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AZ-600

Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub (beta)

Version 1.0

## Testlet 1

### Case study

This is a case study. **Case studies are not timed separately. You can use as much exam time as you would like to complete each case.** However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

### To start the case study

To display the first question in this case study, click the **Next** button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an **All Information** tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the **Question** button to return to the question.

### Overview

#### 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
- 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, ADFS2	Windows Server 2019	An AD FS farm that is accessible via <a href="https://adfs.northcentralus.litwareinc.com">https://adfs.northcentralus.litwareinc.com</a>

### 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.
- 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)

**QUESTION 1** 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

**Correct Answer:** D

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference:

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



## Question Set 2

### QUESTION 1

DRAG DROP

You deploy an Azure Stack Hub integrated system that contains an Azure App Service deployment. The integrated system uses an Azure Active Directory (Azure AD) identity provider.

You need to provide users with the ability to deploy App Service web apps directly from their GitHub repositories.

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.

**Select and Place:**

**Correct Answer:**

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-app-service-configure-deployment-sources?view=azs-2008>

**QUESTION 2** You have an Azure Stack Hub integrated system.

You plan to install the Event Hubs resource provider.

You purchase a public wildcard certificate that has a subject name of \*.eventhub.chicago.contoso.com. The path to the certificate is C:\Certificates\ssl.pfx.

You need to validate whether the certificate meets the requirements of Azure Event Hubs.

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



**NOTE:** Each correct selection is worth one point.

- A. Install the `AzureStack.Identity PowerShell` module
- B. Rename the certificate file as `Eventhub.pfx`
- C. Run the `Invoke-AzsHubEventHubsCertificateValidation` cmdlet
- D. Run the `Invoke-AzsHubDeploymentCertificateValidation` cmdlet
- E. Install the `Microsoft.AzureStack.ReadinessChecker Powershell` module
- F. Convert the `Ssl.pfx` file to a CER file

**Correct Answer:** DE

**Section:** [none]

**Explanation**

**Explanation/Reference:**

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

### QUESTION 3

DRAG DROP

You have an Azure Stack Hub integrated system that is disconnected from the Internet.

You need to make a new image available in Azure Stack Hub Marketplace in the disconnected environment.

From a computer that has Internet access, you download all the required tools.

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

**Select and Place:**

**Correct Answer:**

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-download-azure-marketplace-item?view=azs-2008&tabs=az1%2Caz2&pivots=state-disconnected>

**QUESTION 4** You have an Azure Stack Hub integrated system that uses an Azure Active Directory (Azure AD) identity provider.

You have a computer that runs Windows 10. You use the computer to manage the integrated system.

You create a custom marketplace item on the computer.

You need to publish the item to Azure Stack Hub Marketplace.

You create a storage account.

What should you create next?

- A. a container that has a public access level of private
- B. a file share that has the performance tier set to **Hot**
- C. a container that has a public access level of blob
- D. a file share that has the performance tier set to **Transaction optimized**

**Correct Answer:** C

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-create-and-publish-marketplace-item?view=azs-2008&tabs=az#publish-a-marketplace-item>

**QUESTION 5**

You have an Azure Stack Hub integrated system that connects to the Internet. The integrated system uses an Azure Active Directory (Azure AD) identity provider.

You need to update the Azure App Service resource provider.

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

**NOTE:** Each correct selection is worth one point.

- A. Download the App Service installer to a computer that can connect to the Azure Stack Hub endpoints
- B. Run `appservice.exe` as a local administrator
- C. From the Updates blade of the administrator portal, select the Resource providers section
- D. From the Updates blade of the administrator portal, select the infrastructure section
- E. From the administrator portal, select the update, download the update, and then install the update

**Correct Answer:** AB

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference:

<https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-app-service-update?view=azs-2008&pivots=state-connected>



**QUESTION 6**

You have an Azure Stack Hub integrated system that uses an Active Directory Federation Services (AD FS) identity provider and capacity-based billing.

You have a plan named Plan1 that has the following quota configurations for Microsoft.Compute:

- Maximum number of Availability Sets: 10
- Maximum number of virtual machines: 50
- Maximum number of virtual machine cores: 100
- Maximum number of virtual machine scale sets: 10

You link two offers named Offer1 and Offer2 to Plan1.

Two user subscriptions named Customer1 and Customer2 are created based on Offer1. A user subscription named Customer3 is created based on Offer2.

Customer1 receives a warning that it provisioned 50 virtual machines.

You need to ensure that Customer1 can provision an additional 25 virtual machines within its existing subscription. The solution must **NOT** affect the quotas of the other user subscriptions.

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

**NOTE:** Each correct selection is worth one point.

- A. Add NewPlan as an add-on to Offer1
- B. Create a new plan named NewPlan that has the maximum number of virtual machines quota set to 75C. Add NewPlan to the Customer1 user subscription
- D. Create a new plan named NewPlan that has the maximum number of virtual machines quota set to 25
- E. Update the quota for Microsoft.Compute in Plan1 to have the maximum number of virtual machines set to 75
- F. Create a new offer named Offer3 based on Plan1 and create a new user subscription for Customer1 by using Offer3

**Correct Answer:** AD

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference:

<https://docs.microsoft.com/en-us/azure-stack/operator/service-plan-offer-subscription-overview?view=azs-2008> <https://docs.microsoft.com/en-us/azure-stack/operator/create-add-on-plan?view=azs-2008>

**QUESTION 7** 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.



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

**Correct Answer:** ACD

**Section:** [none]

**Explanation**

**Explanation/Reference:**

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

**QUESTION 8** 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
- 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

**Correct Answer:** B

**Section:** [none]

**Explanation**

**Explanation/Reference:**

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

**QUESTION 9** 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

**Correct Answer:** B

**Section:** [none]

**Explanation**

**Explanation/Reference:**

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

**QUESTION 10** 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 CommerceD. Email the registration subscription ID, resource group name, and registration name to azstcsp@microsoft.com

**Correct Answer:** D

**Section:** [none]

**Explanation**

**Explanation/Reference:**

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

**QUESTION 11**

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

**Correct Answer:** AC

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference:

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

## QUESTION 12

### HOTSPOT

You have an Azure Stack Hub integrated system that is disconnected from the Internet. The integrated system is registered to an Azure Active Directory (Azure AD) tenant named contoso.com.

You need to download the latest Ubuntu image for Azure Stack Hub Marketplace.

How should you complete the PowerShell script? To answer, drag the appropriate cmdlets to the correct targets. Each cmdlet may be used once, more than once, or not at all. You may need to drag and split the bar between panes to scroll to view content.

**NOTE:** Each correct selection is worth one point.

**Hot Area:**



## Answer Area

	▼	-Environment AzureCloud -Tenant 'contoso.com'
Add-AzureRmEnvironment		
Connect-AzureRmAccount		
Select-AzureRmContext		
Set-AzureRmEnvironment		

Install-Module -Name

▼
Azs.AzureBridge.Admin
Azs.Commerce.Admin
Azs.Gallery.Admin
Azs.Syndication.Admin

\$MarketplaceItems =

▼
Add-AzsGalleryItem
Export-AzsMarketplaceItem
Import-AzsMarketplaceItem
Select-AzsMarketplaceItem

\$MarketplaceItems |

▼
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Export-AzsMarketplaceItem
Import-AzsMarketplaceItem
Select-AzsMarketplaceItem

-RepositoryDir "D:\MarketplaceItems"



Correct Answer:

## Answer Area

	▼	-Environment AzureCloud -Tenant 'contoso.com'
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Install-Module -Name	▼	
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		Add-AzsGalleryItem
		Export-AzsMarketplaceItem
		Import-AzsMarketplaceItem
		Select-AzsMarketplaceItem



Section: [none]

Explanation

Explanation/Reference:

Reference:

<https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-download-azure-marketplace-item?view=azs-2008&tabs=az1%2Caz2&pivots=state-disconnected>

### QUESTION 13

DRAG DROP

You have an Azure Stack Hub integrated system.

You need to delegate the management of offers to a user named User1.

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

Select and Place:

Correct Answer:

Section: [none]

Explanation

Explanation/Reference:

Reference:

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

### QUESTION 14

**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

**Correct Answer: B**

**Section: [none]**

**Explanation**

**Explanation/Reference:**

#### QUESTION 15

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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

**Correct Answer: A**

**Section: [none]**

**Explanation**

**Explanation/Reference:**

#### QUESTION 16

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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 remove the `licenseType` section from the Azure Resource Manager template.

Does this meet the goal?

- A. Yes
- B. No

**Correct Answer:** B

**Section:** [none]

**Explanation**

**Explanation/Reference:**

#### QUESTION 17

**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.

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

You need to update the Azure Event Hubs service.

Solution: From an internet-connected computer, you run the `Update-AzureRmManagementGroup` cmdlet.

Does this meet the goal?

- A. Yes
- B. No



**Correct Answer:** B

**Section:** [none]

**Explanation**

**Explanation/Reference:**

#### QUESTION 18

**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.

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

You need to update the Azure Event Hubs service.

Solution: From a privileged endpoint (PEP) session, you run the `Install-AzsUpdate` cmdlet.

Does this meet the goal?

- A. Yes
- B. No

**Correct Answer:** A

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference:

<https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-update-monitor?view=azs-2008>

**QUESTION 19**

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

You need to update the Azure Event Hubs service.

Solution: From the Updates blade of the administrator portal, you select the latest update in the infrastructure section.

Does this meet the goal?

- A. Yes
- B. No

**Correct Answer:** B

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.microsoft.com/en-us/azure-stack/operator/resource-provider-apply-updates?view=azs-2008>



## Testlet 1

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### Environment

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

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

### 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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- Make Azure Functions available to Azure Stack Hub users in Boston.
- Prepare the integrated system in Chicago to be production-ready.

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

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

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

### QUESTION 1

#### HOTSPOT

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.

**Hot Area:**

**Correct Answer:**

**Section:** [none]

**Explanation**

**Explanation/Reference:**

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 2

### HOTSPOT

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.

**Hot Area:**

#### Answer Area

	▼	-PrivilegedEndpointCredential \$CloudAdminCred -PrivilegedEndpoint \$PrivilegedEndpoint
Register-AzsEnvironment		
Register-AzureRmResourceProvider		
set-AzContext		
Set-AzsRegistration		

  

-BillingModel	▼	-RegistrationName \$RegistrationName
Capacity		
Development		
PayAsYouUse		
Ruggedized		

**Correct Answer:**

#### Answer Area

	▼	-PrivilegedEndpointCredential \$CloudAdminCred -PrivilegedEndpoint \$PrivilegedEndpoint
Register-AzsEnvironment		
Register-AzureRmResourceProvider		
set-AzContext		
Set-AzsRegistration		

  

-BillingModel	▼	-RegistrationName \$RegistrationName
Capacity		
Development		
PayAsYouUse		
Ruggedized		

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference:

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

## Question Set 2

### QUESTION 1 HOTSPOT

You plan to deploy two Azure Stack Hub integrated systems named AZStack1 and AZStack2.

AZStack1 must meet the following requirements:

- Connect to the Internet.
- Have minimal capital expenditures.
- Use the minimum number of on-premises servers for identity.
- Have no existing licenses for Windows virtual machines deployed.

AZStack2 must meet the following requirements:

- Be disconnected from the Internet.
- Use the minimum number of on-premises servers for identity.
- Support the syndication of Azure Stack Hub Marketplace items.

Which identity provider and licensing model should you use for each integrated system? To answer, select the appropriate options in the answer area.

**NOTE:** Each correct selection is worth one point.

**Hot Area:**

**Correct Answer:**

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-connected-deployment?view=azs-2008>



### QUESTION 2

In which three situations should you update the registration of an Azure Stack Hub integrated system? Each correct answer presents a complete solution.

**NOTE:** Each correct selection is worth one point.

- A. when you add or remove nodes for capacity-based billing
- B. when you change the billing model
- C. when you add or remove nodes for consumption-based billing
- D. when you renew an annual capacity subscription
- E. when you enable Azure Stack Hub for multitenancy
- F. when you update the Azure Active Directory (Azure AD) home directory

**Correct Answer:** ABD

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-registration?view=azs-2008&tabs=az1%2Caz2%2Caz3%2Caz4&pivots=state-connected#renew-or-change-registration>

**QUESTION 3** You have an Azure Stack Hub integrated system that has the following configurations:

- A deployment prefix of AzS
- A physical prefix of AzP

You need to renew the certificates for the integrated system.

To which virtual machine should you establish a PowerShell session?

- A. AzS-ERCS02
- B. AzS-CA01
- C. AzS-WAS01
- D. AzP-S1-N01

**Correct Answer:** A

**Section:** [none]

**Explanation**

**Explanation/Reference:**

**QUESTION 4** You plan to deploy an Azure Stack Hub integrated system that will connect to the Internet.

You need to define the public VIP pool.

What is the smallest subnet mask that you can use for the public VIP pool?

- A. /22
- B. /25
- C. /26
- D. /27

**Correct Answer:** C

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-network?view=azs-2008>

**QUESTION 5** Your company is a Cloud Solution Provider (CSP).

You are planning the deployment of a multitenant Azure Stack Hub integrated system that will host internal company workloads and customer workloads.

You need to register the integrated system.

Which type of Azure subscription should you use for the registration?

- A. Azure Partner Shared Services (APSS)
- B. Enterprise Agreement (EA)
- C. Pay-As-You-Go (PAYG)
- D. CSP

**Correct Answer:** A

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-add-manage-billing-as-a-csp?view=azs-2008>

**QUESTION 6**

HOTSPOT



You have an Azure Stack Hub integrated system.

You need to update the integrated system to use a non-Windows NTP service that has a host name of ntp1.contoso.com.

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

**NOTE:** Each correct selection is worth one point.

**Hot Area:**

**Correct Answer:**

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-configure-time?view=azs-2008>

**QUESTION 7** You plan to deploy an Azure Stack Hub integrated system that will use an Azure Active Directory (Azure AD) identity provider.

You obtain certificates for the deployment.

You need to ensure that the certificates meet the prerequisites for Azure Stack Hub.

Which PowerShell cmdlet should you run?

- A. `Invoke-AzsHubDeploymentCertificateValidation`
- B. `Test-Certificate`
- C. `ConvertTo-AzsPFX`
- D. `Get-PfxCertificate`
- E. `New-AzsHubDeploymentCertificateSigningRequest`



**Correct Answer:** A

**Section:** [none]

**Explanation**

**Explanation/Reference:**

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

**Testlet 1**

**Case study**

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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.
- 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.

**QUESTION 1** 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-AzSWWithMyDirectoryTenant` cmdlet and specify `https://management.intl.northwind.com` as the endpoint.
- B. Run the `Register-AzSGuestDirectoryTenant` cmdlet and specify `https://management.intl.northwind.com` as the endpoint.
- C. Run the `Register-AzSGuestDirectoryTenant` cmdlet and specify `https://adminmanagement.intl.northwind.com` as the endpoint.
- D. Change the registration model to pay-as-you-use.
- E. Run the `Register-AzSWWithMyDirectoryTenant` cmdlet and specify `https://adminmanagement.intl.northwind.com` as the endpoint.

**Correct Answer:** AC

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-enable-multitenancy?view=azs-2008> **Testlet 2**



### Case study

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### Overview

### 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
- 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, ADFS2	Windows Server 2019	An AD FS farm that is accessible via <a href="https://adfs.northcentralus.litwareinc.com">https://adfs.northcentralus.litwareinc.com</a>

### 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.
- 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)

## QUESTION 1

### HOTSPOT

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.

**Hot Area:**

### Answer Area

To configure authentication, create:

- ☐ An AD FS claims provider trust
- ☐ An AD FS relying party trust
- ☐ An Azure AD service principal

To configure authorizaion, use:

- ☐ An Active Directory user account that has read access to Active Directory
- ☐ An Azure AD service principal that has read access to Azure AD
- ☐ An Azure AD user account that has read access to Azure AD

**Correct Answer:**

### Answer Area

To configure authentication, create:

- ☐ An AD FS claims provider trust
- ☒ An AD FS relying party trust
- ☐ An Azure AD service principal

To configure authorizaion, use:

- ☒ An Active Directory user account that has read access to Active Directory
- ☐ An Azure AD service principal that has read access to Azure AD
- ☐ An Azure AD user account that has read access to Azure AD

Section: [none]

Explanation

Explanation/Reference:

Reference: <https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-integrate-identity?view=azs-2008> Question Set 3

## QUESTION 1

HOTSPOT

You have an Azure Stack Hub integrated system that is enabled for multitenancy and uses an Azure Active Directory (Azure AD) tenant named fabrikam.com as an identity provider.

The integrated system has the following guest directory tenants onboarded and enabled for multitenancy:

- com
- onmicrosoft.com •
- onmicrosoft.com

You need to verify whether all the guest directory tenants are registered properly.

How should you complete the PowerShell script? To answer, drag the appropriate cmdlet to the correct targets. Each cmdlet may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

**NOTE:** Each correct selection is worth one point.

Hot Area:

### Answer Area

```

$ArmEndpoint = 
"https://adminmanagement.region1.fabrikam.com"
"https://adminportal.region1.fabrikam.com"
"https://management.region1.fabrikam.com"
"https://portal.region1.fabrikam.com"

$DirectoryTenantName = 
"contoso.com"
"contoso.onmicrosoft.com"
"fabrikam.com"
"fabrikam.onmicrosoft.com"

$GuestDirectorySettings = 
Get-AzsDirectoryTenantIdentifier
Get-AzsHealthReport
Get-AzsUserSubscription
Get-AzureADDirectorySetting
Get-AzureADUserDirectReport

Write-Output -InputObject "Healthy guest directory tenants:"

$GuestDirectorySettings.DirectoryTenants | Where status -EQ 'Healthy' | Select -Object -Property TenantName,
TenantId, Status | Format-Table

Write-Output -InputObject "Unhealthy guest directory tenants:"

$GuestDirectorySettings.DirectoryTenants | Where status -NE 'Healthy' | Select
-Property TenantName, TenantId, Status, | Format-Table

```

AdminResourceManagerEndpoint \$ArmEndpoint -DirectoryTenantName \$DirectoryTenantName

Correct Answer:

## Answer Area

```
$ArmEndpoint = 

|                                                |
|------------------------------------------------|
| ▼                                              |
| "https://adminmanagement.region1.fabrikam.com" |
| "https://adminportal.region1.fabrikam.com"     |
| "https://management.region1.fabrikam.com"      |
| "https://portal.region1.fabrikam.com"          |


```

```
$DirectoryTenantName = 

|                            |
|----------------------------|
| ▼                          |
| "contoso.com"              |
| "contoso.onmicrosoft.com"  |
| "fabrikam.com"             |
| "fabrikam.onmicrosoft.com" |


```

```
$GuestDirectorySettings = 

|                                  |
|----------------------------------|
| ▼                                |
| Get-AzsDirectoryTenantIdentifier |
| Get-AzsHealthReport              |
| Get-AzsUserSubscription          |
| Get-AzureADDirectorySetting      |
| Get-AzureADUserDirectReport      |

 AdminResourceManagerEndpoint $ArmEndpoint -DirectoryTenantName $DirectoryTenantName
```

```
Write-Output -InputObject "Healthy guest directory tenants:"
```

```
$GuestDirectorySettings.DirectoryTenants | Where status -EQ 'Healthy' | Select -Object -Property TenantName, TenantId, Status | Format-Table
```

```
Write-Output -InputObject "Unhealthy guest directory tenants:"
```

```
$GuestDirectorySettings.DirectoryTenants | Where status -NE 'Healthy' | Select -Property TenantName, TenantId, Status, | Format-Table
```



Section: [none]

Explanation

Explanation/Reference:

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

**QUESTION 2** You have a multitenant Azure Stack Hub integrated system for a Cloud Solution Provider (CSP). The integrated system is used by several customers.

You hire a new support technician to help manage the integrated system.

You need to configure access for the support technician. The solution must meet the following requirements:

- The technician must be prevented from accessing customer resources.
- The technician must be able to monitor the status of infrastructure backups.
- The technician must be able to create and manage plans, offers, and quotas.

Which built-in role should you assign to the support technician?

- A. Reader
- B. Owner
- C. Use Access Administrator
- D. Contributor
- E. Backup Operator

**Correct Answer:** D

Section: [none]

Explanation

**Explanation/Reference:**

Reference:

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

**QUESTION 3**

DRAG DROP

You have an Azure Stack Hub integrated system that uses an Azure Active Directory (Azure AD) tenant named contoso.onmicrosoft.com as an identity provider.

You need to ensure that users from an Azure AD tenant named fabrikam.onmicrosoft.com can authenticate to the integrated system.

Which four 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.

**Select and Place:**

**Correct Answer:**

**Section: [none]**

**Explanation**

**Explanation/Reference:**

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

**QUESTION 4**

DRAG DROP

You have an Azure Stack Hub integrated system that uses an Azure Active Directory (Azure AD) identity provider.

You have a group named AppGroup1.

You need to provide an application with the ability to access Azure Stack Hub resources by using AppGroup1.

Which four 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.

**Select and Place:**

**Correct Answer:**

**Section: [none]**

**Explanation**

**Explanation/Reference:**

Reference:

<https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-create-service-principals?view=azs-2008&tabs=az1%2Caz2&pivots=state-connected>

**Testlet 1****Case study**

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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.
- 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.

### QUESTION 1

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

**Correct Answer:** BD

**Section:** [none]

**Explanation**

**Explanation/Reference:**



**QUESTION 2** 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

**Correct Answer:** C

**Section:** [none]

**Explanation**

**Explanation/Reference:**

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

**QUESTION 3** 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

**Correct Answer:** CE

**Section:** [none]

**Explanation**

**Explanation/Reference:**

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

**QUESTION 4** 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

**Correct Answer:** ABE

**Section:** [none]

**Explanation**

**Explanation/Reference:**

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

**Testlet 2**

**Case study**

This is a case study. **Case studies are not timed separately. You can use as much exam time as you would like to complete each case.** However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

**To start the case study**

To display the first question in this case study, click the **Next** button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an **All Information** tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the **Question** button to return to the question.

**Overview**

**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
- 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, ADFS2	Windows Server 2019	An AD FS farm that is accessible via <a href="https://adfs.northcentralus.litwareinc.com">https://adfs.northcentralus.litwareinc.com</a>

### 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.
- 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)

**QUESTION 1** 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 HLH configuration file
- B. the `Get-AzsRegistrationToken` cmdlet
- C. Properties on the Region management blade of the administrator portal
- D. the Help + support blade of the administrator portal

**Correct Answer:** C

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference:

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

### Question Set 3

#### QUESTION 1

DRAG DROP

You have an Azure Stack Hub integrated system that has syslog forwarding configured.

You need to remove syslog forwarding and the associated certificate.

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.

**Select and Place:**

**Correct Answer:**

**Section: [none]**

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-integrate-security?view=azs-2008>

#### QUESTION 2

DRAG DROP

You have an Azure Stack Hub integrated system that is disconnected from the Internet.

You need to collect diagnostic logs, but do not have access to an SMB share.

Which four 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.

**Select and Place:**

**Correct Answer:**

**Section: [none]**

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-get-azurestacklog?view=azs-2008>

#### QUESTION 3

HOTSPOT

You have an Azure Stack Hub integrated system that has 10 user subscriptions. Each subscription contains approximately 50 virtual machines.

You are planning a backup and restore strategy for the integrated system.

You need to identify which type of backup to use to back up specific resources.

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

**NOTE:** Each correct selection is worth one point.

**Hot Area:**

**Correct Answer:**

**Section: [none]**

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-backup-enable-backup-console?view=azs-2008>

**QUESTION 4** You have an Azure Stack Hub integrated system.

You perform infrastructure backups twice daily.

User workloads are protected by using Azure Site Recovery.

The architect of the user workloads is planning a business continuity disaster recovery (BCDR) strategy.

You need to recommend to the architect which resources to include in the BCDR strategy.

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

**NOTE:** Each correct selection is worth one point.

- A. Azure Key Vault secrets
- B. plans, quotas, and offers
- C. role-based access control (RBAC) permissions and roles
- D. user subscriptions
- E. Azure Resource Manager templates for resources used by Azure Stack Hub virtual machines
- F. Azure Site Recovery workloads

**Correct Answer:** EF

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.microsoft.com/en-us/azure/architecture/hybrid/azure-stack-vm-dr>



**QUESTION 5** You have an Azure Stack Hub integrated system that was recently moved to a new datacenter and powered on.

You need to verify whether the infrastructure components are fully operational.

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

**NOTE:** Each correct selection is worth one point.

- A. Run the `Start-AzureStack cmdlet`
- B. Run the `Test-AzureStack cmdlet`
- C. Connect to the privileged endpoint (PEP)
- D. Connect to the administrator portal
- E. Run the `Get-AzureStackStampInformation cmdlet`

**Correct Answer:** ABC

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-diagnostic-test?view=azs-2008>

**QUESTION 6**

You and a Microsoft Support Engineer are troubleshooting an Azure Stack Hub integrated system.

The security team at your company requires an audit trail whenever management actions are performed on the integrated system.

You unlock the privileged endpoint (PEP) and perform several troubleshooting tasks that resolve the issue.

Which cmdlet should you run next?

- A. Invoke-AzureStackOnDemandLog
- B. Close-PrivilegedEndpoint
- C. Get-AzureStackLog
- D. Exit-PSSession

**Correct Answer:** B

**Section:** [none]

**Explanation**

**Explanation/Reference:**

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

#### QUESTION 7

DRAG DROP

You have an Azure Stack Hub integrated system.

You need to ensure that you can recover managed and unmanaged disks that are deleted from user subscriptions.

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.

**Select and Place:**

**Correct Answer:**

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-manage-storage-accounts?view=azs-2008>

#### QUESTION 8

DRAG DROP

You have an Azure Stack Hub integrated system that is disconnected from the Internet.

During an update, an error occurs that prevents you from accessing the administrator portal.

While troubleshooting the issue, a Microsoft Support Engineer requests that you collect and send the relevant logs.

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.

**Select and Place:**

**Correct Answer:**

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-get-azurestacklog?view=azs-2008>

## QUESTION 9

### HOTSPOT

You start the update of an Azure Stack Hub integrated system. The Update run details are shown in the following exhibit.



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

**NOTE:** Each correct selection is worth one point.

**Hot Area:**

**Correct Answer:**

**Section:** [none]

**Explanation**

**Explanation/Reference:**

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

**QUESTION 10** You have an Azure Stack Hub integrated system.

A scale unit node has a hardware failure.

You replace the physical server based on the field replacement unit (FRU) documentation of the OEM hardware vendor.

You need to reintroduce the node to the scale unit.

Which PowerShell cmdlet should you run?

- A. Enable-AzsScaleUnitNode
- B. Repair-AzsScaleUnitNode
- C. Start-AzsScaleUnitNode
- D. Restart-AzsInfrastructureRole
- E. Add-AzsScaleUnitNode

**Correct Answer:** B

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference:

<https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-node-actions?view=azs-2008&tabs=az1#repair>

**QUESTION 11**

Which three components are required to configure an Azure Stack Hub infrastructure backup? Each correct answer presents part of the solution.

**NOTE:** Each correct selection is worth one point.

- A. an SMB file share in the trusted network perimeter
- B. credentials that have write access to storage
- C. an Azure Blob storage account
- D. an encryption certificate
- E. an SMB file share in Azure

**Correct Answer:** ABD

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference:

<https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-backup-reference?view=azs-2008>

**QUESTION 12**

HOTSPOT

You have an Azure Stack Hub integrated system that has 10 user subscriptions. Each subscription contains 30 storage accounts. Deleted storage accounts are purged automatically after seven days.

One of the user subscriptions has 10 storage accounts that are no longer used. The storage accounts contain a large amount of data.

You need to delete the unused storage accounts. The solution must increase the amount of available disk space in the integrated system as soon as possible.

Which two actions should you perform in the administrator portal and the user portal? To answer, drag the appropriate actions to the correct portals. Each action may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

**NOTE:** Each correct selection is worth one point.

**Hot Area:**

**Correct Answer:**

**Section:** [none]

**Explanation**

**Explanation/Reference:**

Reference:

<https://docs.microsoft.com/en-us/azure-stack/operator/azure-stack-manage-storage-accounts?view=azs-2008>