CXS-300: Citrix XenServer 6.5 Administration

Course Details

Course Outline

1. **Module 1: XenServer Architecture**
   - Describing the XenServer virtualization platform
   - Product editions and entitlements
   - XenServer architecture
   - XenServer key components

2. **Module 2: Managing Virtual Machines**
   - Virtualization techniques
   - XenTools
   - Creating virtual machines
   - Managing virtual machines
   - Understanding vApps
   - Managing snapshots

3. **Module 3: Installing XenServer**
   - Hardware requirements
   - Licensing
   - Available installation methods
   - XenServer supplemental packs

4. **Module 4: Managing a XenServer Environment**
   - Deploying hotfixes
   - Upgrading XenServer
   - Upgrading XenTools
   - Monitoring and alerting
   - Pool metadata backups

5. **Module 5: Resource Pools**
   - Understanding resource pools
   - XenServer pool master
   - Pool master election
   - Workload balancing

6. **Module 6: Networking**
   - XenServer networking architecture
   - Virtual network types

- Network interface bonds
- XenServer physical connectivity

7. **Module 7: Storage**
- XenServer storage architecture
- Understanding thick and thin provisioning
- Storage locations
- File based and block based storage
- Storage multipathing
- XenServer Intellicache
- XenServer in-memory read caching

8. **Module 8: High Availability**
- Purpose of high availability
- High availability recommendations
- Detecting a host failure
- High availability recovery process

9. **Module 9: Security**
- Integrating with Active Directory
- Understanding role-based access
- Minimizing the attack surface
- Certificates and SSL with XenServer

10. **Module 10: Sizing and Optimizations**
- Dom0 sizing
- Dom0 in-memory reach caching
- Virtual CPU optimization
- Device pass-through
- Dynamic memory control
- Resource scheduling
- Network QoS
- Disk prioritization

11. **Module 11: Troubleshooting**
- XenServer maintenance mode
- Host logs and event notifications
- Xsconsole
- XenTop
- Command line and PowerShell commands
- Using Citrix Insight Services
- Network tracing