CHAPTER1: Implementing and Configuring a Windows Deployment Infrastructure

Q. What is Boot image?

Boot images are the images with which you start a client computer before installing the operating system image. The boot image presents a boot menu that contains the images that users can install on their computers.

There are also two image types that you can create from boot images: Capture images and discover images.

Q. What is Install image?

Install images are the operating system images that you deploy to the client computer. You can use the default install image (install.wim) located on the DVD of Windows Vista or Windows Server 2008 in the \ Sources directory. You can also create custom install images from reference computers and deploy them to client computers.

Q. What is Discover image?

Discover images, search images are boot images, which is enforced by that Setup.exe in Windows Deployment Services mode is started. Subsequently, a Windows Deployment Services server will be searched. These images are typically used to deploy images to computers that are not configured for PXE or that are in networks where PXE is not allowed.

Q. What is Capture image?

Capture Images are boot images that allow the utility starts to record the Windows Deployment Services in place of the setup. If a reference computer (which has been prepared with Sysprep) start with a capture image, an install image of the reference  
computer is created and saved as a WIM file with an assistant.

Q. What is Reference computer?

■ Install.wim, located in the \Sources folder of the Windows Server 2012 installation  
media, stores the Windows Server 2012 operating system images.  
■ You can use Dism.exe to add and remove drivers and software updates from installation images.  
■ You must mount an installation image before you can modify it.

■ You must commit your changes when dismounting an installation image to have those  
changes saved.  
■ Use Sysprep.exe to prepare an image for capture.

1. You want to confiure an existing Windows Server 2012 deployment image with several recently released software updates that are in .msu format without performing a  
build and capture. Which of the following commands can you use to accomplish this  
goal? (Choose all that apply.)  
A. ImageX.exe  
**B. Dism.exe**  
C. Sysprep.exe  
D. Diskpart.exe  
2. Which of the following switches do you use with the Dism.exe utility if you want to add  
software updates in .msu format to a mounted image? (Choose all that apply.)  
A. /Add-Driver  
B. /Enable-Feature  
**C. /Add-Package**  
D. /Add-ProvisionedAppxPackage  
3. Which of the following steps must you take before you can modify an existing offlne  
installation image?  
A. Commit the image.  
B. Capture the image.  
**C. Mount the image.**  
D. Discard the image.

■ Unless you are booting from a discover image, computers must be able to PXE boot to  
receive an operating system image from a WDS server.  
■ With boot images, computers with PXE-compliant network cards can load a preinstallation environment over the network from which it is possible to then load a minimal  
operating system.  
■ Install images contain the operating system as well as additional components, such as  
software updates and applications.  
■ Discover images are used with computers that do not have PXE-compliant network  
cards. Capture images are used when you want to capture a prepared operating  
system.  
■ Multicast transmissions enable the same installation image to be transmitted to multiple computers at the same time.  
■ If a WDS server also hosts the DHCP server role, it is necessary to confiure the server  
to listen on a separate port and to confiure DHCP option tag 60 for all scopes.  
■ You use Windows SIM to create unattended Windows Setup answer fies. You can confiure WDS with an unattended Windows Setup answer fie to minimize the amount of  
interaction you need to perform when deploying  
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