20694 Virtualizing Enterprise Desktops and Apps

Overview

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.

Prerequisite Comments

Before attending this course, students must have a system administrator–level working knowledge of:
- 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.

Target Audience

This course is intended for the IT administrators, and implementers, of large and midsized organizations who want to understand and get hands on experience with the latest Microsoft desktop and application virtualization technologies and how to plan, implement, and manage virtual infrastructure solutions based on these technologies.

Course Objectives

After completing this course, students will be able to:
- Describe desktop and application virtualization.
- Plan and implement user state virtualization.
- Plan and implement App-V.
- Plan and deploy App-V clients.
- Manage and administer application virtualization.
- Understand application sequencing.
- Configure client Hyper-V.
- Plan and deploy session-based desktops.
- Publish and configure RemoteApp programs.
- Plan pooled personal desktops.
- Plan and implement pooled and personal desktops.
- Implement Remote Access.
- Understand health monitoring of VDI infrastructure.

Course Outline
Overview of Desktop and Application Virtualization

Overview of Virtualization Technologies
Usage Scenarios for Virtualization
Considerations for Implementing Virtualization
Lab : Overview of Desktop and Application Virtualization

Planning and Implementing User State Virtualization

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

Planning and Implementing App-V

Overview of Application Virtualization
App-V Architecture
Planning App-V Infrastructure
Deploying App-V Infrastructure
Lab : App-V Introduction and Architecture
Lab : Planning and Implementing App-V

Managing and Administering Application Virtualization

Managing and Administering Application Virtualization
Modifying Published Application and Configuration Upgrades
App-V Reporting
Lab : Managing and Administering Application Virtualization

Planning and Deploying App-V Clients

Overview of App-V Client
Installing and Configuring the App-V Client
Managing App-V Client Properties
Lab : Planning and Deploying App-V Clients

Application Sequencing

Overview of Application Sequencing
Planning for Application Sequencing
Sequencing an Application
Advanced Application Sequencing
Lab : Application Sequencing
Configuring Client Hyper-V

Overview of Client Hyper-V
Creating Virtual Machines
Managing Virtual Hard Disks
Managing Checkpoints
Lab: Configuring Client Hyper-V

Planning and Deploying Session-Based Desktops

Overview of Remote Desktop Services
Planning Infrastructure for Session-Based Desktops
Deploying Session-Based Desktops
RDS High Availability
Lab: Planning and Deploying Session-Based Desktops

Configuring and Managing RemoteApp Programs

Publishing and Configuring RemoteApp Programs
Working With RemoteApp Programs
Lab: Configuring and Managing RemoteApp Programs

Planning Personal and Pooled Desktops

Overview of Personal and Pooled Desktops
Planning and Optimizing Desktop Templates
Lab: Planning Pooled and Personal Desktops

Planning and Implementing Infrastructure for Pooled and Personal Desktops

Planning Storage for Personal and Pooled Desktops
Capacity Planning for Pooled and Personal Desktops
Implementing Pooled and Personal Desktops
Implementing RemoteApp for Hyper-V
Lab: Planning and Implementing Infrastructure for Pooled and Personal Desktops

Implementing Remote Access for VDI

Extending VDI Outside the Organization
Controlling RD Gateway Access
Lab: Implementing Remote Access for VDI

Performance and Health Monitoring of VDI Infrastructure

Overview of Monitoring Desktop and Application Virtualization
Monitoring Desktop Virtualization Infrastructure
Lab: Performance and Health Monitoring of VDI Infrastructure