable of:

1. Design and implement App-V
2. Design and implement client of App-V

3. Design and implement user state virtualization.
4. Execute and design pooled and personal desktops.
5. Plan and accomplish session-dependent desktops.
6. Explain desktop and application virtualization.
7. Explain health supervising for VDI structure.
8. Manage and handle app virtualization.
9. Explain the sequencing of the app.
10. Perform remote access.
11. Establish client Hyper-V
12. Organize and Establish Remote App programs.

Prerequisite

The participants may have a comprehension of Windows Server roles and services however they should have in advance understanding and information on the accompanying ideas and technologies:

1. General information on Windows PowerShell scripting and syntax.
2. Operating, setting up, and getting rid of issues for Windows-depended personal systems.
3. Networking basics involving UDP (User Datagram Protocol), DNS (Domain Name System), and TCP/IP (Transmission Control Protocol /Internet Protocol).

The basics handling and knowledge of AD DS (Active Directory Domain Services

Course Outline:

Module 1: Overview of Desktop and Application Virtualization

This module explains virtualization technologies that they can use to meet the needs of your organization. Which technologies are relevant to their organization will vary with their needs. To use these virtualization technologies properly in the student's organization, they will need to understand which technologies are available and when to use them.

Lessons

- Overview of Virtualization Technologies
- Usage Scenarios for Virtualization
- Considerations for Implementing Virtualization

Lab : Overview of Desktop and Application Virtualization

After completing this module, students will be able to:

- Identify Microsoft virtualization technologies.
- Identify usage scenarios for virtualization technologies.
- Identify desktop and application virtualization considerations.

Module 2: Planning and Implementing User State Virtualization

This module explains user state virtualization, and which technologies are part of it and what are benefits of user state virtualization. They will also be able to plan and implement user state virtualization technologies.

Lessons

- Understanding and Planning for User State Virtualization
- Configuring Roaming User Profiles and Folder Redirection
- Configuring UE-V

Lab : Configuring Roaming User Profiles and Folder RedirectionLab : Planning and Implementing User State Virtualization

After completing this module, students will be able to:

- Understand and plan for user state virtualization.
- Configure roaming user profiles and folder redirection.
- Configure UE-V.

Module 3: Planning and Implementing App-V

This module explains application virtualization and describes App-V components. This module also describes App-V infrastructure, deployment scenarios, and procedures for installing and configuring Microsoft Server Application Virtualization agents (App-V agents).

Lessons

- Overview of Application Virtualization
- App-V Architecture
- Planning App-V Infrastructure
- Deploying App-V Infrastructure

Lab : App-V Introduction and Architecture

After completing this module, students will be able to:

- Understand application virtualization.
- Understand App-V Architecture.
- Plan App-V infrastructure.
- Deploy App-V infrastructure.

Module 4: Managing and Administering Application Virtualization

This module provides an overview of the App-V Management Console and the permissions that users must have to administer an App-V Management Server. The module also covers the steps you must take to perform these administrative tasks and how to manage packages and connection groups.

Lessons

- Managing and Administering App-V
- Modifying Published Application and Configuration Upgrades
- Implementing App-V Reporting

Lab : Managing and Administering Application Virtualization

After completing this module, students will be able to:

- Manage and administer application virtualization.
- Modify published application and configuration upgrades.
- Implement App-V reporting.

Module 5: Planning and Deploying App-V Clients

This module explains the recommendations for deploying and managing the App-V Client. This module also provides students with an overview of the App-V Desktop Client, App-V Remote Desktop Client, and the several installation methods for each.

Lessons

- Overview of the App-V Client
- Installing and Configuring the App-V Client
- Managing App-V Client Properties

Lab : Planning and Deploying App-V Clients

After completing this module, students will be able to:

- Understand the App-V Client.
- Install and configure the App-V Client.
- Manage App-V Client Properties.

Module 6: Application Sequencing

This module explains how to install and configure the App-V Sequencer to create application packages.

Lessons

- Overview of Application Sequencing
- Planning for Application Sequencing
- Sequencing an Application
- Advanced Application Sequencing

Lab : Application Sequencing

After completing this module, students will be able to:

- Understand application sequencing.
- Plan for application sequencing.
- Sequence an application.
- Understand application sequencing.

Module 7: Configuring Client Hyper-V

This module explains Client Hyper-V in Windows 8.1 and explain the fundamentals of working with virtual machines (VMs) in a Client Hyper-V environment. You should be aware that all the features that are covered in this module are also available in Hyper-V on Windows Server 2012 R2.

Lessons

- Overview of Client Hyper-V
- Creating VMs
- Managing Virtual Hard Disks
- Managing Checkpoints

Lab : Configuring Client Hyper-V

After completing this module, students will be able to:

- Understand Client Hyper-V.
- Create virtual machines.
- Manage virtual hard disks.
- Manage checkpoints.

Module 8: Planning and Deploying Session-Based Virtual Desktops

This module explains how to plan for session-based desktop deployment of Remote Desktop Services (RDS). They will also learn to perform session-based desktop deployment.

Lessons

- Overview of Remote Desktop Services
- Planning an Infrastructure for Session-Based Desktop Deployments
- Deploying Session-Based Desktops

- Overview of Remote Desktop Services High Availability

Lab : Planning and Deploying Session-Based Desktops

After completing this module, students will be able to:

- Understand RDS.
- Plan infrastructure for session-based desktops.
- Deploy session-based desktops.
- Describe RDS high availability.

Module 9: Configuring and Managing RemoteApp Programs

This module explains how to publish and work with RemoteApp programs.

Lessons

- Publishing and Configuring RemoteApp Programs
- Working with RemoteApp Programs

Lab : Configuring and Managing RemoteApp Programs

After completing this module, students will be able to:

- Publish and configure RemoteApp programs.
- Work with RemoteApp programs.

Module 10: Planning Personal and Pooled Virtual Desktops

This module explains how to plan the implementation of pooled and personal desktops.

Lessons

- Overview of Personal and Pooled Virtual Desktops
- Planning and Optimizing Virtual Desktop Templates

Lab : Planning Personal and Pooled Virtual Desktops

After completing this module, students will be able to:

- Understand personal and pooled desktops.
- Plan and optimize desktop templates.

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

This module explains how to implement and manage pooled and personal desktops.

Lessons

- Planning Storage for Personal and Pooled Virtual Desktops
- Capacity Planning for Personal and Pooled Virtual Desktops
- Implementing Personal and Pooled Virtual Desktops
- Implementing RemoteApp for Hyper-V

Lab : Planning and Implementing Infrastructures for Personal and Pooled Virtual Desktops

After completing this module, students will be able to:

- Plan storage for personal and pooled desktops.
- Understand capacity planning for pooled and personal desktops.
- Implement pooled and personal desktops.
- Implementing RemoteApp for Hyper-V.

Module 12: Implementing Remote Access for Remote Desktop Services

This module explains how to plan and implement RD Gateway.

Lessons

- Extending Remote Desktop Services Outside the Organization
- Controlling RD Gateway Access

Lab : Implementing Remote Access for RDS

After completing this module, students will be able to:

- Describe how to extend RDS outside the organization.
- Explain how to control RD Gateway access.

Module 13: Performance and Health Monitoring of VDI

This module explains how to monitor the performance of virtual desktop infrastructure to ensure performance.

Lessons

- Overview of Monitoring Desktop and Application Virtualization

- Monitoring a Desktop Virtualization Infrastructure

Lab : Performance and Health Monitoring of VDI

After completing this module, students will be able to:

- Understand desktop monitoring and application virtualization.
- Monitor desktop virtualization infrastructure.