Vendor: Microsoft

Exam Code: AZ-600

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

Stack Hub

Version: Demo

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 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.
▪ 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:

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.

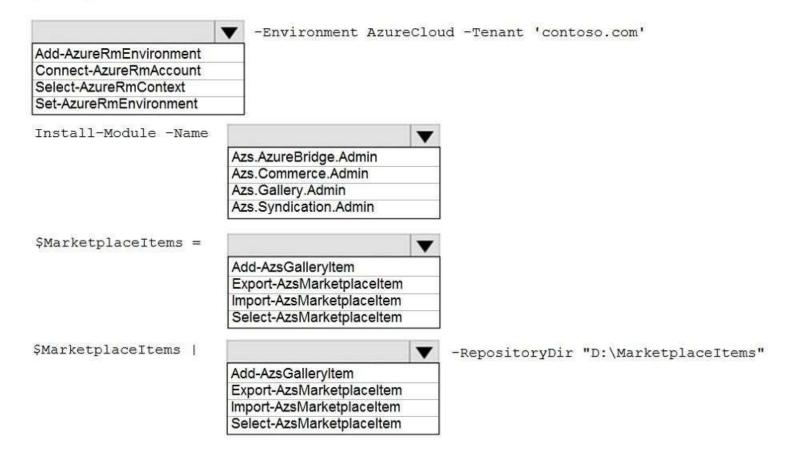You need to download the latest Ubuntu image for Azure Stack Hub Marketplace.

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 |   [                    ▼]  -RepositoryDir "D:\MarketplaceItems"
                       Add-AzsGalleryItem
                       Export-AzsMarketplaceItem
                       Import-AzsMarketplaceItem
                       Select-AzsMarketplaceItem
```

Correct Answer:

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 | ▼ -RepositoryDir "D:\MarketplaceItems"

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
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

Correct Answer: A
Section: [none]
Explanation

Explanation/Reference:

QUESTION 16
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 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.

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.

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.

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.

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
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.

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

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