

Vendor: Microsoft

> Exam Code: AZ-600

Exam Name: Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub

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QUESTION 1

Case Study 1 - Litware Inc

Overview

Litware Inc. is a renewable energy company. Litware has a business partner named Fabrikam, Ltd. that develops custom software for Litware.

Litware has a main office in Boston and a research department in Chicago. Each location has a datacenter. Fabrikam has an office in Boston.

Existing Environment

Network Environment

The Litware offices and the Fabrikam office connect by using a private circuit. Each office connects directly to the Internet.

Identity Environment

The Litware network contains an Active Directory forest named litwareinc.com. The forest and an Azure Active Directory (Azure AD) tenant named litwareinc.com are integrated by using Active Directory Federation Services (AD FS). Litware has an enterprise certification authority (CA).

The Azure subscriptions of Litware are associated to the litwareic.com Azure AD tenant.

Fabrikam also has an Azure AD tenant.

Azure Stack Hub Environment

Litware has the following two Azure Stack Hub integrated systems:

- A fully operational integrated system in Boston that connects to the Internet and has the following configurations:
 - Is managed by using an administrator management endpoint of:

https://adminportal.eastus.litwareinc.com

- Has an Azure App Service deployment that has two dedicated, large web workers
- Currently uses version 2005 of Azure Stack Hub and does NOT have any hotfixes installed
- A newly delivered integrated system in Chicago that is disconnected from the Internet and will be managed by using an administrator management endpoint of: https://adminportal.northcentralus.litwareinc.com

Datacenter Environment

The Chicago datacenter of Litware contains the infrastructure shown in the following table.

Host	Operating system	Configuration			
CLIENT1	Windows 10	Can connect to the Internet and CLIENT2			
CLIENT2	Windows 10	Can connect to Azure Stack Hub and CLIENT1			
ADFS1,	Windows Server	An AD FS farm that is accessible via			
ADFS2	2019	https://adfs.northcentralus.litwareinc.com			

Current Problems

During heavy usage, requests to App Service in Boston fail despite low utilization of the web workers.

Requirements

Planned Changes

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One Time!

Litware plans to implement the following changes:

- Deploy an Event Hubs resource provider to the integrated system in Boston.
- Make Azure Functions available to Azure Stack Hub users in Boston.
- Prepare the integrated system in Chicago to be production-ready.

Technical Requirements

Litware identifies the following technical requirements:

- Implement an infrastructure to support Azure Functions on the integrated system in Boston.
- Provision the certificates required to deploy the Event Hubs resource provider to the integrated system in Boston.
- Configure an identity provider for the integrated system in Chicago.
- Locate the IP address of the privileged endpoint (PEP) of the integrated system in Chicago.
- Ensure that only operators have control over the creation of subscriptions on the integrated system in Chicago.
- Provision a certificate to provide access to the Azure Resource Manager endpoint of the integrated system in Chicago.
- Identify which PowerShell setting on CLIENT1 and CLIENT2 must be modified to register the integrated system in Chicago.
- Implement a management app that will use Azure Resource Manager to inventory the resources of the integrated system in Chicago.

Security and Compliance Requirements

Litware has the following security and compliance requirements:

- All infrastructure software must run the latest version, including hotfixes.
- Litware must have control over certificate revocations.

Business Requirements

Litware wants to ensure that the users at Fabrikam have secure access to the workloads on the integrated system in Boston.

Updates and Hotfixes

The current hotfixes and updates available for Azure Stack Hub are:

- 2005
- 2005 hotfix 1
- 2005 hotfix 2
- 2005 hotfix 3
- 2008
- 2008 hotfix 1
- 2008 hotfix 2
- 2011 (latest version)

You need to implement the management app. The solution must meet the technical requirements.

What should you use?

- A. a PowerShell session to litwareinc.com
- B. a browser session to litwareinc.com
- C. a PowerShell remoting session to the PEP
- D. a browser session to the administrator portal

Answer: D Explanation:

https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-manage-portals?view=azs-2008

QUESTION 2

Case Study 1 - Litware Inc

Overview

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Existing Environment



One Time!

Network Environment

The Litware offices and the Fabrikam office connect by using a private circuit. Each office connects directly to the Internet.

Identity Environment

The Litware network contains an Active Directory forest named litwareinc.com. The forest and an Azure Active Directory (Azure AD) tenant named litwareinc.com are integrated by using Active Directory Federation Services (AD FS). Litware has an enterprise certification authority (CA).

The Azure subscriptions of Litware are associated to the litwareic.com Azure AD tenant.

Fabrikam also has an Azure AD tenant.

Azure Stack Hub Environment

Litware has the following two Azure Stack Hub integrated systems:

- A fully operational integrated system in Boston that connects to the Internet and has the following configurations:
 - Is managed by using an administrator management endpoint of:

https://adminportal.eastus.litwareinc.com

- Has an Azure App Service deployment that has two dedicated, large web workers
- Currently uses version 2005 of Azure Stack Hub and does NOT have any hotfixes installed
- A newly delivered integrated system in Chicago that is disconnected from the Internet and will be managed by using an administrator management endpoint of: https://adminportal.northcentralus.litwareinc.com

Datacenter Environment

The Chicago datacenter of Litware contains the infrastructure shown in the following table.

Host	Operating system	Configuration			
CLIENT1	Windows 10	Can connect to the Internet and CLIENT2			
CLIENT2	Windows 10	Can connect to Azure Stack Hub and CLIENT1			
ADFS1,	Windows Server	An AD FS farm that is accessible via			
ADFS2	2019	https://adfs.northcentralus.litwareinc.com			

Current Problems

During heavy usage, requests to App Service in Boston fail despite low utilization of the web workers.

Requirements

Planned Changes

Litware plans to implement the following changes:

- Deploy an Event Hubs resource provider to the integrated system in Boston.
- Make Azure Functions available to Azure Stack Hub users in Boston.
- Prepare the integrated system in Chicago to be production-ready.

Technical Requirements

Litware identifies the following technical requirements:

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- Provision the certificates required to deploy the Event Hubs resource provider to the integrated system in Boston.
- Configure an identity provider for the integrated system in Chicago.
- Locate the IP address of the privileged endpoint (PEP) of the integrated system in Chicago.
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- Provision a certificate to provide access to the Azure Resource Manager endpoint of the integrated system in Chicago.
- Identify which PowerShell setting on CLIENT1 and CLIENT2 must be modified to register the integrated system in Chicago.
- Implement a management app that will use Azure Resource Manager to inventory the resources of the integrated system in Chicago.

Security and Compliance Requirements

Litware has the following security and compliance requirements:

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- Litware must have control over certificate revocations.

Business Requirements

Litware wants to ensure that the users at Fabrikam have secure access to the workloads on the integrated system in Boston.

Updates and Hotfixes

The current hotfixes and updates available for Azure Stack Hub are:

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One Time!

- 2005
- 2005 hotfix 1
- 2005 hotfix 2
- 2005 hotfix 3
- 2008
- 2008 hotfix 1
- 2008 hotfix 2
- 2011 (latest version)

You need to identify the PEP information for the integrated system in Chicago. The solution must meet the technical requirements.

What should you use?

- A. the DNS zone of litwareinc.com
- B. the Get-AzsRegistrationToken cmdlet
- C. Properties on the Region management blade of the administrator portal
- D. the DNS zone of northcentralus.litwareinc.com

Answer: C Explanation:

https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-privileged-endpoint?view=azs-2008

QUESTION 3

Case Study 1 - Litware Inc

Overview

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Existing Environment

Network Environment

The Litware offices and the Fabrikam office connect by using a private circuit. Each office connects directly to the Internet.

Identity Environment

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The Azure subscriptions of Litware are associated to the litwareic.com Azure AD tenant.

Fabrikam also has an Azure AD tenant.

Azure Stack Hub Environment

Litware has the following two Azure Stack Hub integrated systems:

- A fully operational integrated system in Boston that connects to the Internet and has the following configurations:
 - Is managed by using an administrator management endpoint of:

https://adminportal.eastus.litwareinc.com

- Has an Azure App Service deployment that has two dedicated, large web workers
- Currently uses version 2005 of Azure Stack Hub and does NOT have any hotfixes installed
- A newly delivered integrated system in Chicago that is disconnected from the Internet and will be managed by using an administrator management endpoint of: https://adminportal.northcentralus.litwareinc.com

Datacenter Environment

The Chicago datacenter of Litware contains the infrastructure shown in the following table.

Host Operating system		Configuration				
CLIENT1	Windows 10	Can connect to the Internet and CLIENT2				
CLIENT2 Windows 10		Can connect to Azure Stack Hub and CLIENT1				
ADFS1,	Windows Server	An AD FS farm that is accessible via				
ADFS2	2019	https://adfs.northcentralus.litwareinc.com				

Current Problems



One Time!

During heavy usage, requests to App Service in Boston fail despite low utilization of the web workers.

Requirements

Planned Changes

Litware plans to implement the following changes:

- Deploy an Event Hubs resource provider to the integrated system in Boston.
- Make Azure Functions available to Azure Stack Hub users in Boston.
- Prepare the integrated system in Chicago to be production-ready.

Technical Requirements

Litware identifies the following technical requirements:

- Implement an infrastructure to support Azure Functions on the integrated system in Boston.
- Provision the certificates required to deploy the Event Hubs resource provider to the integrated system in Boston.
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- Implement a management app that will use Azure Resource Manager to inventory the resources of the integrated system in Chicago.

Security and Compliance Requirements

Litware has the following security and compliance requirements:

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- Litware must have control over certificate revocations.

Business Requirements

Litware wants to ensure that the users at Fabrikam have secure access to the workloads on the integrated system in Boston.

Updates and Hotfixes

The current hotfixes and updates available for Azure Stack Hub are:

- 2005
- 2005 hotfix 1
- 2005 hotfix 2
- 2005 hotfix 3
- **2008**
- 2008 hotfix 1
- 2008 hotfix 2
- 2011 (latest version)

Hotspot Question

You need to identify the procedure for creating the subscriptions on the integrated system in Chicago. The solution must meet the technical requirements.

What should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



Answer Area

Configure an offer that has a state of:

Decommissioned
Private
Public

Create the subscriptions by using https://:

adfs
adminportal
portal

Answer:

Answer Area

Configure an offer that has a state of:		•
	Decommissioned	
	Private	
	Public	
Create the subscriptions by using https://:		•
	adfs	
	adminportal	
	portal	

Explanation:

https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-subscribe-plan-provision-vm?view=azs-https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-create-offer?view=azs-2008

QUESTION 4

Case Study 1 - Litware Inc

Overview

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Litware has a main office in Boston and a research department in Chicago. Each location has a datacenter. Fabrikam has an office in Boston.

Existing Environment

Network Environment

The Litware offices and the Fabrikam office connect by using a private circuit. Each office connects directly to the Internet.

Identity Environment

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One Time!

The Litware network contains an Active Directory forest named litwareinc.com. The forest and an Azure Active Directory (Azure AD) tenant named litwareinc.com are integrated by using Active Directory Federation Services (AD FS). Litware has an enterprise certification authority (CA).

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Azure Stack Hub Environment

Litware has the following two Azure Stack Hub integrated systems:

- A fully operational integrated system in Boston that connects to the Internet and has the following configurations:
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- Currently uses version 2005 of Azure Stack Hub and does NOT have any hotfixes installed
- A newly delivered integrated system in Chicago that is disconnected from the Internet and will be managed by using an administrator management endpoint of: https://adminportal.northcentralus.litwareinc.com

Datacenter Environment

The Chicago datacenter of Litware contains the infrastructure shown in the following table.

Host	Operating system	Configuration				
CLIENT1	Windows 10	Can connect to the Internet and CLIENT2				
CLIENT2 Windows 10		Can connect to Azure Stack Hub and CLIENT1				
ADFS1,	Windows Server	An AD FS farm that is accessible via				
ADFS2	2019	https://adfs.northcentralus.litwareinc.com				

Current Problems

During heavy usage, requests to App Service in Boston fail despite low utilization of the web workers.

Requirements

Planned Changes

Litware plans to implement the following changes:

- Deploy an Event Hubs resource provider to the integrated system in Boston.
- Make Azure Functions available to Azure Stack Hub users in Boston.
- Prepare the integrated system in Chicago to be production-ready.

Technical Requirements

Litware identifies the following technical requirements:

- Implement an infrastructure to support Azure Functions on the integrated system in Boston.
- Provision the certificates required to deploy the Event Hubs resource provider to the integrated system in Boston.
- Configure an identity provider for the integrated system in Chicago.
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- Implement a management app that will use Azure Resource Manager to inventory the resources of the integrated system in Chicago.

Security and Compliance Requirements

Litware has the following security and compliance requirements:

- All infrastructure software must run the latest version, including hotfixes.
- Litware must have control over certificate revocations.

Business Requirements

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Updates and Hotfixes

The current hotfixes and updates available for Azure Stack Hub are:

- 2005
- 2005 hotfix 1
- 2005 hotfix 2



One Time!

- 2005 hotfix 3
- 2008
- 2008 hotfix 1
- 2008 hotfix 2
- 2011 (latest version)

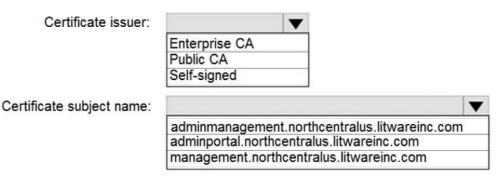
Hotspot Question

You need to identify the certificate for the integrated system in Chicago. The solution must meet the technical requirements.

What should you identify? To answer, select the appropriate options in the answer area.

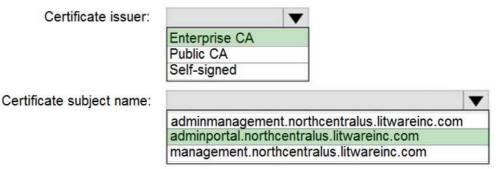
NOTE: Each correct selection is worth one point.

Answer Area



Answer:

Answer Area



Explanation:

When deploying Azure Stack Hub in disconnected mode it is recommended to use certificates issued by an enterprise certificate authority. This is important because clients accessing Azure Stack Hub endpoints must be able to contact the certificate revocation list (CRL).

Reference:

https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-pki-certs?view=azs-2008

QUESTION 5

Case Study 1 - Litware Inc

Overview

Litware Inc. is a renewable energy company. Litware has a business partner named Fabrikam, Ltd. that develops custom software for Litware.

Litware has a main office in Boston and a research department in Chicago. Each location has a datacenter. Fabrikam has an office in Boston.

Existing Environment

Network Environment

The Litware offices and the Fabrikam office connect by using a private circuit. Each office connects directly to the Internet.

Identity Environment

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One Time!

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The Azure subscriptions of Litware are associated to the litwareic.com Azure AD tenant.

Fabrikam also has an Azure AD tenant.

Azure Stack Hub Environment

Litware has the following two Azure Stack Hub integrated systems:

- A fully operational integrated system in Boston that connects to the Internet and has the following configurations:
 - Is managed by using an administrator management endpoint of: https://adminportal.eastus.litwareinc.com
 - Has an Azure App Service deployment that has two dedicated, large web workers
 - Currently uses version 2005 of Azure Stack Hub and does NOT have any hotfixes installed
- A newly delivered integrated system in Chicago that is disconnected from the Internet and will be managed by using an administrator management endpoint of: https://adminportal.northcentralus.litwareinc.com

Datacenter Environment

The Chicago datacenter of Litware contains the infrastructure shown in the following table.

Host	Operating system	Configuration				
CLIENT1	Windows 10	Can connect to the Internet and CLIENT2				
CLIENT2 Windows 10		Can connect to Azure Stack Hub and CLIENT1				
ADFS1,	Windows Server	An AD FS farm that is accessible via				
ADFS2	2019	https://adfs.northcentralus.litwareinc.com				

Current Problems

During heavy usage, requests to App Service in Boston fail despite low utilization of the web workers.

Requirements

Planned Changes

Litware plans to implement the following changes:

- Deploy an Event Hubs resource provider to the integrated system in Boston.
- Make Azure Functions available to Azure Stack Hub users in Boston.
- Prepare the integrated system in Chicago to be production-ready.

Technical Requirements

Litware identifies the following technical requirements:

- Implement an infrastructure to support Azure Functions on the integrated system in Boston.
- Provision the certificates required to deploy the Event Hubs resource provider to the integrated system in Boston.
- Configure an identity provider for the integrated system in Chicago.
- Locate the IP address of the privileged endpoint (PEP) of the integrated system in Chicago.
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- Provision a certificate to provide access to the Azure Resource Manager endpoint of the integrated system in Chicago.
- Identify which PowerShell setting on CLIENT1 and CLIENT2 must be modified to register the integrated system in Chicago.
- Implement a management app that will use Azure Resource Manager to inventory the resources of the integrated system in Chicago.

Security and Compliance Requirements

Litware has the following security and compliance requirements:

- All infrastructure software must run the latest version, including hotfixes.
- Litware must have control over certificate revocations.

Business Requirements

Litware wants to ensure that the users at Fabrikam have secure access to the workloads on the integrated system in Boston.

Updates and Hotfixes

The current hotfixes and updates available for Azure Stack Hub are:

- 2005
- 2005 hotfix 1
- 2005 hotfix 2



One Time!

- 2005 hotfix 3
- 2008
- 2008 hotfix 1
- 2008 hotfix 2
- 2011 (latest version)

Hotspot Question

You need to register the northcentralus region.

How should you complete the command? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area



Answer:

Answer Area



Explanation:

https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-registration?view=azs-2008&tabs=az1%2Caz2%2Caz3%2Caz4&pivots=state-disconnected

QUESTION 6

Case Study 1 - Litware Inc

Overview

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Litware has a main office in Boston and a research department in Chicago. Each location has a datacenter. Fabrikam has an office in Boston.

Existing Environment

Network Environment

The Litware offices and the Fabrikam office connect by using a private circuit. Each office connects directly to the Internet.

Identity Environment

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The Azure subscriptions of Litware are associated to the litwareic.com Azure AD tenant.

Fabrikam also has an Azure AD tenant.

Azure Stack Hub Environment

Litware has the following two Azure Stack Hub integrated systems:

- A fully operational integrated system in Boston that connects to the Internet and has the following configurations:
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 - Has an Azure App Service deployment that has two dedicated, large web workers
 - Currently uses version 2005 of Azure Stack Hub and does NOT have any hotfixes installed



One Time!

 A newly delivered integrated system in Chicago that is disconnected from the Internet and will be managed by using an administrator management endpoint of: https://adminportal.northcentralus.litwareinc.com

Datacenter Environment

The Chicago datacenter of Litware contains the infrastructure shown in the following table.

Host	Operating system	Configuration				
CLIENT1	Windows 10	Can connect to the Internet and CLIENT2				
CLIENT2	Windows 10	Can connect to Azure Stack Hub and CLIENT1				
ADFS1,	Windows Server	An AD FS farm that is accessible via				
ADFS2	2019	https://adfs.northcentralus.litwareinc.com				

Current Problems

During heavy usage, requests to App Service in Boston fail despite low utilization of the web workers.

Requirements

Planned Changes

Litware plans to implement the following changes:

- Deploy an Event Hubs resource provider to the integrated system in Boston.
- Make Azure Functions available to Azure Stack Hub users in Boston.
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Technical Requirements

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- Identify which PowerShell setting on CLIENT1 and CLIENT2 must be modified to register the integrated system in Chicago.
- Implement a management app that will use Azure Resource Manager to inventory the resources of the integrated system in Chicago.

Security and Compliance Requirements

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Business Requirements

Litware wants to ensure that the users at Fabrikam have secure access to the workloads on the integrated system in Boston.

Updates and Hotfixes

The current hotfixes and updates available for Azure Stack Hub are:

- 2005
- 2005 hotfix 1
- 2005 hotfix 2
- 2005 hotfix 3
- 2008
- 2008 hotfix 1
- 2008 hotfix 2
- 2011 (latest version)

Hotspot Question

You need to identify the authentication and authorization process for the integrated system in Chicago. The solution must meet the technical requirements.

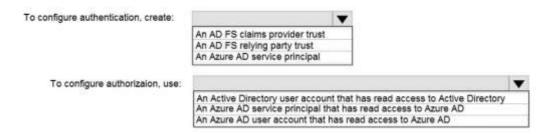
What should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



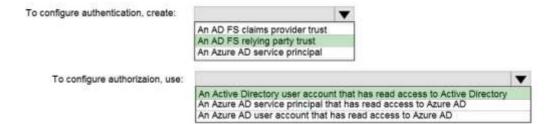
One Time!

Answer Area



Answer:

Answer Area



Explanation:

https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-integrate-identity?view=azs-2008

QUESTION 7

Case Study 1 - Litware Inc

Overview

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Network Environment

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Litware has the following two Azure Stack Hub integrated systems:

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Datacenter Environment

The Chicago datacenter of Litware contains the infrastructure shown in the following table.



One Time!

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CLIENT2	Windows 10	Can connect to Azure Stack Hub and CLIENT1			
ADFS1,	Windows Server	An AD FS farm that is accessible via			
ADFS2	2019	https://adfs.northcentralus.litwareinc.com			

Current Problems

During heavy usage, requests to App Service in Boston fail despite low utilization of the web workers.

Requirements

Planned Changes

Litware plans to implement the following changes:

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Business Requirements

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Updates and Hotfixes

The current hotfixes and updates available for Azure Stack Hub are:

- 2005
- 2005 hotfix 1
- 2005 hotfix 2
- 2005 hotfix 3
- 2008
- 2008 hotfix 1
- 2008 hotfix 2
- 2011 (latest version)

Hotspot Question

You need to implement the App Service infrastructure to address the current issues and support the planned changes for Azure Functions in Boston.

What should you do?To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

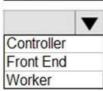


Answer Area

To implement the planned changes, deploy:

Web worker – dedicated instances – medium
Web worker – dedicated instances – small
Web worker – shared instances

To address the current issues, scale out the following App Service role:



Answer:

Answer Area

To implement the planned changes, deploy:

Web worker – dedicated instances – medium
Web worker – dedicated instances – small
Web worker – shared instances

To address the current issues, scale out the following App Service role:



Explanation:

https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-app-service-capacity-planning?view=azs-2008

QUESTION 8

Case Study 2 - Northwind Traders

Overview

A company named Northwind Traders has a main office and a datacenter. All development occurs at the main office.

Existing Environment

Identity Environment

The network contains an Active Directory forest named northwind.com. The forest and an Azure Active Directory (Azure AD) tenant named northwind.onmicrosoft.com are integrated by using Active Directory Federation Service (AD FS). All Azure subscriptions use the northwind.onmicrosoft.com Azure AD tenant.

Northwind Traders uses an Enterprise Agreement (EA) subscription.

All operators are global administrators in northwind.onmicrosoft.com.

Azure Stack Hub Environment

Northwind Traders has the following five Azure Stack Hub integrated systems:

- One integrated system that connects to an internet-facing network and has the following configurations:
 - The region name is int1.
 - The operators do not have access to the user subscriptions.
 - The integrated system is used for customer and partner applications.
 - The partners and customers of NorthWind Traders use guest user accounts to access various user resources.
- Two integrated systems that connect to a private network, are accessed only from inside the company, and have the following configurations:
 - The integrated systems are dedicated to research and development.
 - One integrated system has a region name of priv1, and the other has a region name of priv2.
 - The integrated systems are used for various data rendering, AI workloads, inference, and data visualization.

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One Time!

- Two integrated systems that are dedicated to application development and have the following configurations:
 - The integrated systems are disconnected from the Internet. The workloads in the user subscriptions have Internet access.
 - One integrated system has a region name of dev1, and the other has a region name of dev2.
 - Both regions are used only by developers at Northwind Traders.

The external domain name of all the integrated systems is northwind.com. All the integrated systems have Azure App Service and the Azure Kubernetes Service (AKS) engine deployed.

The computer of the operator in each region has all the prerequisite software installed for managing Azure Stack Hub. **Current Problems**

You identify the following issues in the current environment:

- The priv2 region recently experienced a catastrophic failure.
- The developers report high chargeback costs for the dev1 region.
- The int1 region runs a high number of Windows virtual machines that use pay-as-you-use images.
- The Northwind Traders partners and customers report that use of the guest user accounts is too complex.
- Users in the priv1 region recently deployed NCas_v4 virtual machines for various AI workload. The users discover
 that the virtual machines do not use GPUs.

Requirements

Planned Changes

Northwind Traders plans to implement the following changes:

- Remove all guest user accounts.
- Change the DNS forwarder of the priv1 region.
- Change the billing model and registration name of the int1 region.
- After the catastrophic failure, restore the priv2 region to its original state.
- Provide each partner with its own dedicated user subscription that will use its own dedicated Azure AD tenant.

Technical Requirements

Northwind Traders identifies the following technical requirements:

- Minimize hardware and software costs.
- Standardize all datacenter workloads on Azure Stack Hub.
- In the priv1 region, implement a disaster recovery plan for App Service.
- Whenever possible, implement solutions by using the minimum amount of administrative effort.
- In the dev2 region, update the AKS Base Ubuntu image to the latest version in Azure Stack Hub Marketplace.
- Whenever possible, implement solutions by using built-in tools, features, and services without acquiring additional third-party tools.
- For the users' virtual machines and the associated resources in the dev1 and dev2 regions, implement a business continuity and disaster recovery plan that includes an automated failback process.
- If changes to the Azure Stack Hub infrastructure cause workload downtime outside of planned maintenance windows, notify all users in the region where the downtime occurred and schedule a maintenance window.

You remove all the workloads from the int1 region and change the registration model to capacity.

You prepare additional Azure AD tenants for each partner.

You need to configure multitenancy.

Which two actions should you perform for each guest tenant? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Run the Register-AzSWithMyDirectoryTenant cmdlet and specify https://management.int1.northwind.com as the endpoint.
- B. Run the Register-AzSGuestDirectoryTenant cmdlet and specify https://management.int1.northwind.com as the endpoint.
- C. Run the Register-AzSGuestDirectoryTenant cmdlet and specify https://adminmanagement.int1.northwind.com as the endpoint.
- D. Change the registration model to pay-as-you-use.
- E. Run the Register-AzSWithMyDirectoryTenant cmdlet and specify https://adminmanagement.int1.northwind.com as the endpoint.

Answer: AC Explanation:



One Time!

https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-enable-multitenancy?view=azs-2008

QUESTION 9

Case Study 2 - Northwind Traders

Overview

A company named Northwind Traders has a main office and a datacenter. All development occurs at the main office.

Existing Environment

Identity Environment

The network contains an Active Directory forest named northwind.com. The forest and an Azure Active Directory (Azure AD) tenant named northwind.onmicrosoft.com are integrated by using Active Directory Federation Service (AD FS). All Azure subscriptions use the northwind.onmicrosoft.com Azure AD tenant.

Northwind Traders uses an Enterprise Agreement (EA) subscription.

All operators are global administrators in northwind.onmicrosoft.com.

Azure Stack Hub Environment

Northwind Traders has the following five Azure Stack Hub integrated systems:

- One integrated system that connects to an internet-facing network and has the following configurations:
 - The region name is int1.
 - The operators do not have access to the user subscriptions.
 - The integrated system is used for customer and partner applications.
 - The partners and customers of NorthWind Traders use guest user accounts to access various user resources.
- Two integrated systems that connect to a private network, are accessed only from inside the company, and have the following configurations:
 - The integrated systems are dedicated to research and development.
 - One integrated system has a region name of priv1, and the other has a region name of priv2.
 - The integrated systems are used for various data rendering, Al workloads, inference, and data visualization.
- Two integrated systems that are dedicated to application development and have the following configurations:
 - The integrated systems are disconnected from the Internet. The workloads in the user subscriptions have Internet access.
 - One integrated system has a region name of dev1, and the other has a region name of dev2.
 - Both regions are used only by developers at Northwind Traders.

The external domain name of all the integrated systems is northwind.com. All the integrated systems have Azure App Service and the Azure Kubernetes Service (AKS) engine deployed.

The computer of the operator in each region has all the prerequisite software installed for managing Azure Stack Hub. **Current Problems**

You identify the following issues in the current environment:

- The priv2 region recently experienced a catastrophic failure.
- The developers report high chargeback costs for the dev1 region.
- The int1 region runs a high number of Windows virtual machines that use pay-as-you-use images.
- The Northwind Traders partners and customers report that use of the guest user accounts is too complex.
- Users in the priv1 region recently deployed NCas_v4 virtual machines for various AI workload. The users discover
 that the virtual machines do not use GPUs.

Requirements

Planned Changes

Northwind Traders plans to implement the following changes:

- · Remove all guest user accounts.
- Change the DNS forwarder of the priv1 region.
- Change the billing model and registration name of the int1 region.
- After the catastrophic failure, restore the priv2 region to its original state.
- Provide each partner with its own dedicated user subscription that will use its own dedicated Azure AD tenant.

Technical Requirements

Northwind Traders identifies the following technical requirements:

- Minimize hardware and software costs.
- Standardize all datacenter workloads on Azure Stack Hub.
- In the priv1 region, implement a disaster recovery plan for App Service.
- Whenever possible, implement solutions by using the minimum amount of administrative effort.
- In the dev2 region, update the AKS Base Ubuntu image to the latest version in Azure Stack Hub Marketplace.

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One Time!

- Whenever possible, implement solutions by using built-in tools, features, and services without acquiring additional third-party tools.
- For the users' virtual machines and the associated resources in the dev1 and dev2 regions, implement a business continuity and disaster recovery plan that includes an automated failback process.
- If changes to the Azure Stack Hub infrastructure cause workload downtime outside of planned maintenance windows, notify all users in the region where the downtime occurred and schedule a maintenance window.

You need to recommend a business continuity and disaster recovery plan for the dev1 and dev2 regions that meets the technical requirements.

Which two recommendations should you make? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Implement the Infrastructure Backup Service
- B. Use an Azure Marketplace backup tool in each region to protect the virtual machines that run in the other region
- C. Implement Azure Site Recovery
- D. Use Infrastructure as Code (IaC) by using Azure Resource Manager templates

Answer: BD

QUESTION 10

Case Study 2 - Northwind Traders

Overview

A company named Northwind Traders has a main office and a datacenter. All development occurs at the main office.

Existing Environment

Identity Environment

The network contains an Active Directory forest named northwind.com. The forest and an Azure Active Directory (Azure AD) tenant named northwind.onmicrosoft.com are integrated by using Active Directory Federation Service (AD FS). All Azure subscriptions use the northwind.onmicrosoft.com Azure AD tenant.

Northwind Traders uses an Enterprise Agreement (EA) subscription.

All operators are global administrators in northwind.onmicrosoft.com.

Azure Stack Hub Environment

Northwind Traders has the following five Azure Stack Hub integrated systems:

- One integrated system that connects to an internet-facing network and has the following configurations:
 - The region name is int1.
 - The operators do not have access to the user subscriptions.
 - The integrated system is used for customer and partner applications.
 - The partners and customers of NorthWind Traders use guest user accounts to access various user resources.
- Two integrated systems that connect to a private network, are accessed only from inside the company, and have the following configurations:
 - The integrated systems are dedicated to research and development.
 - One integrated system has a region name of priv1, and the other has a region name of priv2.
 - The integrated systems are used for various data rendering, AI workloads, inference, and data visualization.
- Two integrated systems that are dedicated to application development and have the following configurations:
 - The integrated systems are disconnected from the Internet. The workloads in the user subscriptions have Internet access.
 - One integrated system has a region name of dev1, and the other has a region name of dev2.
 - Both regions are used only by developers at Northwind Traders.

The external domain name of all the integrated systems is northwind.com. All the integrated systems have Azure App Service and the Azure Kubernetes Service (AKS) engine deployed.

The computer of the operator in each region has all the prerequisite software installed for managing Azure Stack Hub.

Current Problems

You identify the following issues in the current environment:

- The priv2 region recently experienced a catastrophic failure.
- The developers report high chargeback costs for the dev1 region.
- The int1 region runs a high number of Windows virtual machines that use pay-as-you-use images.
- The Northwind Traders partners and customers report that use of the guest user accounts is too complex.

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One Time!

• Users in the priv1 region recently deployed NCas_v4 virtual machines for various AI workload. The users discover that the virtual machines do not use GPUs.

Requirements

Planned Changes

Northwind Traders plans to implement the following changes:

- · Remove all guest user accounts.
- Change the DNS forwarder of the priv1 region.
- Change the billing model and registration name of the int1 region.
- After the catastrophic failure, restore the priv2 region to its original state.
- Provide each partner with its own dedicated user subscription that will use its own dedicated Azure AD tenant.

Technical Requirements

Northwind Traders identifies the following technical requirements:

- Minimize hardware and software costs.
- · Standardize all datacenter workloads on Azure Stack Hub.
- In the priv1 region, implement a disaster recovery plan for App Service.
- Whenever possible, implement solutions by using the minimum amount of administrative effort.
- In the dev2 region, update the AKS Base Ubuntu image to the latest version in Azure Stack Hub Marketplace.
- Whenever possible, implement solutions by using built-in tools, features, and services without acquiring additional third-party tools.
- For the users' virtual machines and the associated resources in the dev1 and dev2 regions, implement a business continuity and disaster recovery plan that includes an automated failback process.
- If changes to the Azure Stack Hub infrastructure cause workload downtime outside of planned maintenance windows, notify all users in the region where the downtime occurred and schedule a maintenance window.

You need to resolve the performance issue reported by the users in the priv1 region.

What should you do?

- A. Redeploy the virtual machines to a new Azure Stack Hub node
- B. Install the NVIDIA drivers on the virtual machines
- C. Install the AMD drivers on the virtual machines
- D. Add an additional scale unit node

Answer: C Explanation:

https://docs.microsoft.com/en-us/azure/virtual-machines/windows/n-series-amd-driver-setup

QUESTION 11

Case Study 2 - Northwind Traders

Overview

A company named Northwind Traders has a main office and a datacenter. All development occurs at the main office.

Existing Environment

Identity Environment

The network contains an Active Directory forest named northwind.com. The forest and an Azure Active Directory (Azure AD) tenant named northwind.onmicrosoft.com are integrated by using Active Directory Federation Service (AD FS). All Azure subscriptions use the northwind.onmicrosoft.com Azure AD tenant.

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Azure Stack Hub Environment

Northwind Traders has the following five Azure Stack Hub integrated systems:

- One integrated system that connects to an internet-facing network and has the following configurations:
 - The region name is int1.
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- Two integrated systems that connect to a private network, are accessed only from inside the company, and have the following configurations:

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One Time!

- The integrated systems are dedicated to research and development.
- One integrated system has a region name of priv1, and the other has a region name of priv2.
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- Two integrated systems that are dedicated to application development and have the following configurations:
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 - Both regions are used only by developers at Northwind Traders.

The external domain name of all the integrated systems is northwind.com. All the integrated systems have Azure App Service and the Azure Kubernetes Service (AKS) engine deployed.

The computer of the operator in each region has all the prerequisite software installed for managing Azure Stack Hub.

Current Problems

You identify the following issues in the current environment:

- The priv2 region recently experienced a catastrophic failure.
- The developers report high chargeback costs for the dev1 region.
- The int1 region runs a high number of Windows virtual machines that use pay-as-you-use images.
- The Northwind Traders partners and customers report that use of the guest user accounts is too complex.
- Users in the priv1 region recently deployed NCas_v4 virtual machines for various AI workload. The users discover
 that the virtual machines do not use GPUs.

Requirements

Planned Changes

Northwind Traders plans to implement the following changes:

- Remove all guest user accounts.
- Change the DNS forwarder of the priv1 region.
- Change the billing model and registration name of the int1 region.
- After the catastrophic failure, restore the priv2 region to its original state.
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Technical Requirements

Northwind Traders identifies the following technical requirements:

- · Minimize hardware and software costs.
- · Standardize all datacenter workloads on Azure Stack Hub.
- In the priv1 region, implement a disaster recovery plan for App Service.
- Whenever possible, implement solutions by using the minimum amount of administrative effort.
- In the dev2 region, update the AKS Base Ubuntu image to the latest version in Azure Stack Hub Marketplace.
- Whenever possible, implement solutions by using built-in tools, features, and services without acquiring additional third-party tools.
- For the users' virtual machines and the associated resources in the dev1 and dev2 regions, implement a business continuity and disaster recovery plan that includes an automated failback process.
- If changes to the Azure Stack Hub infrastructure cause workload downtime outside of planned maintenance windows, notify all users in the region where the downtime occurred and schedule a maintenance window.

You need to change the DNS forwarder of the priv1 region.

Which two actions should you perform? Each correct answer presents part of the solution?

NOTE: Each correct selection is worth one point.

- A. Run the Register-CustomDnsServer cmdlet
- B. Run the Add-DnsServerForwarder cmdlet
- C. Run the Set-AzsDnsForwarder cmdlet
- D. Connect to the administrator management endpoint of the priv1 region
- E. Connect to privileged endpoint (PEP) of the priv1 region

Answer: CE Explanation:

https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-configure-dns?view=azs-2008

QUESTION 12

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One Time!

Case Study 2 - Northwind Traders Overview

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Identity Environment

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The external domain name of all the integrated systems is northwind.com. All the integrated systems have Azure App Service and the Azure Kubernetes Service (AKS) engine deployed.

The computer of the operator in each region has all the prerequisite software installed for managing Azure Stack Hub.

Current Problems

You identify the following issues in the current environment:

- The priv2 region recently experienced a catastrophic failure.
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- The Northwind Traders partners and customers report that use of the guest user accounts is too complex.
- Users in the priv1 region recently deployed NCas_v4 virtual machines for various AI workload. The users discover
 that the virtual machines do not use GPUs.

Requirements

Planned Changes

Northwind Traders plans to implement the following changes:

- Remove all guest user accounts.
- Change the DNS forwarder of the priv1 region.
- Change the billing model and registration name of the int1 region.
- After the catastrophic failure, restore the priv2 region to its original state.
- · Provide each partner with its own dedicated user subscription that will use its own dedicated Azure AD tenant.

Technical Requirements

Northwind Traders identifies the following technical requirements:

- · Minimize hardware and software costs.
- Standardize all datacenter workloads on Azure Stack Hub.
- In the priv1 region, implement a disaster recovery plan for App Service.
- · Whenever possible, implement solutions by using the minimum amount of administrative effort.
- In the dev2 region, update the AKS Base Ubuntu image to the latest version in Azure Stack Hub Marketplace.
- Whenever possible, implement solutions by using built-in tools, features, and services without acquiring additional third-party tools.



One Time!

- For the users' virtual machines and the associated resources in the dev1 and dev2 regions, implement a business continuity and disaster recovery plan that includes an automated failback process.
- If changes to the Azure Stack Hub infrastructure cause workload downtime outside of planned maintenance windows, notify all users in the region where the downtime occurred and schedule a maintenance window.

The priv2 region is redeployed according to the planned changes.

You need to restore App Service.

Which three components should you restore? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. the App Service roles and services
- B. the file server share content
- C. the infrastructure backup
- D. the worker role virtual machine
- E. the App Service databases
- F. the default domain certificate

Answer: ABE Explanation:

https://docs.microsoft.com/en-us/azure-stack/operator/app-service-recover?view=azs-2008

QUESTION 13

Case Study 2 - Northwind Traders

Overview

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Existing Environment

Identity Environment

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Northwind Traders uses an Enterprise Agreement (EA) subscription.

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Azure Stack Hub Environment

Northwind Traders has the following five Azure Stack Hub integrated systems:

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 - One integrated system has a region name of dev1, and the other has a region name of dev2.
 - Both regions are used only by developers at Northwind Traders.

The external domain name of all the integrated systems is northwind.com. All the integrated systems have Azure App Service and the Azure Kubernetes Service (AKS) engine deployed.

The computer of the operator in each region has all the prerequisite software installed for managing Azure Stack Hub.

Current Problems

You identify the following issues in the current environment:

- The priv2 region recently experienced a catastrophic failure.
- The developers report high chargeback costs for the dev1 region.
- The int1 region runs a high number of Windows virtual machines that use pay-as-you-use images.

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One Time!

- The Northwind Traders partners and customers report that use of the guest user accounts is too complex.
- Users in the priv1 region recently deployed NCas_v4 virtual machines for various AI workload. The users discover
 that the virtual machines do not use GPUs.

Requirements

Planned Changes

Northwind Traders plans to implement the following changes:

- Remove all guest user accounts.
- Change the DNS forwarder of the priv1 region.
- Change the billing model and registration name of the int1 region.
- After the catastrophic failure, restore the priv2 region to its original state.
- Provide each partner with its own dedicated user subscription that will use its own dedicated Azure AD tenant.

Technical Requirements

Northwind Traders identifies the following technical requirements:

- · Minimize hardware and software costs.
- Standardize all datacenter workloads on Azure Stack Hub.
- In the priv1 region, implement a disaster recovery plan for App Service.
- Whenever possible, implement solutions by using the minimum amount of administrative effort.
- In the dev2 region, update the AKS Base Ubuntu image to the latest version in Azure Stack Hub Marketplace.
- Whenever possible, implement solutions by using built-in tools, features, and services without acquiring additional third-party tools.
- For the users' virtual machines and the associated resources in the dev1 and dev2 regions, implement a business continuity and disaster recovery plan that includes an automated failback process.
- If changes to the Azure Stack Hub infrastructure cause workload downtime outside of planned maintenance windows, notify all users in the region where the downtime occurred and schedule a maintenance window.

Drag and Drop Question

You schedule a planned maintenance window.

Actions

You need to perform an Azure Stack Hub update in the dev1 region. The solution must meet the technical requirements.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Answer Area

Complete the activities identified in the Azure Stack Hub update activity checklist. From the administrator portal, start the update process From a privileged endpoint (PEP) session, run the Stop-AzureStack and Start-AzureStack cmdlets. Download the required package and import the package to the respective storage account in the dev1 region. Notify the users of the planned maintenance.

Answer:



One Time!

Actions

Answer Area

Complete the activities identified in the Azure Stack Hub update activity checklist.

Download the required package and import the package to the respective storage account in the dev1 region.

From a privileged endpoint (PEP) session, run the Stop-AzureStack and Start-AzureStack cmdlets.



From the administrator portal, start the update process



Notify the users of the planned maintenance.

Explanation:

https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-updates?view=azs-2008

QUESTION 14

You have an Azure Stack Hub integrated system that connects to the Internet.

You are migrating several Hyper-V workloads to Azure Stack Hub. Billing for the workloads is consumption-based. You need to predict the ongoing Microsoft subscription charges for the workloads.

You run an Azure Migrate assessment and receive the output shown in the following table.



One Time!

Server name	Cores	Memory (In MB)	OS name	Disk 1 size (In GB)	Network throughput (MB per second)	Disk 1 read ops (operations per second)	Disk 1 write ops (operations per second)
VM001.corp.contoso.com	4	4096	Windows Server 2016 (64-bit)	128	10	200	299
VM002.corp.contoso.com	4	4096	Windows Server 2016 (64-bit)	128	15	200	299
VM003.corp.contoso.com	4	4096	Windows Server 2016 (64-bit)	128	130	200	299
VM004.corp.contoso.com	4	4096	Windows Server 2016 (64-bit)	128	120	200	299
VM005.corp.contoso.com	4	4096	Windows Server 2016 (64-bit)	128	4	200	299
VM006.corp.contoso.com	4	4096	Windows Server 2016 (64-bit)	128	12	200	299
VM007.corp.contoso.com	4	4096	Windows Server 2016 (64-bit)	128	129	200	299
VM008.corp.contoso.com	4	4096	Windows Server 2016 (64-bit)	128	300	200	299
VM009.corp.contoso.com	4	4096	Red Hat Enterprise Linux (RHEL) 7.1	128	8	200	299
VM010.corp.contoso.com	4	4096	Oracle Linux 7	128	100	200	299

The values from which three columns affect the ongoing Microsoft subscription charges? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Disk 1 size (In GB)
- B. Network throughput (MB per second)
- C. Cores
- D. Memory (In MB)
- E. Disk 1 read ops (operations per second)
- F. Disk 1 write ops (operations per second)
- G. OS name

Answer: ACD **Explanation**:

https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-usage-related-faq?view=azs-2008

QUESTION 15

Your company is a Cloud Solution Provider (CSP) that provides Azure Stack Hub services to multiple customers in a multitenant environment.

User subscriptions are linked to Azure CSP subscriptions for billing reconciliation.

You need to view the usage of all the customers for the current day and the last seven days.

What should you do?

A. Query the Azure Stack Hub usage API

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One Time!

- B. Query the Partner Center Usage API
- C. From Partner Center, download the daily-rated usage reconciliation CSV
- D. From Partner Center, view the usage associated to the Azure Partner Shared Services (APSS) subscription

Answer: B Explanation:

https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-provider-resource-api?view=azs-2008

QUESTION 16

You have an Azure Stack Hub integrated system.

You need to create a new offer that can be used only by an operator to provision user subscriptions. The solution must simplify the process for users to create resources.

Which type of offer should you create?

- A. public with a base plan only
- B. delegated with a base plan only
- C. private with a base plan only
- D. decommissioned

Answer: B Explanation:

https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-delegated-provider?view=azs-2008

QUESTION 17

You have an Azure Stack Hub integrated system that connects to the Internet.

You need to enable multitenant billing.

What should you do first?

- A. Generate a service principal to connect the Azure Billing API to Azure Commerce
- B. Run the New-AzResource cmdlet
- C. Create a blob storage account named AzSCommerceStaging that stores CSV usage metadata before you send the metadata to Azure Commerce
- D. Email the registration subscription ID, resource group name, and registration name to azstcsp@microsoft.com

Answer: D **Explanation:**

https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-csp-howto-register-tenants?view=azs-2008&tabs=az

QUESTION 18

You plan to deploy a highly available Azure App Service resource provider to an Azure Stack Hub integrated system.

You need to ensure that the App Service resource meets the prerequisites. The solution must minimize costs.

Which two resources should you deploy? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. a highly available Microsoft SQL Server 2019 instance in the default provider subscription
- B. a highly available file server in a dedicated user subscription
- C. a highly available file server in the default provider subscription
- D. a highly available Microsoft SQL Server 2019 instance in a dedicated user subscription
- E. a single file server in the default provider subscription
- F. a single Microsoft SQL Server 2019 instance in the default provider subscription

Answer: AC Explanation:

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https://blog.apps.id.au/adventures-cloud-operator-highly-available-app-service-1-4-azure-stack-step-2-deployment/

QUESTION 19

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure Stack Hub integrated system that connects to the Internet. The integrated system uses an Enterprise Agreement (EA) for licensing.

You are creating an Azure Resource Manager template to generate a marketplace item for a virtual machine that runs Windows Server 2019 Datacenter and a custom application.

You need to ensure that Windows Server is licensed by using the bring-your-own-license model.

Solution: You add OsType: Windows to the Azure Resource Manager template.

Does this meet the goal?

A. Yes B. No

Answer: B Explanation:

https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-windows-server-faq?view=azs-2008&tabs=az1%2Caz2

QUESTION 20

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure Stack Hub integrated system that connects to the Internet. The integrated system uses an Enterprise Agreement (EA) for licensing.

You are creating an Azure Resource Manager template to generate a marketplace item for a virtual machine that runs Windows Server 2019 Datacenter and a custom application.

You need to ensure that Windows Server is licensed by using the bring-your-own-license model.

Solution: You add licenseType: Windows_Server to the Azure Resource Manager template.

Does this meet the goal?

A. Yes B. No

Answer: A Explanation:

https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-windows-server-faq?view=azs-2008&tabs=az1%2Caz2