

20416 - Implementing Desktop Application Environments

Duration: 5 days

Overview:

This five-day course provides students with the skills and knowledge to be able to design, deploy and manage a physical as well as a virtual Windows Server 2012 application management infrastructure. Students will also learn to design, deploy and manage Windows 8 Enterprise applications in a physical and virtual environment as well as in the cloud. Students should have experience with course 20415: Implementing a Desktop Infrastructure, and have their Windows 2012 Server certification (MCSA) or equivalent skills. This course also maps to and supports exam 70-416: Implementing Desktop Application Environments.

Target Audience:

This course is intended for IT Professionals who are interested in specialising in Windows 8 application deployments and managing the application environments for large organisations. People attending this training could be support technicians or currently in deployment roles and are considering taking the next step in their career or enhancing their skills in the areas of planning and deploying Windows 8 desktops.

A secondary audience for this course is IT professionals who are looking to take one or both exams: 70-415: Implementing an Enterprise Desktop and Device Infrastructure and 70-416: Implementing Desktop Application Environments as a stand-alone, or as part of the requirement for the MCSE: Desktop Infrastructure certification.

Pre-requisites:

In addition to their professional experience, students who attend this training should already have attended 20410A: Installing and Configuring Windows Server 2012, 20411A: Administering Windows

Module 1: Designing an Application Distribution Strategy

Lessons

- Determining Business Requirements for Application Distribution
- Overview of Application Distribution Strategies

Lab : Designing an Application Deployment Strategy

- Choosing an Appropriate Application Deployment Strategy for the Sydney Office
- Choosing an Appropriate Application Deployment Strategy for the Melbourne Office
- Choosing an Appropriate Application Deployment Strategy for the Brisbane Office
- Choosing an Appropriate Application Deployment Strategy for the Wellington Office
- Choosing an Appropriate Application Deployment Strategy for the Perth Office

Module 2: Diagnosing and Remediating Application Compatibility

Lessons

- Diagnosing Application Compatibility Issues
- Evaluating and Implementing Remediation Solutions
- Resolving Compatibility Issues with the Application Compatibility Toolkit

Lab : Diagnosing and Remediating Application Compatibility

- Installing and Configure ACT
- Analysing Applications for Potential Compatibility Issues
- Mitigating Application Compatibility Issues
- Automating the Deployment of Shims

Module 3: Deploying Applications by Using Group Policy and Windows Intune

Lessons

- Deploying Applications by Using Group Policy
- Deploying Applications by Using Windows Intune

Lab : Centralising Application Deployment by Using Group Policy and Windows Intune

- Deploying an Application by Using Group Policy
- Performing Windows Intune Simulations

Module 4: Deploying Applications by Using System Center Configuration Manager

Lessons

- Understanding Application Deployment by Using Configuration Manager 2012
- Deploying Applications by Using Configuration Manager 2012

Lab : Deploying Applications by Using Configuration Manager 2012

- Create a Configuration Manager 2012 Query
- Create Configuration Manager 2012 User and Device Collections

Module 5: Configuring Self-Service Application Deployment

Lessons

- Understanding Self-Service Application Deployment
- Configuring Self-Service with Windows Intune
- Self-Service Deployment with Configuration Manager 2012
- Self-Service Deployment with Service Manager 2012

Lab : Configuring Self-Service Application Deployment

- Preparing System Center 2012 Configuration Manager to Support a Service Manager 2012 Self-Service Portal
- Configuring a Service Manager 2012 Self-Service Portal
- Verifying that Users Are Able to Provision Applications by Using the Self-Service Portal

Module 6: Designing and Implementing Presentation Virtualisation Infrastructure

Lessons

- Assessing Presentation Virtualisation Requirements
- Planning Presentation Virtualisation Infrastructure
- Deploying Presentation Virtualisation Infrastructure

Lab : Deploying and Implementing Presentation Virtualisation Infrastructure

- Assessing Capacity Requirements for Presentation Virtualisation
- Deploying Highly Available Presentation Virtualisation Infrastructure

Server 2012, 20412A: Configuring Advanced Windows Server 2012 services, and 20415A: Implementing a Desktop Infrastructure, or have the following equivalent technical knowledge

At Course Completion:

After completing this course, students will be able to:

- Design an application distribution strategy that is appropriate for an organisational environment.
- Diagnose and remediate application compatibility problems for desktop and presentation virtualisation-based deployments.
- Use Group Policy and Windows Intune to deploy applications to client devices.
- Deploy applications centrally using Configuration Manager.
- Configure self-service application deployment using Configuration Manager, Service Manager, and Windows 8 Application Store.
- Design and deploy Windows Server 2012 roles and features to support presentation virtualisation.
- Prepare, deploy and manage applications for Remote Desktop, RemoteApp, and Remote Desktop Web Access.
- Design and deploy Windows Server 2012 roles and features to support application virtualisation.
- Virtualise and deploy applications by using App-V and System Center 2012 Configuration Manager.
- Plan and configure the appropriate infrastructure to streamline the deployment of software updates to applications, and plan and configure application security.
- Plan and implement application upgrades, supersession, and application coexistence.
- Monitor the deployment, performance, and utilisation of applications and determine whether current application hosting platforms are meeting business needs.

CODE:0-A-MSM20416-ILT

Module 7: Preparing, Configuring and Deploying Presentation Virtualisation Applications

Lessons

- Determining Presentation Virtualisation Application Strategies
- Deploying Remote Desktop, RemoteApp, and RD Web Access

Lab : Configuring Applications for Presentation Virtualisation

- Configuring Access to RD Session Host Resources
- Deploying RD Session Host Desktop Applications
- Configuring and Deploying a RemoteApp Application
- Verifying Applications by Using RD Web Access

Module 8: Designing and Deploying an Application Virtualisation Environment

Lessons

- Overview of Application Virtualisation Models
- Deploying Application Virtualisation Infrastructure Components
- Configuring Application Virtualisation Client Support

Lab : Planning and Deploying Application Virtualisation Infrastructure

- Planning the Deployment of App-V Roles and Features
- Deploying App-V Infrastructure
- Configuring App-V Client Settings

Module 9: Preparing, Sequencing, and Deploying Virtual Applications

Lessons

- Sequencing Applications with App-V
- Deploying App-V Applications

Lab : Virtualising Applications by Using App-V Sequencer and Deploy Sequenced Applications

- Installing and Configuring App-V Sequencer
- Sequencing Applications
- Deploying App-V Applications by Using Configuration Manager

Module 10: Planning and Implementing Application Updates and Security

Lessons

- Planning Application Updates
- Deploying Updates With WSUS
- Deploying Application Updates by Using Configuration Manager 2012
- Implementing Application Security

Lab : Planning and Deploying Application Updates

- Determining an Appropriate Update Deployment Strategy
- Updating Deployed Applications
- Updating an App-V Application
- Deploying AppLocker Policy to Control Application Execution

Module 11: Planning and Implementing Application Upgrade and Supersession

Lessons

- Planning and Implementing Application Upgrades and Supersession
- Planning and Implementing Application Coexistence

Lab : Upgrading Applications

- Planning an Application Upgrade Strategy
- Upgrading a Deployed Application
- Replacing a Deployed Application
- Configuring Application Version Coexistence

Module 12: Monitoring Application Deployment, Utilisation, and Performance

Lessons

- Planning and Implementing Application Monitoring Infrastructure
- Application Metering, Inventory and Asset Intelligence
- Monitoring Application Resource Utilisation

Lab : Planning and Implementing Application Monitoring

- Planning Application Inventory
- Generating Software Inventory
- Metering Application Usage
- Monitoring Application Resource Utilisation on RD Session Host Servers
- Remediating Peak Resource Utilisation