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QUESTION 1

Which three troubleshooting actions should an administrator take to address slow performance when deploying a virtual machine template? (Choose three.)

- A. Increase network throughput by adding additional uplinks to the vSwitch.
- B. Change the destination datastore or volume for the virtual machine template.
- C. Configure a Provisioning Traffic vmkernel port to perform the deployment operation.
- D. Reduce the size of the virtual machine template's virtual disk.
- E. Deploy the virtual machine template to the cluster and allow Distributed Resource Scheduler to register the virtual machine.

Correct Answer: ABC

Validate that each troubleshooting step below is true for your environment. Each step will provide instructions or a link to a document, in order to eliminate possible causes and take corrective action as necessary. The steps are ordered in the most appropriate sequence to isolate the issue and identify the proper resolution. Do not skip a step.

1.

Verify if the slow deployment is specific to one template or if it affects all templates. To properly test this, VMware recommends to create a brand new template and test the deployment. This provides a clean test of the environment. For more information if template deployment is slow for a single template, see *Deploying a single template is slow in vCenter Server* (1004028).

2.

If you are using ESX (not applicable to ESXi), verify that no processes are over utilizing the resources on the ESX Service Console. For more information, see *Checking for resource starvation of the ESX Service Console* (1003496).

3.

Verify that the network configuration on the ESX/ESXi host is optimized for the best performance, including speed and duplex settings. For more information, see *Configuring the speed and duplex of an ESX/ESXi host network adapter* (1004089).

4.

Verify that the firmware on the RAID controller or HBA is up to date. For more information, see *Checking your firmware and BIOS levels to ensure compatibility with ESX/ESXi* (1037257).

5.

Verify that the local storage or SAN array is configured correctly. For more information, see *Slow ESX/ ESXi performance caused by misconfigured local storage or SAN array* (1006602).

6.

Verify on ESX/ESXi 4.1 and above if the storage array devices in the environment support the hardware acceleration functionality and if they are responding correctly to VAAI primitives. If there is no VAAI support on the array cloning or Storage vMotion may fail at 18%. For more information see *Cloning or Storage vMotion fails at 18% with the error:*



Failed to clone: Connection timed out (1029244).

For further information on VAAI, see:

1.

vStorage APIs for Array Integration FAQ (1021976)

2.

Disabling the VAAI functionality in ESX/ESXi (1033665)

Note: If your problem still exists after trying the steps in this article, please:

1.

Gather the VMware Support Script Data. For more information, see Collecting diagnostic information for VMware products (1008524).

2.

File a support request with VMware Support and note this KB Article ID in the problem description. For more information, see How to Submit a Support Request.

Link: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1004002

QUESTION 2

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:

1.

Type. Active Directory as an LDAP Server

2.

Domain: vmware.com

3.

Alias: VMWARE

4.

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

A-) As written in the KB 2034608 (Unlocking and resetting the VMware vCenter Single Sign-On administrator password) you can have this problem also in a case of multiple login failure (by default the account get locked if the password is incorrectly entered three times).

For VMware Platform Services Controller 6.0, if you want just to unlock the password:

FAQ\\S: VMware Platform Services Controller (PSC) for vSphere 6.0. The PSC contains common infrastructure services such as vCenter Single Sign-On (SSO), VMware Certificate Authority (VMCA), licensing, and server reservation and registration services. https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2113115

B-) Depending on the type of Microsoft Active Directory trusts used in an environment, some features, such as Active Directory user querying and user authentication, may be limited from the vSphere Client and vSphere Web Client. For more info: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2064250

QUESTION 3

Which two statements are true regarding Storage Multipathing Plug-Ins? (Choose two.)

- A. The default Path Selection Policy is VMW_PSP_MRU for iSCSI or FC devices.
- B. The default Path Selection Policy is VMW_PSP_FIXED for iSCSI or FC devices.
- C. VMW_PSP_MRU is typically selected for ALUA arrays by default.
- D. VMW_PSP_FIXED is typically selected for ALUA arrays by default.

Correct Answer: BC

: By default, the VMware NMP supports the following PSPs:

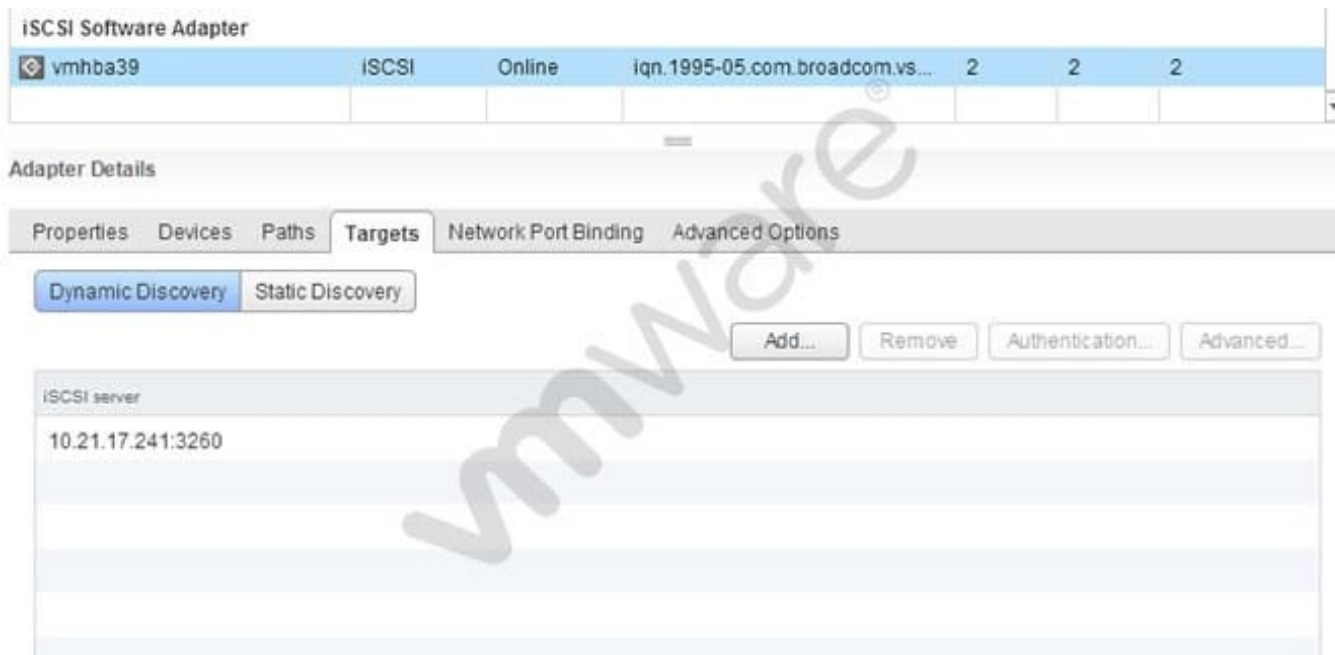
VMW_PSP_MRU The host selects the path that it used most recently. When the path becomes unavailable, the host selects an alternative path. The host does not revert back to the original path when that path becomes available again. There is no preferred path setting with the MRU policy. MRU is the default policy for most active-passive storage devices. Displayed in the vSphere Client as the Most Recently Used (VMware) path selection policy. **VMW_PSP_FIXED** The host uses the designated preferred path, if it has been configured. Otherwise, it selects the first working path discovered at system boot time. If you want the host to use a particular preferred path, specify it manually. Fixed is the default policy for most active-active storage devices. Note If the host uses a default preferred path and the path\\'s status turns to Dead, a new path is selected as preferred. However, if you explicitly designate the preferred path, it will remain preferred even when it becomes inaccessible.



Reference: <https://pubs.vmware.com/vsphere-51/index.jsp?topic=%2Fcom.vmware.vsphere.storage.doc%2FGUID-B7AD0CA0-CBE2-4DB4-A22C-AD323226A257.html>

QUESTION 4

Refer to the Exhibit.



Which tab shows the Hardware Acceleration support status?

- A. Devices
- B. Properties
- C. Paths
- D. Advanced Options

Correct Answer: A

To know the detailed info about the tab:

If you go to Host > Configuration > Storage, you can see the Hardware Acceleration Status in the panel on the right side.

For each storage device and datastore, the vSphere Client displays the hardware acceleration support status in the Hardware Acceleration column of the Devices view and the Datastores view.

The status values are Unknown, Supported, and Not Supported. The initial value is Unknown. The status changes to Supported after the host successfully performs the offload basic operations. If the offload



operation fails, the status changes to Not Supported.

Check link KB: [https://kb.vmware.com/selfservice/microsites/search.do?](https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1021976)

[language=en_US&cmd=displayKC&externalId=1021976](https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1021976)

QUESTION 5

Refer to the Exhibit.



```
[root@ds-lab-vsant12:~] esxcli storage nmp psp roundrobin deviceconfig set --useano=0 -d naa.600000e00d11000000111cd2000f0000
```

An administrator is configuring a storage device as shown in the Exhibit. What is the expected effect on the stated device after running the command?

- A. I/O will rotate on all storage targets regardless of port group state.
- B. I/O will rotate on all storage targets that are Active Optimized state only.
- C. I/O will rotate on all storage targets that are Active Unoptimized state only.
- D. I/O will rotate on all storage targets that are on Available Nodes only.

Correct Answer: B



Command	Description	Options help
<code>storage nmp psp roundrobin device-config set</code>	Allow setting of the Round Robin path options on a given device controlled by the Round Robin Selection Policy.	<code>--bytes</code> <code>-B</code> When the <code>--type</code> option is set to 'bytes' this is the value that will be assigned to the byte limit value for this device. <code>--device</code> <code>-d</code> The device you wish to set the Round Robin settings for. This device must be controlled by the Round Robin Path Selection Policy <code>--help</code> <code>-h</code> Show the help message. <code>--iops</code> <code>-I</code> When the <code>--type</code> option is set to 'iops' this is the value that will be assigned to the I/O operation limit value for this device. <code>--type</code> <code>-t</code> Set the type of the Round Robin path switching that should be enabled for this device. Valid values for type are: bytes: Set the trigger for path switching based on the number of bytes sent down a path. default: Set the trigger for path switching back to default values. iops: Set the trigger for path switching based on the number of I/O operations on a path. <code>--useano</code> <code>-U</code> Set useano to true, to also include non-optimized paths in the set of active paths used to issue I/Os on this device, otherwise set it to false

Reference: https://pubs.vmware.com/vsphere-50/index.jsp?topic=%2Fcom.vmware.vcli.ref.doc_50%2Fesxcli_storage.html

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