

## CWS-315 Citrix Virtual Apps and Desktops 7 Advanced Administration

### Overview

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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.

### Target Audience

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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

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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

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#### 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

### 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

## 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

## Related Courses, Certifications, Exams

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- CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and In Citrix Cloud