2V0-51.19 Professional VMware Horizon 7.7

# Section 1 - Install and Configure Horizon Server Components

## Objective 1.1 - Describe techniques to prepare environment for Horizon

### Prerequisites

* Requires AD

#### Server Components

* + Connection Server
    - Acts as a broker for client connections by authenticating and then directing incoming user request to appropriate remote desktops and applications
    - Hardware Requirements

|  |  |  |
| --- | --- | --- |
| **Hardware** | **Requred** | **Recommended** |
| Processor | Pentium IV 2.0 or higher | 4 CPUs |
| NIC | 100 Mpbs NIC | 1 GBps NICs |
| Memory Windows 2008 R2 | 4GB RAM | At least 10 GB RAM for deployments of 50 or more |
| Windows 2012 R2 | 4 GB RAM | At least 10 GB RAM for deployments of 50 or more |
|  |  |  |

* + - * Static IP
    - OS
      * Windows 2008 R2 SP1 standard or Datacenter
      * Windows 2012 R2 Standard or Datacenter
      * Windows 2016 Standard or Datacenter
      * Windows 2019 Standard or Datacenter
  + Replica Connection Server
    - For high availability
    - Same as connection server
    - Usually installed in same physical location and connected with high performance LAN
    - To use across WAN or MAN or other non-LAN install to span datacenters you must use Cloud POD Architecture
  + Security Connection Server
    - Same as connection server
    - For external access
  + Administrator
    - Used to
      * Configure Connection server
      * Deploy and manage remote desktops and applications
      * Control user authrentication
      * Initiate and examine system events
      * Cary out analytical activities
    - Web base app installed on connection server
      * Acess with
        + IE 9,10,11
        + Firefox
        + Chrome
        + Safari 6 and later
        + Edge
      * Requres Adobe Flash
  + View Composer
    - Used to deploy multiple linked-clone desktops froma single centralized base image
    - You can install view composer on the saem physical or VM as vCenter Server or on a separate
    - OS
      * Windows 2008 R2 SP1 standard or Datacenter
      * Windows 2012 R2 Standard or Datacenter
      * Windows 2016 Standard or Datacenter
      * Windows 2019 Standard or Datacenter
    - Hardware for standalone

|  |  |  |
| --- | --- | --- |
| **Component** | **Required** | **Recommended** |
| Processor | 1.4 GHz or faster 2CPU | 2GHz or faster 4 CPU |
| Networking | One or more 10/100 MBps | 1 GBps |
| Memory | 4GB or higher | 8 GB for deployments of 50 or more |
| Disk Space | 40 GB | 60 GB |

* + - * Static IP
    - Database requirements
      * SQL DB
      * View can alternately use the vCenters instance

### Guest OS

* OS for Horizon Agent
  + View agent previously
  + Assists with
    - session management
    - SSO
    - Device redirection
    - Other features
  + Must be installed on all
    - VM
    - Physical Systems
    - RDS Hosts
* OS for Standalone Horizon Persona Management
  + Persona management for physical computers and VMs that do not have Horizon Agent installed
  + Profiles are downloaded dynamically from the remote profile repository
* Remote Display Protocol and software support
  + Provie access to remote desktops and applications
  + Types
    - PCoIP
      * PC over IP
      * Optimized desktop experience for the delivery of a published application or remote desktop
      * Can publish apps and desktops for VMs, physical machines that contain teradici host cards or shared RDS sessions
    - MS RDP
    - VMWare Blast Extreme
      * Optimized for mobile cloud
      * Supports broad range of client devices
      * Lowest CPU consumption for longer battery life
      * Publish applications and remote desktops that use VMs or shared session RDS hosts.

## Objective 1.2 - Determine procedures to install Horizon Components

### AD

* Up to windows 2016 AD Domain Functional Level
* You can place Horizon Agent machine, View Composer servers and users and groups in the following AD Domains
  + Connection Server Domain
  + Different domain that has two way trust with Connection Server Domain
  + Domain in a different forest than the connection Server that is trusted by the connection server domain in a on-way external or realm trust relation ship
  + Domain in diff forest than connection server that is trusted by the Connection server domain in a one-way or two-way transitive forest trust relationship
* OU for Remote Desktops
  + This prevents GPOs from
  + Can delegate control to OU
  + You should have a separate OU for linked clone desktops based on remote desktop OU if you you View Composer

## Objective 1.3 - Determine steps to configure Horizon Components

## Objective 1.4 - Analyze End User Requirements for Display Protocol Performance

## Objective 1.5 - Diagnose and solve issues related to connectivity between Horizon

## server Components

# Section 2 - Create and Configure Pools

## Objective 2.1 - Configure and Manage Horizon Pools

## Objective 2.2 - Build and Customize RDSH Server and Desktop Images

# Section 3 – \*Section 3 has been removed from this exam

# Section 4 - Configure and Manage Identity Manager

## Objective 4.1 - Install and Configure VMware Identity Manager

## Objective 4.2 - Manage VMware Identity Manager

# Section 5 - Configure and Manage User Environment Manager

## Objective 5.1 - Install and Configure VMware User Environment Manager

## Objective 5.2 - Manage VMware User Environment Manager

# Section 6 - Configure and Manage App Volumes

## Objective 6.1 - Install and Configure VMware App Volumes

## Objective 6.2 - Manage VMware AppStacks and writeable Volumes

# Section 7 - Configure vRealize Operations for Horizon

## Objective 7.1 - Install and Configure the adapter instance and Horizon Broker Agent