

Microsoft SoftGrid Application Virtualization

Course GWE50016A0: Four days; Instructor-Led



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Introduction

Module 1: Introduction to SoftGrid

This module provides an overview of the Microsoft SoftGrid Application Virtualization Platform and introduces the vision application virtualization. It focuses on the key issues surrounding Application Management, and available solutions. It also outlines features in the Microsoft SoftGrid Application Virtualization 4.1 Platform.

Lessons

- Describe Problems Enterprises Encounter When Dealing with Application Management
- Describe the Benefits of SoftGrid Computing in a Technical Nature
- Define SoftGrid Computing
- List and Explain Various SoftGrid System Components
- Understand the SoftGrid Environment
- Understand New Features and Benefits of SoftGrid 4.1

After completing this module, students will be able to:

- Describe problems enterprises encounter when dealing with application management.
- Describe the benefits of Microsoft SoftGrid Application Virtualization computing in a technical nature.
- Define Microsoft SoftGrid Application Virtualization computing.
- List and explain various Microsoft SoftGrid Application Virtualization system components.
- Understand the Microsoft SoftGrid Application Virtualization environment.
- Understand new features and benefits of Microsoft SoftGrid Application Virtualization 4.1.

Module 2: Architecture

This module focuses on the Microsoft SoftGrid Application Virtualization System's architecture. In addition, it identifies each component and how they interact and communicate.

Lessons

- Elements of SoftGrid
- SoftGrid Architecture
- Communication and Integration

After completing this module, students will be able to:

- Describe the elements of VAS and technology benefits of deploying a VAS environment.
- Explain the purpose and requirements of each component within the SoftGrid Platform.
- Understand how each of the components communicate and integrate with each other.

Module 3: Server Planning and Installation

This module identifies various deployment and planning options Microsoft SoftGrid Application Virtualization administrators will need to understand for successful Microsoft SoftGrid Application Virtualization Platform implementation. The module ends with installing a Microsoft System Center Virtual Application Server.

Lessons

- Suggested Minimum System Requirements
- AD Integration
- Load Balancing & Firewalls
- Security
- Deployment Scenarios
- Server Installation

Lab 3A: Installing the Microsoft SoftGrid Application Virtualization Server as MSDE

- Objective based lab

Lab 3B: Making the Content Directory Available for streaming

- Objective based lab
- Challenge Exercise: Verify installation

After completing this module, students will be able to:

- Describe all minimum requirements needed to install the SCVAS and Management components.
- Explain how the Microsoft SoftGrid Application Virtualization Platform integrates with Active Directory.
- List the supported Load Balancers, and understand how the Microsoft SoftGrid Application Virtualization Platform integrates with various firewall solutions.
- Explain the security options available to the Microsoft SoftGrid Application Virtualization Platform.
- Detail important considerations that must be made when planning for various deployment scenarios.
- Complete a full installation of the SCVAS and Back-end Management components.

Module 4: Client Planning and Installation

This module describes the requirements for installing and configuring the Microsoft SoftGrid Application Virtualization Clients. It also covers important planning considerations.

Lessons

- List The Clients And How They Run.
- Install The Various Clients.
- Describe The Various Options For Deploying The Clients And Recommended Settings.
- Configure The Clients Using The Client Management Console.
- Determine The Best Practices For Administering And Installing The SoftGrid Clients.

Lab 4A: Installing the Microsoft SoftGrid Application Virtualization Client

- Exercise 1: Install the Microsoft SoftGrid Application Virtualization Client
- Test Client Install

After completing this module, students will be able to:

- List the clients and how they run.
- Install the various clients.
- Describe the various options for deploying the clients and recommended settings.
- Configure the clients using the Client Management Console.
- Determine the best practices for administering and installing the Microsoft SoftGrid Application Virtualization Clients.

Module 5: Administration

This module explains how to use the Microsoft SoftGrid Application Virtualization Management Console for the common tasks encountered by Microsoft SoftGrid Application Virtualization administrators. These tasks

include installing and configuring applications, user permissions, provider policies and server groups, and monitoring the environment.

Lessons

- Accessing the SoftGrid Management Console
- SoftGrid Management Console Layout
- Application Management
- Administering the SoftGrid System

Lab 5A: Publishing Applications

- Exercise 1: Publishing the Acrobat Reader 5.1
- Exercise 2: Log onto Client to use Acrobat

Lab 5B: Using Application Groups and Active Upgrade Functionality

- Exercise 1: Create Winrar Application Group
- Exercise 2: Publish the original version of Winrar
- Exercise 3: Test the Published WinRar
- Exercise 4: Add a new version to the WinRar package
- Exercise 5: Test New Version of WinRar on Client

Challenge Labs

After completing this module, students will be able to:

- Understand how to connect to any machine running the Microsoft SoftGrid Application Virtualization Management Web Service to configure the platform.
- Create new objects from within the Microsoft SoftGrid Application Virtualization Management Console, using the supplied Wizards.
- Explain each of the containers, objects, and properties within the Microsoft SoftGrid Application Virtualization Management Console.

Module 6: Advanced Administration

This module focuses on advanced administration and third-party tools that may be required for a full enterprise deployment of the Microsoft SoftGrid Application Virtualization Platform.

Lessons

- Application Licenses
- Server Groups
- Provider Policies
- Account Authorities
- SoftGrid Administrators
- Reports

Lab 6A: Working with Provider Policies

- Exercise 1: Create a named License Group
- Exercise 2: Assign License Group to Application
- Exercise 3: Creating a new Provider Policy
- Exercise 4: Modify the Acrobat OSD to use the new Provider Policy
- Exercise 5: Test it

Challenge Labs

After completing this module, students will be able to:

- Create licenses and license groups in the Microsoft SoftGrid Application Virtualization Management Console.
- Create Server Groups and manipulate Server Group properties.
- Create Custom Provider Policies.
- View and change the Account Authority Domain that was selected during install and update the credentials that Microsoft SoftGrid Application Virtualization uses to read information in Active Directory.
- Add or change Microsoft SoftGrid Application Virtualization Administrators.
- Generate reports from the Microsoft SoftGrid Application Virtualization Management Console.

Module 7: Introduction to the Sequencer

This module introduces the Microsoft SoftGrid Application Virtualization Sequencer, an essential part of application deployment.

Lessons

- What is the Sequencer?
- Who Should Sequence?
- SystemGuard Overview
- Suites
- The Sequencing Process
- Sequencer Files

After completing this module, students will be able to:

- Understand why the Sequencer is needed.
- Explain the virtual environment, including the Virtual Registry and Virtual File System.
- Understand the significance of SFT, SPRJ, OSD, and ICO files.

Module 8: Sequencer Planning & Installation

This module describes the requirements and procedures for installing the Microsoft SoftGrid Application Virtualization Sequencer.

Lessons

- Recommended Sequencer Configuration
- Planning the Sequencer Environment
- Example Configuration
- Sequencer Installation

Lab 8A: Installing the Sequencer

- Exercise 1: Installing the Sequencer
- Exercise 2: Adding an Exclusion

After completing this module, students will be able to:

- Understand the recommended configuration for running the Sequencer.
- Explain the use of separate partitions for storing images.
- Install the Microsoft SoftGrid Application Virtualization Sequencer.

Module 9: Sequencing

This module explains how to use the Microsoft SoftGrid Application Virtualization Sequencer to package applications to be streamed to Microsoft SoftGrid Application Virtualization Clients. This involves installing and running the target application under a controlled environment.

Lessons

- Use The Walkthrough Wizard To Create A Sequence.
- Modify OSD Files Manually.
- Upgrade An Existing Package, Using Package Upgrade.
- Explain Each Tab Found In The SFT Editor.
- Manually Add Files To The VFS, Using The VFS Editor.

Lab 9A: Installing the Sequencer

- Scenario 1
- Scenario 2
- Scenario 3

After completing this module, students will be able to:

- Use the Walkthrough Wizard to create a sequence
- Modify OSD files manually.
- Upgrade an existing package, using Package Upgrade.
- Explain each tab found in the SFT editor.
- Manually add files to the VFS, using the VFS editor.

Module 10: Advanced Sequencing

This module will go above the standard sequences and introduce the student to more complex sequencing scenarios with hands on practicum.

Lessons

- Install A Hard Coded Application Into A Virtual Environment
- Create A Virtual Environment For A Web-Based Application
- Open A Previously Sequenced Application And Apply A Service Pack.
- Customize An OSD File With Script Commands
- Create A Recipe Using The Recipe Template Provided By Softricity

Lab 10A: Installing the Sequencer

- Exercise 1: Sequence an application that installs to C:\
- Exercise 2: Sequence a web based application
- Exercise 3: Sequence an application that uses a service

After completing this module, students will be able to:

- Install a hard coded application into a virtual environment.
- Create a virtual environment for a Web-based application.
- Open a previously sequenced application and apply a service pack.
- Customize an OSD file with script commands
- Create a recipe using the recipe template provided by Microsoft.

Module 11: Troubleshooting

This module identifies tools and methods for troubleshooting Microsoft SoftGrid Application Virtualization Platform components. It also describes known issues and possible resolutions.

Lessons

- Registry Keys
- Logging
- Common Issues
- Sequencer Troubleshooting Tips
- Support Information

Lab 110A: Using Client Tools to Troubleshoot

- Exercise 1: Use Client logging tool to change log level
- Exercise 2: Reset the Log File

Challenge Lab

- Challenge Exercise 1: Use FileMon to repair a Sequenced Package that does not Launch on a client
- Exercise 2: Use RegMon to repair a Sequenced Package that prompts each user to associate WinZip shell extensions

After completing this module, students will be able to:

- Configure important Registry keys for tweaking the Microsoft SoftGrid Application Virtualization Platform.
- List the logs available to aid in troubleshooting.
- Troubleshoot and fix common issues within the Microsoft SoftGrid Application Virtualization Platform.
- List the support options available from Microsoft Technical Support.

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Course Outline