

This study sheet uses the VMware Certified Advanced Professional Cloud Infrastructure Administration Exam Blueprint (version 2.3) provided by VMware April 2, 2013. The sheet is broken down by section and objective. Next to each objective are four boxes:

- Read-** The objective has been researched and related material has been read over.
- Lab -** The goal of the objective has been reproduced in a lab environment.
- CLI -** Used to denote when an objective has been completed or researched for the CLI command, when applicable.
- GUI -** Used to denote when an objective has been completed or researched for the GUI, when applicable.

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Checklist best practice: click in the check box for the corresponding topic after completing each task (Read, Lab, CLI, GUI - not all tasks are applicable for each topic). Click the corresponding check boxes for the Objective and Section as topics are fully studied.

ReadLab CLI GUI

 Section 1 - Configure and Maintain vCloud Director
 Objective 1.1 - Configure centralized logging
Skills and Abilities

- Determine use cases for and configure local and syslog options for vCloud Director
- Configure and administer logging options for VMware vShield™ Manager
- Configure Log4j options for vCloud Director

Tools

[vCloud Director Installation and Upgrade Guide](#) | [vShield Administration Guide](#) | [Apache Log4j Documentation](#) [vShield Manager Web Console](#) | [vCloud Director Web Console](#) | [vCloud Director command shell](#)

 Objective 1.2 - Configure vCloud Director for scalability
Knowledge

- Identify vCloud Director installation methods
- Identify vCloud Director installation options

Skills and Abilities

- Generate vCloud Director response files
- Add vCloud cells to an existing installation using response files
- Set up vCloud Director transfer storage space
- Configure vCloud Director load balancing

Tools

[vCloud Director Installation and Upgrade Guide](#) | [vCloud Director Web Console](#)

 Objective 1.3 - Maintain vCloud using command line tools
Skills and Abilities

- Manage and maintain vCloud Director cells using the cell management tool
- Install and manage a vCloud Director installation using the configure script
- Manage vCloud services using Red Hat command line tools including service, chkconfig and netstat
- Collect logs for troubleshooting using the support script

Tools

[vCloud Director Installation and Upgrade Guide](#) | [vCloud Director Administrator's Guide](#) | [Red Hat Enterprise Linux 6 Development Guide](#) | [vCloud Director command shell](#)

vCloud Director command line tools

- o cell-management-tool
- o configure
- o vmware-vcd-multi-cell-log-collector
- o vmware-vcd-support

Red Hat Enterprise Linux command line

- o service
- o chkconfig
- o netstat

Read Lab CLI GUI

Objective 1.4 - Configure Alarms and Notifications

Skills and Abilities

- Configure SMTP and notification settings
- Configure warning alerts
- Create System maintenance message

Tools

[vCloud Director Administrator's Guide](#) | [vCloud Director Web Console](#)

Objective 1.5 - Manage vCenter Chargeback reports

Skills and Abilities

- Generate and archive basic reports

Tools

[vCloud Director Installation and Upgrade Guide](#) | [vCloud Director Web Console](#)

Section 2 - Manage vSphere Resources

Objective 2.1 - Add vSphere compute resources to vCloud Director

Skills and Abilities

- Add new vCenter servers to vCloud Director
- Prepare/unprepared hosts in vCloud Director
- Add ESXi hosts to vCenter
- Manage ESXi hosts and DRS resource pools in vCenter

Tools

[vCloud Director Installation and Upgrade Guide](#) | [vCloud Director Web Console](#) | [vCloud Director Administrator's Guide](#) | [vCenter Server and Host Management guide](#) | [vSphere Availability guide](#) | [vSphere Resource Management guide](#) | [vSphere Client / Web Client](#)

Objective 2.2 - Manage vSphere storage resources

Knowledge

- Identify components, characteristics and features of vSphere storage

Skills and Abilities

- Decommission storage
- Create and manage storage profiles

Tools

[vCloud Director Web Console](#) | [vCenter Server and Host Management guide](#) | [vSphere Client / Web Client](#) | [vSphere Storage Guide](#)

Read Lab CLI GUI

Objective 2.3 - Manage vSphere network resources

Knowledge

Identify vSphere networking components

Skills and Abilities

Create and manage vSphere port groups

Configure vSphere network options including MTU and VLAN

Prepare vSphere cluster for VXLAN

Tools

[vCloud Director Web Console](#) | [vCloud Director Administrator's Guide](#) | [vCenter Server and Host Management guide](#) | [vSphere Networking Guide](#) | [vSphere Client / Web Client](#)

Section 3 - Manage vCloud Director Resources

Objective 3.1 - Manage Provider VDCs

Knowledge

Identify Provider VDC options

Skills and Abilities

Create and Provider VDCs

Merge or Expand Provider VDCs

Manage Provider VDC options

Tools

[vCloud Director Administrator's Guide](#) | [vCloud Director Web Console](#)

Objective 3.2 - Manage vCloud Director network resources

Knowledge

Identify vCloud Director network pool types

Skills and Abilities

Create and manage network pools

Create Provider external networks

Manage and remove network resources

Tools

[vCloud Director Administrator's Guide](#) | [vCloud Director Web Console](#)

Read Lab CLI GUI

Objective 3.3 - Manage Organization VDCs

Knowledge

- Identify org VDC types
- Identify org VDC options
- Identify org VDC network options

Skills and Abilities

- Configure storage tiers
- Create, manage and delete org VDCs

Tools

[vCloud Director Administrator's Guide](#) | [vCloud Director Web Console](#)

Objective 3.4 - Manage an Organization

Knowledge

- Identify Organization options and their uses

Skills and Abilities

- Create and manage Organizations
- Manage Organization policies and settings

Tools

[vCloud Director Administrator's Guide](#) | [vCloud Director Web Console](#)

Section 4 - Manage Complex vCloud Director Networks

Objective 4.1 - Configure Organization and vApp network services

Skills and Abilities

- Configure DHCP and DNS relay
- Configure and maintain Virtual Private Networks
- Configure and maintain firewall rules including source and destination NAT
- Configure and maintain static routes

Tools

[vCloud Director Administrator's Guide](#) | [vCloud Director Web Console](#)

Objective 4.2 - Create and maintain cloud networks

Skills and Abilities

- Configure and maintain direct and routed internal, external and vApp networks
- Configure Edge Gateways for availability and scalability

Tools

[vCloud Director Administrator's Guide](#) | [vCloud Director Web Console](#)

Read Lab CLI GUI

Section 5 - Manage Security

Objective 5.1 - Manage vCloud Director SSL Certificates

Skills and Abilities

- Create and process certificate requests
- Replace default certificates

Tools

[vCloud Director Administrator's Guide](#) | [vCloud Director Web Console](#) | [vCloud Director command shell](#)

Objective 5.2 - Configure and manage vCD access control

Skills and Abilities

- Configure LDAP (Active Directory and Open LDAP)
- Import users and groups from a LDAP source
- Create and assign roles
- Configure Organization LDAP using a unique DN
- Configure and maintain VMware Single Sign-On for vCloud Suite products

Tools

[vCloud Director Administrator's Guide](#) | [vCloud Director Web Console](#) | [vShield Manager Web Console](#)

Section 6 - Manage catalogs and vApps

Objective 6.1 - Share vApps and catalogs

Skills and Abilities

- Manage catalog sharing and access levels
- Manage vApp sharing and access levels
- Manage Catalog and vApp ownership

Tools

[vCloud Director Administrator's Guide](#) | [vCloud Director Web Console](#)

Objective 6.2 - Create and deploy vApps

Skills and Abilities

- Customize vApps
- Manage guest customization including SYSPREP utilities
- Create and deploy vApps

Tools

[vCloud Director Administrator's Guide](#) | [vCloud Director Web Console](#)

Read Lab CLI GUI

Objective 6.3 - Create and configure catalogs

Skills and Abilities

- Create and share catalogs
- Import vSphere virtual machines and templates in to a catalog
- Import media into a catalog
- Manage vApps and media in a catalog

Tools

[vCloud Director Administrator's Guide](#) | [vCloud Director Web Console](#)

Objective 6.4 - Manage vApp storage settings

Knowledge

- Create and share catalogs

Skills and Abilities

- Create and share catalogs
- Import vSphere virtual machines and templates in to a catalog
- Import media into a catalog
- Manage vApps and media in a catalog

Tools

[vCloud Director Administrator's Guide](#) | [vCloud Director Web Console](#)

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