

VMware Certified Professional 7 – Desktop and Mobility

Exam Preparation Guide

Exam code: 2V0-751
Exam Blueprint Version 1.2
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Disclaimer:

This preparation guide is intended to provide information about the objectives covered by this exam, as well as related resources. The material contained within this guide is not intended to guarantee that a passing score will be achieved on the exam. VMware recommends that a candidate thoroughly understands the objectives indicated in this guide and utilizes the resources recommended in this guide where needed to gain that understanding.

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1. The Exam

1.1 Purpose of Exam

The VMware Certified Professional 7 – Desktop and Mobility Exam (2V0-751) tests certification candidates on their skills and abilities implementing, installing, and configuring a VMware Horizon 7 environment deployed on a VMware vSphere implementation. Successful candidates demonstrate mastery of skills and abilities across both vSphere and VMware Horizon knowledge domains.

1.2 Intended Audience

A candidate for the VCP7-DTM certification has a foundation in vSphere implementation and administration. The candidate possesses typical vSphere skills, including creating and administering virtual machines, configuring host networking and storage and working with DRS, HA and other cluster-related vSphere features. The candidate has built upon this foundation with 6-12 months of experience working with VMware Horizon. The candidate should have experience installing and configuring View, Mirage, and Workspace and maintaining a Horizon environment. The successful candidate will most likely have additional industry-recognized general IT certifications or equivalent experience (typically 2-5 years).

2. Objectives covered in the VCP7-DTM Exam (2V0-751):

2.1 Introduction

It is recommended that candidates have the knowledge and skills necessary to administer VMware Horizon and VMware vSphere environments before taking the VCP7-DTM Exam. You can use this document to check off each knowledge area as you feel prepared for it. It is also suggested that the candidate complete the recommended courses prior to attempting the exam.

2.2 Objectives

Prior to taking this exam, candidates should understand each of the exam objectives. Each objective is listed below:

Section 1 – Install and Configure Horizon Server Components

Objective 1.1 – Describe techniques to prepare environment for Horizon

- Determine characteristics of required Active Directory domain accounts, groups, permissions, DHCP scopes and trust relationships

- Describe Organizational Units (OUs) for machine accounts
- Select the appropriate Group Policy Object (GPO) template files
- Verify system requirements for installation

Objective 1.2 Determine procedures to install Horizon Components

- Prepare Horizon Composer database and connectivity, i.e. ODBC
- Understand where to install Horizon Composer in stand-alone mode
- Determine required firewall rules
- Configure Horizon to Security server pairing
- Configure and Deploy Horizon Connection Server, Composer, Access Point, Appliance
- Explain functionality and dependencies of the following components: Replica Connection server, Composer, Security server, Access Point, Enrollment Server
- Customize Access Point Template
- Differentiate Horizon client access options
- Identify prerequisites for Access Point deployment

Objective 1.3 – Determine steps to configure Horizon Components

- ❑ Determine system requirements
 - Identify default View Composer port settings
 - Identify the VMware vCenter™ Server host system
- ❑ Choose necessary account domain permissions and domain trust relationships
 - Identify domain accounts used for QuickPrep
 - Enable Composer from Horizon Administrator and add domain account(s)
- ❑ Configure and modify Horizon settings
 - Configure the Events database settings
 - Configure the Syslog server
 - Enable Horizon View Storage Accelerator
 - Enable disk space reclamation
 - Configure SSL
 - Configure external URL settings
- ❑ Differentiate virtual printing services and architecture
 - Configure location-aware printing
- ❑ Optimize User experience
 - Configure the profile store for Persona management
 - Configure HTML access
 - Describe protocol requirements
 - Locate ADM template files
 - Explain GPO settings
 - Configure Flash quality and throttling
 - Configure 3D rendering capabilities
 - Configure virtual profile GPOs
- ❑ Secure the Horizon environment
 - Import certificates
 - Configure certificate-based authentication
 - Identify authentication requirements for RSA, Smart Cards, and RADIUS
 - Configure SAML authenticator
 - Configure default roles, custom roles, access groups and required permissions for RBAC (role based access control)
- ❑ Enable and configure a multi-site/pod deployment
 - Configure global entitlements
 - Configure home sites
 - Configure user entitlements

Objective 1.4 – Analyze End User Requirements for Display Protocol Performance Knowledge

- Customize GPO settings requirements
 - Minimize bandwidth
 - Optimize video performance
 - Reduce audio bandwidth
- Verify 3rd party performance tool integration
- Determine appropriate components needed for best performance

Objective 1.5 – Diagnose and solve issues related to connectivity between Horizon Server Components

- Collect and Review the Horizon logs and View Agent logs
- Determine the Horizon configuration, pool level, farm level, user and group entitlements
- Troubleshoot issues related to account permissions
 - Active Directory
 - vCenter
 - SQL
 - Quickprep
- Verify trust relationships
- Troubleshoot issues between Horizon Server components
 - Communication between components
 - Replication of connection servers
 - ODBC connections for Composer Database
 - Video driver versions
 - Component compatibility

Section 2 – Create and Configure Pools

Objective 2.1 – Configure and Manage Horizon Pools

- Describe and configure optional disk settings
- Describe and configure 3D renderer
- Configure advanced storage settings
- Configure Guest customization settings

Objective 2.2 – Build and Customize RDSH Server and Desktop Images

- Build, configure and prepare virtual machines
- Determine and configure required roles and software
- Configure 3D graphic settings
- Perform installation of View Agent and VMware Tools
- Prepare a parent virtual machine for an RDSH farm
- Create and manage snapshots
- Prepare a Linux machine for VDI deployment

Section 3 – Configure and Administer VMware Mirage

Objective 3.1 – Install and Configure Mirage Components

- Determine required firewall rules for VMware Mirage
- Install and Configure Mirage components:
 - Management server and console
 - Web Manager
 - Mirage Server
 - Gateway Server
 - File Portal
 - Mongo Database Server
- Configure the following Mirage settings:
 - Branch Reflector
 - Role-based delegations
 - Driver library and profiles
 - SSL
 - User State Migration Tool (USMT)
 - Storage Volumes

Objective 3.2 – Configure and Manage Mirage layers

- Capture and update the Base and App layers
- Assign Base and App layers
- Monitor App layer assignments

Objective 3.3 – Configure and Manage Mirage Endpoints

- Create and manage Upload policies
- Restore Snapshots
- Create, manage, and archive collections
- Install the Mirage Client
- Migrate and centralize endpoints

Section 4 – Configure and Manage Identity Manager

Objective 4.1 – Install and Configure VMware Identity Manager

- Determine minimum hardware and software requirements
- Determine required firewall rules
- Deploy OVA/OVF files
- Determine forward and reverse DNS requirements for VMware Workspace virtual appliances
- Configure initial installation (console, web)
- Setup database (Postgres and SQL)
- Configure SSL certificates

- Configure Syslog
- Configure AD/LDAP users and groups
- Define and promote administrators

Objective 4.2 – Manage VMware Identity Manager

- Package VMware ThinApp applications
- Entitle and deploy applications
- Enable Horizon desktop access

Section 5 – Configure and Manage User Environment Manager

Objective 5.1 – Install and Configure VMware User Environment Manager

- Install Application Profiler
- Create and configure UEM Config Share
- Create and configure UEM User Share
- Import and configure GPO ADMX templates
- Install Agent

Objective 5.2 – Manage VMware User Environment Manager

- Use or Create an application configuration
- Modify an application configuration
- Create custom condition sets
- Create triggered task

Section 6 – Configure and Manager App Volumes

Objective 6.1 – Install and Configure VMware App Volumes

- Determine hardware and software requirements for installation (Ver 3.x)
- Perform installation of App Volumes Unified Agent (Ver 3.x)
- Configure virtual machine privileges required for App Volumes (Ver 3.x)

Objective 6.2 – Manage VMware AppStacks and writeable Volumes

- Capture, Provision and Assign AppStack (Ver 3.x)
- Update AppStacks (Ver 3.x)
- Merge AppStacks (Ver 3.x)
- Capture Isolated AppStacks (Ver 3.x)
- Create and assign writeable volumes (Ver 3.x)

Section 7 – Configure vRealize Operations for Horizon

Objective 7.1 – Manage VMware Workspace Portal

- Install and configure the Solution Pak
- Determine required firewall rules
- Create an instance of the vRealize Operations for Horizon Adapter
- Install and Configure a Horizon Broker Agent
- Reference View Dashboards and Reports

2.3 Tools and References

The tools and references listed below were used to help write the exam items, and can be used to help prepare for the exam. The tools listed contains information relevant to respective objective. All objectives may also be referenced in other product documentation not specifically highlighted below. The candidate should be familiar with all relevant product documentation or have an equivalent skill set.

Objectives:	1.1	1.2	1.3	1.4	1.5	2.1	2.2	3.1	3.2	3.3	4.1	4.2	5.1	5.2	6.1	6.2	7.1
Horizon View Administration Guide	✓	✓	✓	✓	✓	✓	✓					✓			✓	✓	
Horizon View Installation Guide	✓	✓	✓	✓	✓	✓	✓					✓					
View Architecture Planning	✓	✓	✓	✓	✓	✓	✓					✓			✓	✓	
Horizon View Administrator	✓	✓	✓	✓	✓	✓	✓					✓					
Setting Up Desktop and Applications Pools in View				✓		✓	✓					✓					
View Security					✓												
VMware Mirage Installation Guide								✓		✓							
VMware Mirage Administration Guide								✓	✓	✓							
VMware Mirage Web Management Guide								✓	✓	✓							
VMware Identity Manager Connector Installation and Configuration											✓						

Objectives:	1.1	1.2	1.3	1.4	1.5	2.1	2.2	3.1	3.2	3.3	4.1	4.2	5.1	5.2	6.1	6.2	7.1
VMware Identity Manager Administration Guide											✓	✓					
Setting Up Resources in VMware Identity Manager											✓						
User Environment Manager Administrator's Guide													✓	✓			
User Environment Manager Application Profiler Administrator's Guide													✓	✓			
VMware App Volumes Deployment Guide															✓	✓	
VMware App Volumes 3.0 Installation and Administration															✓	✓	
Installing and Configuring VMware Workspace Portal																	✓
VMware Workspace Portal Administrator's Guide																	✓
Setting Up Resources in VMware Workspace Portal																	✓
VMware Workspace Portal End User Guide																	✓
VMware Workspace Admin Console																	✓

3. Additional Resources

3.1 VCP Community

VMware provides an online community for VCP candidates. This community contains valuable information from other candidates and senior Desktop professionals, and is moderated by VMware certification staff. The community is located at: <https://communities.vmware.com/community/vmtn/certedu/certification/vcp>.

3.2 Test Driving a Horizon View Environment

VMware provides Hands-on Labs for Horizon 6 (with View). These labs provide an environment where you can work with the products covered in this exam. The labs can be accessed by going here:

<https://www.vmwarelearningplatform.com/HOL/catalogs/catalog/125>

Version	Date	Change Notes
1.0	2016-09-01	Initial creation of VCP7-DTM exam blueprint.
1.1	2016-09-29	Updated formatting and added Tools table
1.2	2017-1-31	Production version