



70-646^{Q&As}

Pro: Windows Server 2008

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QUESTION 1

Your network consists of a single Active Directory domain. All domain controllers run Windows Server 2008 R2. There are five Windows Server 2003 SP2 servers that have the Terminal Server component installed. A firewall server runs Microsoft Internet Security and Acceleration (ISA) Server 2006.

You plan to give remote users access to the Remote Desktop Services servers.

You need to create a remote access strategy for the Remote Desktop Services servers that meets the following requirements:

- Restricts access to specific Remote Desktop Services servers
- Encrypts all connections to the Remote Desktop Services servers
- Minimizes the number of open ports on the firewall server

What should you do?

- A. Implement SSL bridging on the ISA Server. Require authentication on all inbound connections to the ISA Server.
- B. Implement port forwarding on the ISA Server. Require authentication on all inbound connections to the ISA Server.
- C. Upgrade a Windows Server 2003 SP2 server to Windows Server 2008 R2. On the Windows Server 2008 R2 server, implement the Remote Desktop Gateway (RD Gateway) role service, and configure a Remote Desktop resource authorization policy (RD RAP).
- D. Upgrade a Windows Server 2003 SP2 server to Windows Server 2008 R2. On the Windows Server 2008 R2 server, implement the Remote Desktop Gateway (RD Gateway) role service, and configure a Remote Desktop connection authorization policy (RD CAP).

Correct Answer: C

MCITP Self-Paced Training Kit Exam 70-646 Windows Server Administration:

Terminal Services Gateway TS Gateway allows Internet clients secure, encrypted access to Terminal Servers behind your organization's firewall without having to deploy a Virtual Private Network (VPN) solution. This means that you can have users interacting with their corporate desktop or applications from the comfort of their homes without the problems that occur when VPNs are configured to run over multiple Network Address Translation (NAT) gateways and the firewalls of multiple vendors.

TS Gateway works using RDP over Secure Hypertext Transfer Protocol (HTTPS), which is the same protocol used by Microsoft Office Outlook 2007 to access corporate Exchange Server 2007 Client Access Servers over the Internet. TS Gateway Servers can be configured with connection authorization policies and resource authorization policies as a way of differentiating access to Terminal Servers and network resources.

Connection authorization policies allow access based on a set of conditions specified by the administrator; resource authorization policies grant access to specific Terminal Server resources based on user account properties.

Resource Authorization Policies Terminal Services resource authorization policies (TS-RAPs) are used to determine the specific resources on an organization's network that an incoming TS Gateway client can connect to. When you create a TS-RAP you specify a group of computers that you want to grant access to and the group of users that you will allow this access to. For example, you could create a group of computers called AccountsComputers that will be accessible to members of the Accountants user group. To be granted access to internal resources, a remote user must meet the conditions of at least one TS-CAP and at least one TS-RAP.



QUESTION 2

You need to recommend a security solution for the documents in the finance department. The solution must meet the company's security requirements. What should you include in the recommendation?

- A. accessbased enumeration (ABE) and Encrypted File System (EFS)
- B. accessbased enumeration (ABE) and Windows BitLocker Drive Encryption (BitLocker)
- C. Active Directory Rights Management Services (AD RMS)
- D. File Server Resource Manager (FSRM) file screens

Correct Answer: C

<http://technet.microsoft.com/en-us/library/dd996658%28WS.10%29.aspx>

Rights policy templates are used to control the rights that a user or group has on a particular piece of rightsprotected content. Active Directory Rights Management Services (AD RMS) stores rights policy templates in the configuration database. Optionally, it may maintain a copy of all rights policy templates in a shared folder that you specify.

QUESTION 3

You need to recommend a backup solution for the VMs that meets the museum's technical requirements.

What should you include in the recommendation?

- A. On each VM, perform a full server backup by using Windows Server Backup.
- B. On each physical node, perform a full server backup by using Windows Server Backup.
- C. Deploy Microsoft System Center Data Protection Manager 2010 and create a new protection group.
- D. Deploy Microsoft System Center Virtual Machine Manager (VMM) 2008 R2 and schedule checkpoints

Correct Answer: C

<http://technet.microsoft.com/en-us/library/ff399260.aspx>

What is Data Protection Manager?

Microsoft System Center Data Protection Manager (DPM) 2010 is a member of the Microsoft System Center family of management products, designed to help IT professionals manage their Windows environment. DPM provides Windows

backup and recovery--delivering seamless data protection for Microsoft application and file servers by using integrated disk and tape media. DPM performs replication, synchronization, and recovery point creation to provide reliable protection

and rapid recovery of data for both system administrators and endusers.

What is a custom volume?

You can assign a custom volume to a protection group member, in place of the DPM storage pool.



A custom volume is a volume that is not in the DPM storage pool and is specified to store the replica and recovery points for a protection group member.

Any volume that is attached to the DPM server can be selected as a custom volume, except the volume that contains the system and program files. To use custom volumes for a protection group member, two custom volumes must be

available: one volume to store the replica and one volume to store the recovery points

QUESTION 4

A company has servers that run Windows Server 2008 R2 and a storage area network (SAN) that supports the virtual Disk Service (VDS).

You are designing a storage solution for the servers.

The storage solution must meet the following requirements:

Allow the creation of Fibre Channel (FC) and Internet SCSI (iSCSI) logical unit numbers (LUNs).

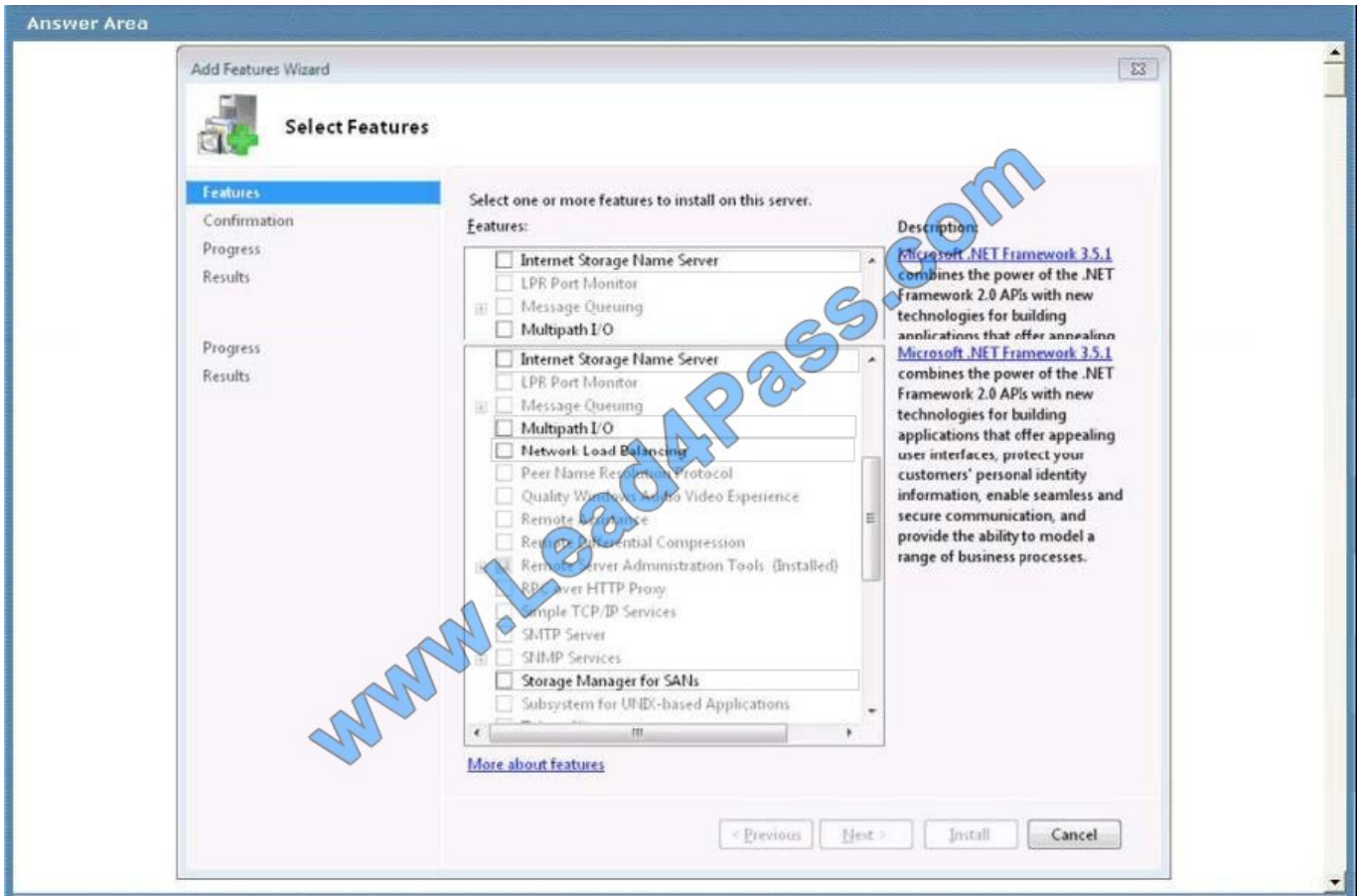
Allow the management of FC and iSCSI LUNs.

You need to ensure that the storage solution meets the requirements.

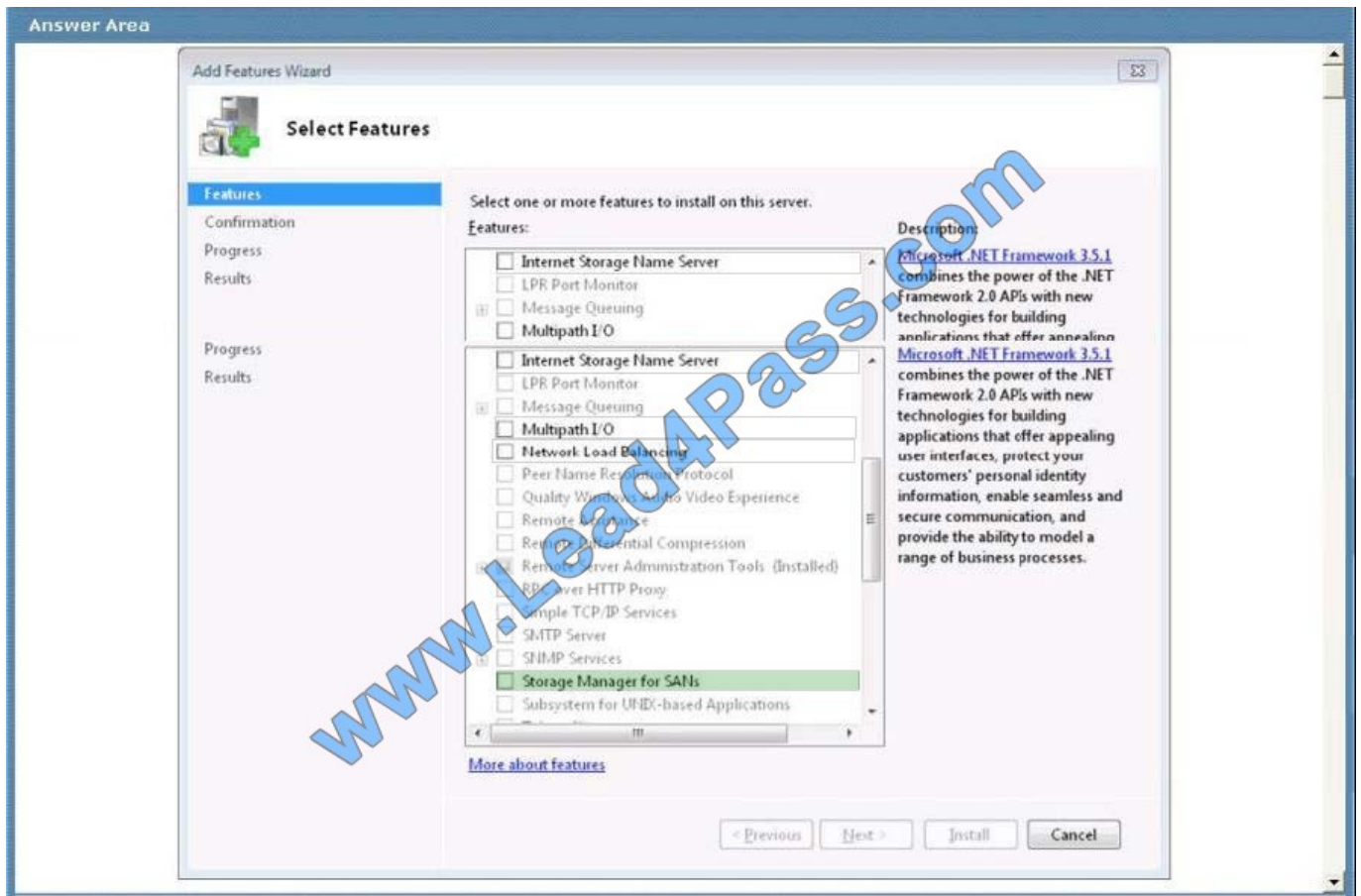
Which feature should you install?

To answer, select the appropriate feature in the answer area.

Hot Area:



Correct Answer:



Storage Manager for SANs helps you create and manage logical unit numbers (LUNs) on Fibre Channel and iSCSI disk drive subsystems that support Virtual Disk Service (VDS) in your storage area network (SAN).

A LUN is a logical reference to a portion of a storage subsystem. A LUN can comprise a disk, a section of a disk, a whole disk array, or a section of a disk array in the subsystem. Using LUNs simplifies the management of storage resources in your SAN because they serve as logical identifiers through which you can assign access and control privileges.

You can use Storage Manager for SANs to create and manage logical unit numbers (LUNs) on both Fibre Channel and iSCSI disk storage subsystems that support Virtual Disk Service (VDS).

Because of hardware, protocol, and security differences, LUN configuration and management on Fibre Channel and iSCSI environments is different. This section explains those differences, lists the types of LUNs that can be created, and

defines LUNs in the context of partitions and volumes.

Managing LUNs in a Fibre Channel environment In a Fibre Channel environment, LUNs created on a disk storage subsystem are assigned directly to a server or cluster, which accesses the LUN through one or more Fibre Channel host bus

adapter (HBA) ports. You only need to identify the server or cluster that will access the LUN, and then select which HBA ports on that server or cluster will be used for LUN traffic.

When a server or cluster is identified, Storage Manager for SANs automatically discovers the available Fibre Channel HBA ports on that server or cluster. You can also add ports manually by typing their World Wide Name (WWN).

Managing LUNs in an iSCSI environment



Unlike in a Fibre Channel environment, LUNs created on an iSCSI disk storage subsystem are not only assigned to a server or cluster. For iSCSI, LUNs are first assigned to logical entities called targets.

Targets are created in order to manage the connections between an iSCSI device and the servers that need to access it. A target defines the portals (IP addresses) that can be used to connect to the iSCSI device, as well as the security

settings (if any) that the iSCSI device requires in order to authenticate the servers that are requesting access to its resources.

To connect to a target, a server in the storage area network (SAN) uses an iSCSI initiator. An iSCSI initiator is a logical entity that enables the server to communicate with the target. The iSCSI initiator first logs on to the target, and only after

access is granted by the target, the server can start reading and writing to LUNs assigned to that target. Each iSCSI initiator can have one or more network adapters through which communication is established.

As with Fibre Channel environments, you only need to identify the server or cluster that will access the LUN, and Storage Manager for SANs automatically discovers the iSCSI initiators on that server or cluster, and lists all the available

adapters for those initiators. After the iSCSI initiator adapters have been discovered, you can select which adapters will be used for LUN traffic. Types of LUNs

Storage Manager for SANs supports the following types of LUNs.

LUN type	Description
Simple	Simple LUNs use only one physical drive or one portion of a physical drive. This is the most basic type of LUN.
Spanned	Spanned LUNs are simple LUNs that span multiple physical drives.
Striped	Striped LUNs write data across multiple physical drives. Data is divided into blocks and spread among all the drives. Since striping writes data across multiple drives, striped LUNs cannot be extended or mirrored, and do not offer fault tolerance. If one of the disks containing a striped LUN fails, the entire LUN becomes unavailable. Select this type of LUN when improved I/O performance is required.
Mirrored	Mirrored LUNs are fault-tolerant LUNs that provide data redundancy by creating identical copies of the LUN on two physical drives. All read data is available, but if one disk becomes unavailable, the LUN continues to be available using the unaffected disk. Select this type of LUN when fault tolerance is required.
Striped with parity	Striped LUNs with parity are fault-tolerant LUNs with data and parity spread intermittently across three or more physical disks. If a portion of the LUN becomes unavailable, the parity information can be used to reconstruct the missing data. This type of LUN provides better read performance than a mirrored LUN, but write performance is reduced by the parity calculation. Select this type of LUN when fault tolerance is required and improved read performance is desired.

LUNs, partitions and volumes A LUN is a logical reference to a portion of a storage subsystem. A LUN can comprise a disk, a section of a disk, a whole disk array, or a section of a disk array in the subsystem. This logical reference, when it is assigned to a server in your SAN, acts as a physical disk drive that the server can read and write to. Using LUNs simplifies the management of storage resources in your SAN, because they serve as logical identifiers through which you can assign access and control privileges.

After a LUN has been assigned to a server, you can create one or more partitions on that LUN. Partitions define how much physical space is allocated for storage. For the operating system to start writing and reading data on partitions, you need to create volumes by formatting the partitions using a file system. Volumes define how much logical space is allocated for storage. They can expand over more than one partition.

**QUESTION 5**

You need to recommend a solution for starting the servers in the San Francisco office from Windows Recovery Environment (Windows RE). The solution must meet the company's security requirements. What should you include in the recommendation?

- A. an iSCSI initiator
- B. the Multipath I/O feature
- C. Wake On LAN
- D. Windows Deployment Services (WDS)

Correct Answer: D

All Servers are PXE enabled

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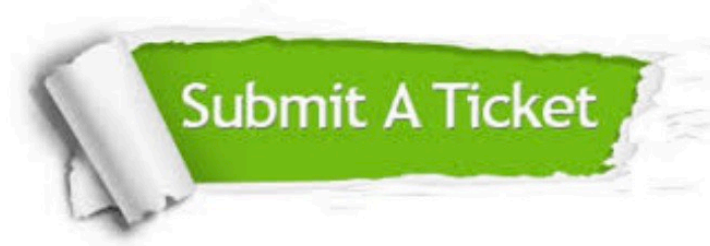
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