Microsoft 70-693

Pro: Windows Server 2008 R2, Virtualization Administrator

Version: 11.4

Topic 1, Fabrikam, Inc

Company Overview

Fabrikam, Inc. is a large manufacturing company.

Existing Environment

The network contains an Active Directory domain named fabrikam.com.

The functional level of the forest is Windows Server 2008.

The network uses the following hardware for standard server builds:

- 64 GB of RAM
- Four 1-gigabit Ethernet adapters
- Two Quad-Core Intel Xeon processors
- One 1-terabyte RAID 5 array rated at 1,000 IOPS

The network contains the following services:

- Windows Deployment Services (WDS)
- Microsoft Forefront EndPoint Protection
- Windows Server Update Services (WSUS)
- Microsoft System Center Configuration Manager
- Microsoft Forefront Threat Management Gateway (TMG)

All client computers run Windows 7 and have the following software installed:

- Forefront TMG Client
- Microsoft Word 2010
- Microsoft Outlook 2010
- Forefront EndPoint Protection 2010
- Microsoft SharePoint Workspace 2010
- System Center Configuration Manager Client

Requirements

Business Requirements

All operating systems must be deployed by using the Preboot Execution Environment (PXE) to connect to the WDS server. All Windows updates for the operating systems on client computers must be performed by using WSUS.

Planned Server Migration

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Server name	Server architecture	Server processor	Server memory	Server operating system
Server1	IA64	1	8-GB	Windows Server 2003
Server2	Alpha	1	512-MB	Windows NT 4.0
Server3	x86	1	128-MB	UNIX
Server4	x64	2	2-GB	UNIX

Planned Changes

You plan to deploy 10 database servers. The database servers will be deployed as virtual machines (VMs). The planned VMs will have the following configurations:

- 8 GB of RAM
- Two virtual processors
- Two virtual network adapters
- One 600-gigabit fixed-size virtual hard disk (VHD)

You plan to deploy a Virtual Desktop Infrastructure (VDI) that will include the following:

- Microsoft System Center Operations Manager
- Microsoft System Center Virtual Machine Manager
- 10 Hyper-V hosts configured in a single failover cluster
- A Storage Area Network (SAN)

The virtual desktops must meet the following requirements:

- Provide the fastest read/write performance possible.
- Minimize the impact on users if a VHD becomes corrupt.
- Minimize the amount of administrative effort required to deploy the operating system updates.

You plan to deploy an application named App1 by using a Microsoft Application Virtualization (App-V) Streaming Server. App1 requires frequent updates that will be deployed by using the App-V Active Upgrade feature.

QUESTION NO: 1
You are evaluating the use of failover clusters with Cluster Shared Volumes (CSV) for the

database servers. You need to recommend which hardware must be purchased.

What should you include in the recommendation?

A. a WAN accelerator
B. a hardware load balancer
C. Network Attached Storage (NAS)
D. a Storage Area Network (SAN)

Answer: D
Explanation:

QUESTION NO: 2

You need to recommend which protocol to use for the planned App-V deployment.

Which protocol should you recommend?

A. SMB
B. RTSPS
C. CIFS
D. HTTPS

Answer: B
Explanation:

QUESTION NO: 3

You need to recommend a technology for the VDI deployment to maximize the number of VMs that can run concurrently on a single Hyper-V host.

What should you include in the recommendation?

A. RemoteFX
B. Dynamic Memory
C. CPU Core Parking
D. Fair Share CPU Scheduling

Answer: B

Explanation:

QUESTION NO: 4

You need to recommend a configuration design for the new VMs. The design must ensure that operating systems can be deployed to the new VMs.

What should you include in the recommendation?

A. virtual machine queue (VMQ)
B. Virtual Machine Chimney
C. a synthetic network adapter
D. an emulated network adapter

Answer: D
Explanation:

QUESTION NO: 5

You are evaluating the deployment of a Hyper-V server that will host 10 VMs. Each VM will have the following configurations:

- 8 GB of memory
- Two virtual processors
- One 200-gigabit fixed VHD
- Two virtual network adapters

You need to recommend changes to the standard server build to support the planned deployment.

Which hardware components should be changed? (Choose all that apply.)

A. networking
B. processor
C. memory
D. storage

Answer: C
Explanation:

QUESTION NO: 6

You are performing a test deployment of Microsoft Enterprise Desktop virtualization (MED-V) 2.0.

You discover that applications deployed by using MED-V run much slower than expected.

You need to recommend configuration changes to improve the performance of the MED-V workspace applications.

Which configuration changes should you recommend?

A. Disable cached mode in Outlook 2010
B. Add exclusions to Forefront EndPoint Protection
C. Add URL exclusions to the Forefront TMG Client
D. Modify the network settings in SharePoint Workspace 2010

Answer: B
Explanation:

QUESTION NO: 7

You are evaluating the use of pass-through disks for the database servers.

You need to recommend a backup solution for the database servers that meets the following requirements:

- Minimizes costs.
- Provides for the recovery of the databases if a hardware failure occurs.

What should you include in the recommendation?

A. Create full backups of the Hyper-V host by using Windows Server Backup.
B. Create snapshots of the VMs from Hyper-V Manager.
C. Create full backups of the Hyper-V host by using Microsoft System Center Data Protection Manager.
D. Create full backups of the VMs by using Windows Server Backup from within the VMs.

Answer: D
Explanation:

Topic 2, Blue Yonder Airlines

Company Overview

Blue Yonder Airlines is a large, aircraft service company that has 1,850 employees.

Physical Locations

The company has a main office and a branch office. The main office is located in New York. The branch office is located in San Francisco.

The main office has 1,500 users. The branch office has 300 users.

The company has a public relations department that has 50 users. All of the public relations users work remotely.

Existing Environment

The network contains an Active Directory domain named blueyonderairlines.com. All servers run Windows Server 2008 R2 Service Pack 1 (SP1).

A Remote Desktop Session Host (RD Session Host) server named RD_Server is deployed to the perimeter network. RD_Server is accessible from the Internet.

The network contains eight application servers. Each application server is configured to have a dedicated logical unit number (LUN) on a Storage Area Network (SAN). The application servers are configured to start from the SAN.

Each application server is managed by a different application administrator. The application servers each have a Baseboard Management Controller (BMC) that is accessible through a Web interface. The administrators use the BMC remotely to turn on and turn off the servers.

The network contains 1,800 client computers that run the 64-bit version of Windows 7.

The public relations users use their own personal computer. Each personal computer runs either the 32-bit version of Windows XP Professional or the 32-bit version of Windows Vista.

Requirements:

Corporate Requirements

Blue Yonder Airlines has the following business requirements:

- Reduce power consumption.
- Minimize software and hardware costs.
- Minimize administrative effort whenever possible.

Application Requirements

All of the client computers on the internal network have an application named Internal_App installed. Intemal_App is a 32-bit application that only runs on Windows 7 or Windows Server 2008 R2.

Internal_App is published as a RemoteApp on RD_Server. The public relations users access Internal_App by using Remote Desktop Services (RDS).

Planned Changes

A new application named Business_App will be deployed to the network. You gather the following information about the Business_App deployment:

- Business_App is a 64-bit application.
- Business_App must be updated every week.
- Internal_App and Business_App cannot be installed on the same client computer.
- The public relations users will access Business_App by using RDS on RD_Server.
- All corporate users must be able to run Business_App when their client computer is disconnected from the network.

Blue Yonder Airlines plans to consolidate the application servers on Hyper-V. Blue Yonder Airlines wants to minimize the time it takes to convert the servers to virtual machines (VMs).

Before the conversion, a utilization report for the application servers must be generated for capacity planning.

The following data must be gathered in the report:

- CPU utilization
- Memory utilization
- Disk I/O utilization

QUESTION NO: 8

You plan to deploy a Virtual Desktop Infrastructure (VDI) for the public relations users.

You need to identify which additional software must be deployed on the network to support the planned VDI deployment.

Which additional software should you identify? (Choose all that apply.)

A. Microsoft Forefront Identity Manager (FIM) 2010
B. Remote Desktop Session Host (RD Session Host) in redirection mode
C. Microsoft Forefront EndPoint Protection 2010
D. Remote Desktop Connection Broker (RD Connection Broker)
E. Remote Desktop Virtualization Host (RD Virtualization Host)

Answer: B,D,E

Explanation:

If we Google for VDI infrastructure then we will se those components

QUESTION NO: 9

You are evaluating the implementation of two Hyper-V hosts for the application servers.

You need to design a solution that will move the application servers automatically between the Hyper-V hosts based on the physical resources available. The solution must minimize the number of Microsoft System Center products deployed to the network.

Which software should you include in the design? (Choose all that apply)

A. Microsoft System Center Operations Manager
B. Microsoft System Center Virtual Machine Manager
C. Microsoft System Center Data Protection Manager
D. Microsoft System Center Configuration Manager

Answer: A,B

Explanation:

QUESTION NO: 10

You need to recommend a technology to deploy and manage updates of Business_App for the public relations users.

The solution must meet the company's corporate requirements.

Which technology should you recommend?

A. Microsoft System Center Virtual Machine Manager
B. Microsoft Update
C. Microsoft Enterprise Desktop Virtualization (MED-V)
D. Microsoft Application Virtualization (App-V)

Answer: D

Explanation:

App-V is enough to manage package updates. If we will see at organization description - there will be a notice about mineralization of software costs

QUESTION NO: 11

You need to recommend a virtualization solution for Business_App that supports the planned changes for the corporate users. The solution must meet the company's corporate requirements.

Which technology should you include in the recommendation?

A. Microsoft Application Virtualization (App-V)
B. Microsoft Enterprise Desktop Virtualization (MED-V)
C. RemoteApp
D. Virtual Desktop Infrastructure (VDI)

Answer: A

Explanation: Application must be available offline, and will be run under 3 different OS. So App-V is the solution.

QUESTION NO: 12

You need to generate a report that lists all of the computers in blueyonderairlines.com that can be converted to Hyper-V hosts. The solution must meet the company's corporate requirements.

What should you use to generate the report?

A. Microsoft System Center Operations Manager
B. Microsoft Desktop Optimization Pack (MDOP)
C. Microsoft Assessment and Planning Toolkit (MAP)
D. Microsoft System Center Virtual Machine Manager