

Windows Server 2012 70-415

Microsoft Implementing a Desktop Infrastructure

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Case Study: 1

Proseware Inc

Overview

Proseware, Inc. is an independent software vendor. The company has a main office and two branch offices. The main office is located in New York. The branch offices are located in London and Moscow.

Existing Environment

The New York office and the London office each contain the following servers that run Windows Server 2008 R2:

- One Windows Deployment Services (WDS) server
- One Remote Desktop Session Host (RD Session Host) server

Each office contains client computers that run Windows XP.

The London office and the New York office connect to each other by using a high-speed WAN link. The Moscow office and the New York office connect to each other by using a low-speed# high-latency WAN link.

The network connection between the Moscow office and the New York office frequently fails.

Requirements

Planned Changes

The company plans to implement the following changes:

- Migrate all of the client computers to Windows 8.
- Deploy new applications named App1, App2, and App3.
- Deploy a Virtual Desktop Infrastructure (VDI) in the New York office.
- Deploy a Windows Server Update Services (WSUS) infrastructure.

Migration Requirements

The company identifies the following migration requirements:

- Migrate the client computers to Windows 8 by using the Microsoft Deployment Toolkit (MDT).
- Replace the client computers in the New York office. Migrate the user settings during the migration to the new hardware.
- Ensure that the client computers in the London office that are not PXE-capable can download images from WDS.
- Reformat the existing disks in the London office during the migration

to Windows 8.

- Avoid using the WAN link between the Moscow and New York offices whenever possible.
- Avoid deploying any servers to the Moscow office.

Virtual Desktop Infrastructure (VDI) Requirements

The company identifies the following VDI requirements:

- Automatically provision new virtual desktops based on a virtual desktop template. The new virtual desktops will run Windows 8.
- Automatically discard any user changes to the new virtual desktops when the users log off.
- Deploy a 3D graphics application named App1 to all of the new virtual desktops. App1 will require DirectX 11 support.
- Ensure that updates for App1 are applied to all of the new virtual desktops.

Application Requirements

The company identifies the following application requirements:

- In the New York office, deploy an application named App2 to the client computers that run Windows 8.
- Minimize the amount of resources used by App2 on the client computers.
- In the London office, publish an application named App3 to the Work Resources (RADC) area of the Windows 8 Apps screen.

Security Requirements

The company identifies the following security requirements:

- Ensure that updates for the New York, London, and Moscow offices can be approved only by the administrators in the New York office.
- Ensure that the users in the New York office can use only classes of USB devices that are approved by the IT department.
- Configure the replication of updates between the update servers in the New York and London offices.

Question: 1

You need to recommend a virtual desktop solution that meets the VDI requirements.
What should you recommend?

- A. Managed personal virtual desktop collections
- B. Unmanaged personal virtual desktop collections

- C. Managed pooled virtual desktop collections
- D. Unmanaged pooled virtual desktop collections

Answer: C

Explanation:

We need a managed collections as one VDI requirement is to automatically provision new virtual desktops based on a virtual desktop template. The only option is to use a Managed pooled virtual desktop collections.

Note: A managed pooled virtual desktop collection offers the capability to automatically create pooled virtual desktops based on a virtual desktop template.

Reference:

<http://blogs.technet.com/b/canitpro/archive/2013/04/25/step-by-step-deploying-virtual-desktops-with-windowsserver-2012.aspx>

Question: 2

You need to configure a Deployment Workbench task sequence that meets the migration requirements of the London office.

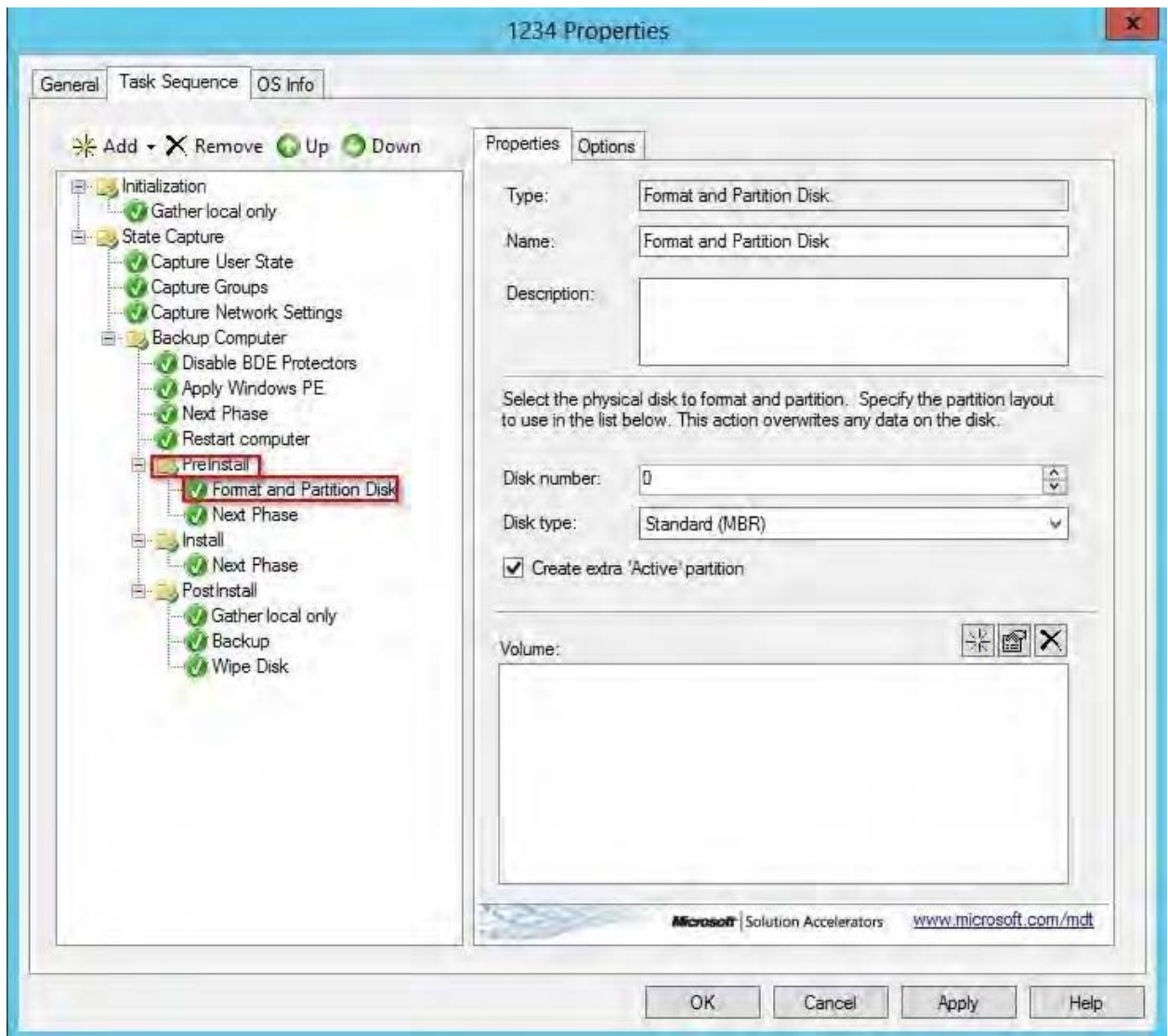
Which task group should you edit?

- A. Preinstall
- B. State Restore
- C. Postinstall
- D. Capture the reference machine

Answer: A

Explanation:

- * From Scenario: Reformat the existing disks in the London office during the migration to Windows 8.
- * The Preinstall group task has the subtask of Format and Partition Disk.



Question: 3

A hardware supplier provides you with four server builds. The server builds are configured as shown in the following table.

Build name	Processor type	Processor feature
Build1	Intel Core i7	Intel Turbo Boost Technology
Build2	Intel Xeon	Intel Flex Memory Access
Build3	Intel Xeon	Second Level Address Translation (SLAT)
Build4	Intel Core i7	Intel Flex Memory Access

You need to recommend which server build must be used to meet the VDI requirements. What should you include in the recommendation?

- A. Build1
- B. Build2
- C. Build3

Answer: C

* From scenario: The new virtual desktops will run Windows 8.

* running Hyper-V on a Windows 8 client requires SLAT.

Reference:

Hyper-V: List of SLAT-Capable CPUs for Hosts

http://blogs.msdn.com/b/uk_faculty_connection/archive/2012/10/24/hyper-v-list-of-slat-capable-cpus-for-hosts.aspx

Question: 4

You need to recommend a solution for updating App1. The solution must meet the VDI requirements.

What should you recommend?

- A. Create a new virtual machine from the template file, apply the patch, and create a snapshot of the virtual machine.
- B. Create a new virtual machine from the template file, apply the patch, and run sysprep.exe.
- C. Mount the virtual machine template on a physical host and configure the template to be bootable. Apply the patch and run sysprep.exe.
- D. Mount the virtual machine template on a physical host and configure the template to be bootable. Apply the patch and run dism.exe.

Answer: B

Explanation:

Scenario: Ensure that updates for App1 are applied to all of the new virtual desktops.

Use a virtual machine to install the template, apply the patches, and produce a new template with sysprep.exe.

Note: Windows Server 2012 R2 Hyper-V provides the ability to easily export sysprepped virtual machines as reusable VM templates for quickly provisioning new VMs in an on-premises datacenter or on the Windows Azure cloud platform.

Reference:

<http://blogs.technet.com/b/keithmayer/archive/2013/12/13/step-by-step-offline-vm-template-servicing-with-windows-server-2012-r2-and-powershell.aspx>

Question: 5

You are planning the deployment of Remote Desktop Services (RDS) to support App3. The RDS servers will run Windows Server 2012.

You need to recommend which RDS role services are required to ensure that App3 meets the application requirements.

- A. Remote Desktop Session Host
- B. Remote Desktop Gateway

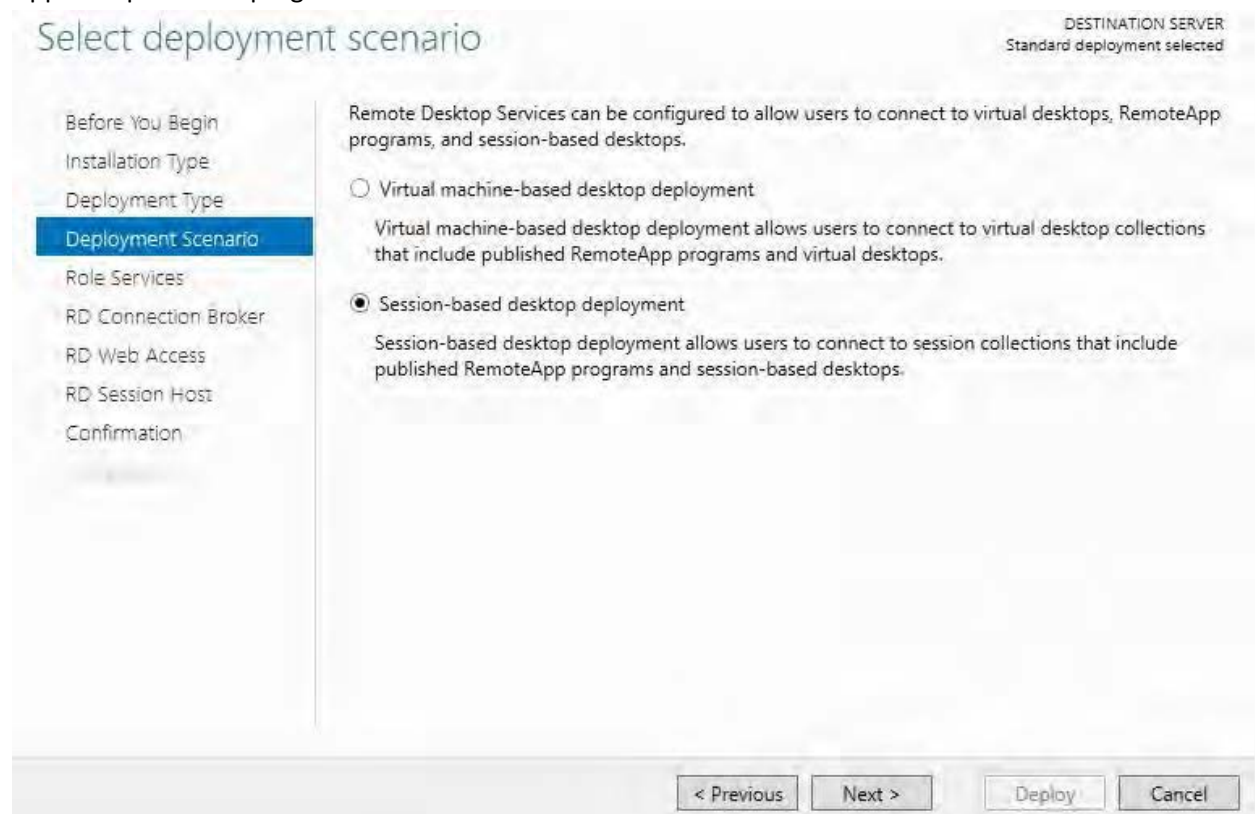
- C. Remote Desktop Connection Broker
- D. Remote Desktop Visualization Host
- E. Remote Desktop Web Access

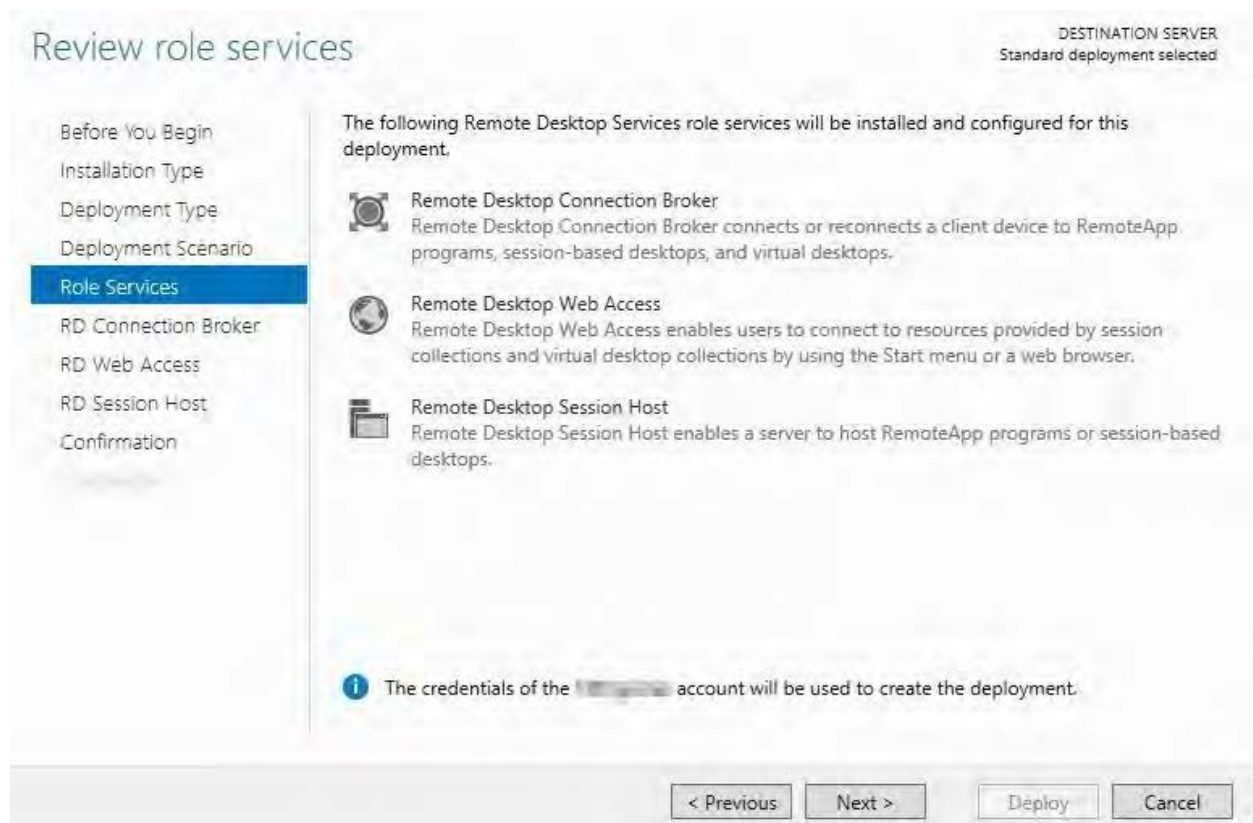
Answer: A, C, E

Explanation/Reference:

Scenario: In the London office, publish an application named App3 to the Work Resources (RADC) area of the Windows 8 Apps screen.

App3 is a published program.





Question: 6

You need to prepare a virtual machine template that meets the VDI requirements.
What should you do?

- A. Run dism.exe and specify the /image parameter.
- B. Run dism.exe and specify the /export-image parameter.
- C. Run sysprep.exe and specify the /audit parameter.
- D. Run sysprep.exe and specify the /generalize parameter.

Answer: D

Explanation:

Scenario: Automatically provision new virtual desktops based on a virtual desktop template. The new virtual desktops will run Windows 8.

Sysprep, not dism is used to create a virtual machine template.

We must use the Generalize parameter as it must create a new SSID.

Question: 7

You need to deploy Windows 8 to the client computers in the Moscow office. The solution must meet the migration requirements.
What should you do first?

- A. From the Windows Deployment Services console, add a boot image.
- B. From the Windows Deployment Services console, add an install image.
- C. From the Deployment Workbench, select New Media.
- D. From the Deployment Workbench, select New Linked Deployment Share

Answer: C

Explanation:

* Scenario:

/ Migrate the client computers to Windows 8 by using the Microsoft Deployment Toolkit (MDT).

/ Avoid using the WAN link between the Moscow and New York offices whenever possible.

* The assumption is we only want to use the WAN link when absolutely required. If we create a Linked Deployment Share, all selected data would be replicated to Moscow from New York.

By managing the Task Sequence/Share locally in Moscow with no link to New York, you're only downloading the media and software one time.

Solution:

1. First create a selection profile.
2. Right-click on Media and select New Media.
3. Click Next a couple times and Finish to complete the wizard.

Reference:

<http://blogs.technet.com/b/askpfplat/archive/2015/05/18/getting-started-with-microsoft-deployment-toolkit-for-windows-server-2012-r2-and-windows-8-1-part-ii-starting-with-selection-profiles-and-some-random-windows-server-2003-end-of-service-ramblings.aspx>

Question: 8

You need to recommend an application deployment method for App2 that meets the application requirements.

Which method should you recommend?

- A. Group Policy software installation
- B. A RemoteApp program
- C. A Microsoft Application Virtualization (App-V) package
- D. A Client Hyper-V virtual machine

Answer: B

Explanation:

* Scenario:

/ In the New York office, deploy an application named App2 to the client computers that run Windows 8.

/ Minimize the amount of resources used by App2 on the client computers.

App-V maintains local resources on the client whereas RemoteApp utilizes resources on the backend RDS Server.

Note: The network data sent to the client is also different, App-V has two feature packs that contain all binaries of the streamed app. Remote Apps utilizes RDP, so only the picture information, mouse,

keyboard etc are transmitted.

Actually they can be combined, applications can be streamed to a RDS server and published to the client via RemoteApp.

Reference:

<http://blogs.msdn.com/b/rds/archive/2009/10/14/whitepaperrelease-application-virtualization-4-5-for-terminal-services.aspx>

Question: 9

You need to configure a Group Policy object (GPO) that meets the security requirements of the users in the New York office.

Which Group Policy settings should you configure?

- A. Allow installation of devices that match any of these device setup classes.
Prevent installation of devices not described by other policy settings
- B. All Removable Storage classes: Deny all access.
Prevent installation of devices not described by other policy settings
- C. Allow installation of devices that match any of these device setup classes.
Prevent installation of devices using drivers that match these device setup classes
- D. All Removable Storage classes: Deny all access.
Prevent installation of devices using drivers that match these device setup classes

Answer: A

Explanation:

Scenario: Ensure that the users in the New York office can use only classes of USB devices that are approved by the IT department.

You'd first allow installation of specific classes and then prevent all others.

* Prevent installation of devices not described by other policy settings.

This policy setting controls the installation of devices that are not specifically described by any other policy setting. If you enable this policy setting, users cannot install or update the driver for devices unless they are described by either the Allow installation of devices that match these device IDs policy setting or the Allow installation of devices for these device classes policy setting.

Reference:

Step-By-Step Guide to Controlling Device Installation Using Group Policy

<http://msdn.microsoft.com/en-us/library/bb530324.aspx>

Question: 10

You need to recommend a task sequence to migrate the client computers in the New York office to Windows 8. The solution must meet the migration requirements.

Which command should you include in the recommendation?

- A. Migpol
- B. Winrm
- C. Wbadmin
- D. Scanstate

Answer: D

Explanation:

* Scenario: Replace the client computers in the New York office. Migrate the user settings during the migration to the new hardware.

Replace the client computers in the New York office. Migrate the user settings during the migration to the new hardware

Question: 11

You need to recommend a WSUS topology that meets the security requirements.
What should you do?

- A. In the London office, install a WSUS server in replica mode. In the New York office, install a WSUS server in replica mode.
- B. In the London office, install a WSUS server in replica mode. In the New York office, install a WSUS server in autonomous mode.
- C. In the London office, install a WSUS server in autonomous mode. In the New York office, install a WSUS server in replica mode.
- D. In the London office, install a WSUS server in autonomous mode. In the New York office, install a WSUS server in autonomous mode.

Answer: B

Explanation:

* Scenario: Ensure that updates for the New York, London, and Moscow offices can be approved only by the administrators in the New York office.

* We use a replica server in the London office as London administrators should be allowed to approve updates. New York administrators should be allowed to approve updates so the London WSUS server should be autonomous mode.

* A WSUS server running in replica mode inherits the update approvals and computer groups created on its parent WSUS administration server.

You will typically have a single parent server with one or more downstream replica WSUS servers.

You approve updates and create computer groups on the parent server, which the replica servers will then mirror.

Question: 12

You need to recommend an image type to start the client computers in the London office. The solution must meet the migration requirements.

Which image type should you recommend?

- A. capture
- B. boot
- C. install
- D. discover

Answer: D

Explanation:

Scenario:

- Ensure that the client computers in the London office that are not PXE-capable can download images from WDS.

- Reformat the existing disks in the London office during the migration to Windows 8.

- * A discover image is a type of boot image that you can use to install an operating system on a computer that is not capable of network booting using the Pre-Boot Execution Environment (PXE).

You may want to use a discover image in the following scenarios:

- / A client is not PXE-enabled.

- / A client is on a different subnet and you do not have method of getting PXE to the client (for example, IP helper tables or Dynamic Host Control Protocol (DHCP)).

- / You have many Windows Deployment Services servers and want to target a specific server.

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