

CWS-315 Citrix Virtual Apps and Desktops 7 Advanced Administration

Course Overview

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This is a 5-day class

Get more value out of your Citrix Virtual Apps and Desktops 7.1x investment through the use of Workspace Environment Management, Provisioning Services, Application Layering, and advanced features. Students leave this course with a good understanding of how to manage more complex solutions such as multizone environments spanning multiple locations with configurations around StoreFront, the Delivery Controllers, and HDX. Students will gain the skills to improve logon times, user personalization, and resource performance through Workspace Environment Management. Also, learn to optimize management of your app and desktop images by building and combining App Layers. End the course by learning to install, configure, and manage Provisioning Services in accordance with leading practices. This course includes a voucher to take the related exam (1Y0-311 Citrix XenApp and XenDesktop 7.15 Advanced Administration) and earn your Citrix Certified Professional - Virtualization (CCP-V) certification.

Who Should Attend

Developed for experienced IT Professionals working with Citrix Virtual Apps and Desktops 7.1x. Potential students include administrators, engineers, and architects responsible for the end user workspace, provisioning services environment, and overall health and performance of the solution.

Course Objectives

Students will understand the following: - How to configure Workspace Environment Management to improve the end user environment and virtual resource consumption. - Understand Zones in Citrix Virtual Apps and Desktops 7.1x and how to account for user and desktop locations and optimal connection and registration. - How to build and manage App Layers to minimize image sprawl with Citrix Virtual Apps and Desktops 7.1x. - Understand and configure HDX channels and protocols for improved performance delivering multimedia and data over network connections.

Course Outline

1 IMPLEMENTING REDUNDANCY AND SCALABILITY

StoreFront and Citrix Gateway
Site Infrastructure
Machines Running the Virtual Delivery Agent

2 MANAGING A VIRTUAL APPS AND DESKTOPS ENVIRONMENT WITH MULTIPLE LOCATIONS ZONES

VDA Registration in a Multi-Zone Environment
Zone Preference
Optimal Gateway Routing and Zones
Managing StoreFront Store Subscriptions in a Multi-Location Environment
StoreFront and Citrix ADC Branding

3 IMPLEMENTING BACKUPS AND DISASTER RECOVERY

Backups
Disaster Recovery Considerations
Disaster Recovery Process

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4 IMPLEMENTING ADVANCED AUTHENTICATION METHODS

Multi-factor Authentication RADIUS & OTP
Multi-factor Authentication Smart Card Authentication
Federated Authentication ADFS, SAML, and FAS

5 IMPROVING APP AND DATA SECURITY

Introduction to Application Security
Preventing Jailbreak Attacks
Minimizing the Impact of Attacks

6 SECURING MACHINES RUNNING THE VIRTUAL DELIVERY AGENT

TLS to VDA Encryption
GPOs and Citrix Policies
Image Management

7 INTRODUCTION TO TROUBLESHOOTING

Troubleshooting Methodology Process (Standard Slide)
Resource Tools and Utilities
Introduction to PowerShell

8 TROUBLESHOOTING ACCESS ISSUES

Troubleshooting StoreFront
Troubleshooting Citrix Gateway

9 TROUBLESHOOTING DELIVERY CONTROLLER ISSUES

Validating FMA Services

10 TROUBLESHOOTING VDA REGISTRATION ISSUES

Troubleshooting VDA Registration

11 TROUBLESHOOTING HDX CONNECTION ISSUES

Troubleshooting HDX Connections

12 INTRODUCTION TO APP LAYERING

App Layering Introduction
Architecture and How it Works

13 CREATING AN OS LAYER

The OS Layer

14 CREATING A PLATFORM LAYER

The Platform Layer

15 CREATING APP LAYERS

The App Layers

16 CREATING ELASTIC APP AND USER LAYERS

Elastic App Layering
User Layers

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17 DEPLOYING A LAYERED IMAGE USING CITRIX VIRTUAL APPS AND DESKTOPS

Using Templates in App Layering
Using Layered Images in a Citrix Virtual Apps and Desktops Site

18 EXPLORING LAYER PRIORITY

Layer Priority

19 MAINTAINING AN APP LAYERING ENVIRONMENT

Updating Layers
Maintaining and Updating the App Layering Environment
Common App Layering Considerations and Additional Resources

20 INTRODUCTION TO WORKSPACE ENVIRONMENT MANAGEMENT (WEM)

Workspace Environment Management (WEM) Introduction
WEM Administration

21 USING WEM TO CENTRALIZE

Managing User Resources with WEM
Managing Profiles with WEM
Managing Endpoints with the WEM Transformer Feature

22 USING WEM FOR PERFORMANCE OPTIMIZATION

Optimizing Machine Performance with WEM
Optimizing User Experience with WEM

23 USING WEM TO SECURE ENVIRONMENTS

WEM Environments

24 MIGRATING AND UPGRADING WEM

Migrating to WEM
Upgrading a WEM Deployment
WEM Multi-Location Considerations