

## 2V0-621D.exam.145q

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**2V0-621D**

### **VMware Certified Professional 6 – Data Center Virtualization Delta Exam**

#### **Sections**

1. Configure and Administer vSphere Security
2. Configure and Administer Advanced vSphere Networking
3. Configure and Administer Advanced vSphere Storage
4. Upgrade a vSphere Deployment
5. Administer and Manage vSphere Resources
6. Backup and Recover a vSphere Deployment
7. Troubleshoot a vSphere Deployment
8. Deploy and Consolidate vSphere Data Center
9. Configure and Administer vSphere Availability Solutions
10. Administer and Manage vSphere Virtual Machines
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## Exam A

### QUESTION 1

An administrator wants to configure an ESXi 6.x host to use Active Directory (AD) to manage users and groups. The AD domain group ESX Admins is planned for administrative access to the host.

Which two conditions should be considered when planning this configuration? (Choose two.)

- A. If administrative access for ESX Admins is not required, this setting can be altered.
- B. The users in ESX Admins are not restricted by Lockdown Mode.
- C. An ESXi host provisioned with Auto Deploy cannot store AD credentials.
- D. The users in ESX Admins are granted administrative privileges in vCenter Server.

**Correct Answer:** AC

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**Explanation**

#### Explanation/Reference:

Explanation:

The setting can be altered if administrative access for ESX admins is not required. The second rule is that the ESX admins users should not be restricted by Lockdown mode.

### QUESTION 2

Which password meets ESXi 6.x host password requirements?

- A. 8kMVnn2x!
- B. zNgtnJBA2
- C. Nvgt34kn44
- D. !b74wr

**Correct Answer:** A

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**Explanation**

#### Explanation/Reference:

Explanation:

A valid password requires a mix of upper and lower case letters, digits, and other characters. You can use a 7-character long password with characters from at least three of these four classes, or a 6-character long password containing characters from all the classes. A password that begins with an upper case letter and ends with a numerical digit does not count towards the number of character classes used. It is recommended that the password does not contain the username.

A passphrase requires at least 3 words, can be 8 to 40 characters long, and must contain enough different characters.

Reference: [http://kb.vmware.com/selfservice/microsites/search.do?language=en\\_US&cmd=displayKC&externalId=1012033](http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1012033)

### QUESTION 3

An administrator would like to use a passphrase for their ESXi 6.x hosts which has these characteristics:

- Minimum of 21 characters
- Minimum of 2 words

Which advanced options must be set to allow this passphrase configuration to be used?

- A. retry=3 min=disabled, disabled, 7, 21, 7 passphrase=2
- B. retry=3 min=disabled, disabled, 21, 7, 7 passphrase=2

- C. retry=3 min=disabled, disabled, 2, 21, 7
- D. retry=3 min=disabled, disabled, 21, 21, 2

**Correct Answer:** B

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**Explanation**

**Explanation/Reference:**

Explanation:

To force a specific password complexity and disable all others, replace the number with the word with disabled. For example, to force passwords containing characters from all four-character classes:  
password requisite /lib/security/\$ISA/pam\_passwdqc.so retry=3 min= disabled,disabled,disabled,disabled,7

Reference: [http://kb.vmware.com/selfservice/microsites/search.do?language=en\\_US&cmd=displayKC&externalId=1012033](http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1012033)

#### QUESTION 4

Which Advanced Setting should be created for the vCenter Server to change the expiration policy of the vpxuser password?

- A. VimPasswordExpirationInDays
- B. VimExpirationPasswordDays
- C. VimPassExpirationInDays
- D. VimPasswordRefreshDays

**Correct Answer:** A

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**Explanation**

**Explanation/Reference:**

Explanation:

vCenter Server creates the vpxuser account on each ESX/ESXi host that it manages. The password for each vpxuser account is auto-generated when an ESX/ESXi host is added. The password is updated by default every 30 days.

To modify default password settings:

1. Connect vSphere Client to vCenter Server.
2. Click **Administration > vCenter Server Settings > Advanced Settings**.
3. Scroll to the parameter VirtualCenter.VimPasswordExpirationInDays and change the value from the default.

Reference: [http://kb.vmware.com/selfservice/microsites/search.do?language=en\\_US&cmd=displayKC&externalId=1016736](http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1016736)

#### QUESTION 5

An administrator has been instructed to secure existing virtual machines in vCenter Server.

Which two actions should the administrator take to secure these virtual machines? (Choose two.)

- A. Disable native remote management services
- B. Restrict Remote Console access
- C. Use Independent Non-Persistent virtual disks
- D. Prevent use of Independent Non-Persistent virtual disks

**Correct Answer:** BD

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**Explanation**

**Explanation/Reference:**

Reference: <http://www.vmware.com/files/pdf/techpaper/VMW-TWP-vSPHR-SECRTY-HRDNG-USLET-101-WEB-1.pdf> (page 11, see the tables)

**QUESTION 6**

An administrator has recently audited the environment and found numerous virtual machines with sensitive data written to the configuration files.

To prevent this in the future, which advanced parameter should be applied to the virtual machines?

- A. isolation.tools.setinfo.disable = true
- B. isolation.tools.setinfo.enable = true
- C. isolation.tools.setinfo.disable = false
- D. isolation.tools.setinfo.enable = false

**Correct Answer: A**

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**Explanation****Explanation/Reference:**

Explanation: It is configured on a per-VM basis. You can increase the guest operating system variable memory limit if large amounts of custom information are being stored in the configuration file. You can also prevent guests from writing any name-value pairs to the configuration file. To do so, use the following setting, and set it to 'true':

**QUESTION 7**

Which two statements are correct regarding vSphere certificates? (Choose two.)

- A. ESXi host upgrades do not preserve the SSL certificate and reissue one from the VMware Certificate Authority (VMCA).
- B. ESXi host upgrades preserve the existing SSL certificate.
- C. ESXi hosts have assigned SSL certificates from the VMware Certificate Authority (VMCA) during install.
- D. ESXi hosts have self-signed SSL certificates by default.

**Correct Answer: BC**

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**Explanation****Explanation/Reference:**

Explanation:

Of course, ESXi host upgrades preserve existing SSL certificate and it also have assigned SSL certificates from VMCA during the installation process.

**QUESTION 8**

Which three options are available for replacing vCenter Server Security Certificates? (Choose three.)

- A. Replace with Certificates signed by the VMware Certificate Authority.
- B. Make VMware Certificate Authority an Intermediate Certificate Authority.
- C. Do not use VMware Certificate Authority, provision your own Certificates.
- D. Use SSL Thumbprint mode.
- E. Replace all VMware Certificate Authority issued Certificates with self-signed Certificates.

**Correct Answer: ABC**

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**Explanation****Explanation/Reference:**

Explanation:

There are three options for replace vCenter server security certificates. You can replace it with certificates signed by VMware certificate authority; you can make the VMCA an intermediate certificate authority. Likewise, you can provision your own certificates.

### QUESTION 9

When attempting to log in with the vSphere Web Client, users have reported the error:

Incorrect Username/Password

The administrator has configured the Platform Services Controller Identity Source as:

- Type: Active Directory as an LDAP Server
- Domain: vmware.com
- Alias: VMWARE
- Default Domain: Yes

Which two statements would explain why users cannot login to the vSphere Web Client? (Choose two.)

- A. Users are typing the password incorrectly.
- B. Users are in a forest that has 1-way trust.
- C. Users are in a forest that has 2-way trust.
- D. Users are logging into vCenter Server with incorrect permissions.

**Correct Answer:** AB

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**Explanation**

**Explanation/Reference:**

Explanation:

The possible explanation for this error might be that the users are typing password incorrectly or they are in a forest with has only 1-way trust. You need 2-way trust to get the credentials accepted.

### QUESTION 10

Which group in the vsphere.local domain will have administrator privileges for the VMware Certificate Authority (VMCA)?

- A. SolutionUsers
- B. CAAdmins
- C. DCAAdmins
- D. SystemConfiguration.Administrators

**Correct Answer:** B

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**Explanation**

**Explanation/Reference:**

Explanation:

Members of the CAAdmins group have administrator privileges for VMCA. Adding members to these groups is not usually recommended.

Reference: <https://pubs.vmware.com/vsphere-60/index.jsp?topic=%2Fcom.vmware.vsphere.security.doc%2FGUID-87DA2F34-DCC9-4DAB-8900-1BA35837D07E.html>

### QUESTION 11

Which Platform Service Controller Password Policy determines the number of days a password can exist before the user must change it?

- A. Maximum Lifetime

- B. Password Age
- C. Maximum Days
- D. Password Lifetime

**Correct Answer: A**

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**Explanation**

**Explanation/Reference:**

Explanation:

You can configure the following parameters for password policy:

- **Description** – Password policy description. Required.
- **Maximum lifetime** – Maximum number of days that a password can exist before it has to be changed.
- **Restrict re-use** – Number of the user's previous passwords that cannot be set again.
- **Maximum length** – Maximum number of characters that are allowed in the password.
- **Minimum length** – Minimum number of characters required in the password.
- **Character requirements** – Minimum number of different character types required in the password.
- **Identical adjacent characters** – Maximum number of identical adjacent characters allowed in the password.

Reference: <http://www.vladan.fr/vcp6-dcv-objective-1-3-enable-ss0-and-active-directory-integration/>

#### **QUESTION 12**

An administrator is configuring the clock tolerance for the Single Sign-On token configuration policy and wants to define the time skew tolerance between a client and the domain controller clock.

Which time measurement is used for the value?

- A. Milliseconds
- B. Seconds
- C. Minutes
- D. Hours

**Correct Answer: A**

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**Explanation**

**Explanation/Reference:**

Explanation:

The time skew tolerance between a client and the domain controller clock is measured in milliseconds.

#### **QUESTION 13**

Which VMware Single Sign-On component issues Security Assertion Markup Language (SAML) tokens?

- A. VMware Security Token Service
- B. Administration Server
- C. VMware Directory Service
- D. Identity Management Service

**Correct Answer: A**

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**Explanation**

**Explanation/Reference:**

Explanation:

The security token service issues Security Assertion Markup Language (SAML) tokens. These security tokens

pass information about a system user between an identity provider and a web service. This service enables a user who has logged on through vCenter Single Sign-On to use multiple web-service delivered applications without authenticating to each one.

Reference: <https://pubs.vmware.com/vsphere-51/index.jsp?topic=%2Fcom.vmware.vsphere.upgrade.doc%2FGUID-90C1E3DC-4397-4BF0-808E-DF3802E56BC6.html>

#### **QUESTION 14**

Which two are valid Identity Sources when configuring vCenter Single Sign-On? (Choose two.)

- A. Radius
- B. NIS
- C. OpenLDAP
- D. LocalOS

**Correct Answer:** CD

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**Explanation**

#### **Explanation/Reference:**

Explanation:

#### **Active Directory (Integrated Windows Authentication)**

Use this option for native Active Directory implementations. The machine on which the vCenter Single Sign-On service is running must be in an Active Directory domain if you want to use this option.

See Active Directory Identity Source Settings.

#### **Active Directory as an LDAP Server**

This option is available for backward compatibility. It requires that you specify the domain controller and other information. See Active Directory LDAP Server and OpenLDAP Server Identity Source Settings.

#### **OpenLDAP**

Use this option for an OpenLDAP identity source. See Active Directory LDAP Server and OpenLDAP Server Identity Source Settings.

#### **LocalOS**

Use this option to add the local operating system as an identity source. You are prompted only for the name of the local operating system. If you select this option, all users on the specified machine are visible to vCenter Single Sign-On, even if those users are not part of another domain.

Reference: <http://pubs.vmware.com/vsphere-60/index.jsp?topic=%2Fcom.vmware.vsphere.security.doc%2FGUID-B23B1360-8838-4FF2-B074-71643C4CB040.html>

#### **QUESTION 15**

An administrator needs to create an Integrated Windows Authentication (IWA) Identity Source on a newly deployed vCenter Server Appliance (VCSA).

Which two actions will accomplish this? (Choose two.)

- A. Use a Service Principal Name (SPN) to configure the Identity Source.
- B. Use a Domain administrator to configure the Identity Source.
- C. Join the VCSA to Active Directory and configure the Identity Source with a Machine Account.
- D. Create a computer account in Active Directory for the VCSA and configure the Identity Source.

**Correct Answer:** AC

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**Explanation**

**Explanation/Reference:**

Explanation:

Using a machine account when configuring an Active Directory identity source for vCenter Server requires that the Windows system be joined to the domain. If the system is not joined to the domain, SSO cannot leverage the machine account to create the identity source and perform its function as the secure token service user.

To resolve this issue in VCVA 5.5, use only the Use SPN option.

Reference: [http://kb.vmware.com/selfservice/microsites/search.do?language=en\\_US&cmd=displayKC&externalId=2058919](http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2058919)

#### **QUESTION 16**

An administrator is creating a new Content Library. It will subscribe to another remote Content Library without authentication enabled.

What information from the published library will they need in order to complete the subscription?

- A. Subscription URL
- B. A security password from the publishing Content Library
- C. Publisher's Items.json file
- D. Username from the publishing Content Library

**Correct Answer: A**

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**Explanation**

**Explanation/Reference:**

Explanation:

Subscription URL from the published library is needed to complete the subscription.

#### **QUESTION 17**

An administrator is assigning a user the Content Library administrator role. The user will only be creating the library for a single vCenter Server.

What is the lowest level of the permission heirarchy that this role can be granted to the user and still allow them to create a Content Library?

- A. Global
- B. Datacenter Folder
- C. Virtual Center
- D. Datacenter

**Correct Answer: A**

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**Explanation**

**Explanation/Reference:**

Explanation:

To let a user manage a content library and its items, an Administrator can assign the Content Library Administrator role to that user as a global permission. The Content Library Administrator role is a sample role in the vSphere Web Client.

Users who are Administrators can also manage libraries and their contents. If a user is an Administrator at a vCenter Server level, they have sufficient privileges to manage the libraries that belong to this vCenter Server instance, but cannot see the libraries unless they have a Read-Only role as a global permission.

Reference: [http://pubs.vmware.com/vsphere-60/index.jsp?topic=%2Fcom.vmware.vsphere.vm\\_admin.doc%2FGUID-18F4B892-D685-4473-AC25-3195D68DFD90.html](http://pubs.vmware.com/vsphere-60/index.jsp?topic=%2Fcom.vmware.vsphere.vm_admin.doc%2FGUID-18F4B892-D685-4473-AC25-3195D68DFD90.html)

#### **QUESTION 18**



Which three connection types are supported between a remote site and vCloud Air? (Choose three.)

- A. Secure Internet Connectivity
- B. Private Connect
- C. Direct Connect
- D. Internet Connectivity
- E. Secure VPN

**Correct Answer:** ACE

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**Explanation**

**Explanation/Reference:**

Explanation:

The connection types supported between a remote site and vcloud Air is secure VPN, direct connect and Secure Internet Connectivity.

**QUESTION 19**

Refer to the Exhibit.

Identity source type:

- Active Directory (Integrated Windows Authentication)
- Active Directory as a LDAP Server
- Open LDAP
- Local OS

Identity source settings

Name:

Base DN for users:

Domain name:

Domain alias:

Base DN for groups:

Primary server URL:

Secondary server URL:

Username:

Password:

An administrator is adding an Active Directory over LDAP Identity Source for vCenter Single Sign-On, as indicated in the Exhibit.

What is the correct value to configure for the Domain alias?

- A. The domain's NetBIOS name.
- B. The fully qualified domain name.
- C. vsphere.local
- D. A user defined label.

**Correct Answer: A**

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**Explanation**

**Explanation/Reference:**

Explanation:

The domain alias is usually NetBIOS name, for example, acme.lab.

Reference: <https://www.virtten.net/2015/02/how-to-add-ad-authentication-in-vcenter-6-0-platform-service-controller/>

#### **QUESTION 20**

An administrator decides to change the root password for an ESXi 6.x host to comply with the company's security policies.

What are two ways that this can be accomplished? (Choose two.)

- A. Use the Direct Console User Interface to change the password.
- B. Use the passwd command in the ESXi Shell.
- C. Use the password command in the ESXi Shell.
- D. Use the vSphere client to update local users.

**Correct Answer: AB**

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**Explanation**

**Explanation/Reference:**

Explanation:

To prevent unauthorized access to the vCenter Server Appliance Direct Console User Interface, you can change the password of the root user.

The default root password for the vCenter Server Appliance is the password you enter during deployment of the virtual appliance.

Reference: <http://pubs.vmware.com/vsphere-60/index.jsp?topic=%2Fcom.vmware.vsphere.vcsa.doc%2FGUID-48BAF973-4FD3-4FF3-B1B6-5F7286C9B59A.html>

#### **QUESTION 21**

An administrator connects to an ESXi 6.x host console in order to shutdown the host.

Which option in the Direct Console User Interface would perform this task?

- A. Press the F12 key
- B. Press the F2 key
- C. Press Alt + F1 simultaneously
- D. Press Alt + F2 simultaneously

**Correct Answer: A**

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**Explanation**

**Explanation/Reference:**

Reference: [http://pubs.vmware.com/vsphere-4-esxi-embedded-vcenter/index.jsp?topic=/com.vmware.vsphere.setupembedded.doc\\_40/install/setting\\_up\\_esxi\\_4.0/c\\_direct\\_console\\_user\\_interface.html](http://pubs.vmware.com/vsphere-4-esxi-embedded-vcenter/index.jsp?topic=/com.vmware.vsphere.setupembedded.doc_40/install/setting_up_esxi_4.0/c_direct_console_user_interface.html)

#### **QUESTION 22**

An administrator is able to manage an ESXi 6.x host connected to vCenter Server using the vSphere Web