Vendor: VMware

Exam Code: 3V0-22.21

Exam Name: Advanced Deploy VMware vSphere 7.x

Version: DEMO

QUESTION 1
You are tasked to automate the installation and deployment of new host added into your company vSphere cluster using Auto Deploy. Ensure Auto Deploy and Image Builder is set to start automatically every time vCenter Server is restarted. Use the web client and VCSA0la to perform this step.

Confirm that the auto deploy plugin is available in the web interface. You may be required to logout and log back in after enabling the services.

The vCenter server is required to retrieve software from an online depot. You are to use the depot provided below and ensure that Auto Deploy is always running even, with restart of vCenter server.

Name FirstDepot
URL https://hostupdate.vmware.com/software/VUB/PRODUCTION/main/vmw-depot-index.xml

Note: ignore error that you received on cannot connect to depot.

This is expected due to vCSA do not have internet connection.

Create a deploy Rule on VCSA0la based on information below.

You do not need to apply to any host at this time.

```
Name: Rule1
Specify Rule to match Vendor: Dell
Check "Do Not Include Image Profile"
Check "Do Not Include Host Profile"
Select host location: Choose cluster PROD-A
```

Answer:

To automate the installation and deployment of new hosts added to your vSphere cluster using Auto Deploy, follow these steps:

Step 1: Enable Auto Deploy and Image Builder

1. **Log in to the vSphere Client**:
    - Open the vSphere Client and log in to `VCSA0la`.

2. **Navigate to Services**:
    - From the Home menu, navigate to `Administration`.
    - Under `Administration`, select `System Configuration`.

3. **Enable Auto Deploy and Image Builder**:
    - In the `System Configuration` window, click on `Services`.
    - Find `Auto Deploy` and `Image Builder`.
    - For each service, click on the service, then click `Actions` > `Start and Stop with Host` to ensure they start automatically with vCenter Server.
    - Click `Start` to start the service immediately.

4. **Verify Auto Deploy Plugin**:
    - After enabling the services, log out and log back into the vSphere Client.
    - Ensure that the Auto Deploy plugin is available in the web interface. You should see the `Auto Deploy` icon in the Home menu.

Step 2: Configure the Software Depot

1. **Add Software Depot**:
    - From the Home menu, navigate to `Auto Deploy`.
    - Click on the `Software Depots` tab.
    - Click `Add Depot` and select `Add URL Depot`.
    - Enter the following information:
       - **Name**: `FirstDepot`
       - **URL**: `https://hostupdate.vmware.com/software/VUB/PRODUCTION/main/vmw-depot-index.xml`
    - Click `OK`.

    Note: Ignore any error messages about not being able to connect to the depot due to the vCSA not having an internet connection.

Step 3: Create a Deploy Rule

1. **Create a New Rule**:
    - In the `Auto Deploy` interface, go to the `Deploy Rules` tab.
    - Click `New Deploy Rule`.

2. **Configure Rule Details**:
    - **Name**: Enter `Rule1`.
    - **Host Pattern**: Click `Add a pattern` and select `Vendor`. Enter `Dell`.

3. **Image Profile and Host Profile**:
    - Check the boxes for `Do Not Include Image Profile` and `Do Not Include Host Profile`.

4. **Select Host Location**:
    - Click `Next`.
    - Under `Select host location`, choose `PROD-A` cluster.
    - Click `Next`.

5. **Review and Finish**:
    - Review the rule settings and click `Finish`.

Verification

1. **Verify Services**:
    - Ensure that both `Auto Deploy` and `Image Builder` services are running and set to start automatically.

2. **Check the Deploy Rule**:
    - Verify that `Rule1` appears under the `Deploy Rules` tab in the `Auto Deploy` interface.

Summary

- Enabled `Auto Deploy` and `Image Builder` services to start automatically with vCenter Server.
- Verified that the Auto Deploy plugin is available in the vSphere web client.
- Added the software depot `FirstDepot` (ignoring connection errors due to no internet).
- Created a deploy rule named `Rule1` that matches Dell vendor hosts, without including an image profile or host profile, and assigned it to the `PROD-A` cluster.

By following these steps, you have automated the installation and deployment process for new hosts in your vSphere cluster using Auto Deploy and ensured that the necessary services are always running.

QUESTION 2
Your security team is getting ready for an audit and wants to check the status of all ESXI hosts' outstanding security patches. Create a new fixed Update Manager baseline for all security ESXi host patches and name it "Security patches." Use the patches available in the patch repository. Use VCSA01a in this task.

```
Baseline Name: Security Patches
Baseline Type: Host Patch
Category: Security
```

Answer:

To create a new fixed Update Manager baseline for all security ESXi host patches named "Security Patches" using the patches available in the patch repository on VCSA01a, follow these steps:

Step 1: Log in to vSphere Client

1. Open the vSphere Client and log in to the vCenter Server `VCSA01a.vdass.local` with administrative credentials.

Step 2: Access Lifecycle Manager

1. From the Home menu, navigate to `Lifecycle Manager` (previously known as Update Manager).

Step 3: Create a New Baseline

1. In the Lifecycle Manager, click on `Baselines` in the left-hand navigation pane.
2. Click `New` to create a new baseline.

Step 4: Configure Baseline Details

1. **Baseline Name**:
    - Enter `Security Patches` as the baseline name.

2. **Baseline Type**:
    - Select `Host Patch` as the baseline type.

3. **Category**:
    - Select `Security` as the category.

4. Click `Next` to continue.

Step 5: Select Patches

1. **Patch Selection**:
    - Choose the option `Fixed` to use specific patches.

2. **Select Patches**:
    - In the patch selection window, use the filter options to narrow down the patches to those categorized as `Security`.
    - Select all relevant security patches available in the repository.

3. Click `Next` to continue.

Step 6: Review and Complete

1. **Review**:
    - Review the baseline settings and ensure that all selected patches are correct.

2. **Complete**:
    - Click `Finish` to create the new baseline.

Step 7: Attach the Baseline to Hosts

1. In the `Lifecycle Manager`, go to `Hosts and Clusters`.
2. Select the cluster or individual hosts where you want to apply the baseline.
3. Click `Attach` and choose `Security Patches` from the list of baselines.
4. Click `Attach` to confirm.

Step 8: Check Compliance and Remediate

1. After attaching the baseline, select the `Check Compliance` option to see which hosts are missing the patches.
2. Once the compliance check is complete, select `Remediate` to apply the patches to the hosts.

Summary of Steps:

1. **Log in to vSphere Client** and navigate to `Lifecycle Manager`.
2. **Create a new baseline**:
    - Name: `Security Patches`
    - Type: `Host Patch`
    - Category: `Security`
3. **Select fixed security patches** from the patch repository.
4. **Attach the baseline** to the necessary hosts or clusters.
5. **Check compliance** and **remediate** to apply the patches.

By following these steps, you will have created a new fixed Update Manager baseline for all security ESXi host patches, named it "Security Patches," and ensured that your hosts are compliant with the latest security patches available.

QUESTION 3
As a member of the virtual infrastructure team, you have been tasked with creating a new guest customization specification and deploying a test virtual machine from an existing legacy template migrated from an old VMware VI3 environment.

To complete this task:
Deploy a new virtual machine with the name VM-GuestCust to esxi02a.vclass.local in cluster PROD-A using the following details:

```
vCenter Server: vcsa01a.vdass.local
Datastore: ProdDS01
Template: Core-Template
```

The virtual machine requires an additional network card with the type VMXNET3. Create a new Guest Customization Spec with the name Custom-Spec using the following details:

```
©Cust-Spec
```

```
Operating System: Windows Server 2008 R2
Registration Spec;
Name: vclass
Organization: VMware
```

The computer name must use the virtual machine name. Timezone must be set to America/Central Time.
Network Specifications: IPv4 and IPv6 are set to DHCP but require a static DNS entry of 172.20.10.10

The computer must join the domain vclass.local using the following credentials:

```
Username: administrator
Password: VMware1!
```

Answer:

To complete the task of creating a new guest customization specification and deploying a test virtual machine, follow these steps:

Step 1: Create a New Guest Customization Specification

1. **Log in to vSphere Client**:
    - Open the vSphere Client and log in to the vCenter Server `vcsa01a.vdass.local`.

2. **Navigate to Customization Specifications**:
    - From the Home menu, go to `Policies and Profiles`.
    - Select `Customization Specifications Manager`.

3. **Create a New Customization Specification**:
    - Click `New` to create a new customization specification.
    - Choose `Windows` as the target operating system and click `Next`.

4. **Specify Guest Customization Name**:
    - Enter `Custom-Spec` as the name for the customization specification.
    - Optionally, provide a description.
    - Click `Next`.

5. **Set Registration Information**:
    - **Name**: `vclass`
    - **Organization**: `VMware`
    - Click `Next`.

6. **Set Computer Name**:
    - Select `Use the virtual machine name`.
    - Click `Next`.

7. **Set Windows License Information**:
    - If necessary, provide the Windows license information, or skip if not required.
    - Click `Next`.

8. **Set Timezone**:
    - Select `America/Central Time`.
    - Click `Next`.

9. **Set Network Specifications**:

- Choose `DHCP` for both IPv4 and IPv6.
- Click `Next`.

10. **Set DNS and WINS**:
    - Add the static DNS entry: `172.20.10.10`.
    - Click `Next`.

11. **Set Workgroup or Domain**:
    - Select `Windows Server domain`.
    - Enter the following details:
        - **Domain**: `vclass.local`
        - **Username**: `administrator`
        - **Password**: `VMware1!`
    - Click `Next`.

12. **Set Operating System Options**:
    - Choose any additional options needed for your environment, such as generating a new SID.
    - Click `Next`.

13. **Review and Finish**:
    - Review the settings and click `Finish`.

Step 2: Deploy a New Virtual Machine

1. **Navigate to VMs and Templates**:
    - From the Home menu, go to `VMs and Templates`.

2. **Deploy VM from Template**:
    - Right-click on the template `Core-Template`.
    - Select `New VM from This Template`.

3. **Specify Name and Location**:
    - **Name**: Enter `VM-GuestCust`.
    - **Location**: Select the appropriate folder/location within the `PROD-A` cluster.
    - Click `Next`.

4. **Select a Compute Resource**:
    - Choose the host `esxi02a.vclass.local`.
    - Click `Next`.

5. **Select Storage**:
    - Choose the datastore `ProdDS01`.
    - Click `Next`.

6. **Select Clone Options**:
    - Ensure the option `Customize the operating system` is selected.
    - Choose `Power on virtual machine after creation`.
    - Click `Next`.

7. **Customize Guest OS**:
    - Select the customization specification `Custom-Spec`.
    - Click `Next`.

8. **Configure Network**:
    - Ensure that the existing network adapter is configured correctly.

    - Add an additional network adapter:
        - **Type**: Select `VMXNET3`.
        - Connect it to the appropriate network.
    - Click `Next`.

9. **Review and Finish**:
    - Review the configuration and click `Finish` to deploy the VM.

Verification

1

Verification

1. **Monitor the Deployment**:
    - Ensure the deployment process starts and monitor the progress in the Recent Tasks pane.

2. **Verify VM Configuration**:
    - Once the deployment is complete, verify that `VM-GuestCust` is powered on and check the VM's configuration:
        - Confirm that the VM has two network adapters, with one being of type `VMXNET3`.
        - Check that the customization specification has been applied.

3. **Verify Network and Domain Settings**:
    - Log in to the newly deployed VM `VM-GuestCust`.
    - Verify that the VM is using DHCP for both IPv4 and IPv6.
    - Confirm that the static DNS entry (`172.20.10.10`) is correctly configured.
    - Check that the VM has successfully joined the domain `vclass.local` using the provided credentials.

4. **Check Timezone Settings**:
    - Ensure that the timezone is set to `America/Central Time`.

By following these steps, you will have successfully created a new guest customization specification and deployed a test virtual machine named `VM-GuestCust` from an existing template, with all the specified configurations applied.

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