

Citrix Certified Professional - App Delivery and Security (CCP-AppDS)



Online Course

ZETLAN TECHNOLOGIES
www.zetlantech.com

Citrix Certified Expert - Virtualization (CCE-V)

Course Modules

1. Methodology and Assessment

- Identify Business Drivers
- Prioritize Business Drivers
- Importance of User Segmentation
- User Segmentation Process
- Assess How Much Data Has Already Been Collected
- Design a Data Collection Strategy
- Perform Data Collection and Analysis Activities
- Categories of Applications
- Application Assessment Analysis Options

Zetlan Technologies



ZETLAN TECHNOLOGIES

Citrix Certified Expert - Virtualization (CCE-V)

2. User Layer

- Endpoint selection
- Endpoint ownership
- Endpoint lifecycle
- Endpoint management
- Endpoint to User Mapping
- Which Peripherals can be Included?
- Peripheral Impact on Workflows
- Peripheral Scalability Considerations
- Peripheral Security Considerations
- Citrix Workspace app Version Considerations
- Challenges with Multiple Versions of Citrix Workspace app
- Network Connectivity and the User Experience
- Throughput and Latency Considerations
- Estimating User Bandwidth Requirements
- Graphics Protocols
- Transport Protocols
- Media Content Redirection
- Session Interruption Management



Citrix Certified Expert - Virtualization (CCE-V)

3. Access Layer

- Identify the Access Layer
- On-Premises or Customer Hosted Citrix
- Gateway and StoreFront
- Double-Hop Access Architecture
- Citrix Workspace vs. Customer Hosted StoreFront
- Citrix Cloud Considerations for Citrix Gateway Service
- Citrix Cloud Access Layer Design Considerations
- Use Cases for Multiple Stores
- Design Store Access Paths
- Define Access Paths Per User Group
- Determine Number of URLs Required
- Determine Configurations and Prerequisites
- Citrix Gateway Scalability
- High Availability Options
- StoreFront Server Scalability
- Single Server and Server Group
- StoreFront Component High Availability (Load Balancing StoreFront)



Citrix Certified Expert - Virtualization (CCE-V)

4.Resource Layer – Images

- Virtual Delivery Agent Machine
- Scalability - On-Premises and in the Cloud
- Virtual Delivery Agent Machine
- Sizing with NUMA
- Server OS VDA Machines
- Desktop OS VDA Machines
- Scalability Testing and Monitoring - On-Premises & in the Cloud
- Securing VDA Machines
- Network Traffic
- Preventing Breakouts
- Implementing Hardening
- Antivirus Leading Practices
- Image Management Methods
- Citrix Provisioning
- Target Device Boot Method
- Read Cache Method and Sizing
- Write Cache Type vDisk Store Location
- Network Design Scalability
- Machine Creation Services Cloning Type
- Storage Location Read and Write Cache Design
- Storage Sizing App Layering as an Image
- Management Solution



Citrix Certified Expert - Virtualization (CCE-V)

5.Resource Layer - Applications and Personalization

- Installed Apps
- Streamed Apps - App-V
- Layered Apps
- Layered Apps with Elastic Layering
- Layered Apps with User Layers
- Published Apps
- Local Apps
- SaaS / Web-based
- Determining the Optimal Deployment
- Method for an App General Application Concerns
- User Setting Persistence Required
- User Setting Persistence Not Required or Not Desired
- Folder Redirection
- Citrix Profile Management Design Considerations
- Citrix Profile Management Scaling
- Deployment Method Policy Integratn with Active Directory Policy
- Creating a Baseline Policy Optimize Logon Performance



Citrix Certified Expert - Virtualization (CCE-V)

6. Control Layer

- Citrix Virtual Apps and Desktops Site Design Pod Architecture
- Citrix Virtual Apps and Desktops Service
- Design Citrix Cloud and Hybrid Environment
- Citrix Director - Design Considerations
- Management Console Location Change Control
- Site Database Scalability
- Site Database High Availability
- Delivery Controller Scalability
- Delivery Controller Component High Availability
- Citrix License Server Scalability
- Citrix License Server High Availability
- Citrix Cloud Scalability and High Availability
- Secure Site Internal Communications: XML, SQL, etc.,
- Virtual Apps and Desktops
- Session Recording



Citrix Certified Expert - Virtualization (CCE-V)

7. Hardware/Compute Layer

- Hypervisor Host Hardware Considerations
- Advanced Graphics Hardware Options
- Key Considerations between the Traditional
- Big 3 Hypervisors
- Hyper-Converged Infrastructure Considerations
- Separating Workloads on Resource Pools
- Separating Workloads Between Hypervisor Vendors
- Virtual Machine Motion Considerations
- When Deploying Different VDA Machine Types
- High Availability Considerations
- High Availability in a Public Cloud
- Determining Virtual Machines per Host
- Determining Hosts per Pool Hypervisor Scalability
- Citrix Hypervisor Scalability (Sizing with Advanced Graphics Option)
- Sizing in Azure and Amazon Web Services
- Storage Tier Considerations
- I/O Characteristics Based on Workload
- I/O Load Considerations
- Storage Architecture
- RAID & Disk Type



Citrix Certified Expert - Virtualization (CCE-V)

- Storage Sizing - LUNs and storage Bandwidth
- Public Cloud Storage
- Teaming, Bonding and LACP
- Physical vs. Software Defined Network Separation
- Ports and Firewalls
- Network High Availability
- Networking in Public Clouds
- Securing Hypervisor Administrative Access
- Securing the Physical Network and Hosts
- Securing Resource Pools/Clusters
- Protecting Virtualized Storage
- Isolating the Management Network and
- Separating Other Networks

8.High Availability and Multiple Location Environments

- Redundancy vs. Fault Tolerance vs. High Availability
- Multi-Location Architecture Options in Citrix
- Virtual Apps and Desktops (Global Site Structure)
- Multi-Location Architecture Options in Citrix
- Virtual Apps and Desktops (Regional Site Structure)
- Multi-Location Architecture Options in Citrix
- Virtual Apps & Desktops (Functional/Organizational Site Strctr)



Citrix Certified Expert - Virtualization (CCE-V)

- Multi-Site Architecture Considerations (Business Requirements)
- Multi-Location Architecture (Zones & Geographical Connectivity)
- Global Server Load Balancing
- Optimal Gateway Routing
- Zone Preference and Failover
- StoreFront Resource Aggregation
- StoreFront Subscription Sync
- Citrix Provisioning Architecture Across Sites
- Citrix Provisioning Networking Across Sites
- Citrix Provisioning vDisks and Storage
- Machine Creation Services Architecture
- Across Sites App Layering Multi-Site
- Managing Roaming Profiles and Citrix
- Workspace App Configurations Across Devices
- Profile Management Multi-Site Replication Considerations
- Cloud-Based Storage Replication Options for Microsoft Azure
- Multi-Location Printing Considerations
- Printing From the Cloud Zone Considerations
- Zone Scalability - Brokering 10K Users with Latency to the Site
- Active Directory - Multiple Domains/Forests
- Public Cloud Considerations - Azure Active Directory



Citrix Certified Expert - Virtualization (CCE-V)

For Enquiry: +91 8680961847

9. Disaster Recovery

- Determining Level Required
- Full Disaster Recovery Capacity
- Access During a DR Event Data and Apps
- Citrix Cloud-Based Disaster Recovery
- Public Cloud Disaster Recovery Options
- Business Continuity Planning
- Failing Over to a Disaster Recovery Environment
- Disaster Recovery User Onboarding Strategy
- Returning to Normal Operations
- Business Continuity Testing
- Citrix Standard of Business Continuity Team Structure
 - Business Continuity Planning
- Disaster Recovery and Business Continuity Testing
- Crisis Communications Employee Safety

Free Advice: +91 9600579474

www.zetlantech.com



**LEARN
REMOTELY!!**

**The efficiency of online learning
in terms of time management,
flexibility, and the ability
to access resources anytime,
anywhere can be compelling.**



ZETLAN TECHNOLOGIES
www.zetlantech.com

**For contact: +91 8680961847
+91 9600579474**

