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AZ-300

Microsoft Azure Architect Technologies

Version 9-0

Free Dump - Don't pay for it

Question Set 1

QUESTION 1

HOTSPOT

You have an Azure subscription named Subscription1. Subscription1 contains the resources in the following table:

Name	Type
RG1	Resource group
RG2	Resource group
VNet1	Virtual network
VNet2	Virtual network

VNet1 is in RG1. VNet2 is in RG2. There is no connectivity between VNet1 and VNet2. An administrator named Admin1 creates an Azure virtual machine VM1 in RG1. VM1 uses a disk named Disk1 and connects to VNet1. Admin1 then installs a custom application in VM1.

You need to move the custom application to VNet2. The solution must minimize administrative effort.

Which two actions should you perform? 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:

References:

<https://blogs.technet.microsoft.com/cantripc/2014/06/16/step-by-step-move-a-vm-to-a-different-vnet-on-azure/>

<https://4sysops.com/archives/moving-an-azure-vm-to-another-virtual-network-vnet/#migrate-an-azure-vm-between-vnets>

QUESTION 2

You have an Azure subscription named Subscription1 that is used by several departments at your company. Subscription1 contains the resources in the following table.

Name	Type
Storage1	Storage account
RG1	Resource group
Container1	Blob container
Share1	File share

Another administrator deploys a virtual machine named VM1 and an Azure Storage account named Storage2 by using a single Azure Resource Manager template.

You need to view the template used for the deployment.

From which blade can you view the template that was used for the deployment?

- A. Container1
- B. VM1
- C. Storage2
- D. RG1

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

QUESTION 3

You have two subscriptions named Subscription1 and Subscription2. Each subscription is associated to a different Azure AD tenant.

Subscription1 contains a virtual network named VNet1. VNet1 contains an Azure virtual machine named VM1 and has an IP address space of 10.0.0.0/16.

Subscription2 contains a virtual network named VNet2. VNet2 contains an Azure virtual machine named VM2 and has an IP address space of 10.10.0.0/24.

You need to connect VNet1 to VNet2.

What should you do first?

- A. Modify the IP address space of VNet2.
- B. Move VM1 to Subscription2.
- C. Provision virtual network gateways.
- D. Move VNet1 to Subscription2.

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

QUESTION 4

You have an Azure Active Directory (Azure AD) tenant.

You have an existing Azure AD conditional access policy named Policy1. Policy1 enforces the use of Azure AD-joined devices when members of the Global Administrators group authenticate to Azure AD from untrusted locations.

You need to ensure that members of the Global Administrators group will also be forced to use multi-factor authentication when authenticating from untrusted locations.

What should you do?

- A. From the Azure portal, modify session control of Policy1.
- B. From multi-factor authentication page, modify the user settings.
- C. From multi-factor authentication page, modify the service settings.

- D. From the Azure portal, modify grant control of Policy1.

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

QUESTION 5

HOTSPOT

You plan to deploy five virtual machines to a virtual network subnet.

Each virtual machine will have a public IP address and a private IP address.

Each virtual machine requires the same inbound and outbound security rules.

What is the minimum number of network interfaces and network security groups that you require? 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:

QUESTION 6

You have an Azure subscription named Subscription1 that contains an Azure virtual machine named VM1. VM1 is in a resource group named RG1.

VM1 runs services that will be used to deploy resources to RG1.

You need to ensure that a service running on VM1 can manage the resources in RG1 by using the identity of VM1.

What should you do first?

- A. From the Azure portal, modify the Access control (IAM) settings of RG1.
- B. From the Azure portal, modify the Policies settings of RG1.
- C. From the Azure portal, modify the Access control (IAM) settings of VM1.
- D. From the Azure portal, modify the value of the Managed Service Identity option for VM1.

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/overview>

QUESTION 7

HOTSPOT

You have an Azure subscription named Subscription1. Subscription1 contains the virtual networks in the following table:

Name	Address space	Subnet name	Subnet address range
VNet1	10.1.0.0/16	Subnet1	10.1.1.0/24
VNet2	10.10.0.0/16	Subnet2	10.10.1.0/24
VNet3	172.16.0.0/16	Subnet3	172.16.1.0/24

Subscription1 contains the virtual machines in the following table:

Name	Network	Subnet	IP address
VM1	VNet1	Subnet1	10.1.1.4
VM2	VNet2	Subnet2	10.10.1.4
VM3	VNet3	Subnet3	172.16.1.4

The firewalls on all the virtual machines are configured to allow all ICMP traffic.

You add the peerings in the following table:

Virtual network	Peering network
VNet1	VNet3
VNet2	VNet3
VNet3	VNet1

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
------------	-----	----

VM1 can ping VM3.
VM2 can ping VM3.
VM2 can ping VM1.

<input type="radio"/>	<input checked="" type="radio"/>
<input type="radio"/>	<input checked="" type="radio"/>
<input type="radio"/>	<input checked="" type="radio"/>

Correct Answer:

Answer Area

Statements	Yes	No
------------	-----	----

VM1 can ping VM3.
VM2 can ping VM3.
VM2 can ping VM1.

<input checked="" type="radio"/>	<input type="radio"/>
<input checked="" type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input checked="" type="radio"/>

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/virtual-network/tutorial-connect-virtual-networks-portal>

QUESTION 8

HOTSPOT

You have an Azure Active Directory (Azure AD) tenant.

You need to create a conditional access policy that requires all users to use multi-factor authentication when they access the Azure portal.

Which three settings should you configure? To answer, select the appropriate settings to the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

*Name

Policy1



Assignments

Users and groups 0 users and groups selected

Cloud apps 0 cloud apps selected

Conditions 0 conditions selected

Access controls

Grant 0 controls selected

Session 0 controls selected



Enable Policy

ON

OFF

Correct Answer:

Free Dump - Don't pay for it

Answer Area

*Name

Policy1



Assignments

Users and groups 0 users and groups selected



Cloud apps 0 cloud apps selected



Conditions 0 conditions selected



Access controls

Grant 0 controls selected



Session 0 controls selected



Enable Policy

ON

OFF

Section: [none]**Explanation****Explanation/Reference:**

References:

<https://docs.microsoft.com/en-us/azure/active-directory/conditional-access/app-based-mfa>**QUESTION 9**

You configure Azure AD Connect for Azure Active Directory Seamless Single Sign-On (Azure AD Seamless SSO) for an on-premises network.

Users report that when they attempt to access myapps.microsoft.com, they are prompted multiple times to sign in and are forced to use an account name that ends with onmicrosoft.com.

You discover that there is a UPN mismatch between Azure AD and the on-premises Active Directory.

You need to ensure that the users can use single-sign on (SSO) to access Azure resources.

What should you do first?

- A. From on-premises network, deploy Active Directory Federation Services (AD FS).
- B. From Azure AD, add and verify a custom domain name.
- C. From on-premises network, request a new certificate that contains the Active Directory domain name.
- D. From the server that runs Azure AD Connect, modify the filtering options.

Correct Answer: B**Section: [none]****Explanation****Explanation/Reference:****QUESTION 10**

You have an Active Directory forest named contoso.com.

You install and configure Azure AD Connect to use password hash synchronization as the single sign-on(SSO) method. Staging mode is enabled.

You review the synchronization results and discover that the Synchronization Service Manager does not display any sync jobs.

You need to ensure that the synchronization completes successfully.

What should you do?

- A. From Azure PowerShell, run **Start-AdSyncSyncCycle –PolicyType Initial**.
- B. Run Azure AD Connect and set the SSO method to Pass-through Authentication.
- C. From Synchronization Service Manager, run a full import.
- D. Run Azure AD Connect and disable staging mode.

Correct Answer: D**Section: [none]****Explanation****Explanation/Reference:**

References:

<https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-sync-operations>

QUESTION 11

DRAG DROP

You have an Azure Active Directory (Azure AD) tenant that has the initial domain name.

You have a domain name of contoso.com registered at a third-party registrar.

You need to ensure that you can create Azure AD users that have names containing a suffix of @contoso.com.

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

Select and Place:

Correct Answer:

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/add-custom-domain>

QUESTION 12

You have an Azure subscription that contains 100 virtual machines.

You regularly create and delete virtual machines.

You need to identify unattached disks that can be deleted.

What should you do?

- A. From Microsoft Azure Storage Explorer, view the Account Management properties.
- B. From Azure Cost Management, create a Cost Management report.
- C. From the Azure portal, configure the Advisor recommendations.
- D. From Azure Cost Management, open the **Optimizer** tab and create a report.

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

QUESTION 13

You have an Azure subscription that contains 10 virtual machines.

You need to ensure that you receive an email message when any virtual machines are powered off, restarted, or deallocated.

What is the minimum number of rules and action groups that you require?

- A. three rules and three action groups
- B. one rule and one action group
- C. three rules and one action group

- D. one rule and three action groups

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

QUESTION 14

You plan to automate the deployment of a virtual machine scale set that uses the Windows Server 2016 Datacenter image.

You need to ensure that when the scale set virtual machines are provisioned, they have web server components installed.

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

NOTE: Each correct selection is worth one point.

- A. Upload a configuration script.
- B. Create an automation account.
- C. Create a new virtual machine scale set in the Azure portal.
- D. Create an Azure policy.
- E. Modify the extensionProfile section of the Azure Resource Manager template.

Correct Answer: CE

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/tutorial-install-apps-template>

QUESTION 15

You have an Azure subscription.

You have 100 Azure virtual machines.

You need to quickly identify underutilized virtual machines that can have their service tier changed to a less expensive offering.

Which blade should you use?

- A. Customer insights
- B. Monitor
- C. Advisor
- D. Metrics

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/advisor/advisor-cost-recommendations>

QUESTION 16

An app uses a virtual network with two subnets. One subnet is used for the application server. The other subnet is used for a database server. A network virtual appliance (NVA) is used as a firewall.

Traffic destined for one specific address prefix is routed to the NVA and then to an on-premises database server that stores sensitive data. A Border Gateway Protocol (BGP) route is used for the traffic to the on-premises database server.

You need to recommend a method for creating the user-defined route.

Which two options should you recommend? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. For the virtual network configuration, use a VPN.
- B. For the next hop type, use a virtual network peering.
- C. For the virtual network configuration, use Azure ExpressRoute.
- D. For the next hop type, use a virtual network gateway.

Correct Answer: AC

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-udr-overview>

QUESTION 17

You manage a solution in Azure that consists of a single application which runs on a virtual machine (VM). Traffic to the application has increased dramatically.

The application must not experience any downtime and scaling must be dynamically defined.

You need to define an auto-scale strategy to ensure that the VM can handle the workload.

Which three options should you recommend? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Deploy application automatic vertical scaling.
- B. Create a VM availability set.
- C. Create a VM scale set.
- D. Deploy application automatic horizontal scaling.
- E. Deploy a custom auto-scale implementation.

Correct Answer: CDE

Section: [none]

Explanation

Explanation/Reference:

QUESTION 18

DRAG DROP

You develop a web app that uses the tier D1 app service plan by using the Web Apps feature of Microsoft

Azure App Service.

Spikes in traffic have caused increases in page load times.

You need to ensure that the web app automatically scales when CPU load is about 85 percent and minimize costs.

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.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Select and Place:

Actions	Answer Area
Configure the web app to the Premium App Service tier.	
Configure a Scale condition.	
Configure the web app to the Standard App Service tier.	
Enable autoscaling on the web app.	
Add a Scale rule.	
Switch to an Azure App Services consumption plan.	

Correct Answer:

Actions	Answer Area
Configure the web app to the Premium App Service tier.	Configure the web app to the Standard App Service tier.
	Enable autoscaling on the web app.
	Add a Scale rule.
	Configure a Scale condition.
Switch to an Azure App Services consumption plan.	

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/autoscale-get-started>

QUESTION 19

HOTSPOT

You have Azure subscription that contains a virtual network named VNet1. VNet1 uses an IP address space of 10.0.0.0/16 and contains the subnets in the following table.

Name	IP address range
Subnet0	10.0.0.0/24
Subnet1	10.0.1.0/24
Subnet2	10.0.2.0/24
GatewaySubnet	10.0.254.0/24

Subnet1 contains a virtual appliance named VM1 that operates as a router.

You create a routing table named RT1.

You need to route all inbound traffic to VNet1 through VM1.

How should you configure RT1? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Address prefix

- 10.0.0.0/16
- 10.0.1.0/24
- 10.0.254.0/24

Next hop type:

- Virtual appliance
- Virtual network
- Virtual network gateway

Assigned to:

- GatewaySubnet
- Subnet0
- Subnet1 and Subnet2

Correct Answer:

Answer Area

Address prefix	<table border="1"><tr><td>10.0.0.0/16</td></tr><tr><td>10.0.1.0/24</td></tr><tr><td>10.0.254.0/24</td></tr></table>	10.0.0.0/16	10.0.1.0/24	10.0.254.0/24
10.0.0.0/16				
10.0.1.0/24				
10.0.254.0/24				
Next hop type:	<table border="1"><tr><td>Virtual appliance</td></tr><tr><td>Virtual network</td></tr><tr><td>Virtual network gateway</td></tr></table>	Virtual appliance	Virtual network	Virtual network gateway
Virtual appliance				
Virtual network				
Virtual network gateway				
Assigned to:	<table border="1"><tr><td>Gateway Subnet</td></tr><tr><td>Subnet0</td></tr><tr><td>Subnet1 and Subnet2</td></tr></table>	Gateway Subnet	Subnet0	Subnet1 and Subnet2
Gateway Subnet				
Subnet0				
Subnet1 and Subnet2				

Section: [none]

Explanation

Explanation/Reference:

QUESTION 20

You are implementing authentication for applications in your company. You plan to implement self-service password reset (SSPR) and multifactor authentication (MFA) in Azure Active Directory (Azure AD).

You need to select authentication mechanisms that can be used for both MFA and SSPR.

Which two authentication methods should you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Short Message Service (SMS) messages
- B. Azure AD passwords
- C. Email addresses
- D. Security questions
- E. App passwords

Correct Answer: AB

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/active-directory/authentication/concept-authentication-methods>

QUESTION 21

Note: This question is part of 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 subscription that contains 10 virtual networks. The virtual networks are hosted in separate resource groups.

Another administrator plans to create several network security groups (NSGs) in the subscription.

You need to ensure that when an NSG is created, it automatically blocks TCP port 8080 between the virtual networks.

Solution: You create a resource lock, and then you assign the lock to the subscription.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

How can I freeze or lock my production/critical Azure resources from accidental deletion? There is way to do this with both ASM and ARM resources using Azure resource lock.

References:

<https://blogs.msdn.microsoft.com/azureedu/2016/04/27/using-azure-resource-manager-policy-and-azure-lock-to-control-your-azure-resources/>

QUESTION 22

Note: This question is part of 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 subscription named Subscription1. Subscription1 contains a resource group named RG1. RG1 contains resources that were deployed by using templates.

You need to view the date and time when the resources were created in RG1.

Solution: From the RG1 blade, you click **Automation script**.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 23

Note: This question is part of 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 subscription named Subscription1. Subscription1 contains a resource group named RG1. RG1 contains resources that were deployed by using templates.

You need to view the date and time when the resources were created in RG1.

Solution: From the Subscription blade, you select the subscription, and then click **Resource providers**.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 24

Note: This question is part of 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 subscription named Subscription1. Subscription1 contains a resource group named RG1. RG1 contains resources that were deployed by using templates.

You need to view the date and time when the resources were created in RG1.

Solution: From the RG1 blade, you click **Deployments**.

Does this meet the goal?

- A. Yes

B. No

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 25

HOTSPOT

You have several Azure virtual machines on a virtual network named VNet1.

You configure an Azure Storage account as shown in the following exhibit.

The screenshot shows the Azure Storage account configuration page for a storage account named 'contoso'. The left sidebar lists various settings like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Events, and Storage Explorer (preview). The main pane shows the 'Firewalls and virtual networks' section. Under 'Virtual networks', there is a table with one row for 'VNet1'. The table columns are VIRTUAL NETWORK, SUBNET, ADDRESS RANGE, ENDPOINT STATUS, SOURCE GROUP, and SUBSCRIPTION. The row for VNet1 has 'Prod' in the SUBNET column, '10.2.0.0/16' in the ADDRESS RANGE column, 'Enabled' in the ENDPOINT STATUS column, 'DemoRG' in the SOURCE GROUP column, and 'Production subscript...' in the SUBSCRIPTION column. Below the table, there is a 'Firewall' section with a note to add IP ranges and a 'ADDRESS RANGE' input field. At the bottom, there is an 'Exceptions' section with three checkboxes: 'Allow trusted Microsoft services to access this storage account', 'Allow read access to storage logging from any network', and 'Allow read access to storage metrics from any network'.

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:

Answer Area

The virtual machines on the 10.2.9.0/24 subnet will have network connectivity to the file shares in the storage account [answer choice].

always
during a backup
never

Azure Backup will be able to back up the unmanaged hard disks of the virtual machines in the storage account [answer choice].

always
during a backup
never

Correct Answer:

Answer Area

The virtual machines on the 10.2.9.0/24 subnet will have network connectivity to the file shares in the storage account [answer choice].

always
during a backup
never

Azure Backup will be able to back up the unmanaged hard disks of the virtual machines in the storage account [answer choice].

always
during a backup
never

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Box 1: always

Endpoint status is enabled.

Box 2: Never

After you configure firewall and virtual network settings for your storage account, select Allow trusted Microsoft services to access this storage account as an exception to enable Azure Backup service to access the network restricted storage account.

The screenshot shows the 'Firewalls and virtual networks' blade for a storage account named 'sogupstorage'. The left sidebar lists navigation options: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Storage Explorer (preview), Access keys, Configuration, Encryption, Shared access signature, Firewall and virtual networks (which is selected and highlighted in blue), and Metrics (preview). The main content area has tabs for Overview, Subnet, Address range, Endpoint status, Resource group, and Subscription. Under 'Allow access from', the 'Selected networks' radio button is selected. The 'Virtual networks' section shows a table with columns: VIRTUAL NETWORK, SUBNET, ADDRESS RA..., ENDPOINT ST..., RESOURCE G..., and SUBSCRIPTION. A note says 'No network selected.' Below this is a 'Firewall' section with a note about adding IP ranges. The 'ADDRESS RANGE' section contains a text input field for 'IP address or CIDR' and a '... More' button. The 'Exceptions' section at the bottom contains three checkboxes: 'Allow trusted Microsoft services to access this storage account' (which is checked and highlighted with a red box), 'Allow read access to storage logging from any network' (unchecked), and 'Allow read access to storage metrics from any network' (unchecked).

Reference:

<https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-use-files-windows>

<https://azure.microsoft.com/en-us/blog/azure-backup-now-supports-storage-accounts-secured-with-azure-storage-firewalls-and-virtual-networks/>

QUESTION 26**HOTSPOT**

You plan to create an Azure Storage account in the Azure region of East US 2.

You need to create a storage account that meets the following requirements:

- Replicates synchronously
- Remains available if a single data center in the region fails

How should you configure the storage account? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Replication:	<input type="checkbox"/> Geo-redundant storage (GRS) <input type="checkbox"/> Locally-redundant storage (LRS) <input type="checkbox"/> Read-access geo-redundant storage (RA GRS) <input checked="" type="checkbox"/> Zone-redundant storage (ZRS)
Account type:	<input type="checkbox"/> Blob storage <input type="checkbox"/> Storage (general purpose v1) <input checked="" type="checkbox"/> StorageV2 (general purpose v2)

Correct Answer:

Answer Area

Replication:	<input checked="" type="checkbox"/> Geo-redundant storage (GRS) <input type="checkbox"/> Locally-redundant storage (LRS) <input type="checkbox"/> Read-access geo-redundant storage (RA GRS) <input type="checkbox"/> Zone-redundant storage (ZRS)
Account type:	<input type="checkbox"/> Blob storage <input type="checkbox"/> Storage (general purpose v1) <input checked="" type="checkbox"/> StorageV2 (general purpose v2)

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Box 1: Zone-redundant storage (ZRS)

Zone-redundant storage (ZRS) replicates your data synchronously across three storage clusters in a single region.

LRS would not remain available if a data center in the region fails

GRS and RA GRS use asynchronous replication.

Box 2: StorageV2 (general purpose V2)

ZRS only support GPv2.

References:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy>

<https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy-zrs>

QUESTION 27

DRAG DROP

You have an on-premises file server named Server1 that runs Windows Server 2016.

You have an Azure subscription that contains an Azure file share.

You deploy an Azure File Sync Storage Sync Service, and you create a sync group.

You need to synchronize files from Server1 to Azure.

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:

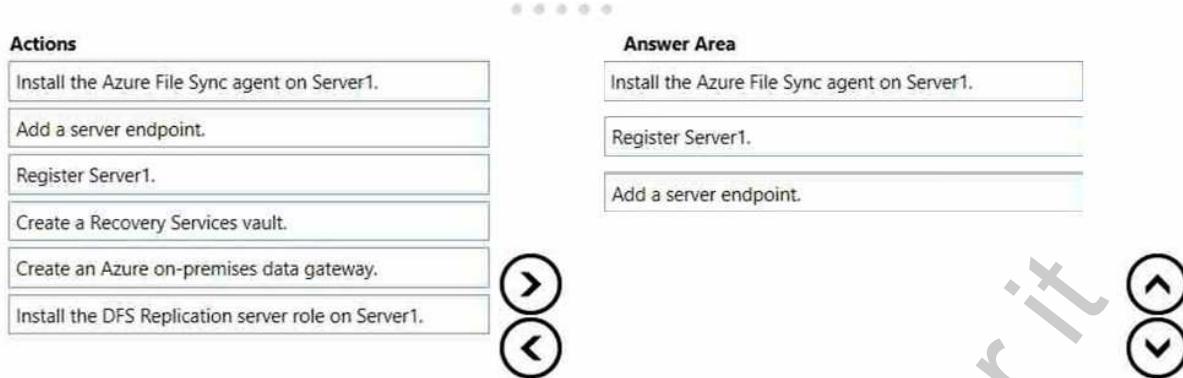
Actions	Answer Area
Install the Azure File Sync agent on Server1.	...
Add a server endpoint.	
Register Server1.	
Create a Recovery Services vault.	
Create an Azure on-premises data gateway.	
Install the DFS Replication server role on Server1.	

...

> <

↑ ↓

Correct Answer:



Section: [none]

Explanation

Explanation/Reference:

Explanation:

Step 1: Install the Azure File Sync agent on Server1

The Azure File Sync agent is a downloadable package that enables Windows Server to be synced with an Azure file share

Step 2: Register Server1.

Register Windows Server with Storage Sync Service

Registering your Windows Server with a Storage Sync Service establishes a trust relationship between your server (or cluster) and the Storage Sync Service.

Step 3: Add a server endpoint

Create a sync group and a cloud endpoint.

A sync group defines the sync topology for a set of files. Endpoints within a sync group are kept in sync with each other. A sync group must contain one cloud endpoint, which represents an Azure file share and one or more server endpoints. A server endpoint represents a path on registered server.

References:

<https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-files-deployment-guide>

QUESTION 28

You plan to use the Azure Import/Export service to copy files to a storage account.

Which two files should you create before you prepare the drives for the import job? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. a dataset CSV file
- B. an XML manifest file
- C. a driveset CSV file
- D. a PowerShell PS1 file
- E. a JSON configuration file

Correct Answer: AC

Section: [none]

Explanation

Explanation/Reference:

Explanation:

A: Modify the dataset.csv file in the root folder where the tool resides. Depending on whether you want to import a file or folder or both, add entries in the dataset.csv file

C: Modify the driveset.csv file in the root folder where the tool resides.

References:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-import-export-data-to-files>

QUESTION 29

You create an Azure Storage account named contosostorage.

You plan to create a file share named data.

Users need to map a drive to the data file share from home computers that run Windows 10.

Which outbound port should you open between the home computers and the data file share?

- A. 80
- B. 443
- C. 445
- D. 3389

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Ensure port 445 is open: The SMB protocol requires TCP port 445 to be open; connections will fail if port 445 is blocked.

References:

<https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-use-files-windows>

QUESTION 30

HOTSPOT

You have an Azure subscription named Subscription1.

Subscription1 contains the virtual machines in the following table:

Name	IP address
VM1	10.0.1.4
VM2	10.0.2.4
VM3	10.0.3.4

Subscription1 contains a virtual network named VNet1 that has the subnets in the following table.

Name	Address space	Connected virtual machine
Subnet1	10.0.1.0/24	VM1
Subnet2	10.0.2.0/24	VM2
Subnet3	10.0.3.0/24	VM3

VM3 has multiple network adapters, including a network adapter named NIC3. IP forwarding is enabled on NIC3. Routing is enabled on VM3.

You create a route table named RT1 that contains the routers in the following table.

Address prefix	Next hop type	Next hop address
10.0.1.0/24	Virtual appliance	10.0.3.4
10.0.2.0/24	Virtual appliance	10.0.3.4

You apply RT1 to Subnet1 and Subnet2.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
VM3 can establish a network connection to VM1.	<input type="radio"/>	<input type="radio"/>
If VM3 is turned off, VM2 can establish a network connection to VM1.	<input type="radio"/>	<input type="radio"/>
VM1 can establish a network connection to VM2.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

Statements	Yes	No
VM3 can establish a network connection to VM1.	<input checked="" type="radio"/>	<input type="radio"/>
If VM3 is turned off, VM2 can establish a network connection to VM1.	<input type="radio"/>	<input checked="" type="radio"/>
VM1 can establish a network connection to VM2.	<input checked="" type="radio"/>	<input type="radio"/>

Section: [none]

Explanation

Explanation/Reference:

Explanation:

IP forwarding enables the virtual machine a network interface is attached to:

- Receive network traffic not destined for one of the IP addresses assigned to any of the IP configurations assigned to the network interface.
- Send network traffic with a different source IP address than the one assigned to one of a network interface's IP configurations.

The setting must be enabled for every network interface that is attached to the virtual machine that receives traffic that the virtual machine needs to forward. A virtual machine can forward traffic whether it has multiple network interfaces or a single network interface attached to it.

Box 1: Yes

The routing table allows connections from VM3 to VM1 and VM2. And as IP forwarding is enabled on VM3, VM3 can connect to VM1.

Box 2: No

VM3, which has IP forwarding, must be turned on, in order for VM2 to connect to VM1.

Box 3: Yes

The routing table allows connections from VM1 and VM2 to VM3. IP forwarding on VM3 allows VM1 to connect to VM2 via VM3.

References:

<https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-udr-overview>

<https://www.quora.com/What-is-IP-forwarding>

QUESTION 31

HOTSPOT

You have a virtual network named VNet1 that has the configuration shown in the following exhibit.

```
PS C:\> Get-AzureRmVirtualNetwork -Name Vnet1 -ResourceGroupName Production

Name          : VNet1
ResourceGroupName : Production
Location      : westus
Id            : /subscriptions/14d26092-8e42-4ea7-b770-9dcef70fb1ea/resourceGroups/Production/providers/Microsoft.Network/virtualNetworks/VNet1
Etag          : W/"76f7edd6-d022-455b-aeae-376059318e5d"
ResourceGuid  : 562696cc-b2ba-4cc5-a619-aa735d6c34c7
ProvisioningState : Succeeded
Tags          :
AddressSpace  : {
    "AddressPrefixes": [
        "10.0.0.0/16"
    ]
}
DhcpOptions   : {}
Subnets       : [
    {
        "name": "default",
        "id": "W/"76f7edd6-d022-455b-aeae-376059318e5d\"",
        "Id": "/subscriptions/14d26092-8e42-4ea7-b770-9dcef70fb1ea/resourceGroups/Production/providers/Microsoft.Network/virtualNetworks/VNet1/subnets/default"
    }
]
```

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:

Answer Area

Before a virtual machine on VNet1 can receive an IP address from 192.168.1.0/24, you must first [answer choice].

- add a network interface
- add a subnet
- add an address space
- delete a subnet
- delete an address space

Before a virtual machine on VNet1 can receive an IP address from 10.2.1.0/24, you must first [answer choice].

- add a network interface
- add a subnet
- add an address space
- delete a subnet
- delete an address space

Correct Answer:

Answer Area

Before a virtual machine on VNet1 can receive an IP address from 192.168.1.0/24, you must first [answer choice].

- add a network interface
- add a subnet
- add an address space**
- delete a subnet
- delete an address space

Before a virtual machine on VNet1 can receive an IP address from 10.2.1.0/24, you must first [answer choice].

- add a network interface**
- add a subnet
- add an address space
- delete a subnet
- delete an address space

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Box 1: add an address space

Your IaaS virtual machines (VMs) and PaaS role instances in a virtual network automatically receive a private IP address from a range that you specify, based on the address space of the subnet they are connected to. We need to add the 192.168.1.0/24 address space.

Box 2: add a network interface

The 10.2.1.0/24 network exists. We need to add a network interface.

References:

<https://docs.microsoft.com/en-us/office365/enterprise/designing-networking-for-microsoft-azure-iaas>

<https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-static-private-ip-arm-pportal>

QUESTION 32

HOTSPOT

You have an Azure subscription named Subscription1. Subscription1 contains the resources in the following table.

Name	Type
VMRG	Resource group
VNet1	Virtual network
VNet2	Virtual network
VM5	Virtual machine connected to VNet1
VM6	Virtual machine connected to VNet2

In Azure, you create a private DNS zone named adatum.com. You set the registration virtual network to VNet2. The adatum.com zone is configured is shown in the following exhibit.

Resource group (change)
vmrg

Subscription (change)
Azure Pass

Subscription ID
a4fde29b-d56a-4f6c-8298-6c53cd0b720c

Tags (change)
[Click here to add tags](#)

Name server 1
-

Name server 2
-

Name server 3
-

Name server 4
-

[Search record sets](#)
[Add record set](#)

NAME	TYPE	TTL	VALUE
@	SOA	3600	Email: azuredns-hostmaster.microsoft.com Host: internal.cloudapp.net Refresh: 3600 Retry: 300 Expire: 2419200 Minimum TTL: 300 Serial number: 1
vm1	A	3600	10.1.0.4
vm9	A	3600	10.1.0.12

For each of the following statement's, Select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
The A record for VM5 will be registered automatically in the adatum.com zone.	<input type="radio"/>	<input type="radio"/>
VM5 can resolve VM9.adatum.com.	<input type="radio"/>	<input type="radio"/>
VM6 can resolve VM9.adatum.com.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

Statements	Yes	No
The A record for VM5 will be registered automatically in the adatum.com zone.	<input type="radio"/>	<input checked="" type="radio"/>
VM5 can resolve VM9.adatum.com.	<input type="radio"/>	<input checked="" type="radio"/>
VM6 can resolve VM9.adatum.com.	<input checked="" type="radio"/>	<input type="radio"/>

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Box 1: No

Azure DNS provides automatic registration of virtual machines from a single virtual network that's linked to a private zone as a registration virtual network. VM5 does not belong to the registration virtual network though.

Box 2: No

Forward DNS resolution is supported across virtual networks that are linked to the private zone as resolution virtual networks. VM5 does not belong to a resolution virtual network.

Box 3: Yes

VM6 belongs to registration virtual network, and an A (Host) record exists for VM9 in the DNS zone. By default, registration virtual networks also act as resolution virtual networks, in the sense that DNS resolution against the zone works from any of the virtual machines within the registration virtual network.

References:

<https://docs.microsoft.com/en-us/azure/dns/private-dns-overview>

QUESTION 33

You have a virtual network named VNet1 as shown in the **exhibit**. (Click the Exhibit tab.)

The screenshot shows the Azure portal's 'Virtual networks' blade. At the top, there are buttons for Refresh, Move, and Delete. Below that, the 'Resource group' is set to 'Production'. The 'Location' is 'West US'. The 'Subscription' is 'Production subscription' with the ID '14d26092-8e42-4ea7-b770-9dcef70fb1ea'. Under 'Tags', it says 'Click here to add tags'. In the 'Connected devices' section, there is a search bar with 'Search connected devices' placeholder text and a table with columns 'DEVICE', 'TYPE', 'IP ADDRESS', and 'SUBNET'. A message 'No results.' is displayed below the table.

No devices are connected to VNet1.

You plan to peer VNet1 to another virtual network named VNet2 in the same region. VNet2 has an address space of 10.2.0.0/16.

You need to create the peering.

What should you do first?

- A. Add a gateway subnet to VNet1.
- B. Create a subnet on VNet1 and VNet2
- C. Modify the address space of VNet1
- D. Configure a service endpoint on VNet2

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

Explanation:

The virtual networks you peer must have non-overlapping IP address spaces. The exhibit indicates that VNet1 has an address space of 10.2.0.0/16, which is the same as VNet2, and thus overlaps. We need to change the address space for VNet1.

References:

<https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-manage-peering#requirements-and-constraints>

QUESTION 34

SIMULATION

Click to expand each objective. To connect to the Azure portal, type <https://portal.azure.com> in the browser address bar.



Microsoft Azure

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https://portal.azure.com/#@pbtexamsponsoroutlook.onmicrosoft.com/dashboard/private/b... Search resources, services, and docs

User1-7523691@Exa...

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All services

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Functions

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SQL Database

The screenshot shows the Microsoft Azure dashboard with a large watermark reading "Free Dump, Don't pay for it". The dashboard includes a sidebar with links to services like App Services, Functions, and SQL Database, along with a search bar and user information.

Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)
Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

Free Dump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)



 Overview

 Outputs

 Inputs

 Template

 Delete

 Cancel

 Redeploy

 Refresh

Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.



Deployment
name: Microsoft.StorageAccount-
20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 5:04:06 AM
Duration: 17 seconds
Correlation ID: bdd06ba4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Ubuntu Server 18.04 LTS

by Canonical

[Terms of use](#) | [Privacy policy](#)

Standard D2s v3

by Microsoft

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0.0960 USD/hr

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When you are finished performing all the tasks, click the 'Next' button.

Note that you cannot return to the lab once you click the 'Next' button. Scoring occurs in the background while you complete the rest of the exam.

Overview

The following section of the exam is a lab. In this section, you will perform a set of tasks in a live environment. While most functionality will be available to you as it would be in a live environment, some functionality (e.g., copy and paste, ability to navigate to external websites) will not be possible by design.

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Please note that once you submit your work by clicking the Next button within a lab, you will NOT be able to return to the lab.

To start the lab

You may start the lab by clicking the Next button.

Your company plans to store several documents on a public website.

You need to create a container named bios that will host the documents in the storageId8322489 storage

account. The solution must ensure anonymous access and must ensure that users can browse folders in the container.

What should you do from the Azure portal?

Correct Answer: See explanation below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Azure portal create public container

To create a container in the Azure portal, follow these steps:

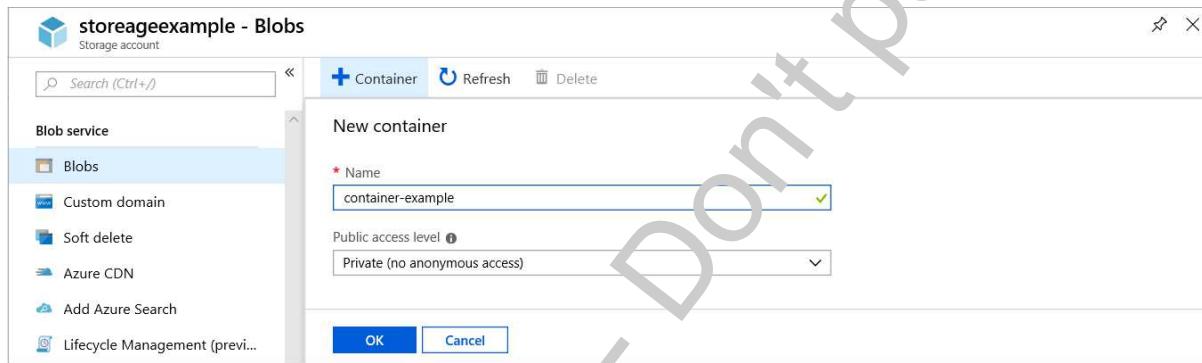
Step 1: Navigate to your new storage account in the Azure portal.

Step 2: In the left menu for the storage account, scroll to the blob service section, then select Blobs.

Select the + Container button.

Type a name for your new container: bios

Set the level of public access to the container: Select anonymous access.



Step 3: Select OK to create the container.

References:

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-quickstart-blobs-portal>

QUESTION 35

SIMULATION

Click to expand each objective. To connect to the Azure portal, type <https://portal.azure.com> in the browser address bar.



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https://portal.azure.com/#@pbteamsponsoroutlook.onmicrosoft.com/dashboard/private/b... Search resources, services, and docs

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Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

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Free Dump, Don't pay for it

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)

Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

FreeDump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)



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 Inputs

 Template

 Delete

 Cancel

 Redeploy

 Refresh

Your deployment is underway

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name: Microsoft.StorageAccount-
20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 5:04:06 AM
Duration: 17 seconds
Correlation ID: bdd06ba4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

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Standard D2s v3

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Please note that once you submit your work by clicking the Next button within a lab, you will NOT be able to return to the lab.

To start the lab

You may start the lab by clicking the Next button.

Your company plans to host in Azure the source files of several line-of-business applications.

You need to create an Azure file share named corpsoftware in the storage1od8322489 storage account. The

solution must ensure that corpsoftware can store only up to 250 GB of data.

What should you do from the Azure portal?

Correct Answer: See explanation below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Step 1: Go to the Storage Account blade on the Azure portal:

The screenshot shows the Azure Storage Account blade for a resource named 'myazurefileaccount'. The left sidebar contains links for Overview, Activity log, Access control (IAM), Tags, and Diagnose and solve problems. Under SETTINGS, there are links for Access keys, Configuration, Shared access signature, Properties, and Locks. The main content area displays the 'Essentials' section with details like Resource group (changed to 'andredstage'), Status (Primary: Available, Secondary: Available), Location (eastus2(stage), northcentralus(stage)), Subscription name (changed to 'Microsoft Azure Internal Consumption'), and Subscription ID (ad9aea31-efa4-4e02-8a24-e922120021f6). Below this is the 'Services' section, which includes icons for Blobs, Files (highlighted with a red box), Tables, and Queues. A 'Monitoring' section shows 'Total requests' and 'Total egress' metrics. At the bottom right are 'Edit' buttons for both sections.

Step 2: Click on add File Share button:

The screenshot shows the Microsoft Azure File service blade for the same storage account. The left sidebar has a '+' icon followed by 'File service' and 'myazurefileaccount'. The main area shows a list of file shares, with the first one, 'storagelod8322489', selected. A red box highlights the '+ File share' button in the top-left corner of the list area. Other buttons include 'Refresh' and 'Essentials'.

Step 3: Provide Name (storagelod8322489) and Quota (250 GB).

New file share

File service (myazurefileaccount)

* Name
myfirstazurefileshare

Quota ⓘ
5120

References:

<https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-create-file-share>

QUESTION 36

SIMULATION

Click to expand each objective. To connect to the Azure portal, type <https://portal.azure.com> in the browser address bar.



Microsoft Azure

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https://portal.azure.com/#@pbteamsponsoroutlook.onmicrosoft.com/dashboard/private/b... Search resources, services, and docs

User1-7523691@Exa...

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App Services

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SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

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Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)
Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

Free Dump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)

«

 Overview

 Outputs

 Inputs

 Template

 Delete

 Cancel

 Redeploy

 Refresh

Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.



Deployment
name: Microsoft.StorageAccount-
20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 5:04:06 AM
Duration: 17 seconds
Correlation ID: bdd06a4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Ubuntu Server 18.04 LTS

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TERMS

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To start the lab

You may start the lab by clicking the Next button.

You plan to back up all the Azure virtual machines in your Azure subscription at 02:00 Coordinated Universal Time (UTC) daily.

You need to prepare the Azure environment to ensure that any new virtual machines can be configured quickly for backup. The solution must ensure that all the daily backups performed at 02:00 UTC are stored for only 90 days.

What should you do from your Recovery Services vault on the Azure portal?

Correct Answer: See explanation below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Task A: Create a Recovery Services vault (if a vault already exists skip this task, go to Task B below)

A1. From Azure Portal, On the Hub menu, click All services and in the list of resources, type Recovery Services and click Recovery Services vaults.

If there are recovery services vaults in the subscription, the vaults are listed.

A2. On the Recovery Services vaults menu, click Add.

A3. The Recovery Services vault blade opens, prompting you to provide a Name, Subscription, Resource group, and Location

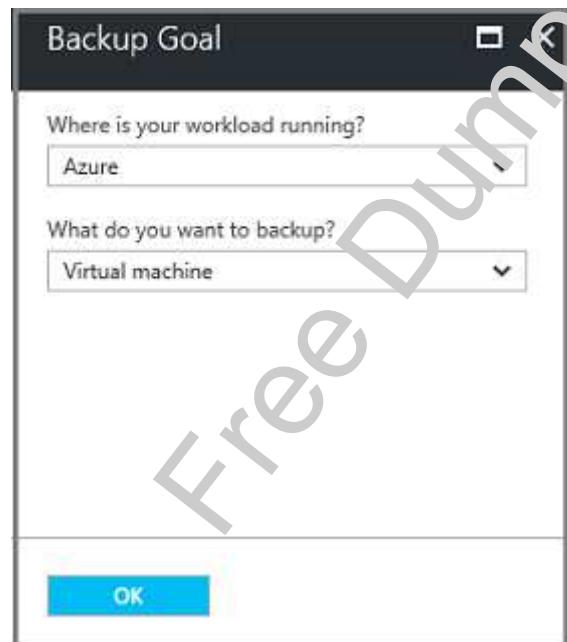
Task B.

B1. On the Recovery Services vault blade (for the vault you just created), in the Getting Started section, click Backup, then on the Getting Started with Backup blade, select Backup goal.

The Backup Goal blade opens. If the Recovery Services vault has been previously configured, then the Backup Goal blades opens when you click Backup on the Recovery Services vault blade.

B2. From the Where is your workload running? drop-down menu, select Azure.

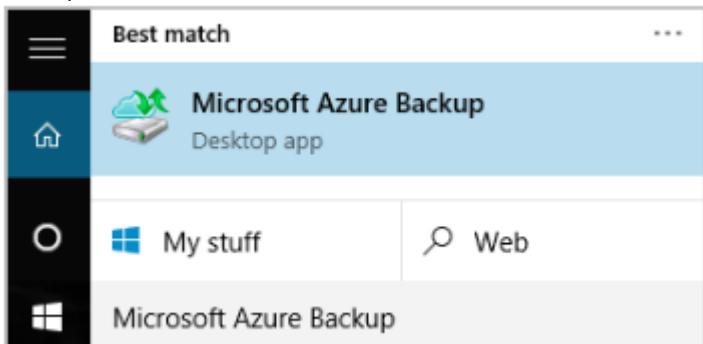
B3. From the What do you want to backup? menu, select Virtual Machine, and click OK.



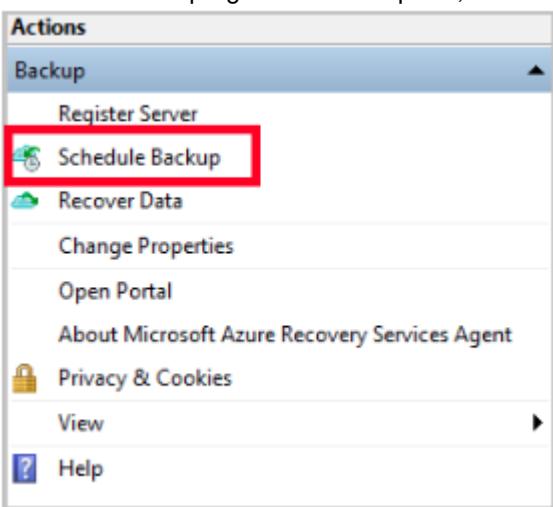
B4. Finish the Wizard.

Task C. create a backup schedule

C1. Open the Microsoft Azure Backup agent. You can find it by searching your machine for Microsoft Azure Backup.



C2. In the Backup agent's Actions pane, click Schedule Backup to launch the Schedule Backup Wizard.



C3. On the Getting started page of the Schedule Backup Wizard, click Next.

C4. On the Select Items to Backup page, click Add Items.

The Select Items dialog opens.

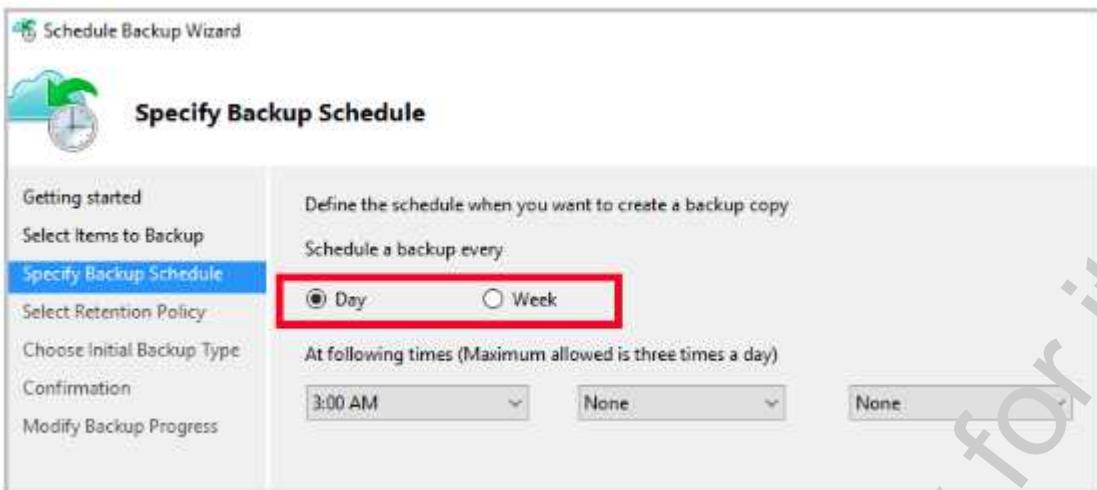
C5. Select Blob Storage you want to protect, and then click OK.

C6. In the Select Items to Backup page, click Next.

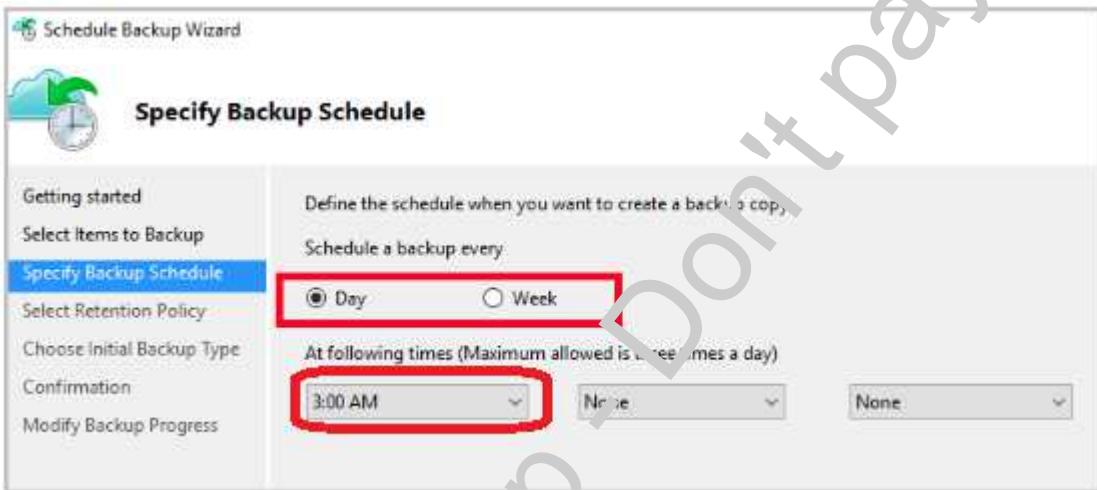
On the Specify Backup Schedule page, specify

Schedule a backup every day

At the following times: 2:00 AM



C7. On the Select Retention Policy page, set it to 90 days, and click Next.



C8. Finish the Wizard.

References:

<https://docs.microsoft.com/en-us/azure/backup/backup-configure-vault>

QUESTION 37 SIMULATION

Click to expand each objective. To connect to the Azure portal, type https://portal.azure.com in the browser address bar.



Microsoft Azure

Free Dump - Don't pay for it

Microsoft Azure

Dashboard - Microsoft. x

← → ⏪ ⏩ ⏴ ⏵

https://portal.azure.com/#@pbteamsponsoroutlook.onmicrosoft.com/dashboard/private/b... Search resources, services, and docs

User1-7523691@Exa...

Create a resource

All services

Favorites

Dashboard

All resources

Resource groups

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directory

Monitor

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Security Center

Cost Management + Bill...

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Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

[Create](#)

[Previous](#) [Next](#)

[Download a template for automation](#)

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)
Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

Free Dump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)

«

 Overview

 Outputs

 Inputs

 Template

 Delete

 Cancel

 Redeploy

 Refresh

Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.



Deployment
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20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

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Duration: 17 seconds
Correlation ID: bdd06a4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



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Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

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by Microsoft

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To start the lab

You may start the lab by clicking the Next button.

You plan to connect several virtual machines to the VNET01-USSEA2 virtual network.

In the Web-RGId8322489 resource group, you need to create a virtual machine that uses the Standard_B2ms

size named Web01 that runs Windows Server 2016. Web01 must be added to an availability set.

What should you do from the Azure portal?

Correct Answer: See explanation below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Step 1: Choose Create a resource in the upper left-hand corner of the Azure portal.

Step 2: In the Basics tab, under Project details, make sure the correct subscription is selected and then choose Web-RGId8322489 resource group

Home > New > Create a virtual machine

Create a virtual machine

Basics Disks Networking Management Guest config Tags Review + create

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization.

Looking for classic VMs? [Create VM from Azure Marketplace](#)

PROJECT DETAILS

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

* Subscription: Pay-As-You-Go

* Resource group: (New) myResourceGroup

Create new

Step 3: Under Instance details type/select :

Virtual machine name: Web01

Image: Windows Server 2016

Size: Standard_DS1_v2

Leave the other defaults.

INSTANCE DETAILS

* Virtual machine name: myVM

* Region: East US

Availability options: None

* Image: Windows Server 2016 Datacenter

Browse all images and disks

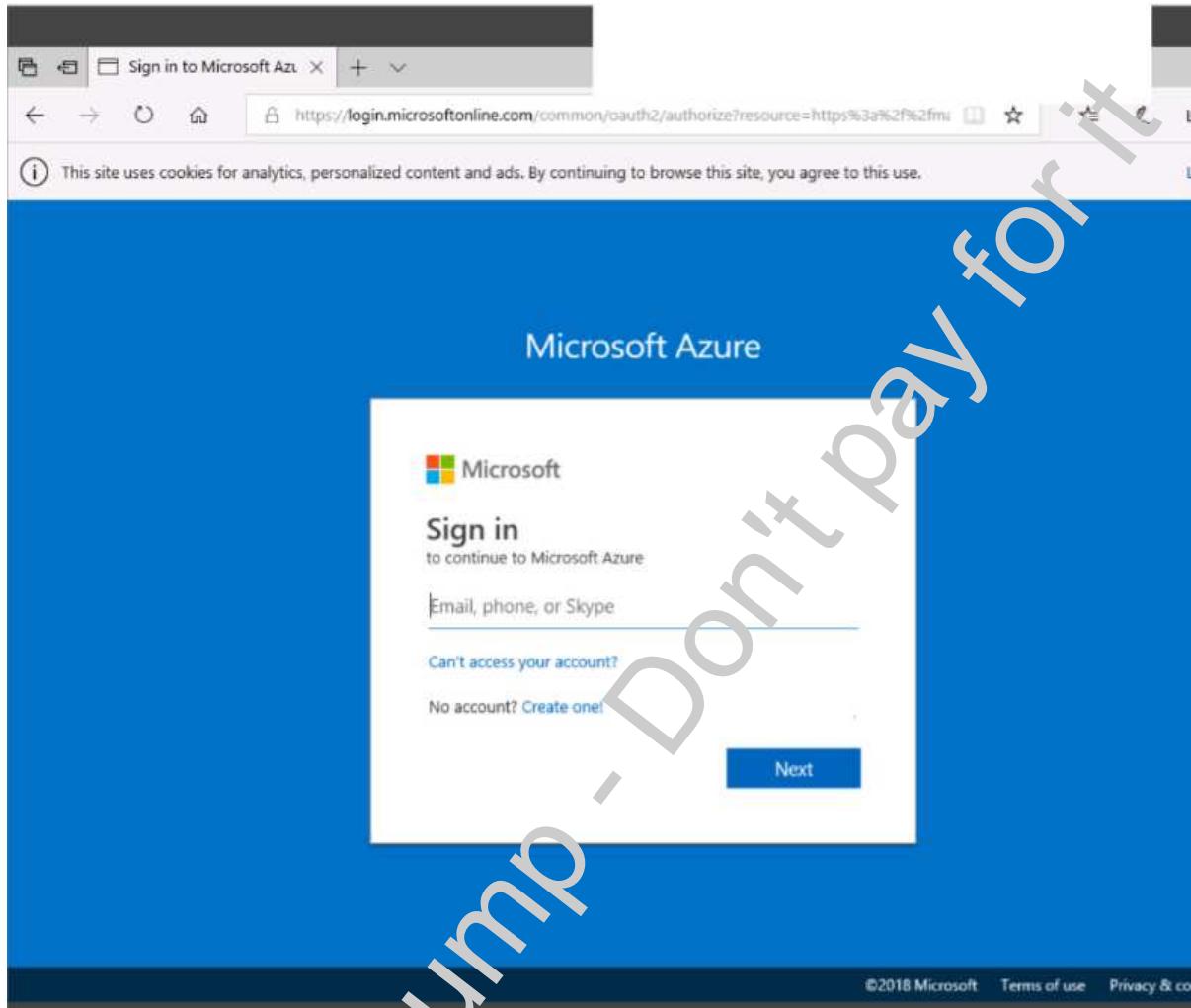
* Size: Standard DS1 v2
1 vcpu, 3.5 GB memory
[Change size](#)

Step 4: Finish the Wizard

QUESTION 38

SIMULATION

Click to expand each objective. To connect to the Azure portal, type <https://portal.azure.com> in the browser address bar.



Microsoft Azure

Dashboard - Microsoft. x

← → ⏪ ⏩ ⏴ ⏵

https://portal.azure.com/#@pbteamsponsoroutlook.onmicrosoft.com/dashboard/private/b... Search resources, services, and docs

User1-7523691@Exa...

Create a resource

All services

Favorites

Dashboard

All resources

Resource groups

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directory

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Ubuntu, Red Hat, CentOS, SUSE, CoreOS VMs

App Service

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Functions

Process events with a serverless code architecture

SQL Database

The screenshot shows the Microsoft Azure dashboard with a large watermark reading "Free Dump, Don't pay for it". The dashboard includes a sidebar with links to services like App Services, Functions, and SQL Database, along with a search bar and user information.

Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Free Dump, Don't pay for it

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)

Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

FreeDump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)

«

 Overview

 Outputs

 Inputs

 Template

 Delete

 Cancel

 Redeploy

 Refresh

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Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

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Duration: 17 seconds
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55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

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To start the lab

You may start the lab by clicking the Next button.

You recently created a virtual machine named Web01.

You need to attach a new 80-GB standard data disk named Web01-Disk1 to Web01.

What should you do from the Azure portal?

Correct Answer: See explanation below.

Section: [none]

Explanation

Explanation/Reference:

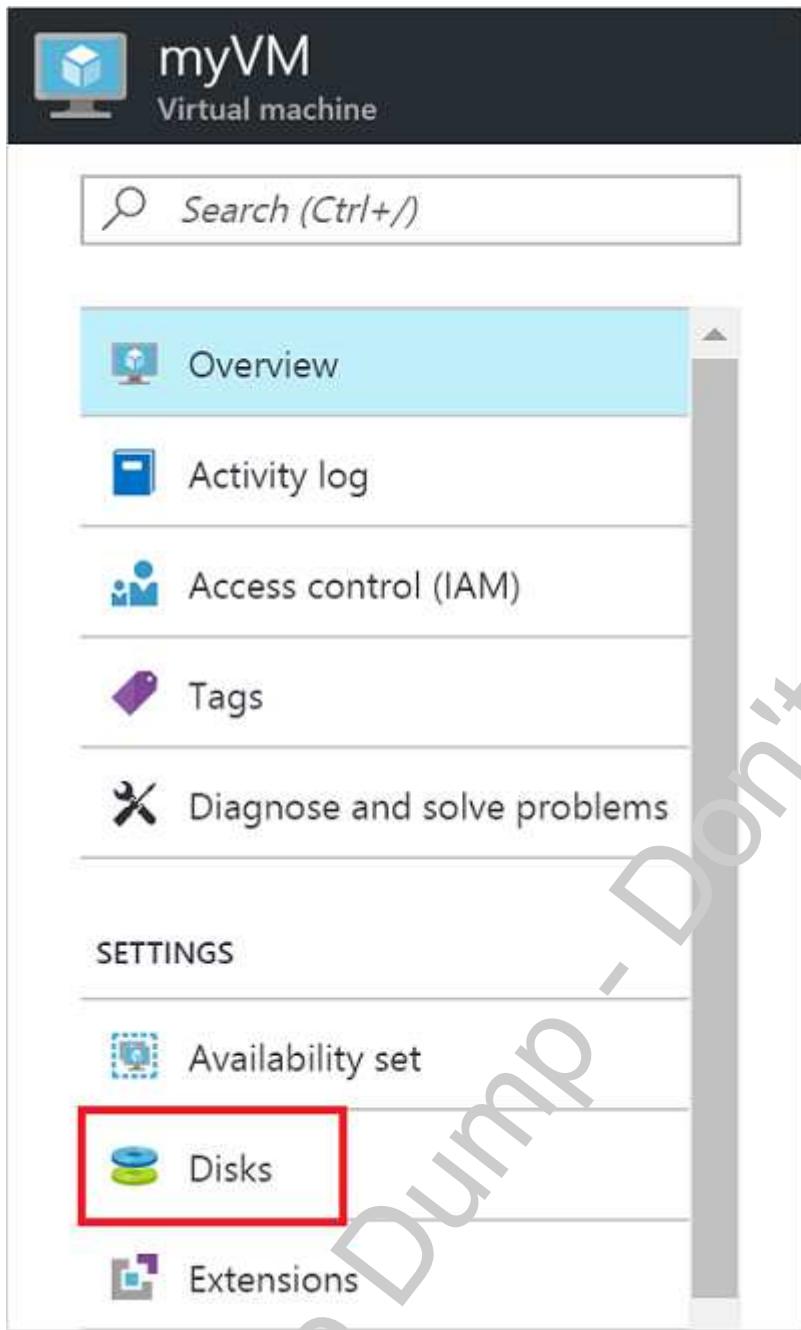
Explanation:

Add a data disk

Step 1: In the Azure portal, from the menu on the left, select **Virtual machines**.

Step 2: Select the Web01 **virtual machine** from the list.

Step 3: On the Virtual machine page, , in Essentials, select **Disks**.



Step 4: On the **Disks** page, Select the Web01-Disk1 from the list of existing disks.

Step 5: In the Disks pane, click + Add data disk.

Step 6: Click the drop-down menu for Name to view a list of existing managed disks accessible to your Azure subscription. Select the managed disk Web01-Disk1 to attach:

Save Discard

OS disk

NAME	SIZE	ACCOUNT TYPE
myVM		Premium_LRS

Data disks

LUN	NAME	SIZE	ACCOUNT TYPE
0	myDataDisk	1023 GiB	Premium_LRS

1

Create disk

Disks in resource group 'myResourceGroup'

myExistingDisk
size: 1023 GiB, account type: Premium_LRS

All disks

myExistingDisk
size: 1023 GiB, account type: Premium_LRS, resource group: MYRESOURCEGROUP

References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/linux/attach-disk-portal>

QUESTION 39
SIMULATION

Click to expand each objective. To connect to the Azure portal, type <https://portal.azure.com> in the browser address bar.



Microsoft Azure

Dashboard - Microsoft. x

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https://portal.azure.com/#@pbteamsponsoroutlook.onmicrosoft.com/dashboard/private/b... Search resources, services, and docs

User1-7523691@Exa...

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Favorites

Dashboard

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Function Apps

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Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

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Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

Free Dump - Don't pay for it

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Deployment

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«

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 Outputs

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Subscription credits apply

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To start the lab

You may start the lab by clicking the Next button.

You plan to allow connections between the VNET01-US-EA2 and VNET01-US-WE2 virtual networks.

You need to ensure that virtual machines can communicate across both virtual networks by using their private

IP address.

The solution must **NOT** require any virtual network gateways.

What should you do from the Azure portal?

Correct Answer: See explanation below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Virtual network peering enables you to seamlessly connect two Azure virtual networks. Once peered, the virtual networks appear as one, for connectivity purposes.

Peer virtual networks

Step 1. In the Search box at the top of the Azure portal, begin typing VNET01-USWA2. When VNET01-USWA2 appears in the search results, select it.

Step 2. Select Peerings, under SETTINGS, and then select + Add, as shown in the following picture:

The screenshot shows the Azure portal interface for managing a virtual network. The top navigation bar includes 'Home', 'myVirtualNetwork1 - Peering', and a search bar. The left sidebar has sections for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, and SETTINGS. Under SETTINGS, there are options for Address space, Connected devices, Subnets, DNS servers, and Peerings. The 'Peerings' option is highlighted with a red box. The main content area is titled 'myVirtualNetwork1 - Peerings' and shows a table with columns: NAME, PENDING, STATUS, PEER, and GATEWAY TRANSIT. A search bar for 'Search peerings' is present. The table displays 'No results.' and features a '+ Add' button, which is also highlighted with a red box.

Step 3. Enter or select the following information, accept the defaults for the remaining settings, and then select OK.

Name: myVirtualNetwork1-myVirtualNetwork2 (for example)

Subscription: select your subscription.

Virtual network: VNET01-USWE2 - To select the VNET01-USWE2 virtual network, select Virtual network, then select VNET01-USWE2. You can select a virtual network in the same region or in a different region.

Now we need to repeat steps 1-3 for the other network VNET01-USWE2:

Step 4. In the Search box at the top of the Azure portal, begin typing VNET01-USWA2. When VNET01-USWA2 appears in the search results, select it.

Step 5. Select Peerings, under SETTINGS, and then select + Add.

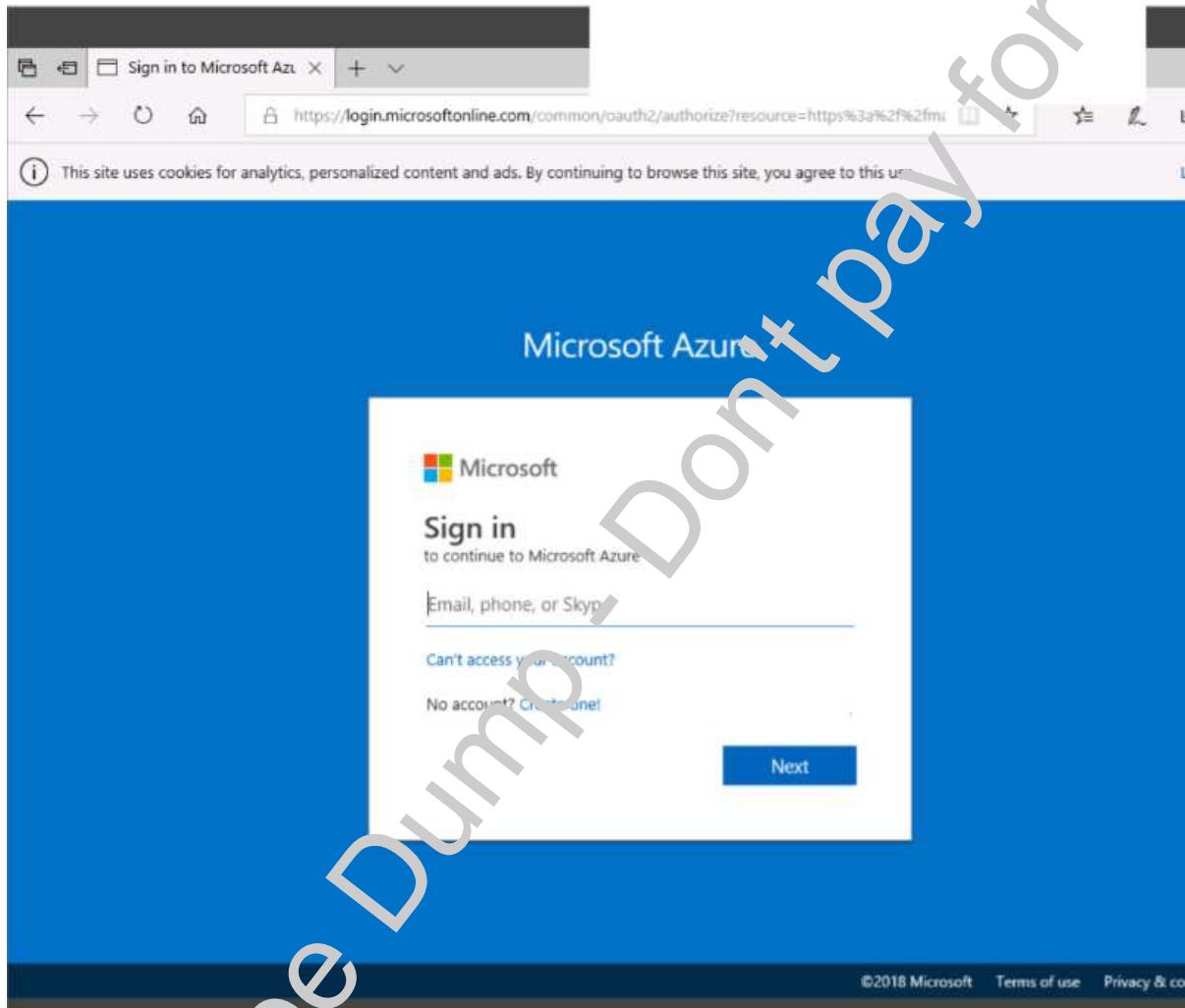
References:

<https://docs.microsoft.com/en-us/azure/virtual-network/tutorial-connect-virtual-networks-portal>

QUESTION 40

SIMULATION

Click to expand each objective. To connect to the Azure portal, type <https://portal.azure.com> in the browser address bar.



Microsoft Azure

Dashboard - Microsoft. x

← → ⏪ ⏩ ⏴ ⏵

https://portal.azure.com/#@pbteamsponsoroutlook.onmicrosoft.com/dashboard/private/b... Search resources, services, and docs

User1-7523691@Exa...

Create a resource

All services

Favorites

Dashboard

All resources

Resource groups

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directory

Monitor

Advisor

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App Service

Create Web Apps using .NET, Java, Node.js, Python, PHP

Functions

Process events with a serverless code architecture

SQL Database

The screenshot shows the Microsoft Azure dashboard with a large watermark reading "Free Dump, Don't pay for it". The dashboard includes a sidebar with links to services like App Services, Functions, and SQL Database, along with a search bar and user information.

Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Free Dump, Don't pay for it

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)
Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

FreeDump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)[Delete](#) [Cancel](#) [Redeploy](#) [Refresh](#)

Overview

- Outputs
- Inputs
- Template

Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.



Deployment
name: Microsoft.StorageAccount-
20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 5:04:06 AM
Duration: 17 seconds
Correlation ID: bdd06ba4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Ubuntu Server 18.04 LTS

by Canonical

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Standard D2s v3

by Microsoft

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Pricing not available for this offering

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Subscription credits apply

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TERMS

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To start the lab

You may start the lab by clicking the Next button.

You plan to host several secured websites on Web01.

You need to allow HTTPS over TCP port 443 to Web01 and to prevent HTTP over TCP port 80 to Web01.

What should you do from the Azure portal?

Correct Answer: See explanation below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

You can filter network traffic to and from Azure resources in an Azure virtual network with a network security group. A network security group contains security rules that allow or deny inbound network traffic to, or outbound network traffic from, several types of Azure resources.

A network security group contains security rules that allow or deny inbound network traffic to, or outbound network traffic from, several types of Azure resources.

Step A: Create a network security group

A1. Search for and select the resource group for the VM, choose Add, then search for and select Network security group.

A2. Select Create.

The screenshot shows the 'Create network security group' dialog box. It has fields for Name, Subscription, Resource group, and Location. The 'Name' field is empty. The 'Subscription' dropdown shows '<subscription name>'. The 'Resource group' dropdown shows 'SELECT EXISTING...' with a 'Create new' link. The 'Location' dropdown shows 'West US'. At the bottom are 'Create' and 'Automation options' buttons.

The Create network security group window opens.

A3. Create a network security group

Enter a name for your network security group.

Select or create a resource group, then select a location.

A4. Select Create to create the network security group.

Step B: Create an inbound security rule to allows HTTPS over TCP port 443

B1. Select your new network security group.

B2. Select Inbound security rules, then select Add.

B3. Add inbound rule

B4. Select Advanced.

From the drop-down menu, select HTTPS.

You can also verify by clicking Custom and selecting TCP port, and 443.

B5. Select Add to create the rule.

Repeat step B2-B5 to deny TCP port 80

B6. Select Inbound security rules, then select Add.

B7. Add inbound rule

B8. Select Advanced.

Clicking Custom and selecting TCP port, and 80.

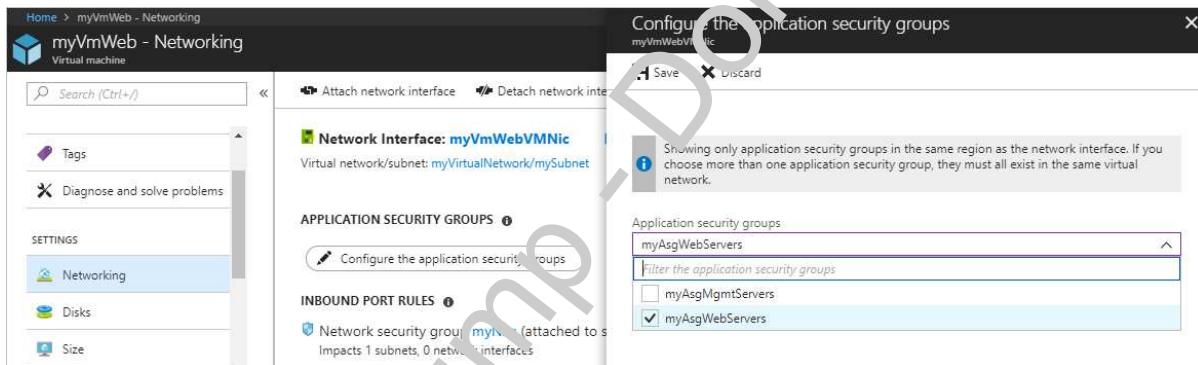
B9. Select Deny.

Step C: Associate your network security group with a subnet

Your final step is to associate your network security group with a subnet or a specific network interface.

C1. In the Search resources, services, and docs box at the top of the portal, begin typing Web01. When the Web01 VM appears in the search results, select it.

C2. Under SETTINGS, select Networking. Select Configure the application security groups, select the Security Group you created in Step A, and then select Save, as shown in the following picture:



References:

<https://docs.microsoft.com/en-us/azure/virtual-network/tutorial-filter-network-traffic>

QUESTION 41

SIMULATION

Click to expand each objective. To connect to the Azure portal, type https://portal.azure.com in the browser address bar.

Sign in to Microsoft Azure

https://login.microsoftonline.com/common/oauth2/authorize?resource=https%3A%2F%2Fmlm

This site uses cookies for analytics, personalized content and ads. By continuing to browse this site, you agree to this use.



Microsoft Azure

Free Dump - Don't pay for it

Microsoft Azure

Dashboard - Microsoft. x

← → ⏪ ⏩ ⏴ ⏵

https://portal.azure.com/#@pbteamsponsoroutlook.onmicrosoft.com/dashboard/private/b... Search resources, services, and docs

User1-7523691@Exa...

Create a resource

All services

Favorites

Dashboard

All resources

Resource groups

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directory

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App Service

Create Web Apps using .NET, Java, Node.js, Python, PHP

Functions

Process events with a serverless code architecture

SQL Database

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Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Free Dump, Don't pay for it

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)

Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

FreeDump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)

«

 Overview

 Outputs

 Inputs

 Template

 Delete

 Cancel

 Redeploy

 Refresh

Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.



Deployment
name: Microsoft.StorageAccount-
20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 5:04:06 AM
Duration: 17 seconds
Correlation ID: bdd06a4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Ubuntu Server 18.04 LTS

by Canonical

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To start the lab

You may start the lab by clicking the Next button.

Your on-premises network uses an IP address range of 131.107.2.0 to 131.107.2.255.

You need to ensure that only devices from the on-premises network can connect to the rg1lod8322490n1

storage account.

What should you do from the Azure portal?

Correct Answer: See solution below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Step 1: Navigate to the rg1lod8322490n1 storage account.

Step 2: Click on the settings menu called Firewalls and virtual networks.

Step 3: Ensure that you have elected to allow access from 'Selected networks'.

Step 4: To grant access to an internet IP range, enter the address range of 131.107.2.0 to 131.107.2.255 (in CIDR format) under Firewall, Address Ranges.

References:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-network-security>

QUESTION 42

SIMULATION

Click to expand each objective. To connect to the Azure portal, type https://portal.azure.com in the browser address bar.



Microsoft Azure

Dashboard - Microsoft. x

← → ⏪ ⏩ ⏴ ⏵

https://portal.azure.com/#@pbteamsponsoroutlook.onmicrosoft.com/dashboard/private/b... Search resources, services, and docs

User1-7523691@Exa...

Create a resource

All services

Favorites

Dashboard

All resources

Resource groups

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directory

Monitor

Advisor

Security Center

Cost Management + Bill...

Service Health

Marketplace

Dashboard

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Linux Virtual Machines

Windows Server, SQL Server, SharePoint VMs

Ubuntu, Red Hat, CentOS, SUSE, CoreOS VMs

App Service

Create Web Apps using .NET, Java, Node.js, Python, PHP

Functions

Process events with a serverless code architecture

SQL Database

The screenshot shows the Microsoft Azure dashboard with a sidebar on the left containing links to various Azure services such as Create a resource, All services, Favorites, Dashboard, All resources, Resource groups, App Services, Function Apps, SQL databases, Azure Cosmos DB, Virtual machines, Load balancers, Storage accounts, Virtual networks, Azure Active Directory, Monitor, Advisor, Security Center, and Cost Management + Bill... Below the sidebar is a main content area titled "Dashboard" which features several tiles for quick access to Azure services. These tiles include "Windows Virtual Machines" (with sub-options for Windows Server, SQL Server, and SharePoint VMs), "App Service" (with sub-options for creating web apps using .NET, Java, Node.js, Python, and PHP), "Functions" (described as processing events with a serverless code architecture), and "SQL Database". The top right corner of the dashboard shows the user's name, "User1-7523691@Exa...", and a sign-in status indicator.

Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Free Dump, Don't pay for it

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)
Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

Free Dump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)[Delete](#)[Cancel](#)[Redeploy](#)[Refresh](#)

Overview

- Outputs
- Inputs
- Template

Your deployment is underway
Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.



Deployment
name: Microsoft.StorageAccount-20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 5:04:06 AM
Duration: 17 seconds
Correlation ID: bdd06a4-d1bd-42cb-be6b-55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Ubuntu Server 18.04 LTS

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Subscription credits apply

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TERMS

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To start the lab

You may start the lab by clicking the Next button.

You plan to store media files in the rg1lod8322490 storage account.

You need to configure the storage account to store the media files. The solution must ensure that only users

who have access keys can download the media files and that the files are accessible only over HTTPS.

What should you do from the Azure portal?

Correct Answer: See solution below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

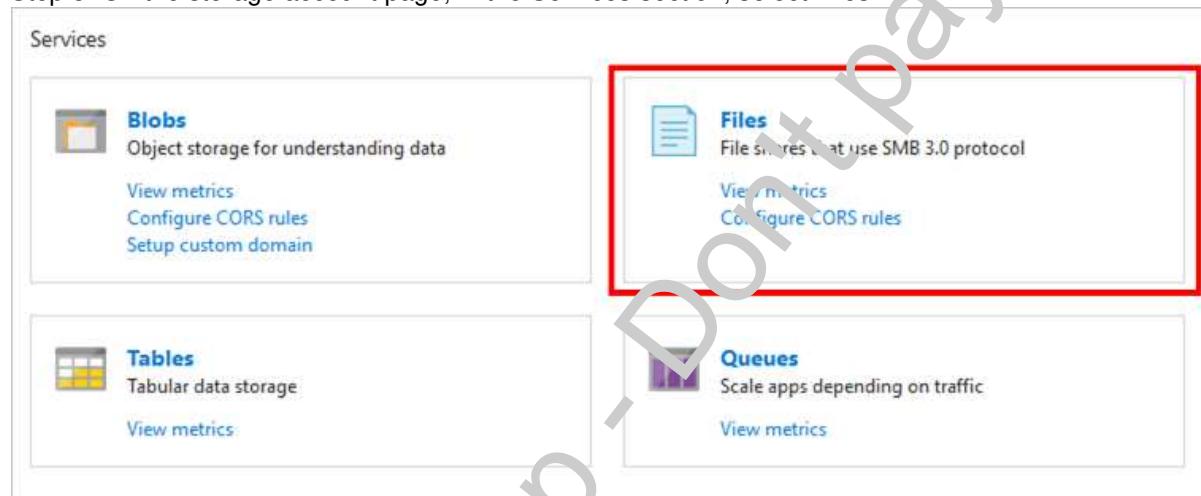
We should create an Azure file share.

Step 1: In the Azure portal, select All services. In the list of resources, type Storage Accounts. As you begin typing, the list filters based on your input. Select Storage Accounts.

On the Storage Accounts window that appears.

Step 2: Locate the rg1lod8322490 storage account.

Step 3: On the storage account page, in the Services section, select Files.



Step 4: On the menu at the top of the File service page, click + File share. The New file share page drops down.

Step 5: In Name type myshare Click OK to create the Azure file share.

References:

<https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-use-files-portal>

QUESTION 43

SIMULATION

Click to expand each objective. To connect to the Azure portal, type https://portal.azure.com in the browser address bar.



Free Dump - Don't pay for it

Microsoft Azure

Dashboard - Microsoft. x

← → ⏪ ⏩ ⏴ ⏵

https://portal.azure.com/#@pbteamsponsoroutlook.onmicrosoft.com/dashboard/private/b... Search resources, services, and docs

User1-7523691@Exa...

Create a resource

All services

Favorites

Dashboard

All resources

Resource groups

App Services

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Azure Cosmos DB

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Functions

Process events with a serverless code architecture

SQL Database

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Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Free Dump, Don't pay for it

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)
Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

Free Dump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)[Overview](#)[Outputs](#)[Inputs](#)[Template](#)[Delete](#)[Cancel](#)[Redeploy](#)[Refresh](#)

Your deployment is underway

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Deployment
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Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 5:04:06 AM
Duration: 17 seconds
Correlation ID: bdd06a4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Ubuntu Server 18.04 LTS

by Canonical

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Standard D2s v3

by Microsoft

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Subscription credits apply

0.0960 USD/hr

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TERMS

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To start the lab

You may start the lab by clicking the Next button.

Another administrator attempts to establish connectivity between two virtual networks named VNET1 and VNET2. The administrator reports that connections across the virtual networks fail.

You need to ensure that network connections can be established successfully between VNET1 and VNET2 as quickly as possible.

What should you do from the Azure portal?

Correct Answer: See solution below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

You can connect one VNet to another VNet using either a Virtual network peering, or an Azure VPN Gateway. To create a virtual network gateway

Step 1: In the portal, on the left side, click +Create a resource and type 'virtual network gateway' in search. Locate Virtual network gateway in the search return and click the entry. On the Virtual network gateway page, click Create at the bottom of the page to open the Create virtual network gateway page.

Step 2: On the Create virtual network gateway page, fill in the values for your virtual network gateway.

Create virtual network gateway

* Name:

Gateway type: VPN ExpressRoute

VPN type: Route-based Policy-based

* SKU:

Enable active-active mode

* Virtual network: >

* Public IP address: Create new Use existing

^ Configure public IP address

SKU

* Assignment
 Dynamic Static

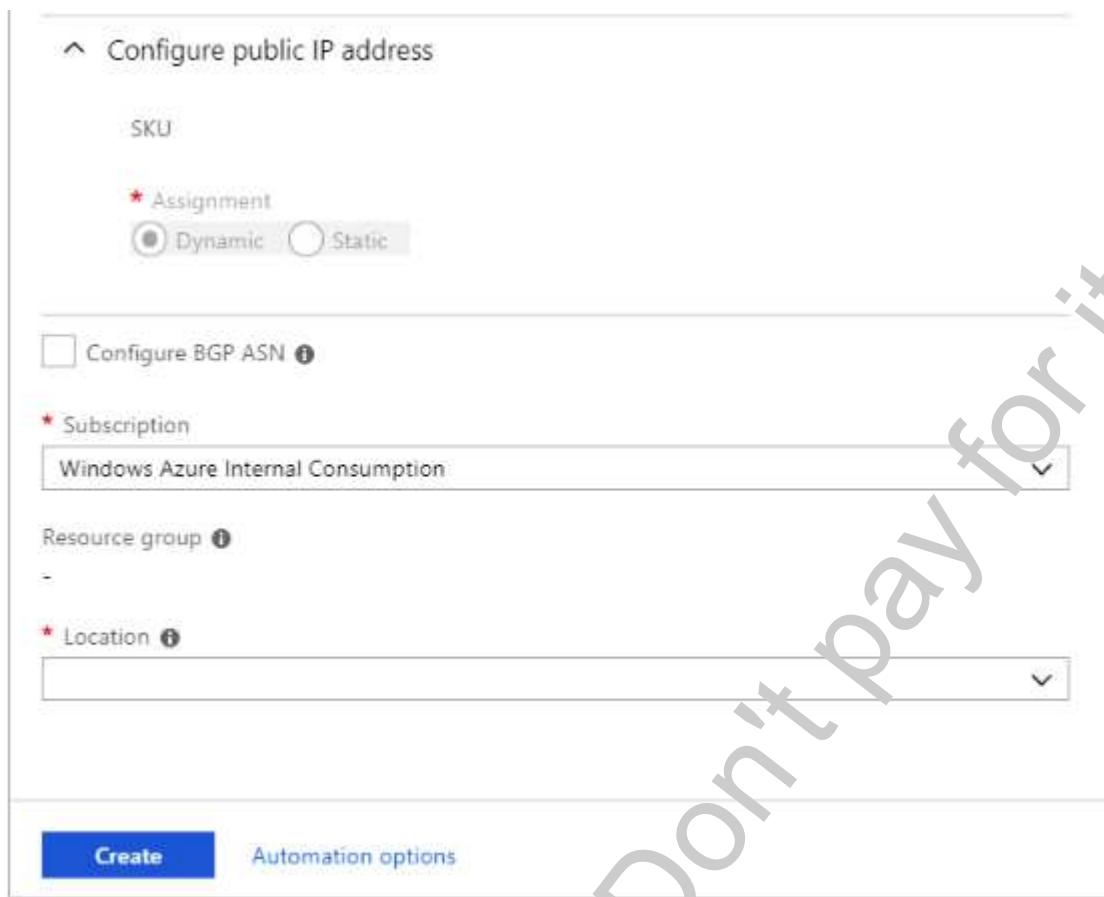
Configure BGP ASN i

* Subscription
Windows Azure Internal Consumption

Resource group i
-

* Location i
[dropdown menu]

Create [Automation options](#)



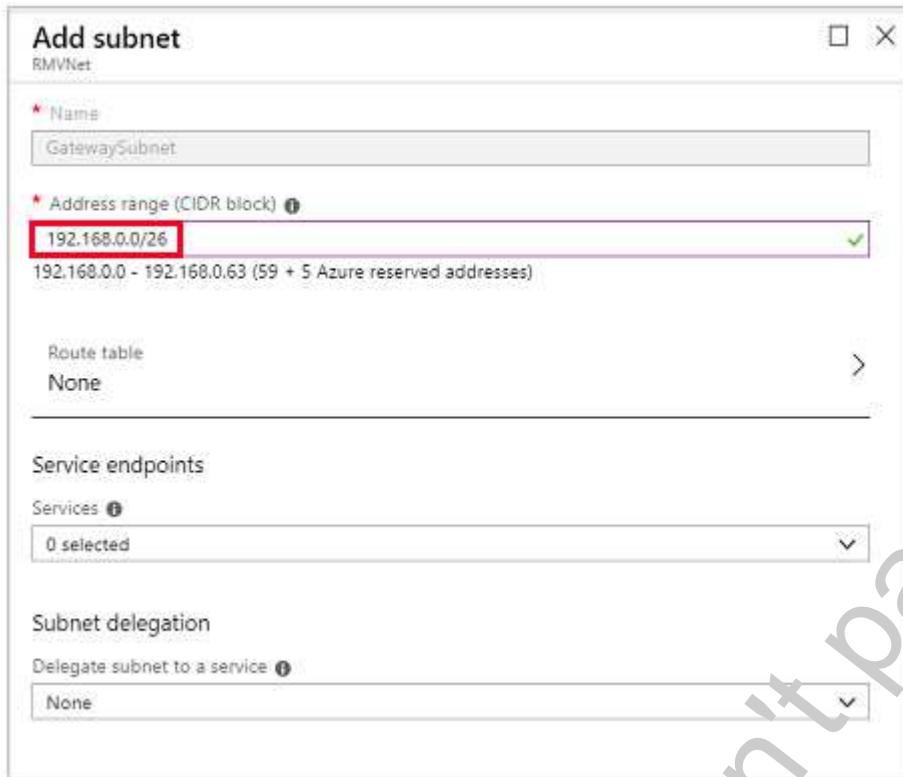
Name: Name your gateway. This is not the same as naming a gateway subnet. It's the name of the gateway object you are creating.

Gateway type: Select VPN. VPN gateways use the virtual network gateway type VPN.

Virtual network: Choose the virtual network to which you want to add this gateway. Click Virtual network to open the 'Choose a virtual network' page. Select the VNet. If you don't see your VNet, make sure the Location field is pointing to the region in which your virtual network is located.

Gateway subnet address range: You will only see this setting if you did not previously create a gateway subnet for your virtual network. If you previously created a valid gateway subnet, this setting will not appear.

Step 4: Select Create New to create a Gateway subnet.



Step 5: Click Create to begin creating the VPN gateway. The settings are validated and you'll see the "Deploying Virtual network gateway" tile on the dashboard. Creating a gateway can take up to 45 minutes. You may need to refresh your portal page to see the completed status.

References:

<https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-vnet-vnet-resource-manager-portal?>

QUESTION 44

SIMULATION

Click to expand each objective. To connect to the Azure portal, type <https://portal.azure.com> in the browser address bar.



Microsoft Azure

Free Dump - Don't pay for it

Microsoft Azure

Dashboard - Microsoft. x

← → ⏪ ⏩ ⏴ ⏵

https://portal.azure.com/#@pbteamsponsoroutlook.onmicrosoft.com/dashboard/private/b... Search resources, services, and docs

User1-7523691@Exa...

Create a resource

All services

Favorites

Dashboard

All resources

Resource groups

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directory

Monitor

Advisor

Security Center

Cost Management + Bill...

Service Health

Marketplace

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Ubuntu, Red Hat, CentOS, SUSE, CoreOS VMs

App Service

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Functions

Process events with a serverless code architecture

SQL Database

The screenshot shows the Microsoft Azure dashboard with a large watermark reading "Free Dump, Don't pay for it". The dashboard includes a sidebar with links to services like App Services, Functions, and SQL Database, along with a search bar and user information.

Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Free Dump, Don't pay for it

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)
Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

FreeDump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)

«

 Overview

 Outputs

 Inputs

 Template

 Delete

 Cancel

 Redeploy

 Refresh

Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.



Deployment
name: Microsoft.StorageAccount-
20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 5:04:06 AM
Duration: 17 seconds
Correlation ID: bdd06a4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Ubuntu Server 18.04 LTS

by Canonical

[Terms of use](#) | [Privacy policy](#)

Standard D2s v3

by Microsoft

[Terms of use](#) | [Privacy policy](#)

Pricing not available for this offering

[View Pricing details](#) for more information.

Subscription credits apply

0.0960 USD/hr

[Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

When you are finished performing all the tasks, click the 'Next' button.

Note that you cannot return to the lab once you click the 'Next' button. Scoring occurs in the background while you complete the rest of the exam.

Overview

The following section of the exam is a lab. In this section, you will perform a set of tasks in a live environment. While most functionality will be available to you as it would be in a live environment, some functionality (e.g., copy and paste, ability to navigate to external websites) will not be possible by design.

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Please note that once you submit your work by clicking the Next button within a lab, you will NOT be able to return to the lab.

To start the lab

You may start the lab by clicking the Next button.

You plan to configure VM1 to be accessible from the internet.

You need to add a public IP address to the network interface used by VM1.

What should you do from the Azure portal?

Correct Answer: See solution below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

You can add private and public IP addresses to an Azure network interface by completing the steps that follow.

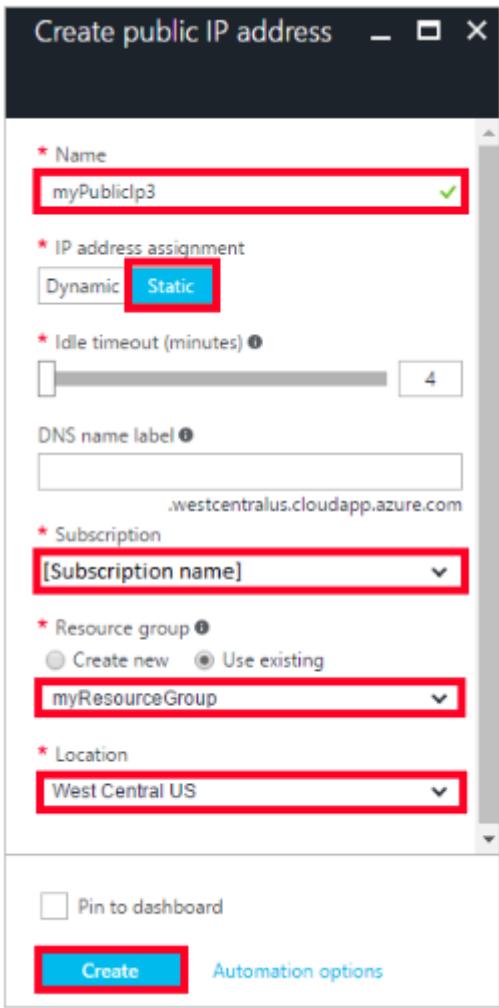
Step 1: In Azure portal, click More services > type virtual machines in the filter box, and then click Virtual machines.

Step 2: In the Virtual machines pane, click the VM you want to add IP addresses to. Click Network interfaces in the virtual machine pane that appears, and then select the network interface you want to add the IP addresses to. In the example shown in the following picture, the NIC named myNIC from the VM named myVM is selected:

The screenshot shows the Azure portal interface. On the left, the 'Virtual machines' blade is open, displaying a list of subscriptions. A specific virtual machine named 'myVM' is selected and highlighted with a red box. On the right, the 'Network interfaces' blade is open for the selected VM. It shows a list of network interfaces, with one named 'myNIC' selected and highlighted with a red box. The 'myNIC' row contains columns for NAME, PUBLIC IP ADDRESS, PRIVATE IP ADDRESS, and SECURITY GROUP. The 'Network interfaces' link in the left sidebar is also highlighted with a red box.

Step 3: In the pane that appears for the NIC you selected, click IP configurations.

Step 4: Click Create public IP address.



Step 5: In the Create public IP address page that appears, enter a Name, select an IP address assignment type, a Subscription, a Resource group, and a Location, then click Create, as shown in the following picture:

References:

<https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-multiple-ip-addresses-portal>

QUESTION 45 SIMULATION

Click to expand each objective. To connect to the Azure portal, type https://portal.azure.com in the browser address bar.



Microsoft Azure

Dashboard - Microsoft. x

← → ⏪ ⏩ ⏴ ⏵

https://portal.azure.com/#@pbtexamsponsoroutlook.onmicrosoft.com/dashboard/private/b... Search resources, services, and docs

User1-7523691@Exa...

Create a resource

All services

Favorites

Dashboard

All resources

Resource groups

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

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SQL Database

The screenshot shows the Microsoft Azure dashboard with a large watermark reading "Free Dump, Don't pay for it". The dashboard includes a sidebar with links to services like App Services, Functions, and SQL Database, along with a search bar and user information.

Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)
Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

Free Dump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)[Overview](#)[Outputs](#)[Inputs](#)[Template](#)[Delete](#)[Cancel](#)[Redeploy](#)[Refresh](#)

Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.



Deployment
name: Microsoft.StorageAccount-
20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 5:04:06 AM
Duration: 17 seconds
Correlation ID: bdd06a4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

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by Canonical

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Standard D2s v3

by Microsoft

[Terms of use](#) | [Privacy policy](#)

Pricing not available for this offering

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Subscription credits apply

0.0960 USD/hr

[Pricing for other VM sizes](#)

TERMS

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Please note that once you submit your work by clicking the Next button within a lab, you will NOT be able to return to the lab.

To start the lab

You may start the lab by clicking the Next button.

You need to allow RDP connections over TCP port 3389 to VM1 from the Internet. The solutions must prevent connections from the Internet over all other TCP ports.

What should you do from the Azure portal?

Correct Answer: See solution below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Step 1: Create a new network security group

Step 2: Select your new network security group.

The screenshot shows the 'Inbound security rules' page for a Network Security Group named 'myNetworkSecurityGroup'. The top navigation bar shows the group name and its type ('Network security group'). On the right, there is a search bar and two buttons: '+ Add' (highlighted with a red box) and 'Default rules'. The main area displays a table with columns 'PRIORITY' and 'NAME', showing the message 'No results.' Below the table is a 'Search inbound security rules' input field. On the left, a sidebar lists several options: Overview (selected), Activity log, Access control (IAM), Tags, Diagnose and solve problems, SETTINGS (selected), Inbound security rules (highlighted with a red box), Outbound security rules, and Network interfaces.

Step 3: Select Inbound security rules. Under **Add inbound security rule**, enter the following
Destination: Select Network security group, and then select the security group you created previously.
Destination port ranges: 3389
Protocol: Select TCP

PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINATION	ACTION
65000	AllowVnetInBound	Any	Any	VirtualNet...	VirtualNet...	Allow
65001	AllowAzureLoadBalanc...	Any	Any	AzureLoad...	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

References:

<https://docs.microsoft.com/en-us/azure/virtual-network/tutorial-filter-network-traffic>

QUESTION 46

HOTSPOT

You plan to deploy 20 Azure virtual machines by using an Azure Resource Manager template. The virtual machines will run the latest version of Windows Server 2016 Datacenter by using an Azure Marketplace image.

You need to complete the storageProfile section of the template.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
"storageProfile": {  
    "imageReference": {  
        "publisher": "MicrosoftWindowsServer",  
        "offer": "  
            "2016-Datacenter",  
            "WindowsClient",  
            "Windows-Hub",  
            "WindowsServer",  
            "WindowsServerEssentials",  
            "WindowsServerSemiAnnual"  
        },  
        "sku": "  
            "2016-Datacenter",  
            "WindowsClient",  
            "Windows-Hub",  
            "WindowsServer",  
            "WindowsServerEssentials",  
            "WindowsServerSemiAnnual"  
        },  
        "version": "latest"  
    },  
    ...  
},  
...  
}
```

Correct Answer:

Answer Area

```
"storageProfile": {  
    "imageReference": {  
        "publisher": "MicrosoftWindowsServer",  
        "offer": "  
            "2016-Datacenter",  
            "WindowsClient",  
            "Windows-Hub",  
            "WindowsServer",  
            "WindowsServerEssentials",  
            "WindowsServerSemiAnnual"  
        },  
        "sku": "  
            "2016-Datacenter",  
            "WindowsClient",  
            "Windows-Hub",  
            "WindowsServer",  
            "WindowsServerEssentials",  
            "WindowsServerSemiAnnual"  
        },  
        "version": "latest"  
    },  
    ...  
},  
...  
}
```

Section: [none]

Explanation

Explanation/Reference:

Explanation:

```
...
"storageProfile": {
  "imageReference": {
    "publisher": "MicrosoftWindowsServer",
    "offer": "WindowsServer",
    "sku": "2016-Datacenter",
    "version": "latest"
  },
...
}
```

References:

<https://docs.microsoft.com/en-us/rest/api/compute/virtualmachines/createorupdate>

QUESTION 47

You have an Azure tenant that contains two subscriptions named Subscription1 and Subscription2.

In Subscription1, you deploy a virtual machine named Server1 that runs Windows Server 2016. Server1 uses managed disks.

You need to move Server1 to Subscription2. The solution must minimize administration effort.

What should you do first?

- A. Create a new virtual machine in Subscription2
- B. In Subscription2, create a copy of the virtual disk
- C. Create a snapshot of the virtual disk
- D. From Azure PowerShell, run the Move-AzureRmResource cmdlet

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

Explanation:

To move existing resources to another resource group or subscription, use the Move-AzureRmResource cmdlet.

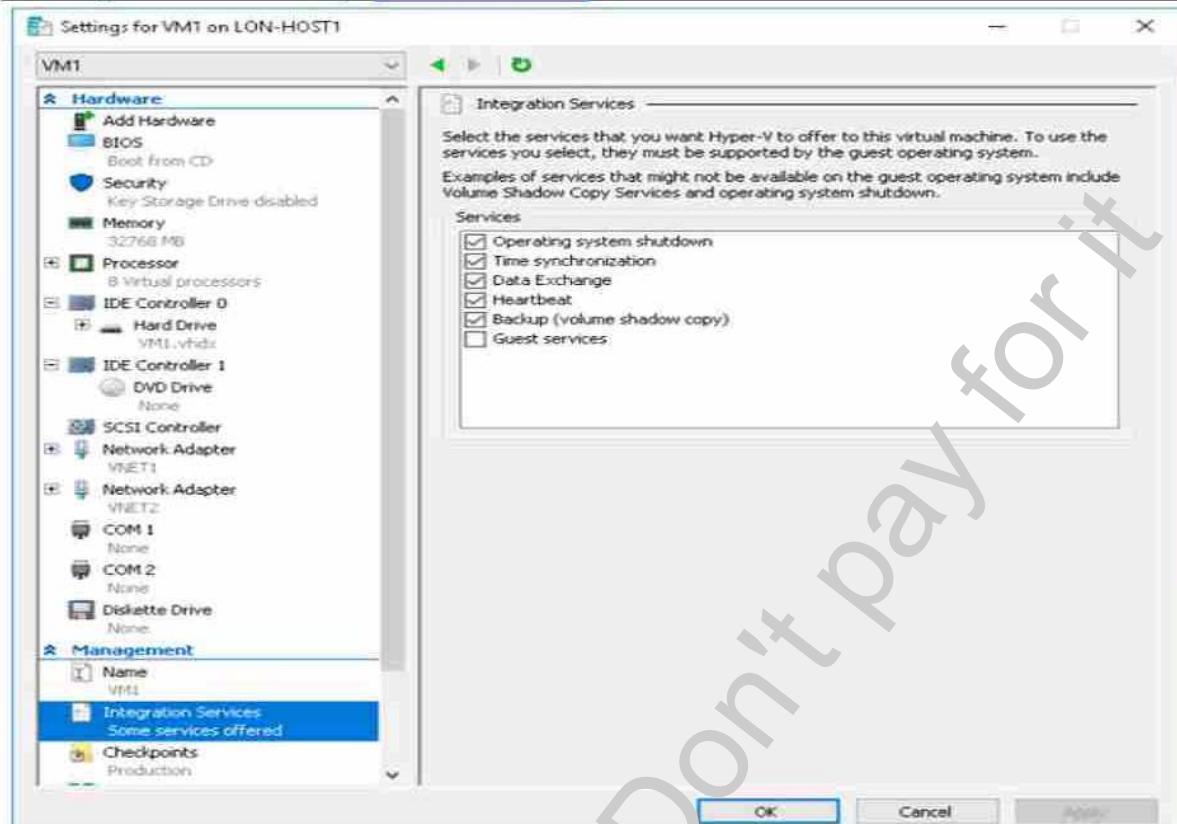
References:

<https://docs.microsoft.com/en-in/azure/azure-resource-manager/resource-group-move-resources#move-resources>

QUESTION 48

You have an Azure subscription.

You have an on-premises virtual machine named VM1. The settings for VM1 are shown in the exhibit. (Click the **Exhibit** tab.)

Question**Exhibit**

You need to ensure that you can use the disks attached to VM1 as a template for Azure virtual machines.

What should you modify on VM1?

- A. the processor
- B. the memory
- C. Integration Services
- D. the hard drive
- E. the network adapters

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

Explanation:

From the exhibit we see that the disk is in the VHDX format.

Before you upload a Windows virtual machines (VM) from on-premises to Microsoft Azure, you must prepare the virtual hard disk (VHD or VHDX). Azure supports only generation 1 VMs that are in the VHD file format and have a fixed sized disk. The maximum size allowed for the VHD is 1,023 GB. You can convert a generation 1 VM from the VHDX file system to VHD and from a dynamically expanding disk to fixed-sized.

References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/prepare-for-upload-vhd-image?toc=azure%20virtual-machines%20windows%20toc.json>

QUESTION 49

You have an Azure policy as shown in the following exhibit.

SCOPE

* Scope (Learn more about setting the scope)
Subscription 1

Exclusions
Subscription 1/ContosoRG1

BASICS

* Policy definition
Not allowed resource types

* Assignment name ⓘ
Not allowed resource types

Assignment ID
/subscriptions/5eb8d0b6-ce3b-4ce0-a631-9f5321bedabb/providers/Microsoft.Authorization/policyAssignments/0e6fb866bf8541.../accae2a9

Description

Assigned by
admin1@contoso.com

PARAMETERS

* Not allowed resource types ⓘ
Microsoft.Sql/servers

What is the effect of the policy?

- A. You can create Azure SQL servers in any resource group within Subscription 1.
- B. You can create Azure SQL servers in ContosoRG1 only.
- C. You are prevented from creating Azure SQL Servers in ContosoRG1 only.
- D. You are prevented from creating Azure SQL Servers anywhere in Subscription 1.

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

You are prevented from creating Azure SQL servers anywhere in Subscription 1 with the exception of ContosoRG1

QUESTION 50

DRAG DROP

You have an Azure subscription that is used by four departments in your company. The subscription contains 10 resource groups. Each department uses resources in several resource groups.

You need to send a report to the finance department. The report must detail the costs for each department.

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:

Actions	Answer Area
Open the Resource costs blade of each resource group.	>
From the Cost analysis blade, filter the view by tag.	<
Assign a tag to each resource.	<
Assign a tag to each resource group.	<
Download the usage report.	<

Correct Answer:

Actions	Answer Area
Open the Resource costs blade of each resource group.	Assign a tag to each resource.
From the Cost analysis blade, filter the view by tag.	From the Cost analysis blade, filter the view by tag.
Assign a tag to each resource.	Download the usage report
Assign a tag to each resource group.	<
Download the usage report.	<

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Box 1: Assign a tag to each resource.

You apply tags to your Azure resources giving metadata to logically organize them into a taxonomy. After you apply tags, you can retrieve all the resources in your subscription with that tag name and value. Each resource or resource group can have a maximum of 15 tag name/value pairs. Tags applied to the resource group are not inherited by the resources in that resource group.

Box 2: From the Cost analysis blade, filter the view by tag

After you get your services running, regularly check how much they're costing you. You can see the current spend and burn rate in Azure portal.

1. Visit the Subscriptions blade in Azure portal and select a subscription.

1. You should see the cost breakdown and burn rate in the popup blade.

2. Click Cost analysis in the list to the left to see the cost breakdown by resource. Wait 24 hours after you add a service for the data to populate.

3. You can filter by different properties like tags, resource group, and timespan. Click Apply to confirm the filters and Download if you want to export the view to a Comma-Separated Values (.csv) file.

Box 3: Download the usage report

References:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-using-tags>

<https://docs.microsoft.com/en-us/azure/billing/billing-getting-started>

QUESTION 51

You have an Azure subscription that contains a resource group named RG1. RG1 contains 100 virtual machines.

Your company has three cost centers named Manufacturing, Sales, and Finance.

You need to associate each virtual machine to a specific cost center.

What should you do?

- A. Add an extension to the virtual machines
- B. Modify the inventory settings of the virtual machine
- C. Assign tags to the virtual machines
- D. Configure locks for the virtual machine

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/billing/billing-getting-started>

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-using-tags>

QUESTION 52

HOTSPOT

Your company has a virtualization environment that contains the virtualization hosts shown in the following table.

Name	Hypervisor	Guest
Server1	VMware	VM1, VM2, VM3
Server2	Hyper-V	VM1, VM3, VMC

The virtual machines are configured as shown in the following table.

Name	Generation	Memory	Operating system (OS)	OS disk	Data disk
VM1	<i>Not applicable</i>	4 GB	Windows Server 2016	200 GB	800 GB
VM2	<i>Not applicable</i>	12 GB	Red Hat Enterprise Linux 7.2	3 TB	200 GB
VM3	<i>Not applicable</i>	16 GB	Windows Server 2012 R2	200 GB	1 TB
VMA	1	8 GB	Windows Server 2012	100 GB	2 TB
VMB	1	16 GB	Red Hat Enterprise Linux 7.2	150 GB	3 TB
VMC	2	24 GB	Windows Server 2016	500 GB	6 TB

All the virtual machines use basic disks. VM1 is protected by using BitLocker Drive Encryption (BitLocker).

You plan to migrate the virtual machines to Azure by using Azure Site Recovery.

You need to identify which virtual machines can be migrated.

Which virtual machines should you identify for each server? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

The virtual machines that can be migrated from Server1.

VM1 only
VM2 only
VM3 only
VM1 and VM2 only
VM1 and VM3 only
VM1, VM2, and VM3

The virtual machines that can be migrated from Server2.

VMA only
VMB only
VMC only
VMA and VMB only
VMA and VMC only
VMA, VMB, and VMC

Correct Answer:

Answer Area

The virtual machines that can be migrated from Server1.

VM1 only
VM2 only
VM3 only
VM1 and VM2 only
VM1 and VM3 only
VM1, VM2, and VM3

The virtual machines that can be migrated from Server2.

VMA only
VMB only
VMC only
VMA and VMB only
VMA and VMC only
VMA, VMB, and VMC

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Incorrect Answers:

VM1 cannot be migrated as it has BitLocker enabled.

VM2 cannot be migrated as the OS disk on VM2 is larger than 2TB.

VMC cannot be migrated as the Data disk on VMC is larger than 4TB.

References:

<https://docs.microsoft.com/en-us/azure/site-recovery/hyper-v-azure-support-matrix#azure-vm-requirements>

QUESTION 53

HOTSPOT

You have an Azure subscription that contains multiple resource groups. You create an availability set as shown in the following exhibit.

Create availability set X

*Name: AS1

*Subscription: Azure Pass

*Resource group: RG1

[Create new](#)

*Location: West Europe

Fault domains:  [2]

Update domains:  [3]

Use managed disks: No(Classic) Yes(Aligned)

You deploy 10 virtual machines to AS1.

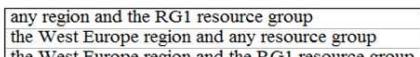
Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

During planned maintenance, at least [answer choice]  virtual machines will be available.

To add another virtual machines to AS1, the virtual machines must be added to [answer choice]. 

Correct Answer:

Answer Area

During planned maintenance, at least [answer choice]  virtual machines will be available.

4
5
6
8

To add another virtual machines to AS1, the virtual machines must be added to [answer choice].

any region and the RG1 resource group
the West Europe region and any resource group
the West Europe region and the RG1 resource group

Section: [none]**Explanation****Explanation/Reference:**

Explanation:

Box 1: 6

Two out of three update domains would be available, each with at least 3 VMs

An update domain is a group of VMs and underlying physical hardware that can be rebooted at the same time.

As you create VMs within an availability set, the Azure platform automatically distributes your VMs across these update domains. This approach ensures that at least one instance of your application always remains running as the Azure platform undergoes periodic maintenance.

Box 2: the West Europe region and the RG1 resource group

Reference:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/regions>

QUESTION 54

You have an Azure subscription that contains two storage accounts named storagecontoso1 and storagecontoso2. Each storage account contains a queue service, a table service, and a blob service.

You develop two apps named App1 and App2. You need to configure the apps to store different types of data to all the storage services on both the storage accounts.

How many endpoints should you configure for each app?

- A. 2
- B. 3
- C. 6
- D. 12

Correct Answer: A

Section: [none]**Explanation****Explanation/Reference:**

Explanation:

Each app needs a service endpoint in each Storage Account.

References:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-network-security>

QUESTION 55**HOTSPOT**

You have an Azure subscription named Subscription1.

You have a virtualization environment that contains the virtualization servers in the following table.

Name	Hypervisor	Guest
Server1	Hyper-V	VM1, VM2, VM3
Server2	VMware	VMA, VMB, VMC

The virtual machines are configured as shown in the following table.

Name	Generation	Memory	Operating system(OS) disk	Data disk	OS
VM1	1	4 GB	200 GB	800 GB	Windows Server 2012 R2
VM2	1	12 GB	3 TB	200 GB	Red Hat Enterprise Linux 7.2
VM3	2	32 GB	100 GB	1 TB	Windows Server 2016
VMA	<i>Not applicable</i>	8 GB	100 GB	2 TB	Windows Server 2012 R2
VMB	<i>Not applicable</i>	16 GB	150 GB	1 TB	Red Hat Enterprise Linux 7.2
VMC	<i>Not applicable</i>	24 GB	500 GB	6 TB	Windows Server 2016

All the virtual machines use basic disks. VM1 is protected by using BitLocker Drive Encryption (BitLocker).

You plan to use Azure Site Recovery to migrate the virtual machines to Azure.

Which virtual machines can you migrate? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

The virtual machines that can be migrated from Server1.

VM1 only
VM2 only
VM3 only
VM1 and VM2 only
VM1 and VM3 only
VM1, VM2, and VM3

The virtual machines that can be migrated from Server2.

VMA only
VMB only
VMC only
VMA and VMB only
VMA and VMC only
VMA, VMB, and VMC

Correct Answer:

Answer Area

The virtual machines that can be migrated from Server1.

VM1 only
VM2 only
VM3 only
VM1 and VM2 only
VM1 and VM3 only
VM1, VM2, and VM3

The virtual machines that can be migrated from Server2.

VMA only
VMB only
VMC only
VMA and VMB only
VMA and VMC only
VMA, VMB, and VMC

Section: [none]

Explanation

Explanation Reference:

Explanation:

Incorrect Answers:

VM1 cannot be migrated as it has BitLocker enabled.

VM2 cannot be migrated as the OS disk on VM2 is larger than 2TB.

VMC cannot be migrated as the Data disk on VMC is larger than 4TB.

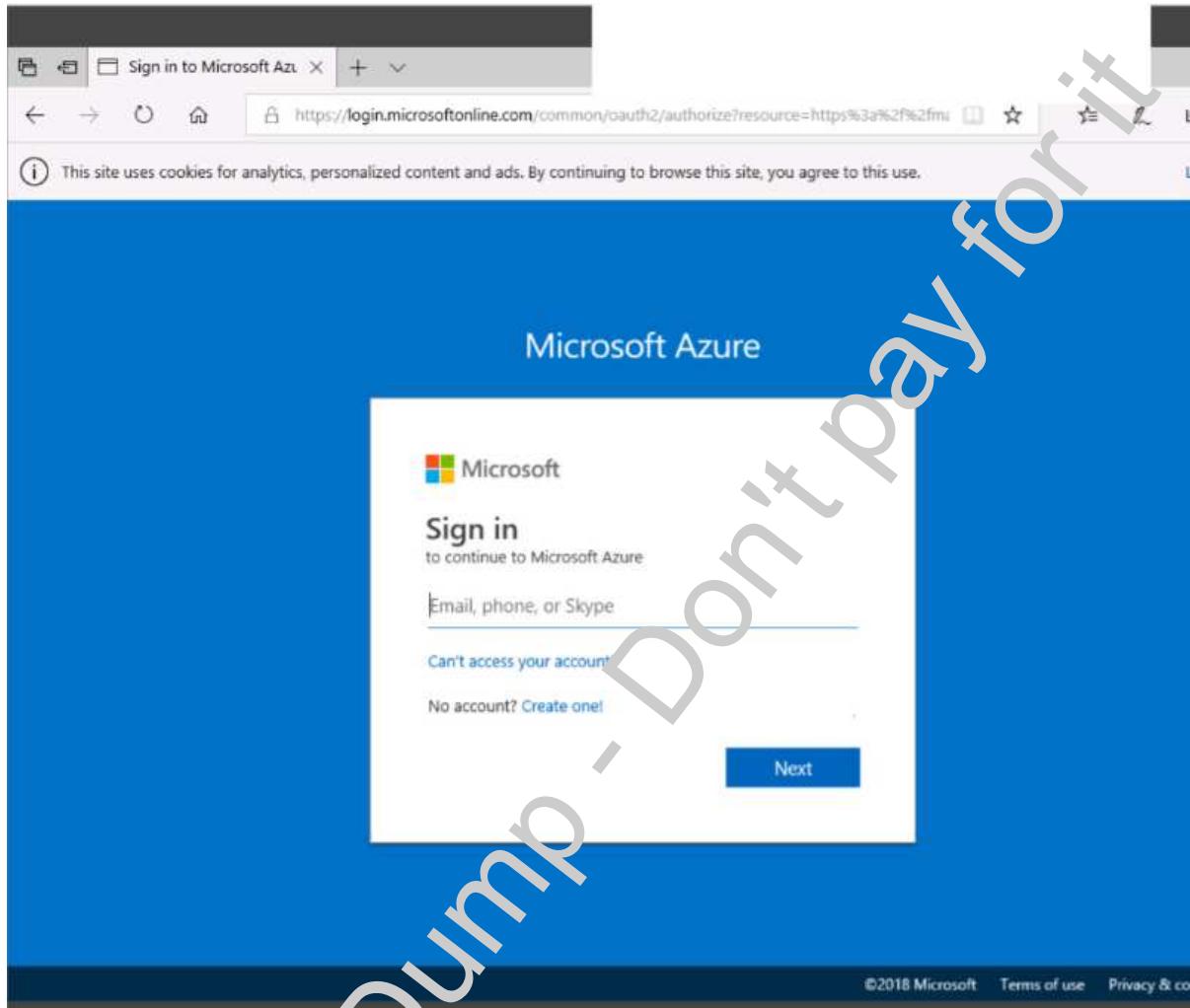
References:

<https://docs.microsoft.com/en-us/azure/site-recovery/hyper-v-azure-support-matrix#azure-vm-requirements>

QUESTION 56

SIMULATION

Click to expand each objective. To connect to the Azure portal, type <https://portal.azure.com> in the browser address bar.



Microsoft Azure

Dashboard - Microsoft. x

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https://portal.azure.com/#@pbteamsponsoroutlook.onmicrosoft.com/dashboard/private/b... Search resources, services, and docs

User1-7523691@Exa...

Create a resource

All services

Favorites

Dashboard

All resources

Resource groups

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directory

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Ubuntu, Red Hat, CentOS, SUSE, CoreOS VMs

App Service

Create Web Apps using .NET, Java, Node.js, Python, PHP

Functions

Process events with a serverless code architecture

SQL Database

The screenshot shows the Microsoft Azure dashboard with a large watermark reading "Free Dump, Don't pay for it". The dashboard includes a sidebar with links to services like App Services, Functions, and SQL Database, along with a search bar and user information.

Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Free Dump, Don't pay for it

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)

Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

FreeDump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)

Overview

- Outputs
- Inputs
- Template

[Delete](#)[Cancel](#)[Redeploy](#)[Refresh](#)

Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.



Deployment
name: Microsoft.StorageAccount-
20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 5:04:06 AM
Duration: 17 seconds
Correlation ID: bdd06a4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Ubuntu Server 18.04 LTS

by Canonical

[Terms of use](#) | [Privacy policy](#)

Standard D2s v3

by Microsoft

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Pricing not available for this offering

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Subscription credits apply

0.0960 USD/hr

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TERMS

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When you are finished performing all the tasks, click the 'Next' button.

Note that you cannot return to the lab once you click the 'Next' button. Scoring occurs in the background while you complete the rest of the exam.

Overview

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Please note that once you submit your work by clicking the Next button within a lab, you will NOT be able to return to the lab.

To start the lab

You may start the lab by clicking the Next button.

You plan to migrate a large amount of corporate data to Azure Storage and to back up files stored on old hardware to Azure Storage.

You need to create a storage account named corpdata8548984n1, in the corpdatalod8548984 resource group. The solution must meet the following requirements:

- corpdata8548984n1 must be able to host the virtual disk files for Azure virtual machines
- The cost of accessing the files must be minimized
- Replication costs must be minimized

What should you do from the Azure portal?

Correct Answer: See solution below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Step 1: In the Azure portal, click All services. In the list of resources, type Storage Accounts. As you begin typing, the list filters based on your input. Select Storage Accounts.

Step 2: On the Storage Accounts window that appears, choose Add.

Step 3: Select the subscription in which to create the storage account.

Step 4: Under the Resource group field, select corpdatalod8548984.

Home > Create storage account

Create storage account

Basics Advanced Tags Review + create

Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. [Learn more](#)

PROJECT DETAILS

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

* Subscription: <your-subscription>

* Resource group: sample-resource-group
Create new

INSTANCE DETAILS

The default deployment model is Resource Manager. You can also use the classic deployment model instead. [Choose classic](#)

* Storage account name: your-resource-group

* Location:

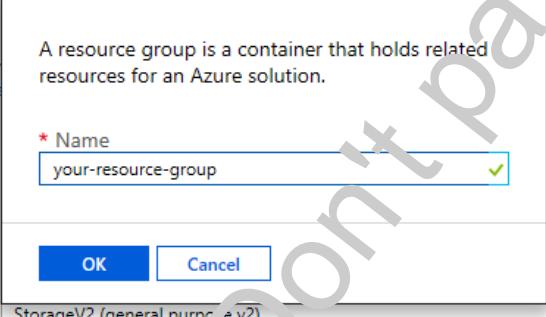
Performance:

Account kind: StorageV2 (general purpose v2)

Replication: Locally-redundant storage (LRS)

Access tier (default): Cool (radio button)

Review + create Previous Next : Advanced >



Step 5: Enter a name for your storage account: corpdata8548984n1

Step 6: For Account kind select: General-purpose v2 accounts (recommended for most scenarios)
General-purpose v2 accounts is recommended for most scenarios. General-purpose v2 accounts deliver the lowest per-gigabyte capacity prices for Azure Storage, as well as industry-competitive transaction prices.

Step 7: For replication select: Read-access geo-redundant storage (RA-GRS)
Read-access geo-redundant storage (RA-GRS) maximizes availability for your storage account. RA-GRS provides read-only access to the data in the secondary location, in addition to geo-replication across two regions.

References:

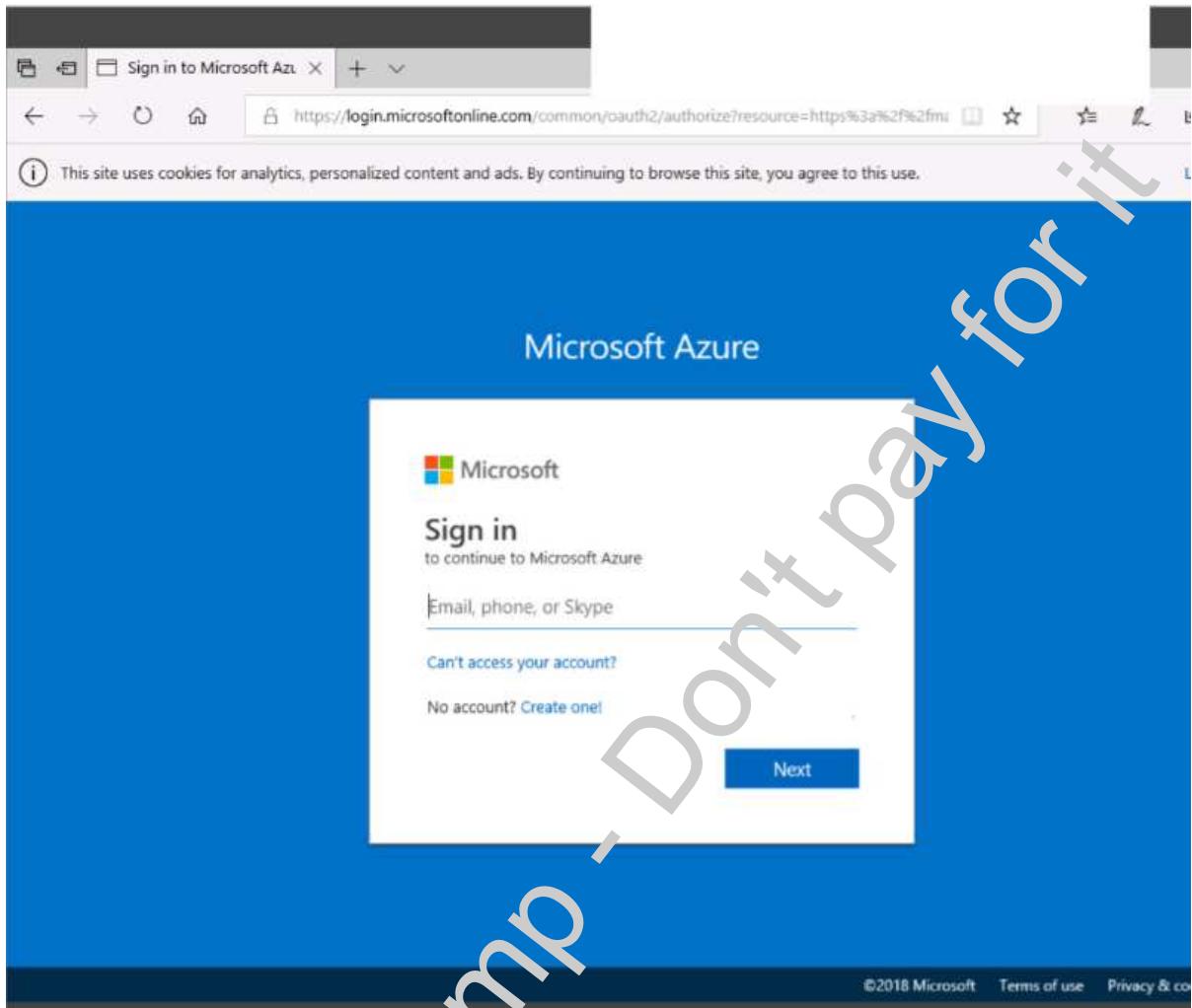
<https://docs.microsoft.com/en-us/azure/storage/common/storage-quickstart-create-account>

<https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview>

QUESTION 57

SIMULATION

Click to expand each objective. To connect to the Azure portal, type <https://portal.azure.com> in the browser address bar.



Microsoft Azure

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https://portal.azure.com/#@pbteamsponsoroutlook.onmicrosoft.com/dashboard/private/b... Search resources, services, and docs

User1-7523691@Exa...

Create a resource

All services

Favorites

Dashboard

All resources

Resource groups

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

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Ubuntu, Red Hat, CentOS, SUSE, CoreOS VMs

App Service

Create Web Apps using .NET, Java, Node.js, Python, PHP

Functions

Process events with a serverless code architecture

SQL Database

The screenshot shows the Microsoft Azure dashboard with a large watermark reading "Free Dump, Don't pay for it". The dashboard includes a sidebar with links to services like App Services, Functions, and SQL Database, along with a search bar and user information.

Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5

corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)

Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

FreeDump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)

«

 Overview

 Outputs

 Inputs

 Template

 Delete

 Cancel

 Redeploy

 Refresh

Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.



Deployment
name: Microsoft.StorageAccount-
20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 5:04:06 AM
Duration: 17 seconds
Correlation ID: bdd06a4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Ubuntu Server 18.04 LTS

by Canonical

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Standard D2s v3

by Microsoft

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Pricing not available for this offering

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Subscription credits apply

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To start the lab

You may start the lab by clicking the Next button.

You plan to move backup files and documents from an on-premises Windows file server to Azure Storage. The backup files will be stored as blobs.

You need to create a storage account named corpdata8548984n2. The solution must meet the following requirements:

- Ensure that the documents are accessible via drive mappings from Azure virtual machines that run Windows Server 2016
- Provide the highest possible redundancy for the documents
- Minimize storage access costs

What should you do from the Azure portal?

Correct Answer: See solution below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Step 1: In the Azure portal, click All services. In the list of resources, type Storage Accounts. As you begin typing, the list filters based on your input. Select Storage Accounts.

Step 2: On the Storage Accounts window that appears, choose Add.

Step 3: Select the subscription in which to create the storage account.

Step 4: Under the Resource group field, select Create New. Create a new Resource

Home > Create storage account

Create storage account

Basics Advanced Tags Review + create

Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. [Learn more](#)

PROJECT DETAILS

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

* Subscription: <your-subscription>

* Resource group: sample-resource-group
Create new

INSTANCE DETAILS

The default deployment model is Resource Manager. You can also use the classic deployment model instead. [Choose classic](#)

* Storage account name: your-resource-group

* Location:

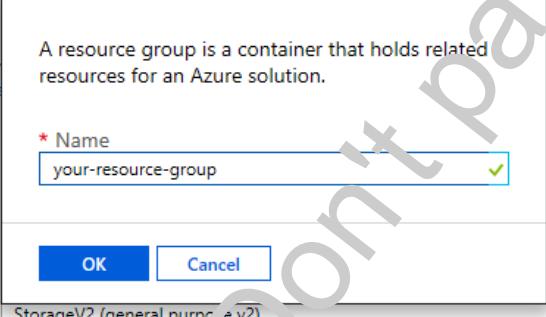
Performance:

Account kind: StorageV2 (general purpose v2)

Replication: Locally-redundant storage (LRS)

Access tier (default): Cool (radio button)

Review + create Previous Next : Advanced >



Step 5: Enter a name for your storage account: corpdata8548984n2

Step 6: For Account kind select: General-purpose v2 accounts (recommended for most scenarios)
General-purpose v2 accounts is recommended for most scenarios. General-purpose v2 accounts deliver the lowest per-gigabyte capacity prices for Azure Storage, as well as industry-competitive transaction prices.

Step 7: For replication select: Read-access geo-redundant storage (RA-GRS)
Read-access geo-redundant storage (RA-GRS) maximizes availability for your storage account. RA-GRS provides read-only access to the data in the secondary location, in addition to geo-replication across two regions.

References:

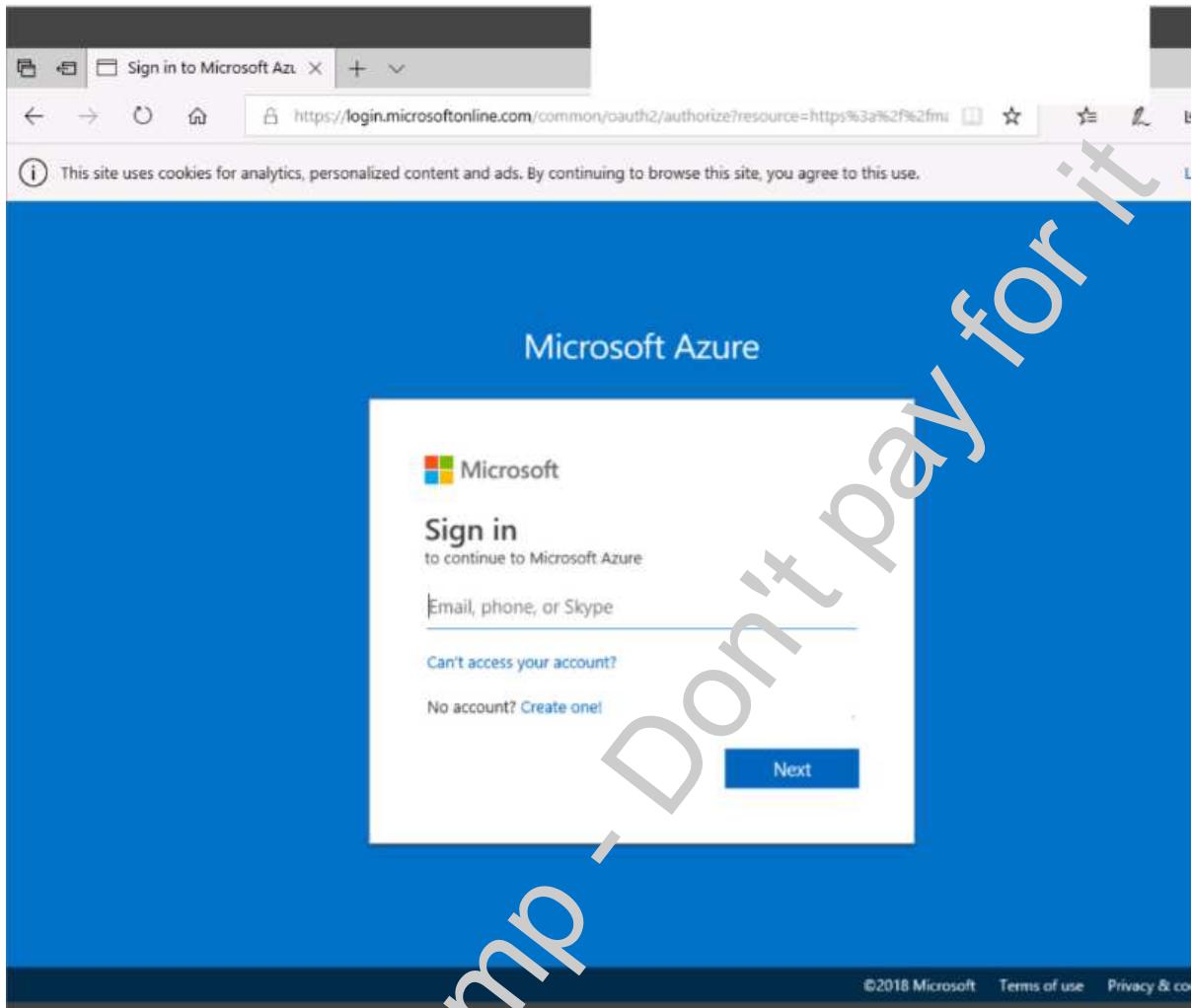
<https://docs.microsoft.com/en-us/azure/storage/common/storage-quickstart-create-account>

<https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview>

QUESTION 58

SIMULATION

Click to expand each objective. To connect to the Azure portal, type <https://portal.azure.com> in the browser address bar.



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Create a resource

All services

Favorites

Dashboard

All resources

Resource groups

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

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Ubuntu, Red Hat, CentOS, SUSE, CoreOS VMs

App Service

Create Web Apps using .NET, Java, Node.js, Python, PHP

Functions

Process events with a serverless code architecture

SQL Database

The screenshot shows the Microsoft Azure dashboard with a sidebar on the left containing links to various Azure services such as Create a resource, All services, Favorites, Dashboard, All resources, Resource groups, App Services, Function Apps, SQL databases, Azure Cosmos DB, Virtual machines, Load balancers, Storage accounts, Virtual networks, Azure Active Directory, Monitor, Advisor, Security Center, and Cost Management + Bill... Below the sidebar is a main content area titled "Dashboard" which features several tiles for quick access to Azure services. These tiles include "Windows Virtual Machines" (with sub-options for Windows Server, SQL Server, and SharePoint VMs), "App Service" (with sub-options for creating web apps using .NET, Java, Node.js, Python, and PHP), "Functions" (described as processing events with a serverless code architecture), and "SQL Database". The top right corner of the dashboard shows the user's name, "User1-7523691@Exa...", and a "Logout" button.

Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Free Dump, Don't pay for it

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)
Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

Free Dump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)

«

 Overview

 Outputs

 Inputs

 Template

 Delete

 Cancel

 Redeploy

 Refresh

Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.



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name: Microsoft.StorageAccount-
20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 5:04:06 AM
Duration: 17 seconds
Correlation ID: bdd06a4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Ubuntu Server 18.04 LTS

by Canonical

[Terms of use](#) | [Privacy policy](#)

Standard D2s v3

by Microsoft

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Subscription credits apply

0.0960 USD/hr

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TERMS

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To start the lab

You may start the lab by clicking the Next button.

You need to deploy two Azure virtual machines named VM1003a and VM1003b based on an Ubuntu Server image. The deployment must meet the following requirements:

- Provide a Service Level Agreement (SLA) of 99.95 percent availability
- Use managed disks

What should you do from the Azure portal?

Correct Answer: See solution below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Step 1: Open the Azure portal.

Step 2: On the left menu, select All resources. You can sort the resources by Type to easily find your images.

Step 3: Select the image you want to use from the list. The image **Overview** page opens.

Step 4: Select Create VM from the menu.

Step 5: Enter the virtual machine information. Select VM1003a as the name for the first Virtual machine. The user name and password entered here will be used to log in to the virtual machine. When complete, select OK. You can create the new VM in an existing resource group, or choose Create new to create a new resource group to store the VM.

Step 6: Select a size for the VM. To see more sizes, select View all or change the Supported disk type filter.

Step 7: Under Settings, make changes as necessary and select OK.

Step 8: On the summary page, you should see your image name listed as a Private image. Select Ok to start the virtual machine deployment.

Repeat the procedure for the second VM and name it VM1003b.

References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/create-vm-generalized-managed>

QUESTION 59

SIMULATION

Click to expand each objective. To connect to the Azure portal, type <https://portal.azure.com> in the browser address bar.



Microsoft Azure

Free Dump - Don't pay for it

Microsoft Azure

Dashboard - Microsoft. x

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https://portal.azure.com/#@pbteamsponsoroutlook.onmicrosoft.com/dashboard/private/b... Search resources, services, and docs

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Create a resource

All services

Favorites

Dashboard

All resources

Resource groups

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directory

Monitor

Advisor

Security Center

Cost Management + Bill...

Service Health

Marketplace

Dashboard

All resources

Azure getting started made easy!

Launch an array of choices on Azure in a few quick steps

Create DevOps Project

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Windows Virtual Machines

Linux Virtual Machines

Windows Server, SQL Server, SharePoint VMs

Ubuntu, Red Hat, CentOS, SUSE, CoreOS VMs

App Service

Create Web Apps using .NET, Java, Node.js, Python, PHP

Functions

Process events with a serverless code architecture

SQL Database

The screenshot shows the Microsoft Azure dashboard with a large watermark reading "Free Dump, Don't pay for it". The dashboard includes a sidebar with links to services like App Services, Functions, and SQL Database, along with a search bar and user information.

Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)
Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

Free Dump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)

«

 Overview

 Outputs

 Inputs

 Template

 Delete

 Cancel

 Redeploy

 Refresh

Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.



Deployment
name: Microsoft.StorageAccount-
20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 5:04:06 AM
Duration: 17 seconds
Correlation ID: bdd06a4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Ubuntu Server 18.04 LTS

by Canonical

[Terms of use](#) | [Privacy policy](#)

Standard D2s v3

by Microsoft

[Terms of use](#) | [Privacy policy](#)

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Subscription credits apply

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TERMS

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To start the lab

You may start the lab by clicking the Next button.

You need to deploy an Azure virtual machine named VM1004a based on an Ubuntu Server image, and then to configure VM1004a to meet the following requirements:

- The virtual machines must contain data disks that can store at least 15 TB of data
- The data disk must be able to provide at least 2,000 IOPS
- Storage costs must be minimized

What should you do from the Azure portal?

Correct Answer: See solution below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Step 1: Open the Azure portal.

Step 2: On the left menu, select All resources. You can sort the resources by Type to easily find your images.

Step 3: Select the image you want to use from the list. The image **Overview** page opens.

Step 4: Select Create VM from the menu.

Step 5: Enter the virtual machine information. Select VM1004a as the name for the first Virtual machine. The user name and password entered here will be used to log in to the virtual machine. When complete, select OK. You can create the new VM in an existing resource group, or choose Create new to create a new resource group to store the VM.

Step 6: Select a size for the VM. To see more sizes, select View all or change the Supported disk type filter. To support 15 TB of data you would need a Premium disk.

Step 7: Under Settings, make changes as necessary and select OK.

Step 8: On the summary page, you should see your image name listed as a Private image. Select Ok to start the virtual machine deployment.

References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/create-vm-generalized-managed>

QUESTION 60

SIMULATION

Click to expand each objective. To connect to the Azure portal, type https://portal.azure.com in the browser address bar.



Microsoft Azure

Dashboard - Microsoft. x

← → ⏪ ⏩ ⏴ ⏵

https://portal.azure.com/#@pbteamsponsoroutlook.onmicrosoft.com/dashboard/private/b... Search resources, services, and docs

User1-7523691@Exa...

Create a resource

All services

Favorites

Dashboard

All resources

Resource groups

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directory

Monitor

Advisor

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Functions

Process events with a serverless code architecture

SQL Database

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Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Free Dump, Don't pay for it

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)
Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

Free Dump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)



 Overview

 Outputs

 Inputs

 Template

 Delete

 Cancel

 Redeploy

 Refresh

Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.



Deployment
name: Microsoft.StorageAccount-
20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 5:04:06 AM
Duration: 17 seconds
Correlation ID: bdd06ba4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Ubuntu Server 18.04 LTS

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by Microsoft

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To start the lab

You may start the lab by clicking the Next button.

You plan to create 100 Azure virtual machines on each of the following three virtual networks:

- VNET1005a

- VNET1005b
- VNET1005c

All the network traffic between the three virtual networks will be routed through VNET1005a.

You need to create the virtual networks, and then to ensure that all the Azure virtual machines can connect to other virtual machines by using their private IP address. The solutions must **NOT** require any virtual gateways and must minimize the number of peerings.

What should you do from the Azure portal before you configuring IP routing?

Correct Answer: See solution below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Step 1: Click Create a resource in the portal.

Step 2: Enter Virtual network in the Search the Marketplace box at the top of the New pane that appears. Click Virtual network when it appears in the search results.

Step 3: Select Classic in the Select a deployment model box in the Virtual network pane that appears, then click Create.

Step 4: Enter the following values on the Create virtual network (classic) pane and then click Create:
Name: VNET1005a

Address space: 10.0.0.0/16

Subnet name: subnet0

Resource group: Create new

Subnet address range: 10.0.0.0/24

Subscription and location: Select your subscription and location.

Step 5: Repeat steps 3-5 for VNET1005b (10.1.0.0/16, 10.1.0.0/24), and for VNET1005c 10.2.0.0/16, 10.2.0.0/24).

References:

<https://docs.microsoft.com/en-us/azure/virtual-network/create-virtual-network-classic>

QUESTION 61

SIMULATION

Click to expand each objective. To connect to the Azure portal, type <https://portal.azure.com> in the browser address bar.



Microsoft Azure

Dashboard - Microsoft. x

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https://portal.azure.com/#@pbteamsponsoroutlook.onmicrosoft.com/dashboard/private/b... Search resources, services, and docs

User1-7523691@Exa...

Create a resource

All services

Favorites

Dashboard

All resources

Resource groups

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directory

Monitor

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Process events with a serverless code architecture

SQL Database

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Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Free Dump, Don't pay for it

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)
Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

Free Dump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)



 Overview

 Outputs

 Inputs

 Template

 Delete

 Cancel

 Redeploy

 Refresh

Your deployment is underway

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Deployment
name: Microsoft.StorageAccount-
20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 5:04:06 AM
Duration: 17 seconds
Correlation ID: bdd06ba4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Ubuntu Server 18.04 LTS

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Standard D2s v3

by Microsoft

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Subscription credits apply

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TERMS

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To start the lab

You may start the lab by clicking the Next button.

You plan to deploy several Azure virtual machines and to connect them to a virtual network named VNET1007.

You need to ensure that future virtual machines on VNET1007 can register their name in an internal DNS zone

named corp8548984.com. The zone must **NOT** be hosted on a virtual machine.

What should you do from Azure Cloud Shell?

To complete this task, start Azure Cloud Shell and select PowerShell (Linux), Click Show Advanced settings, and then enter corp8548984n1 in the Storage account text box and File1 share text box. Click Create storage, and then complete the task.

Correct Answer: See solution below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Step 1: Launch Cloud Shell from the top navigation of the Azure portal.



Step 2: Select PowerShell



When you start the Azure Cloud Shell for the first time, you will be prompted to create a storage account in order to associate a new Azure File Share to persist files across sessions.

Step 3: Click Show Advanced settings.

You have no storage mounted X

Azure Cloud Shell requires an Azure file share to persist files. [Learn more](#)

This will create a new storage account for you and this will incur a small monthly cost. [View pricing](#)

* Subscription

Visual Studio Enterprise

Show advanced settings

Create storage

Close

Step 4: Enter corp8548984n1 in the Storage account text box and File1 share text box. Click Create storage.



Step 5: Enter the following command at the powershell command prompt:

New-AzDnsZone -Name "corp8548984.com."

-ResourceGroupName "mycloudshell"

-ZoneType Private

-RegistrationVirtualNetworkId vNET1007

Note: A DNS zone is created by using the New-AzDnsZone cmdlet with a value of Private for the ZoneType parameter.

References:

<https://docs.microsoft.com/en-us/azure/dns/private-dns-getstarted-powershell>

<https://docs.microsoft.com/en-us/azure/cloud-shell/quickstart-powershell>

<https://docs.microsoft.com/en-us/powershell/module/az.dns/new-azdnszone?view=azps-1.5.0>

QUESTION 62

SIMULATION

Click to expand each objective. To connect to the Azure portal, type <https://portal.azure.com> in the browser address bar.



Microsoft Azure

Dashboard - Microsoft. x

← → ⏪ ⏩ ⏴ ⏵

https://portal.azure.com/#@pbteamsponsoroutlook.onmicrosoft.com/dashboard/private/b... Search resources, services, and docs

User1-7523691@Exa...

Create a resource

All services

Favorites

Dashboard

All resources

Resource groups

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directory

Monitor

Advisor

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Functions

Process events with a serverless code architecture

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Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Free Dump, Don't pay for it

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)

Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

FreeDump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)

«

 Overview

 Outputs

 Inputs

 Template

 Delete

 Cancel

 Redeploy

 Refresh

Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.



Deployment
name: Microsoft.StorageAccount-
20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

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Duration: 17 seconds
Correlation ID: bdd06a4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Ubuntu Server 18.04 LTS

by Canonical

[Terms of use](#) | [Privacy policy](#)

Standard D2s v3

by Microsoft

[Terms of use](#) | [Privacy policy](#)

Pricing not available for this offering

[View Pricing details](#) for more information.

Subscription credits apply

0.0960 USD/hr

[Pricing for other VM sizes](#)

TERMS

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To start the lab

You may start the lab by clicking the Next button.

Another administrator reports that she is unable to configure a web app named corplod10217507n3 to prevent all connections from an IP address of 11.0.0.11.

You need to modify corplod10217507n3 to successfully prevent the connections from the IP address. The solution must minimize Azure-related costs.

What should you do from the Azure portal?

Correct Answer: See explanation below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Step 1:

Find and select application corplod10217507n3:

1. In the Azure portal, on the left navigation panel, click Azure Active Directory.
2. In the Azure Active Directory blade, click Enterprise applications.

Step 2:

To add an IP restriction rule to your app, use the menu to open Network>IP Restrictions and click on Configure IP Restrictions

The screenshot shows the Azure portal interface for managing an App Service named 'ready-hybridconnection'. The left sidebar lists various configuration options like Application insights, Managed service identity, Backups, Custom domains, SSL settings, Networking (which is selected), Scale up (App Service plan), Scale out (App Service plan), WebJobs, Push, MySQL In App, Properties, Locks, and Automation script. The main content area displays the 'Networking' section, which includes 'VNET Integration' (Not Configured), 'Hybrid connections' (Securely access applications in private networks), 'Azure CDN' (Secure, reliable content delivery with broad global reach and rich feature set), and 'IP Restrictions' (Configure rules that control access to your app for range of IP addresses). Each section has a 'Learn More' link and a 'Configure' link.

Step 3:

Click Add rule

You can click on [+] Add to add a new IP restriction rule. Once you add a rule, it will become effective immediately.

Home > ready-hybridconnection - Networking > IP Restrictions

IP Restrictions

Remove Refresh

IP Restrictions

IP restrictions allow you to define an allow/deny list of addresses in order to control traffic to your site. Rules are evaluated in priority order. If there are no rules defined then your app will accept traffic from any address. [Learn more](#)

[Add rule](#)

PRIORITY	NAME	IP ADDRESS	ACTION	...
100	allowed access	131.107.159.0/24	Allow	...

Step 4:
Add name, IP address of 11.0.0.11, select Deny, and click Add Rule

Add IP Restriction

* Name i
Enter name for the ipAddress rule

IP Address i
 V4 V6

Enter an IPv4 CIDR. Ex: 208.130.0.0/16

Action
 Allow Deny

Priority
Ex: 300

Description:

References:

<https://docs.microsoft.com/en-us/azure/app-service/app-service-ip-restrictions>

QUESTION 63

SIMULATION

Click to expand each objective. To connect to the Azure portal, type <https://portal.azure.com> in the browser address bar.



Microsoft Azure

Dashboard - Microsoft. x

← → ⏪ ⏩ ⏴ ⏵

https://portal.azure.com/#@pbteamsponsoroutlook.onmicrosoft.com/dashboard/private/b... Search resources, services, and docs

User1-7523691@Exa...

Create a resource

All services

Favorites

Dashboard

All resources

Resource groups

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directory

Monitor

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Ubuntu, Red Hat, CentOS, SUSE, CoreOS VMs

App Service

Create Web Apps using .NET, Java, Node.js, Python, PHP

Functions

Process events with a serverless code architecture

SQL Database

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Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Free Dump, Don't pay for it

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)

Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

Free Dump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)

«

 Overview

 Outputs

 Inputs

 Template

 Delete

 Cancel

 Redeploy

 Refresh

Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.



Deployment
name: Microsoft.StorageAccount-
20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 5:04:06 AM
Duration: 17 seconds
Correlation ID: bdd06a4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Ubuntu Server 18.04 LTS

by Canonical

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Standard D2s v3

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TERMS

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Overview

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Please note that once you submit your work by clicking the Next button within a lab, you will NOT be able to return to the lab.

To start the lab

You may start the lab by clicking the Next button.

You need to add a deployment slot named staging to an Azure web app named corplod10217507n4. The solution must meet the following requirements:

- When new code is deployed to staging, the code must be swapped automatically to the production slot.
- Azure-related costs must be minimized.

What should you do from the Azure portal?

Correct Answer: See explanation below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Step 1:

Locate and open the corplod10217507n4 web app.

1. In the Azure portal, on the left navigation panel, click Azure Active Directory.

2. In the Azure Active Directory blade, click Enterprise applications.

Step 2:

Open your app's resource blade and Choose the Deployment slots option, then click Add Slot.

The screenshot shows the Azure portal interface for an App Service named 'mywordpresswebapp1'. The main title bar says 'mywordpresswebapp1 - Deployment slots'. Below it, there are two buttons: '+ Add Slot' (highlighted with a red box) and 'Swap' (with a swap icon). On the left, a sidebar menu lists several options: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, APP DEPLOYMENT (Quickstart, Deployment credentials, Deployment slots, Deployment options, Continuous Delivery (Preview)). The 'Deployment slots' option is highlighted with a red box. The main content area displays a message: 'You haven't added any deployment slots. Click ADD SLOT to get started.' There is a table header with columns: NAME, STATUS, and APP SERVICE PLAN.

Step 3:

In the Add a slot blade, give the slot a name, and select whether to clone app configuration from another existing deployment slot. Click the check mark to continue.

The first time you add a slot, you only have two choices: clone configuration from the default slot in production or not at all.

References:

<https://docs.microsoft.com/en-us/azure/app-service/web-sites-staged-publishing>

QUESTION 64

SIMULATION

Click to expand each objective. To connect to the Azure portal, type <https://portal.azure.com> in the browser address bar.



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Microsoft Azure



Sign in

to continue to Microsoft Azure

Email, phone, or Skype

Can't access your account?

No account? Create one!

Next

Free Dump . Don't pay for it

Microsoft Azure

Dashboard - Microsoft. x

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https://portal.azure.com/#@pbteamsponsoroutlook.onmicrosoft.com/dashboard/private/b... Search resources, services, and docs

User1-7523691@Exa...

Create a resource

All services

Favorites

Dashboard

All resources

Resource groups

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directory

Monitor

Advisor

Security Center

Cost Management + Bill...

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Ubuntu, Red Hat, CentOS, SUSE, CoreOS VMs

App Service

Create Web Apps using .NET, Java, Node.js, Python, PHP

Functions

Process events with a serverless code architecture

SQL Database

The screenshot shows the Microsoft Azure dashboard with a sidebar on the left containing links to various Azure services such as Create a resource, All services, Favorites, Dashboard, All resources, Resource groups, App Services, Function Apps, SQL databases, Azure Cosmos DB, Virtual machines, Load balancers, Storage accounts, Virtual networks, Azure Active Directory, Monitor, Advisor, Security Center, and Cost Management + Bill... Below the sidebar is a main content area titled "Dashboard" which features several tiles for quick access to Azure services. These tiles include "Windows Virtual Machines" (with sub-options for Windows Server, SQL Server, and SharePoint VMs), "App Service" (with sub-options for creating web apps using .NET, Java, Node.js, Python, and PHP), "Functions" (described as "Process events with a serverless code architecture"), and "SQL Database". The dashboard also includes sections for "All resources" and "Azure getting started made easy!" with a "Create DevOps Project" button.

Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Free Dump, Don't pay for it

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)
Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

Free Dump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)



 Overview

 Outputs

 Inputs

 Template

 Delete

 Cancel

 Redeploy

 Refresh

Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.



Deployment
name: Microsoft.StorageAccount-
20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 5:04:06 AM
Duration: 17 seconds
Correlation ID: bdd06ba4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Ubuntu Server 18.04 LTS

by Canonical

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Standard D2s v3

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Subscription credits apply

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Please note that once you submit your work by clicking the Next button within a lab, you will NOT be able to return to the lab.

To start the lab

You may start the lab by clicking the Next button.

You plan to deploy an application gateway named appgw1015 to load balance internal IP traffic to the Azure virtual machines connected to subnet0.

You need to configure a virtual network named VNET1015 to support the planned application gateway.

What should you do from the Azure portal?

Correct Answer: See explanation below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Step 1:

Click Networking, Virtual Network, and select VNET1015.

Step 2:

Click Subnets, and Click +Add on the VNET1015 - Subnets pane that appears.

Step 3:

On the Subnets page, click +Gateway subnet at the top to open the Add subnet page.



Step 4:

Locate subnet0 and add it.

References:

<https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-site-to-site-resource-manager-portal>

QUESTION 65

SIMULATION

Click to expand each objective. To connect to the Azure portal, type <https://portal.azure.com> in the browser address bar.



Free Dump - Don't pay for it

Microsoft Azure

Dashboard - Microsoft. x

← → ⏪ ⏩ ⏴ ⏵

https://portal.azure.com/#@pbteamsponsoroutlook.onmicrosoft.com/dashboard/private/b... Search resources, services, and docs

User1-7523691@Exa...

Create a resource

All services

Favorites

Dashboard

All resources

Resource groups

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directory

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Cost Management + Bill...

Service Health

Marketplace

Dashboard

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Ubuntu, Red Hat, CentOS, SUSE, CoreOS VMs

App Service

Create Web Apps using .NET, Java, Node.js, Python, PHP

Functions

Process events with a serverless code architecture

SQL Database

The screenshot shows the Microsoft Azure dashboard with a large watermark reading "Free Dump, Don't pay for it". The dashboard includes a sidebar with links to services like App Services, Functions, and SQL Database, along with a search bar and user information.

Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)
Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

Free Dump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)

«

 Overview

 Outputs

 Inputs

 Template

 Delete

 Cancel

 Redeploy

 Refresh

Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.



Deployment
name: Microsoft.StorageAccount-
20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 5:04:06 AM
Duration: 17 seconds
Correlation ID: bdd06a4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Ubuntu Server 18.04 LTS

by Canonical

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Standard D2s v3

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To start the lab

You may start the lab by clicking the Next button.

You plan to connect a virtual network named VNET1017 to your on-premises network by using both an Azure ExpressRoute and a site-to-site VPN connection.

You need to prepare the Azure environment for the planned deployment. The solutions must maximize the IP address space available to Azure virtual machines.

What should you do from the Azure portal before you create the ExpressRoute and the VPN gateway?

Correct Answer: See explanation below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

We need to create a Gateway subnet

Step 1:

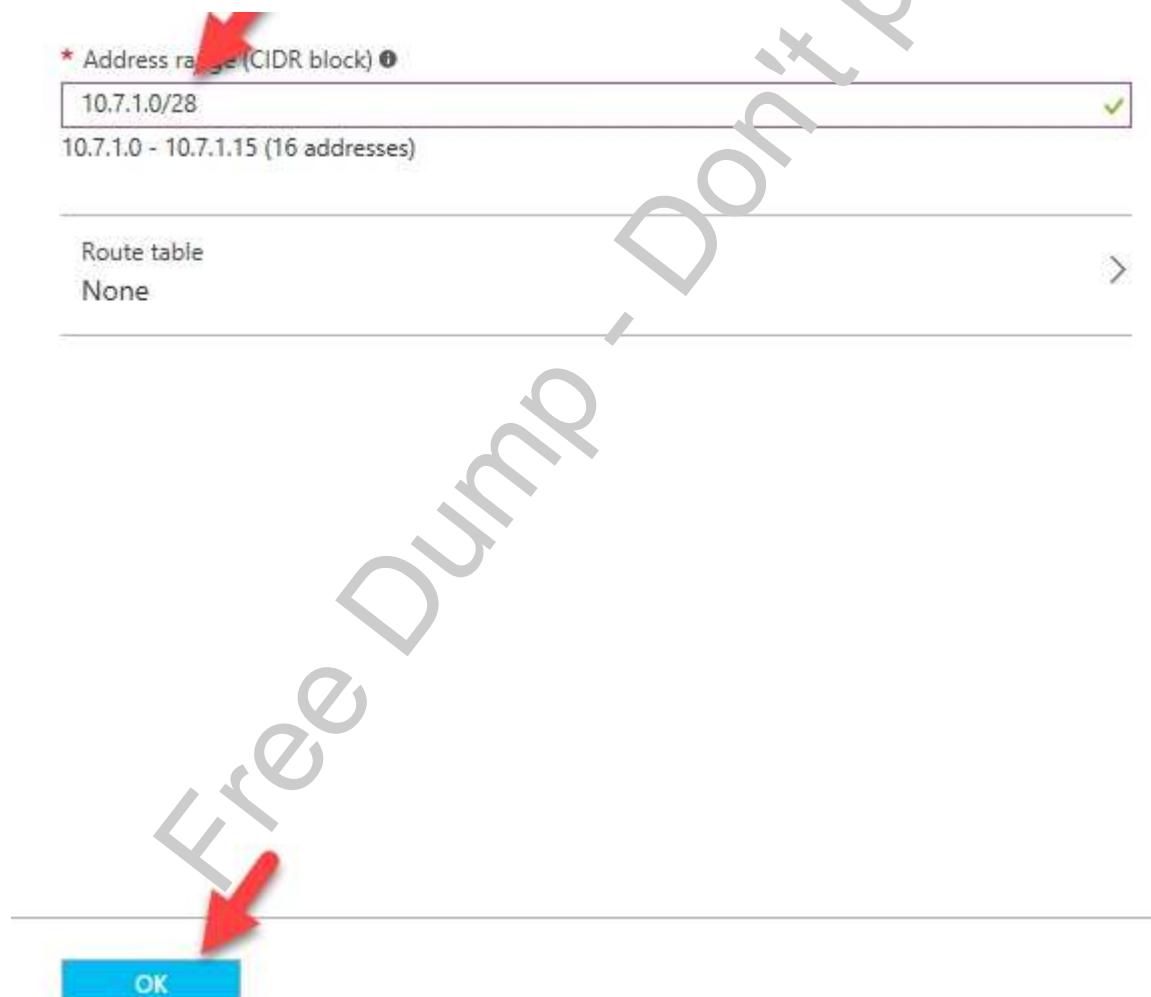
Go to More Services > Virtual Networks

Step 2:

Then click on the VNET1017, and click on subnets. Then click on gateway subnet.

Step 3:

In the next window define the subnet for the gateway and click OK



It is recommended to use /28 or /27 for gateway subnet.

As we want to maximize the IP address space we should use /27.

References:

<https://blogs.technet.microsoft.com/canitpro/2017/06/28/step-by-step-configuring-a-site-to-site-vpn-gateway-between-azure-and-on-premise/>

QUESTION 66

HOTSPOT

You have an Azure subscription named Subscription1 that contains a virtual network named VNet1. You add the users in the following table.

User	Role
User1	Owner
User2	Security Admin
User3	Network Contributor

Which user can perform each configuration? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Add a subnet to VNet1:

User1 only
User3 only
User1 and User2 only
User2 and User3 only
User1, User2, and User3

Assign a user the Reader role to VNet1:

User1 only
User2 only
User3 only
User1 and User2 only
User2 and User3 only
User1, User2, and User3

Correct Answer:

Answer Area

Add a subnet to VNet1:

User1 only
User3 only
User1 and User2 only
User2 and User3 only
User1, User2, and User3

Assign a user the Reader role to VNet1:

User1 only
User2 only
User3 only
User1 and User2 only
User2 and User3 only
User1, User2, and User3

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Box 1: User1 only.

User1: The Owner Role lets you manage everything, including access to resources.

Not User3: The Network Contributor role lets you manage networks, but not access to them.

Box 2: User1 and User2 only

The Security Admin role: In Security Center only: Can view security policies, view security states, edit security policies, view alerts and recommendations, dismiss alerts and recommendations.

References:

<https://docs.microsoft.com/en-us/azure/role-based-access-control/built-in-roles>

QUESTION 67

You have an Azure subscription that contains three virtual networks named VNet1, VNet2, and VNet3. VNet2 contains a virtual appliance named VM2 that operates as a router.

You are configuring the virtual networks in a hub and spoke topology that uses VNet2 as the hub network.

You plan to configure peering between VNet1 and VNet2 and between VNet2 and VNet3.

You need to provide connectivity between VNet1 and VNet3 through VNet2.

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

NOTE: Each correct selection is worth one point.

- A. On the peering connections, allow forwarded traffic
- B. Create a route filter
- C. On the peering connections, allow gateway transit
- D. Create route tables and assign the table to subnets
- E. On the peering, use remote gateways

Correct Answer: CE

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Allow gateway transit: Check this box if you have a virtual network gateway attached to this virtual network and want to allow traffic from the peered virtual network to flow through the gateway.

The peered virtual network must have the Use remote gateways checkbox checked when setting up the peering from the other virtual network to this virtual network.

References:

<https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-manage-peering#requirements-and-constraints>

QUESTION 68

DRAG DROP

You have an Azure subscription that contains two virtual networks named VNet1 and VNet2. Virtual machines connect to the virtual networks.

The virtual networks have the address spaces and the subnets configured as shown in the following table.

Virtual network	Address space	Subnet	Peering
VNet1	10.1.0.0/16	10.1.0.0/24	VNet2
		10.1.1.0/26	
VNet2	10.2.0.0/16	10.2.0.0/24	VNet1

You need to add the address space of 10.33.0.0/16 to VNet1. The solution must ensure that the hosts on VNet1 and VNet2 can communicate.

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:

Explanation:

Step 1: Remove peering between Vnet1 and VNet2.

You can't add address ranges to, or delete address ranges from a virtual network's address space once a virtual network is peered with another virtual network. To add or remove address ranges, delete the peering, add or remove the address ranges, then re-create the peering.

Step 2: Add the 10.44.0.0/16 address space to VNet1.

Step 3: Recreate peering between VNet1 and VNet2

References:

<https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-manage-peering>

QUESTION 69

HOTSPOT

You are designing a virtual network to support a web application. The web application uses Blob storage to store large images. The web application will be deployed to an Azure App Service Web App.

You have the following requirements:

- Secure all communications by using Secured Socket layer (SSL)
- SSL encryption and decryption must be processed efficiently to support high traffic load on the web application
- Protect the web application from web vulnerabilities and attacks without modification to backend code
- Optimize web application responsiveness and reliability by routing HTTP request and responses to the endpoint with the lowest network latency for the client.

You need to configure the Azure components to meet the requirements.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Requirement

SSL Encrypt / Decrypt

Component

Azure Application Gateway
Azure Monitor
Azure Security Center
Azure Traffic Manager

Protect from web vulnerabilities

Azure Application Gateway
Azure Monitor
Azure Security Center
Azure Traffic Manager

Optimize responsiveness and reliability

Azure Application Gateway
Azure Monitor
Azure Security Center
Azure Traffic Manager

Correct Answer:

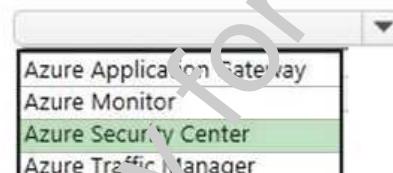
Answer Area

Requirement Component

SSL Encrypt / Decrypt



Protect from web vulnerabilities



Optimize responsiveness and reliability



Section: [none]

Explanation

Explanation/Reference:

Explanation:

Box 1: Azure application Gateway

Azure Application Gateway supports end-to-end encryption of traffic. Application Gateway terminates the SSL connection at the application gateway. The gateway then applies the routing rules to the traffic, re-encrypts the packet, and forwards the packet to the appropriate back-end server based on the routing rules defined. Any response from the web server goes through the same process back to the end user.

Box 2: Azure Security Center

Azure Security Center is a unified infrastructure security management system that strengthens the security posture of your data centers, and provides advanced threat protection across your hybrid workloads in the cloud - whether they're in Azure or not - as well as on premises.

Box 3: Azure Traffic Manager

Azure Traffic Manager is a DNS-based traffic load balancer that enables you to distribute traffic optimally to services across global Azure regions, while providing high availability and responsiveness.

References:

<https://docs.microsoft.com/en-us/azure/application-gateway/application-gateway-end-to-end-ssl-powershell>

<https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-overview>

<https://docs.microsoft.com/en-us/azure/security-center/security-center-intro>

QUESTION 70

HOTSPOT

You have Azure Storage accounts as shown in the following exhibit.

Storage accounts															
Contoso															
Add		Edit columns		Refresh		Assign Tags									
Subscriptions: All 2 selected – Don't see a subscription? Switch directories															
Filter by name... All subscriptions All resource groups All types All locations No grouping															
3 items															
NAME	TYPE	KIND	RESOURCE ...	LOCATION	SUBSCRIPTI...	ACCESS T...	REPLICAT...								
storageaccount1	Storage account	Storage	ContosoRG1	East US	Subscription 1	Hot	Read-access	...							
storageaccount2	Storage account	StorageV2	ContosoRG1	Central US	Subscription 1	Hot	Geo-redundant	...							
storageaccount3	Storage account	BlobStorage	ContosoRG1	East US	Subscription 1	Hot	Locally-redundant	...							

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:

Answer Area

You can use [answer choice] for Azure Table Storage.

storageaccount1 only
storageaccount2 only
storageaccount3 only
storageaccount1 and storageaccount2 only
storageaccount2 and storageaccount3 only

You can use [answer choice] for Azure Blob storage.

storageaccount3 only
storageaccount2 and storageaccount3 only
storageaccount1 and storageaccount3 only
all the storage accounts

Correct Answer:

Answer Area

You can use [answer choice] for Azure Table Storage.

storageaccount1 only
storageaccount2 only
storageaccount3 only
storageaccount1 and storageaccount2 only
storageaccount2 and storageaccount3 only

You can use [answer choice] for Azure Blob storage.

storageaccount3 only
storageaccount2 and storageaccount3 only
storageaccount1 and storageaccount3 only
all the storage accounts

Section: [none]**Explanation****Explanation/Reference:**

Explanation:

Note: The three different storage account options are: General-purpose v2 (GPv2) accounts, General-purpose v1 (GPv1) accounts, and Blob storage accounts.

- General-purpose v2 (GPv2) accounts are storage accounts that support all of the latest features for blobs, files, queues, and tables.
- Blob storage accounts support all the same block blob features as GPv2, but are limited to supporting only block blobs.
- General-purpose v1 (GPv1) accounts provide access to all Azure Storage services, but may not have the latest features or the lowest per gigabyte pricing.

References:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-account-options>

QUESTION 71

Note: This question is part of 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 are planning to create a virtual network that has a scale set that contains six virtual machines (VMs).

A monitoring solution on a different network will need access to the VMs inside the scale set.

You need to define public access to the VMs.

Solution: Deploy a standalone VM that has a public IP address to the virtual network.

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: A

Section: [none]**Explanation****Explanation/Reference:****QUESTION 72**

Note: This question is part of 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 are planning to create a virtual network that has a scale set that contains six virtual machines (VMs).

A monitoring solution on a different network will need access to the VMs inside the scale set.

You need to define public access to the VMs.

Solution: Implement an Azure Load Balancer.

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 73

Note: This question is part of 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 are planning to create a virtual network that has a scale set that contains six virtual machines (VMs).

A monitoring solution on a different network will need access to the VMs inside the scale set.

You need to define public access to the VMs.

Solution: Design a scale set to automatically assign public IP addresses to all VMs.

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 74

HOTSPOT

You have an on-premises data center and an Azure subscription. The data center contains two VPN devices. The subscription contains an Azure virtual network named VNet1. VNet1 contains a gateway subnet.

You need to create a site-to-site VPN. The solution must ensure that if a single instance of an Azure VPN gateway fails, or a single on-premises VPN device fails, the failure will not cause an interruption that is longer than two minutes.

What is the minimum number of public IP addresses, virtual network gateways, and local network gateways required in Azure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area:

Public IP addresses:

1
2
3
4

Virtual network gateways:

1
2
3
4

Local network gateways:

1
2
3
4

Correct Answer:

Free Dump - Don't pay for it

Answer Area:

Public IP addresses:

1
2
3
4

Virtual network gateways:

1
2
3
4

Local network gateways:

1
2
3
4

Section: [none]

Explanation

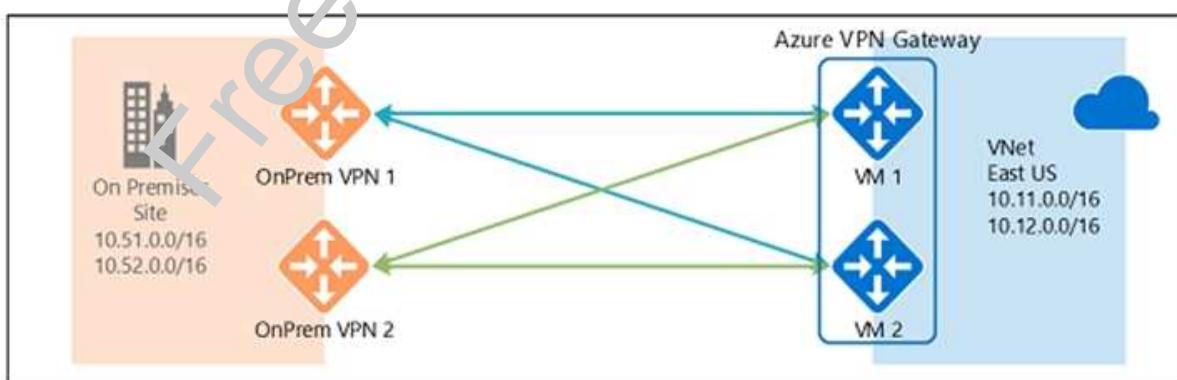
Explanation/Reference:

Explanation:

Box 1: 4

Two public IP addresses in the on-premises data center, and two public IP addresses in the VNET.

The most reliable option is to combine the active-active gateways on both your network and Azure, as shown in the diagram below.



Box 2: 2

Every Azure VPN gateway consists of two instances in an active-standby configuration. For any planned maintenance or unplanned disruption that happens to the active instance, the standby instance would take over (failover) automatically, and resume the S2S VPN or VNet-to-VNet connections.

Box 3: 2

Dual-redundancy: active-active VPN gateways for both Azure and on-premises networks

References:

<https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-highlyavailable>

QUESTION 75

HOTSPOT

You have peering configured as shown in the following exhibit.

The screenshot shows two separate Azure portal pages side-by-side.

Left Page: Virtual networks

- Header: Virtual networks << f x
- Sub-header: sknc (Default Directory)
- Actions: + Add, Edit columns, ...More
- Filter: Filter by name
- Table: NAME column with entries: test1-vnet, testVNET1, vNET1, vNET2, vNET3, vNET4, vNET5, vNET6.

Right Page: vNET6 - Peering

- Header: <...> vNET6 - Peering f x
- Actions: + Add
- Filter: Search peerings
- Table: NAME, PEERING STATUS, PEER, GATEWAY TRANSIT column with entries:
 - peering 1: Disconnected, vNET1, Enabled,
 - peering 2: Disconnected, vNET2, Disabled,

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:

Answer Area

Hosts on vNET6 can communicate with hosts on [answer choice].

vNET6 only
vNET6 and vNET 1 only
vNET6, vNET1, and vNET2 only
all the virtual networks in the subscription

To change the status of the peering connection to vNET1 to **Connected**, you must first [answer choice].

add a service endpoint
add a subnet
delete peering1
modify the address space

Correct Answer:

Answer Area

Hosts on vNET6 can communicate with hosts on [answer choice].

vNET6 only
vNET6 and vNET 1 only
vNET6, vNET1, and vNET2 only
all the virtual networks in the subscription

To change the status of the peering connection to vNET1 to **Connected**, you must first [answer choice].

add a service endpoint
add a subnet
delete peering1
modify the address space

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Box 1: vNET6 only

Box 2: Modify the address space

The virtual networks you peer must have non-overlapping IP address spaces.

References:

<https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-manage-peering#requirements-and-constraints>

QUESTION 76

You have an Azure Kubernetes Service (AKS) cluster named Clus1 in a resource group named RG1.

An administrator plans to manage Clus1 from an Azure AD-joined device.

You need to ensure that the administrator can deploy the YAML application manifest file for a container application.

You install the Azure CLI on the device.

Which command should you run next?

- A. kubectl get nodes
- B. az aks install-cli
- C. kubectl apply -f appl.yaml
- D. az aks get-credentials --resource-group RG1 --name Clus1

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

Explanation:

kubectl apply -f appl.yaml applies a configuration change to a resource from a file or stdin.

Incorrect Answers:

A: kubectl get nodes gets a list of all nodes.

B: az aks install-cli download and install the Kubernetes command-line tool.

D: az aks get-credentials gets access credentials for a managed Kubernetes cluster

References:

<https://kubernetes.io/docs/reference/kubectl/overview/>

<https://docs.microsoft.com/en-us/cli/azure/aks>

QUESTION 77

Note: This question is part of 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 are planning to create a virtual network that has a scale set that contains six virtual machines (VMs).

A monitoring solution on a different network will need access to the VMs inside the scale set.

You need to define public access to the VMs.

Solution: Use Remote Desktop Protocol (RDP) to connect to the VM in the scale set.

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Instead, deploy a standalone VM that has a public IP address to the virtual network.

QUESTION 78

You have an Azure subscription that contains the virtual networks shown in the following table.

Name	Address space	Location	Number of Azure virtual machines
VNET1	10.1.0.0/16	West US	100
VNET2	172.16.0.0/16	East US	400

You need to recommend a connectivity solution that will enable the virtual machines on VNET1 and VNET2 to communicate through the Microsoft backbone infrastructure.

What should you include in the recommendation?

- A. Azure ExpressRoute
- B. peering
- C. a site-to-site VPN
- D. a point-to-site VPN

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Virtual network peering enables you to seamlessly connect Azure virtual networks. Once peered, the virtual networks appear as one, for connectivity purposes. The traffic between virtual machines in the peered virtual networks is routed through the Microsoft backbone infrastructure, much like traffic is routed between virtual machines in the same virtual network, through private IP addresses only. Azure supports:

- VNet peering - connecting VNets within the same Azure region
- Global VNet peering - connecting VNets across Azure regions

References:

<https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-peering-overview>

QUESTION 79

You create an Azure virtual machine named 'VM1' in a resource group named RG1.

You discover that VM1 performs slower than expected.

You need to capture a network trace on VM1.

What should you do?

- A. From Diagnostic settings for VM1, configure the performance counters to include network counters.
- B. From the VM1 blade, configure Connection troubleshoot.
- C. From the VM1 blade, install performance diagnostics and run advanced performance analysis
- D. From Diagnostic settings for VM1, configure the log level of the diagnostic agent.

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

Explanation:

The performance diagnostics tool helps you troubleshoot performance issues that can affect a Windows or Linux virtual machine (VM). Supported troubleshooting scenarios include quick checks on known issues and best practices, and complex problems that involve slow VM performance or high usage of CPU, disk space, or

memory.

Advanced performance analysis, included in the performance diagnostics tool, includes all checks in the performance analysis, and collects one or more of the traces, as listed in the following sections. Use this scenario to troubleshoot complex issues that require additional traces. Running this scenario for longer periods will increase the overall size of diagnostics output, depending on the size of the VM and the trace options that are selected.

References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/troubleshooting/performance-diagnostics>

QUESTION 80

You have an Azure subscription that contains the resource groups shown in the following table.

Name	Region
RG1	East US
RG2	West US

The subscription contains the storage accounts shown in the following table.

Name	Resource group	Location	Account kind
Storage1	RG1	West US	Blob Storage
Storage2	RG2	West US	Storage (general purpose v1)
Storage3	RG1	East US	Storage V2 (general purpose v2)

You create a Recovery Services vault named Vault1 in RG1 in the West US location.

You need to identify which storage accounts can be used to archive the diagnostics logs of Vault1.

Which storage accounts should you identify?

- A. Storage1 only
- B. Storage2 only
- C. Storage3 only
- D. Storage1 or Storage2 only
- E. Storage1 or Storage3 only

Correct Answer: DE

Section: [none]

Explanation

Explanation/Reference:

Explanation:

The same region.

QUESTION 81

HOTSPOT

You have an Azure subscription.

You plan to deploy two Azure web apps that have the requirements shown in the following table.

Name	Requirement
App1	<ul style="list-style-type: none"> Accessible by using a URL of https://app1.contoso.com Scalable to two instances during busy periods Supports two deployment slots
App2	<ul style="list-style-type: none"> Accessible by using a URL of https://app2.contoso.com Scalable to 15 instances during busy periods Supports three deployment slots

You need to select the App Service plans for the web apps. The solution must minimize costs.

Which App Service plan should you select for each web app? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

App1:

B1 Basic
 D1 Shared
 P1v2 PremiumV2
 S1 Standard

App2:

B1 Basic
 D1 Shared
 P1v2 PremiumV2
 S1 Standard

Correct Answer:

Answer Area

App1:

B1 Basic
D1 Shared
P1v2 PremiumV2
S1 Standard

App2:

B1 Basic
D1 Shared
P1v2 PremiumV2
S1 Standard

Section: [none]

Explanation

Explanation/Reference:

Explanation:

	FREE	SHARED	BASIC	STANDARD	PREMIUM	ISOLATED*	APP SERVICE LINUX	CONSUMPTION PLAN (FUNCTIONS)
- Limits**								
Apps	10	10	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	500
Disk space	1 GB	10 GB	10 GB	50 GB	250 GB	1 TB		
Max instances			Up to 3	Up to 10	Up to 20	Up to 100		
SLA			99.95%	99.95%	99.95%	99.95%		
Functions on App Service Plans*			✓	✓	✓	✓		
- App Deployment								
Continuous Deployment*	✓	✓	✓	✓	✓	✓ ³	✓	✓
Deployment Slots			✓	✓	✓	✓	✓	

Reference:

<https://azure.microsoft.com/en-us/pricing/details/app-service/plans/>

QUESTION 82

You have an Azure subscription.

You create a custom role in Azure by using the following Azure Resource Manager template.

```
{  
  "Name": "Role1",  
  "Id": "88888888-8888-8888-888888888888",  
  "IsCustom" : true,  
  "Description" : "Role1 Description",  
  "Actions" : [  
    "Microsoft.Storage/*/read",  
    "Microsoft.Network/*/read",  
    "Microsoft.Compute/*/read",  
    "Microsoft.Compute/virtualMachines/start/action",  
    "Microsoft.Compute/virtualMachines/restart/action",  
    "Microsoft.Authorization/*/read",  
    "Microsoft.ResourceHealth/availabilityStatuses/read",  
    "Microsoft.Resources/subscriptions/resourceGroups/read",  
    "Microsoft.Insights/alertRules/*",  
    "Microsoft.Insights/diagnosticSettings/*",  
    "Microsoft.Support/*"  
,  
  "NotActions": [],  
  "DataActions": [],  
  "NotDataActions" : [],  
  "AssignableScopes" : [  
    "/subscriptions/981ddbc-8cf4-46fc-9513-0c599648b44b  
]  
}  
}
```

You assign the role to a user named User1.

Which action can User1 perform?

- A. Delete virtual machines.
- B. Create resource groups.
- C. Create virtual machines.
- D. Create support requests.

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

Explanation:

The "Microsoft.Support/*" operation will allow the user to create support tickets.

References:

<https://docs.microsoft.com/en-us/azure/role-based-access-control/tutorial-custom-role-powershell>

QUESTION 83

A company plans to use third-party application software to perform complex data analysis processes. The software will use up to 500 identical virtual machines (VMs) based on an Azure Marketplace VM image.

You need to design the infrastructure for the third-party application server. The solution must meet the following requirements:

- The number of VMs that are running at any given point in time must change when the user workload changes.
- When a new version of the application is available in Azure Marketplace it must be deployed without causing application downtime.
- Use VM scale sets.
- Minimize the need for ongoing maintenance.

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

NOTE: Each correct selection is worth one point.

- A. single storage account
- B. autoscale
- C. single placement group
- D. managed disks

Correct Answer: BD

Section: [none]

Explanation

Explanation/Reference:

QUESTION 84

HOTSPOT

You have an Azure subscription that contains the storage account shown in the following table.

Name	Kind	Performance tier	Replication	Location
storage1	StorageV2	Premium	Locally-redundant storage (LRS)	East US
storage2	Storage	Standard	Geo-redundant storage (GRS)	UK West
storage3	FloStorage	Standard	Locally-redundant storage (LRS)	North Europe

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
storage1 can host Azure file shares.	<input type="radio"/>	<input checked="" type="radio"/>
There are six copies of the data in storage2.	<input checked="" type="radio"/>	<input type="radio"/>
storage3 can be converted to a GRS account.	<input type="radio"/>	<input checked="" type="radio"/>

Correct Answer:

Answer Area

Statements	Yes	No
storage1 can host Azure file shares.	<input type="radio"/>	<input checked="" type="radio"/>
There are six copies of the data in storage2.	<input checked="" type="radio"/>	<input type="radio"/>
storage3 can be converted to a GRS account.	<input checked="" type="radio"/>	<input type="radio"/>

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Box 1: No

Azure Files supports two storage tiers: premium and standard. Standard file shares are created in general purpose (GPv1 or GPv2) storage accounts and premium file shares are created in FileStorage storage accounts.

You cannot create Azure file shares from Blob storage accounts or premium general purpose (GPv1 or GPv2) storage accounts. Standard Azure file shares must be created in standard general purpose accounts only and premium Azure file shares must be created in FileStorage storage accounts only. Premium general purpose (GPv1 and GPv2) storage accounts are for premium page blobs only.

Box 2: Yes

Geo-redundant storage (GRS) brings additional redundancy to the data storage over both LRS or ZRS. Along with the three copies of your data stored within a single region, a further three copies are stored in the twinned Azure region. So using GRS means you get all the features of the LRS storage within your primary zone, but you also get a second LRS data storage in a neighbouring Azure region. This data is updated asynchronously,

so there is a small lag between the 2 data sets, but for most cases this is acceptable.

Box 3: Yes

Blob Storage Standard can be used both LRS and GRS.

References:

<https://docs.microsoft.com/en-us/azure/storage/files/storage-files-faq>

<https://www.skylinesacademy.com/blog/2019/7/31/azure-storage-replication>

<https://docs.microsoft.com/en-us/azure/storage/common/storage-introduction>

QUESTION 85

HOTSPOT

You create and save an Azure Resource Manager template named Template1 that includes the following four sections.

Section1.

```
{
  "$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#",
  "contentVersion": "1.0.0.0",
  "parameters": {
    "windowsOSVersion": {
      "defaultValue": "2019-Datacenter",
      "allowedValues": [
        "2012-Datacenter",
        "2012-R2-Datacenter",
        "2016-Datacenter",
        "2019-Datacenter"
      ],
    }
  },
}
```

Section2.

```
"variables": {
  "windowsOSVersion": "2012-Datacenter",
```

Section3.

```
},
"resources": [
  {
    "type": "Microsoft.Compute/virtualMachines",
```

Section4.

```
"storageProfile": {  
    "imageReference": {  
        "publisher": "MicrosoftWindowsServer",  
        "offer": "WindowsServer",  
        "sku": "2012-R2-Datacenter",  
        "version": "latest"  
    },
```

You deploy Template1.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
Windows Server 2012 R2 Datacenter will be deployed to the Azure virtual machine.	<input type="radio"/>	<input type="radio"/>
A custom image of Windows Server will be deployed.	<input type="radio"/>	<input type="radio"/>
During the deployment of Template1, an administrator will be prompted to select a version of Windows Server.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

Statements	Yes	No
Windows Server 2012 R2 Datacenter will be deployed to the Azure virtual machine.	<input checked="" type="radio"/>	<input type="radio"/>
A custom image of Windows Server will be deployed.	<input type="radio"/>	<input checked="" type="radio"/>
During the deployment of Template1, an administrator will be prompted to select a version of Windows Server.	<input type="radio"/>	<input checked="" type="radio"/>

Section: [none]

Explanation

Explanation/Reference:

QUESTION 86

You have an Azure subscription that contains the storage accounts shown in the following table.

Name	Account kind	Size
contosostorage1	General Purpose v1	15 TB
contosostorage2	General Purpose v1	1 TB
contosostorage3	General Purpose v2	15 TB
contosostorage4	General Purpose v2	1 TB
contosostorage5	blobstorage	5 TB

All storage accounts contain blobs only.

You need to implement several lifecycle management rules for all storage accounts.

What should you do first?

- A. Upgrade contosostorage1 and contosostorage2 to General Purpose V2 accounts.
- B. Move 5 TB of blob data from contosostorage3 to contosostorage4.
- C. Move 5 TB of blob data from contosostorage1 to contosostorage2.
- D. Recreate contosostorage5 as General Purpose V2 account.

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Microsoft recommends that you use a general-purpose v2 storage account for most scenarios. You can easily upgrade a general-purpose v1 or an Azure Blob Storage account to a general-purpose v2 account with no downtime and without the need to copy data.

References:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-scalability-targets>

QUESTION 87

HOTSPOT

You have an Azure subscription that contains the resource groups shown in the following table.

Name	Region
RG1	East US
RG2	West US

RG1 contains the virtual machines shown in the following table.

Name	Region
VM1	West US
VM2	West US
VM3	West US
VM4	West US

RG2 contains the virtual machines shown in the following table.

Name	Region
VM5	East US 2
VM6	East US 2
VM7	West US
VM8	West US 2

All the virtual machines are configured to use premium disks and are accessible from the Internet.

VM1 and VM2 are in an available set named AVSET1. VM3 and VM4 are in the same availability zone and are in an availability set named AVSET2. VM5 and VM6 are in different availability zones.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
VM1 is eligible for a Service Level Agreement (SLA) of 99,95 percent.	<input type="radio"/>	<input type="radio"/>
VM3 is eligible for a Service Level Agreement (SLA) of 99,99 percent.	<input type="radio"/>	<input type="radio"/>
VM5 is eligible for a Service Level Agreement (SLA) of 99,99 percent.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

Statements	Yes	No
VM1 is eligible for a Service Level Agreement (SLA) of 99,95 percent.	<input checked="" type="radio"/>	<input type="radio"/>
VM3 is eligible for a Service Level Agreement (SLA) of 99,99 percent.	<input checked="" type="radio"/>	<input type="radio"/>
VM5 is eligible for a Service Level Agreement (SLA) of 99,99 percent.	<input checked="" type="radio"/>	<input type="radio"/>

Section: [none]

Explanation:

Explanation/Reference:

Explanation:

Box 1: Yes

VM1 and VM2 are in an available set named AVSET1.

For all Virtual Machines that have two or more instances deployed in the same Availability Set, we [Microsoft] guarantee you will have Virtual Machine Connectivity to at least one instance at least 99.95% of the time.

Box 2: No

VM3 and VM4 are in the same availability zone and are in an availability set named AVSET2.

Box 3: Yes

VM5 and VM6 are in different availability zones.

For all Virtual Machines that have two or more instances deployed across two or more Availability Zones in the same Azure region, we [Microsoft] guarantee you will have Virtual Machine Connectivity to at least one instance at least 99.99% of the time.

References:

https://azure.microsoft.com/en-us/support/legal/sla/virtual-machines/v1_8/

QUESTION 88

DRAG DROP

You have an Azure virtual machine named VM1 that runs Windows Server 2016.

You install a line-to-business application on VM1.

You need to create a Azure virtual machine by using VM1 as a custom image.

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:

Actions	Answer Area
Run <code>sysprep.exe</code> on VM1.	
Install Network Load Balancing (NLB) on VM1.	
From Azure CLI, deallocate VM1 and mark VM1 as generalized.	↖ ↘
From Azure CLI, apply a custom script extension.	
Create a virtual machines scale set.	↖ ↘

Correct Answer:

Actions	Answer Area
Run <code>sysprep.exe</code> on VM1.	Run <code>sysprep.exe</code> on VM1.
Install Network Load Balancing (NLB) on VM1.	From Azure CLI, deallocate VM1 and mark VM1 as generalized.
From Azure CLI, deallocate VM1 and mark VM1 as generalized.	↖ ↘
From Azure CLI, apply a custom script extension.	Create a virtual machines scale set.
Create a virtual machines scale set.	↖ ↘

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Step 1: Run `sysprep.exe` on VM1.

If a template, or system image is used, System administrators must run the Sysprep tool to clear the SID information. The Sysprep tool is usually one of the last tasks performed by a system administrator when building a server image/template, that way each clone of the template will generalize a new unique SID for every server image copied from the template and will prepare the server for a first time boot.

The end result is a System template that functions as a new unique build every time it is deployed.

Step 2: From Azure CLI, deallocate VM1 and mark VM1 as generalized

To create an image, the VM needs to be deallocated. Deallocate the VM with `Stop-AzVm`. Then, set the state of the VM as generalized with `Set-AzVm` so that the Azure platform knows the VM is ready for use a custom image

Step 3: Create a virtual machine scale set

Now create a scale set with `New-AzVmss` that uses the `-ImageName` parameter to define the custom VM image created in the previous step.

References:

<https://thesolving.com/server-room/when-and-how-to-use-sysprep/>

<https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/tutorial-use-custom-image-powershell>

QUESTION 89

Note: This question is part of 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 Active Directory (Azure AD) tenant named contoso.com.

A user named Admin1 attempts to create an access review from the Azure Active Directory admin center and discovers that the Access reviews settings are unavailable. Admin1 discovers that all the other Identity Governance settings are available.

Admin1 is assigned the User administrator, Compliance administrator, and Security administrator roles.

You need to ensure that the Admin1 can create access reviews in contoso.com.

Solution: You consent to Azure AD Privileged Identity Management (PIM).

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

PIM essentially helps you manage the who, what, when, where, and why for resources that you care about. Key features of PIM include:

- Conduct access reviews to ensure users still need roles

Note: Azure Active Directory (Azure AD) Privileged Identity Management (PIM) is a service that enables you to manage, control, and monitor access to important resources in your organization. This includes access to resources in Azure AD, Azure resources, and other Microsoft Online Services like Office 365 or Microsoft Intune.

References:

<https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-configure>

QUESTION 90

Note: This question is part of 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 Active Directory (Azure AD) tenant named contoso.com.

A user named Admin1 attempts to create an access review from the Azure Active Directory admin center and discovers that the Access reviews settings are unavailable. Admin1 discovers that all the other Identity Governance settings are available.

Admin1 is assigned the User administrator, Compliance administrator, and Security administrator roles.

You need to ensure that the Admin1 can create access reviews in contoso.com.

Solution: You assign the Global administrator role to Admin1.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Instead use Azure AD Privileged Identity Management.

Note: PIM essentially helps you manage the who, what, when, where, and why for resources that you care about. Key features of PIM include:

- Conduct access reviews to ensure users still need roles

References:

<https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-configure>

QUESTION 91

Note: This question is part of 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 Active Directory (Azure AD) tenant named contoso.com.

A user named Admin1 attempts to create an access review from the Azure Active Directory admin center and discovers that the Access reviews settings are unavailable. Admin1 discovers that all the other Identity Governance settings are available.

Admin1 is assigned the User administrator, Compliance administrator, and Security administrator roles.

You need to ensure that the Admin1 can create access reviews in contoso.com.

Solution: You purchase an Azure Directory Premium P2 license for contoso.com.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Instead use Azure AD Privileged Identity Management.

Note: PIM essentially helps you manage the who, what, when, where, and why for resources that you care about. Key features of PIM include:

- Conduct access reviews to ensure users still need roles

References:

<https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-configure>

QUESTION 92

You have a resource group named RG1 that contains the following:

- A virtual network that contains two subnets named Subnet1 and Subnet2
- An Azure Storage account named contososa1
- An Azure firewall deployed to Subnet2

You need to ensure that contososa1 is accessible from Subnet1 over the Azure backbone network.

What should you do?

- A. Deploy an Azure firewall to Subnet1.
- B. Remove the Azure firewall.
- C. Implement a virtual network service endpoint.
- D. Create a stored access policy for contososa1.

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Virtual Network (VNet) service endpoints extend your virtual network private address space and the identity of your VNet to the Azure services, over a direct connection. Endpoints allow you to secure your critical Azure service resources to only your virtual networks. Traffic from your VNet to the Azure service always remains on the Microsoft Azure backbone network.

References:

<https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-service-endpoints-overview>

QUESTION 93

Your company has the groups shown in the following table.

Group	Number of members
Managers	40
Sales	100
Development	15

The company has an Azure subscription that contains an Azure Active Directory (Azure AD) tenant named contoso.com.

An administrator named Admin1 attempts to enable Enterprise State Roaming for all the users in the Managers group.

Admin1 reports that the options for Enterprise State Roaming are unavailable from Azure AD.

You verify that Admin1 is assigned the Global administrator role.

You need to ensure that Admin1 can enable Enterprise State Roaming.

What should you do?

- A. Enforce Azure Multi-Factor Authentication (MFA) for Admin1.
- B. Purchase an Azure AD Premium P1 license for each user in the Managers group.
- C. Assign an Azure AD Privileged Identity Management (PIM) role to Admin1.
- D. Purchase an Azure Rights Management (Azure RMS) license for each user in the Managers group.

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Enterprise State Roaming is available to any organization with an Azure AD Premium or Enterprise Mobility + Security (EMS) license.

References:

<https://docs.microsoft.com/en-us/azure/active-directory/devices/enterprise-state-roaming-enable>

QUESTION 94

HOTSPOT

You plan to deploy an Azure virtual machine named VM1 by using an Azure Resource Manager template.

You need to complete the template.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
{  
    "type": "microsoft.compute/virtualMachines",  
    "apiVersion": "2018-10-01",  
    "name": "Vm1",  
    "location": "[parameters('location')]",  
    "dependsOn": [  
        "[ resourceId('Microsoft.Storage/storageAccounts/', variables ('Name3'), 1)",  
        "[ resourceId('Microsoft.Network/publicIPAddresses/', variables ('Name4')) ]"  
    ],  
    "Microsoft.Network/publicIPAddresses/",  
    'Microsoft.Network/networkInterfaces/',  
    'Microsoft.Network/virtualNetworks/subnets'  
    'Microsoft.Storage/storageAccounts/'  
  
{  
    "type": "Microsoft.Network/networkInterfaces",  
    "apiVersion": "2018-11-01",  
    "name": "NIC1",  
    "location": "[parameters('location')]",  
    "dependsOn": [  
        "[ resourceId('Microsoft.Network/publicIPAddresses/', variables ('Name1'))]",  
        "[ resourceId('Microsoft.Network/publicIPAddresses/', variables ('Name2'))]"  
    ],  
    'Microsoft.Network/publicIPAddresses/',  
    'Microsoft.Network/networkInterfaces/',  
    'Microsoft.Network/virtualNetworks/subnets'  
    'Microsoft.Storage/storageAccounts/'  
}
```

Correct Answer:

Answer Area

```
{  
    "type": "Microsoft.Compute/virtualMachines",  
    "apiVersion": "2018-10-01",  
    "name": "VM1",  
    "location": "[parameters('location')]",  
    "dependsOn": [  
        "[resourceId('Microsoft.Storage/storageAccounts/', variables ('Name3')),  
        "[resourceId(  
            ],  
            'Microsoft.Network/publicIPAddresses/'  
            'Microsoft.Network/virtualNetworks/  
            'Microsoft.Network/networkInterfaces/'  
            'Microsoft.Network/virtualNetworks/subnets'  
            'Microsoft.Storage/storageAccounts/'  
  
        {  
            "type": "Microsoft.Network/networkInterfaces",  
            "apiVersion": "2018-11-01",  
            "name": "NIC1",  
            "location": "[parameters('location')]",  
            "dependsOn": [  
                "[resourceId('Microsoft.Network/publicIPAddresses/', variables ('Name1'))]",  
                "[resourceId(  
                    ],  
                    'Microsoft.Network/publicIPAddresses/'  
                    'Microsoft.Network/virtualNetworks/  
                    'Microsoft.Network/networkInterfaces/'  
                    'Microsoft.Network/virtualNetworks/subnets'  
                    'Microsoft.Storage/storageAccounts/'  
        ]  
    ]  
}
```

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Within your template, the dependsOn element enables you to define one resource as a dependent on one or more resources. Its value can be a comma-separated list of resource names.

Box 1: 'Microsoft.Network/networkInterfaces'

This resource is a virtual machine. It depends on two other resources:

Microsoft.Storage/storageAccounts
Microsoft.Network/networkInterfaces

Box 2: 'Microsoft.Network/virtualNetworks/'

The dependsOn element enables you to define one resource as a dependent on one or more resources. The resource depends on two other resources:

Microsoft.Network/publicIPAddresses
Microsoft.Network/virtualNetworks

```
"resources": [
  { ... },
  { ... },
  { ... },
  { ... },
  {
    "type": "Microsoft.Network/networkInterfaces",
    "name": "[variables('nicName')]",
    "location": "[parameters('location')]",
    "apiVersion": "2018-08-01",
    "dependsOn": [
      "[resourceId('Microsoft.Network/publicIPAddresses/', variables('publicIPAddressName'))]",
      "[resourceId('Microsoft.Network/virtualNetworks/', variables('virtualNetworkName'))]"
    ],
    "properties": {
      "ipConfigurations": [
        {
          "name": "ipconfig1",
          "properties": {
            "privateIPAllocationMethod": "Dynamic",
            "publicIPAddress": {
              "id": "[resourceId('Microsoft.Network/publicIPAddresses', variables('publicIPAddressName'))]"
            },
            "subnet": {
              "id": "[variables('subnetRef')]"
            }
          }
        }
      ]
    }
  }
],
```

References:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-tutorial-create-templates-with-dependent-resources>

QUESTION 95

HOTSPOT

You plan to create a virtual machine as shown in the following exhibit.

Summary



Validation passed

Basics

Subscription	Microsoft Azure Sponsorship
Resource group	confcompute
Location	East US

Image	Windows Server 2016 Datacenter
Name	vm1
Username	labadmin
Password	*****

Virtual Machine Settings

Virtual machine size	Standard_DC2s
OS disk type	Premium SSD
Virtual network	vnet1
Subnet	subnet1
Subnet address prefix	10.0.0.0/24
Select public inbound ports	None
Boot diagnostics	Enabled
Diagnostic storage account	wcnconf1a6f712e904

OK

[Download template and parameters](#)

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:

Explanation:

Box 1: is guaranteed to remain the same

OS disk type: Premium SSD

Premium SSD Managed Disks are high performance Solid State Drive (SSD) based Storage designed to support I/O intensive workloads with significantly high throughput and low latency. With Premium SSD Managed Disks, you can provision a persistent disk and configure its size and performance characteristics.

Box 2: secure enclaves

Virtual machine size: Standard_DC2s

DC-series virtual machines are a new family of VMs to protect the confidentiality and integrity of your data and code while it's processed in Azure through the use of secure enclaves.

Incorrect:

Not dm-crypt: Azure Disk Encryption helps protect and safeguard your data to meet your organizational security and compliance commitments. It uses the BitLocker feature of Windows and the DM-Crypt feature of Linux to provide volume encryption for the OS and data disks of Azure virtual machines (VMs).

References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/disks-types>

<https://azure.microsoft.com/en-us/pricing/details/virtual-machines/series/>

QUESTION 96

HOTSPOT

A company runs multiple Windows virtual machines (VMs) in Azure.

The IT operations department wants to apply the same policies as they have for on-premises VMs to the VMs running in Azure, including domain administrator permissions and schema extensions.

You need to recommend a solution for the hybrid scenario that minimizes the amount of maintenance required.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Component	Action
Domain	<input checked="" type="checkbox"/> Join the VMs to the existing on-premises domain. <input checked="" type="checkbox"/> Join the VMs to a new domain controller VM in Azure. <input checked="" type="checkbox"/> Join the VMs to Azure Active Directory Domain Services (AD DS).
Connectivity	<input checked="" type="checkbox"/> Set up VPN connectivity. <input checked="" type="checkbox"/> Set up HTTPS connectivity. <input checked="" type="checkbox"/> Set up Azure Relay Service.

Correct Answer:

Answer Area

Component	Action
Domain	<p>Join the VMs to the existing on-premises domain.</p> <p>Join the VMs to a new domain controller VM in Azure.</p> <p>Join the VMs to Azure Active Directory Domain Services (AD DS).</p>
Connectivity	<p>Set up VPN connectivity.</p> <p>Set up HTTPS connectivity.</p> <p>Set up Azure Relay Service.</p>

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Box 1: Join the VMs to a new domain controller VM in Azure

Azure provides two solutions for implementing directory and identity services in Azure:

- (Used in this scenario) Extend your existing on-premises Active Directory infrastructure to Azure, by deploying a VM in Azure that runs AD DS as a Domain Controller. This architecture is more common when the on-premises network and the Azure virtual network (VNet) are connected by a VPN or ExpressRoute connection.
- Use Azure AD to create an Active Directory domain in the cloud and connect it to your on-premises Active Directory domain. Azure AD Connect integrates your on-premises directories with Azure AD.

Box 2: Set up VPN connectivity.

This architecture is more common when the on-premises network and the Azure virtual network (VNet) are connected by a VPN or ExpressRoute connection.

References:

<https://docs.microsoft.com/en-us/azure/architecture/reference-architectures/identity/>

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 those 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

Humongous Insurance is an insurance company that has three offices in Miami, Tokyo and Bangkok. Each office has 5,000 users.

Existing Environment

Active Directory Environment

Humongous Insurance has a single-domain Active Directory forest named humongousinsurance.com. The functional level of the forest is Windows Server 2012.

You recently provisioned an Azure Active Directory (Azure AD) tenant.

Network Infrastructure

Each office has a local data center that contains all the servers for that office. Each office has a dedicated connection to the Internet.

Each office has several link load balancers that provide access to the servers.

Active Directory Issue

Several users in humongousinsurance.com have UPNs that contain special characters.

You suspect that some of the characters are unsupported in Azure AD.

Licensing Issue

You attempt to assign a license in Azure to several users and receive the following error message: "Licenses not assigned. License agreement failed for one user."

You verify that the Azure subscription has the available licenses.

Requirements

Planned Changes

Humongous Insurance plans to open a new office in Paris. The Paris office will contain 1,000 users who will be hired during the next 12 months. All the resources used by the Paris office users will be hosted in Azure.

Planned Azure AD Infrastructure

The on-premises Active Directory domain will be synchronized to Azure AD.

All client computers in the Paris office will be joined to an Azure AD domain.

Planned Azure Networking Infrastructure

You plan to create the following networking resources in a resource group named All_Resources:

- Default Azure system routes that will be the only routes used to route traffic
- A virtual network named Paris-VNet that will contain two subnets named Subnet1 and Subnet2
- A virtual network named ClientResources-VNet that will contain one subnet named ClientSubnet
- A virtual network named AllOffices-VNet that will contain two subnets named Subnet3 and Subnet4

You plan to enable peering between Paris-VNet and AllOffices-VNet. You will enable the **Use remote gateways** setting for the Paris-VNet peerings.

You plan to create a private DNS zone named humongousinsurance.local and set the registration network to the ClientResources-VNet virtual network.

Planned Azure Computer Infrastructure

Each subnet will contain several virtual machines that will run either Windows Server 2012 R2, Windows Server 2016, or Red Hat Linux.

Department Requirements

Humongous Insurance identifies the following requirements for the company's departments:

- Web administrators will deploy Azure web apps for the marketing department. Each web app will be added to a separate resource group. The initial configuration of the web apps will be identical. The web administrators have permission to deploy web apps to resource groups.
- During the testing phase, auditors in the finance department must be able to review all Azure costs from the past week.

Authentication Requirements

Users in the Miami office must use Azure Active Directory Seamless Single Sign-on (Azure AD Seamless SSO) when accessing resources in Azure.

QUESTION 1

HOTSPOT

You are evaluating the connectivity between the virtual machines after the planned implementation of the Azure networking infrastructure.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

Hot Area:

Answer Area:

Statements	Yes	No
The virtual machines on Subnet1 will be able to connect to the virtual machines on Subnet3.	<input type="radio"/>	<input type="radio"/>
The virtual machines on ClientSubnet will be able to connect to the Internet.	<input type="radio"/>	<input type="radio"/>
The virtual machines on Subnet3 and Subnet4 will be able to connect to the Internet.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

Statements	Yes	No
The virtual machines on Subnet1 will be able to connect to the virtual machines on Subnet3.	<input checked="" type="radio"/>	<input type="radio"/>
The virtual machines on ClientSubnet will be able to connect to the Internet.	<input checked="" type="radio"/>	<input type="radio"/>
The virtual machines on Subnet3 and Subnet4 will be able to connect to the Internet.	<input checked="" type="radio"/>	<input type="radio"/>

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Once the VNets are peered, all resources on one VNet can communicate with resources on the other peered VNets. You plan to enable peering between Paris-VNet and AllOffices-VNet. Therefore VMs on Subnet1, which is on Paris-VNet and VMs on Subnet3, which is on AllOffices-VNet will be able to connect to each other.

All Azure resources connected to a VNet have outbound connectivity to the Internet by default. Therefore VMs on ClientSubnet, which is on ClientResources-VNet will have access to the Internet; and VMs on Subnet3 and Subnet4, which are on AllOffices-VNet will have access to the Internet.

References:

<https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-peering-overview>

<https://docs.microsoft.com/en-us/azure/networking/networking-overview#internet-connectivity>

QUESTION 2

DRAG DROP

You need to prepare the environment to ensure that the web administrators can deploy the web apps as quickly as possible.

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:

Actions	Answer Area
From the Automation script blade of the resource group, click the Parameters tab.	
From the Automation script blade of the resource group, click Add to library .	
From the Templates service, select the template, and then share the template to the web administrators.	
Create a resource group, and then deploy a web app to the resource group.	
From the Automation Accounts service, add an automation account.	
From the Automation script blade of the resource group, click Deploy .	

Correct Answer:

Actions	Answer Area
From the Automation script blade of the resource group, click the Parameters tab.	From the Automation Accounts service, add an automation account.
From the Automation script blade of the resource group, click Add to library .	From the Automation script blade of the resource group, click Add to library .
From the Templates service, select the template, and then share the template to the web administrators.	From the Templates service, select the template, and then share the template to the web administrators.
Create a resource group, and then deploy a web app to the resource group.	
From the Automation Accounts service, add an automation account.	
From the Automation script blade of the resource group, click Deploy .	

Section: [none]
Explanation

Explanation/Reference:
Explanation:

Step 1:

First you create a storage account using the Azure portal.

Step 2:

Select Automation options at the bottom of the screen. The portal shows the template on the Template tab.

Add the storage account to the library.

Step 3:

Share the template.

Scenario: Web administrators will deploy Azure web apps for the marketing department. Each web app will be added to a separate resource group. The initial configuration of the web apps will be identical. The web administrators have permission to deploy web apps to resource groups.

References:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-quickstart-create-templates-use-the-portal>

QUESTION 3

You need to resolve the licensing issue before you attempt to assign the license again.

What should you do?

- A. From the Directory role blade, modify the directory role
- B. From the Groups blade, invite the user accounts to a new group
- C. From the Profile blade, modify the usage location

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

Explanation:

License cannot be assigned to a user without a usage location specified.

Scenario: Licensing Issue

You attempt to assign a license in Azure AD to several users and receive the following error message: "Licenses not assigned. License agreement failed for one user."

You verify that the Azure subscription has the available licenses.

QUESTION 4

You need to define a custom domain name for Azure AD to support the planned infrastructure.

Which domain name should you use?

- A. ad.humongousinsurance.com
- B. humongousinsurance.local
- C. humongousinsurance.com
- D. humongousinsurance.onmicrosoft.com

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Every Azure AD directory comes with an initial domain name in the form of domainname.onmicrosoft.com. The initial domain name cannot be changed or deleted, but you can add your corporate domain name to Azure AD as well. For example, your organization probably has other domain names used to do business and users who sign in using your corporate domain name. Adding custom domain names to Azure AD allows you to assign user names in the directory that are familiar to your users, such as 'alice@contoso.com.' instead of 'alice@domain name.onmicrosoft.com'.

Scenario:

Network Infrastructure: Each office has a local data center that contains all the servers for that office. Each office has a dedicated connection to the Internet.

Humongous Insurance has a single-domain Active Directory forest named humongousinsurance.com

Planned Azure AD Infrastructure: The on-premises Active Directory domain will be synchronized to Azure AD.

References:

<https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/add-custom-domain>

Testlet 3

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.

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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 those 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

Contoso, Ltd. is a consulting company that has a main office in Montreal and two branch offices in Seattle and New York.

The Montreal office has 2,000 employees. The Seattle office has 1,000 employees. The New York office has 200 employees.

All the resources used by Contoso are hosted on-premises.

Contoso creates a new Azure subscription. The Azure Active Directory (Azure AD) tenant uses a domain named contoso.onmicrosoft.com. The tenant uses the P1 pricing tier.

Existing Environment

The network contains an Active Directory forest named contoso.com. All domain controllers are configured as DNS servers and host the contoso.com DNS zone.

Contoso has finance, human resources, sales, research, and information technology **departments**. Each department has an organizational unit (OU) that contains all the accounts of that respective department. All the user accounts have the department attribute set to their respective department. New users are added frequently.

Contoso.com contains a user named User1.

All the offices connect by using private links.

Contoso has data centers in the Montreal and Seattle offices. Each data center has a firewall that can be configured as a VPN device.

All infrastructure servers are virtualized. The virtualization environment contains the servers in the following table.

Name	Role	Contains virtual machine
Server1	VMWare vCenter server	VM1
Server2	Hyper-V-host	VM2

Contoso uses two web applications named App1 and App2. Each instance on each web application requires 1GB of memory.

The Azure subscription contains the resources in the following table.

Name	Type
VNet1	Virtual network
VM3	Virtual machine
VM4	Virtual machine

The network security team implements several network security groups (NSGs).

Planned Changes

Contoso plans to implement the following changes:

- Deploy Azure ExpressRoute to the Montreal office.
- Migrate the virtual machines hosted on Server1 and Server2 to Azure.
- Synchronize on-premises Active Directory to Azure Active Directory (Azure AD).
- Migrate App1 and App2 to two Azure web apps named WebApp1 and WebApp2.

Technical requirements

Contoso must meet the following technical requirements:

- Ensure that WebApp1 can adjust the number of instances automatically based on the load and can scale up to five instances.
- Ensure that VM3 can establish outbound connections over TCP port 8080 to the applications servers in the Montreal office.
- Ensure that routing information is exchanged automatically between Azure and the routers in the Montreal office.
- Ensure Azure Multi-Factor Authentication (MFA) for the users in the finance department only.
- Ensure that webapp2.azurewebsites.net can be accessed by using the name app2.contoso.com
- Connect the New York office to VNet1 over the Internet by using an encrypted connection.
- Create a workflow to send an email message when the settings of VM4 are modified.
- Create a custom Azure role named Role1 that is based on the Reader role.
- Minimize costs whenever possible.

QUESTION 1 HOTSPOT

You need to meet the connection requirements for the New York office.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

From the Azure portal:

- | |
|---|
| Create an ExpressRoute circuit only. |
| Create a virtual network gateway only. |
| Create a virtual network gateway and a local network gateway. |
| Create an ExpressRoute circuit and an on-premises data gateway. |
| Create a virtual network gateway and an on-premises data gateway. |

In the New York office:

- | |
|--|
| Deploy ExpressRoute. |
| Deploy a DirectAccess server. |
| Implement a Web Application Proxy. |
| Configure a site-to-site VPN connection. |

Correct Answer:

Answer Area

From the Azure portal:

- | |
|---|
| Create an ExpressRoute circuit only. |
| Create a virtual network gateway only. |
| Create a virtual network gateway and a local network gateway. |
| Create an ExpressRoute circuit and an on-premises data gateway. |
| Create a virtual network gateway and an on-premises data gateway. |

In the New York office:

- | |
|--|
| Deploy ExpressRoute. |
| Deploy a DirectAccess server. |
| Implement a Web Application Proxy. |
| Configure a site-to-site VPN connection. |

Section: [none]

Explanation

Explanation/Reference:

Explanation:

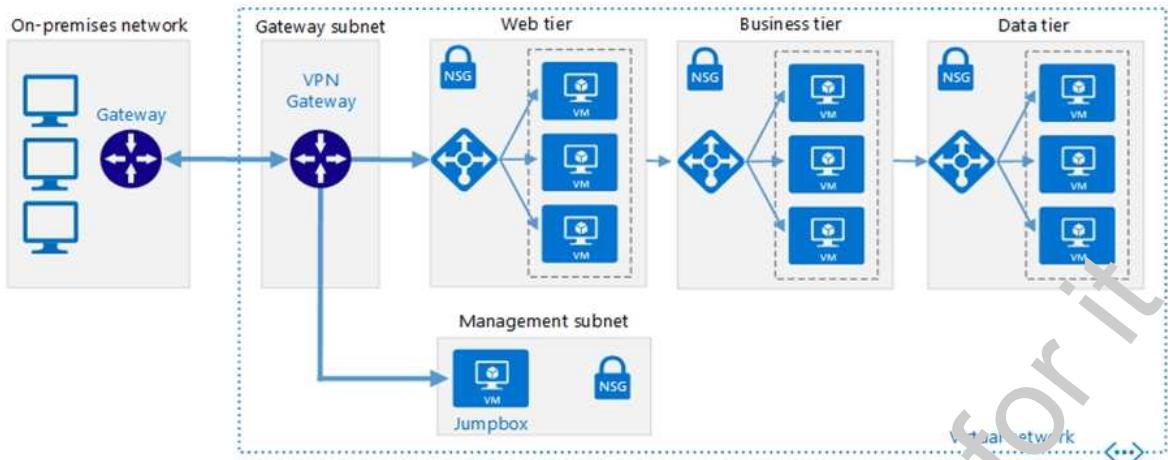
Box 1: Create a virtual network gateway and a local network gateway.

Azure VPN gateway. The vN gateway service enables you to connect the VNet to the on-premises network through a VPN appliance. For more information, see Connect an on-premises network to a Microsoft Azure virtual network. The VNet gateway includes the following elements:

- Virtual network gateway. A resource that provides a virtual VPN appliance for the VNet. It is responsible for routing traffic from the on-premises network to the VNet.
- Local network gateway. An abstraction of the on-premises VPN appliance. Network traffic from the cloud application to the on-premises network is routed through this gateway.
- Connection. The connection has properties that specify the connection type (IPSec) and the key shared with the on-premises VPN appliance to encrypt traffic.
- Gateway subnet. The virtual network gateway is held in its own subnet, which is subject to various requirements, described in the Recommendations section below.

Box 2: Configure a site-to-site VPN connection

On premises create a site-to-site connection for the virtual network gateway and the local network gateway.



Scenario: Connect the New York office to VNet1 over the Internet by using an encrypted connection.

Incorrect Answers:

Azure ExpressRoute: Established between your network and Azure, through an ExpressRoute partner. This connection is private. Traffic does not go over the internet.

References:

<https://docs.microsoft.com/en-us/azure/architecture/reference-architectures/hybrid-networking/vpn>

Testlet 4

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 those 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

ADatum Corporation is a financial company that has two main offices in New York and Los Angeles. ADatum has a subsidiary named Fabrikam, Inc. that shares the Los Angeles office.

ADatum is conducting an initial deployment of Azure services to host new line-of-business applications and is preparing to migrate its existing on-premises workloads to Azure.

ADatum uses Microsoft Exchange Online for email.

Existing Environment

On-Premises Environment

The on-premises workloads run on virtual machines hosted in a VMware vSphere 6 infrastructure. All the virtual machines are members of an Active Directory forest named adatum.com and run Windows Server 2016.

The New York office uses an IP address space of 10.0.0.0/16. The Los Angeles office uses an IP address space of 10.10.0.0/16.

The offices connect by using a VPN provided by an ISP. Each office has one Azure ExpressRoute circuit that provides access to Azure services and Microsoft Online Services. Routing is implemented by using Microsoft peering.

The New York office has a virtual machine named VM1 that has the vSphere console installed.

Azure Environment

You provision the Azure infrastructure by using the Azure portal. The infrastructure contains the resources shown in the following table.

Name	Type	Azure region
ASRV1	Azure Site Recovery vault	East US
ASRV2	Azure Site Recovery vault	West US
ASE1	Azure App Service Environment	East US
AG1	Azure Application Gateway (internal)	East US
AG2	Azure Application Gateway (Internet-facing)	West US
ER1	ExpressRoute circuit	East US
ER2	ExpressRoute circuit	West US

AG1 has two backend pools named Pool11 and Pool12. AG2 has two backend pools named Pool21 and Pool22.

Requirements

Planned Changes

ADatum plans to migrate the virtual machines from the New York office to the East US Azure region by using Azure Site Recovery.

Infrastructure Requirements

ADatum identifies the following infrastructure requirements:

- A new web app named App1 that will access third-parties for credit card processing must be deployed.
- A newly developed API must be implemented as an Azure function named App2. App2 will use a blob storage trigger. App2 must process new blobs immediately.
- The Azure infrastructure and the on-premises infrastructure must be prepared for the migration of the VMware virtual machines to Azure.
- The sizes of the Azure virtual machines that will be used to migrate the on-premises workloads must be identified.
- All migrated and newly deployed Azure virtual machines must be joined to the adatum.com domain.
- AG1 must load balance incoming traffic in the following manner:
 - http://corporate.adatum.com/video/* will be load balanced across Pool11.
 - http://corporate.adatum.com/images/* will be load balanced across Pool12.
- AG2 must load balance incoming traffic in the following manner:
 - <http://www.adatum.com> will be load balanced across Pool21.
 - <http://fabrikam.com> will be load balanced across Pool22.
- ER1 must route traffic between the New York office and platform as a service (PaaS) services in the East US Azure region, as long as ER1 is available.
- ER2 must route traffic between the Los Angeles office and the PaaS services in the West US region, as long as ER2 is available.
- ER1 and ER2 must be configured to fail over automatically.

Application Requirements

App2 must be available to connect directly to the private IP addresses of the Azure virtual machines. App2 will be deployed directly to an Azure virtual network.

Inbound and outbound communications to App1 must be controlled by using NSGs.

Pricing Requirements

ADatum identifies the following pricing requirements:

- The cost of App1 and App2 must be minimized
- The transactional charges of Azure Storage accounts must be minimized

QUESTION 1

What should you create to configure AG2?

- A. multi-site listeners
- B. URL path-based routing rules
- C. basic routing rules
- D. an additional public IP address
- E. basic listeners

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

- AG2 must load balance incoming traffic in the following manner:
 - http://www.adatum.com will be load balanced across Pool21.
 - http://fabrikam.com will be load balanced across Pool22.

You need to configure an Azure Application Gateway with multi-site listeners to direct different URLs to different pools.

References:

<https://docs.microsoft.com/en-us/azure/application-gateway/multi-site-overview>

Question Set 1

QUESTION 1

DRAG DROP

You have an on-premises network that includes a Microsoft SQL Server instance named SQL1.

You create an Azure Logic App named App1.

You need to ensure that App1 can query a database on SQL1.

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:

Actions	Answer Area
From an Azure virtual machine, install an on-premises data gateway.	
From the Azure portal, create an on-premises data gateway.	
Create an Azure virtual machine that runs Windows Server 2016.	 
From an on-premises computer, install an on-premises data gateway.	
From the Logic App Designer in the Azure portal, add a connector.	

Correct Answer:

Actions	Answer Area
From an Azure virtual machine, install an on-premises data gateway.	From an on-premises computer, install an on-premises data gateway.
	From the Azure portal, create an on-premises data gateway.
Create an Azure virtual machine that runs Windows Server 2016.	 
	From the Logic App Designer in the Azure portal, add a connector.

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-gateway-connection>

QUESTION 2

DRAG DROP

You are designing a solution to secure a company's Azure resources. The environment hosts 10 teams. Each team manages a project and has a project manager, a virtual machine (VM) operator, developers, and contractors.

Project managers must be able to manage everything except access and authentication for users. VM operators must be able to manage VMs, but not the virtual network or storage account to which they are connected. Developers and contractors must be able to manage storage accounts.

You need to recommend roles for each member.

What should you recommend? To answer, drag the appropriate roles to the correct employee types. Each role 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.

Select and Place:

Answer Area

Roles	Employee type	Role
Owner	Project manager	
Contributor	VM operators	
Reader	Developers	
Virtual Machine Contributor	Contractors	
Storage Account Contributor		

Correct Answer:

Answer Area

Roles	Employee type	Role
Owner	Project manager	Contributor
Contributor	VM operators	Virtual Machine Contributor
Reader	Developers	Storage Account Contributor
Virtual Machine Contributor	Contractors	Storage Account Contributor
Storage Account Contributor		

Section: [none]

Explanation

Explanation/Reference:

QUESTION 3

DRAG DROP

You have an Azure subscription that contains an Azure Service Bus named Bus1.

Your company plans to deploy two Azure web apps named App1 and App2. The web app will create messages that have the following requirements:

- Each message created by App1 must be consumed by only a single consumer.
- Each message created by App2 will be consumed by multiple consumers.

Which resource should you create for each web app? To answer, drag the appropriate resources to the correct web apps. Each resource 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.

Select and Place:

Resources	Answer Area
A Service Bus queue	App1: <input type="text"/>
A Service Bus topic	App2: <input type="text"/>
An Azure Event Grid topic	
Azure Blob storage	

Correct Answer:

Resources

An Azure Event Grid topic	Azure Blob storage

Answer Area

App1: A Service Bus queue

App2: A Service Bus topic

Section: [none]**Explanation****Explanation/Reference:****QUESTION 4**

You have an Azure subscription that contains the resources shown in the following table.

Name	Type	Address space
VNET1	Virtual network	10.1.1.0/24
Subnet1	Subnet	10.1.1.0/24
VM1	Virtual machine	<i>Not applicable</i>

Subnet1 is on VNET1. VM1 connects to Subnet1.

You plan to create a virtual network gateway on VNET1.

You need to prepare the environment for the planned virtual network gateway.

What are two ways to achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Modify the address space used by VNET1.
- B. Modify the address space used by Subnet1.
- C. Create a subnet named GatewaySubnet on VNET1.
- D. Create a local network gateway.
- E. Delete Subnet1.

Correct Answer: AE

Section: [none]**Explanation****Explanation/Reference:****QUESTION 5**

A company hosts virtual machines (VMs) in an on-premises datacenter and in Azure. The on-premises and Azure-based VMs communicate using ExpressRoute.

The company wants to be able to continue regular operations if the ExpressRoute connection fails. Failover connections must use the Internet and must not require Multiprotocol Label Switching (MPLS) support.

You need to recommend a solution that provides continued operations.

What should you recommend?

- A. Set up a second ExpressRoute connection.
- B. Increase the bandwidth of the existing ExpressRoute connection.
- C. Increase the bandwidth for the on-premises internet connection.
- D. Set up a VPN connection.

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/architecture/reference-architectures/hybrid-networking/expressroute-vpn-failover>

QUESTION 6

You have a web app named WebApp1 that uses an Azure App Service plan named Plan1. Plan1 uses the D1 pricing tier and has an instance count of 1.

You need to ensure that all connections to WebApp1 use HTTPS.

What should you do first?

- A. Scale up Plan1.
- B. Modify the connection strings for WebApp1.
- C. Scale out Plan1.
- D. Disable anonymous access to WebApp1.

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

The D1 (Shared) pricing tier does not support HTTPS.

QUESTION 7

You have an Azure subscription that contains an Azure Service Fabric cluster and a Service Fabric application named FabricApp.

You develop and package a Service Fabric application named AppPackage. AppPackage is saved in a compressed folder named AppPackage.zip.

You upload AppPackage.zip to an external store.

You need to register AppPackage in the Azure subscription.

What should you do first?

- A. Run the New-ServiceFabricApplication cmdlet.
- B. Repackage the application in a file named App.sfpkg.
- C. Create a new Service Fabric cluster.
- D. Copy AppPackage.zip to a blob storage account.

Correct Answer: B

Section: [none]
Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-package-apps#create-an-sfpkg>

QUESTION 8

HOTSPOT

Your company runs several Windows and Linux virtual machines (VMs).

You must design a solution that implements data privacy, compliance, and data sovereignty for all storage uses in Azure. You plan to secure all Azure storage accounts by using Role-Based Access Controls (RBAC) and Azure Active Directory (Azure AD).

You need to secure the data used by the VMs.

Which solution should you use? To answer, select the appropriate solutions in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

VM data

Boot and data volume

Solution

- Azure Storage Service Encryption
- Azure Disk Encryption
- Azure Information Protection
- Azure AD

Data written to Azure Storage

- Azure Storage Service Encryption
- Azure Disk Encryption
- Shared Access Signature (SAS)
- Network Security Group (NSG)

Encryption keys and secrets

- Azure Storage Service Encryption
- Azure Disk Encryption
- Azure Key Vault
- Azure Security Center

Correct Answer:

Answer Area

VM data	Solution
Boot and data volume	Azure Storage Service Encryption Azure Disk Encryption Azure Information Protection Azure AD
Data written to Azure Storage	Azure Storage Service Encryption Azure Disk Encryption Shared Access Signature (SAS) Network Security Group (NSG)
Encryption keys and secrets	Azure Storage Service Encryption Azure Disk Encryption Azure Key Vault Azure Security Center

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/security/security-storage-overview>

QUESTION 9

You develop an entertainment application where users can buy and trade virtual real estate. The application must scale to support thousands of users.

The current architecture includes five Azure virtual machines (VM) that connect to an Azure SQL Database for account information and Azure Table Storage for backend services. A user interacts with these components in the cloud at any given time.

- Routing Service – Routes a request to the appropriate service and must not persist data across sessions.
- Account Service – Stores and manages all account information and authentication and requires data to persist across sessions
- User Service – Stores and manages all user information and requires data to persist across sessions.
- Housing Network Service – Stores and manages the current real-estate economy and requires data to persist across sessions.
- Trade Service – Stores and manages virtual trade between accounts and requires data to persist across sessions.

Due to volatile user traffic, a microservices solution is selected for scale agility.

You need to migrate to a distributed microservices solution on Azure Service Fabric.

Solution: Create a Service Fabric Cluster with a stateful Reliable Service for each component.

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 10

You develop an entertainment application where users can buy and trade virtual real estate. The application must scale to support thousands of users.

The current architecture includes five Azure virtual machines (VM) that connect to an Azure SQL Database for account information and Azure Table Storage for backend services. A user interacts with these components in the cloud at any given time.

- Routing Service – Routes a request to the appropriate service and must not persist data across sessions.
- Account Service – Stores and manages all account information and authentication and requires data to persist across sessions
- User Service – Stores and manages all user information and requires data to persist across sessions.
- Housing Network Service – Stores and manages the current real-estate economy and requires data to persist across sessions.
- Trade Service – Stores and manages virtual trade between accounts and requires data to persist across sessions.

Due to volatile user traffic, a microservices solution is selected for scale agility.

You need to migrate to a distributed microservices solution on Azure Service Fabric.

Solution: Create a Service Fabric Cluster with a stateless Reliable Service for Routing Service. Create stateful Reliable Services for all other components.

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 11

You develop an entertainment application where users can buy and trade virtual real estate. The application must scale to support thousands of users.

The current architecture includes five Azure virtual machines (VM) that connect to an Azure SQL Database for account information and Azure Table Storage for backend services. A user interacts with these components in the cloud at any given time.

- Routing Service – Routes a request to the appropriate service and must not persist data across sessions.
- Account Service – Stores and manages all account information and authentication and requires data to persist across sessions
- User Service – Stores and manages all user information and requires data to persist across sessions.
- Housing Network Service – Stores and manages the current real-estate economy and requires data to persist across sessions.
- Trade Service – Stores and manages virtual trade between accounts and requires data to persist across sessions.

Due to volatile user traffic, a microservices solution is selected for scale agility.

You need to migrate to a distributed microservices solution on Azure Service Fabric.

Solution: Create a Service Fabric Cluster with a stateful Reliable Service for Routing Service. Deploy a Guest Executable to Service Fabric for each component.

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 12

DRAG DROP

You are developing a web app that uses a REST interface to connect to Azure Storage with HTTPS. This app uploads and streams video content that can be accessed from anywhere in the world.

You have different storage requirements for each part of the app. A hierarchical namespace must be created.

Which storage services should you implement? To answer, select the appropriate services to the correct actions. Each service 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.

Select and Place:

Storage services	Answer Area
Azure Blobs	Action
Azure Table Storage	Stream video content.
Azure HDInsight	Perform random read/write operations.
	Access application data from anywhere.

Correct Answer:

Storage services	Answer Area
Azure Blobs	Action
Azure Table Storage	Stream video content.
Azure HDInsight	Perform random read/write operations.
	Access application data from anywhere.

Section: [none]

Explanation

Explanation/Reference:

QUESTION 13

You create an Azure Time Series Insights event handler. You need to send data over the network as efficiently as possible and optimize query performance.

What should you do?

- A. Create a query plan.
- B. Send all properties.
- C. Use a Tag ID.
- D. Use reference data.

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/time-series-insights/how-to-shape-query-json>

QUESTION 14

You are creating an IoT solution using Azure Time Series Insights.

You configure the environment to ensure that all data for the current year is available.

What should you do?

- A. Add a disaster recovery (DR) strategy.
- B. Set a value for the Data retention time setting.
- C. Change the pricing tier.
- D. Create a reference data set.

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

QUESTION 15

DRAG DROP

You have an Azure subscription that contains a storage account.

You have an on-premises server named Server1 that runs Windows Server 2016. Server1 has 2 TB of data.

You need to transfer the data to the storage account by using the Azure Import/Export service.

In which order should you perform the actions? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Select and Place:

Actions	Answer Area
From the Azure portal, update the import job.	
From the Azure portal, create a new import job.	
Detach the external disks from Server1 and ship the disks to an Azure data center.	
Attach an external disk to Server1 and then run waimportexport.exe.	

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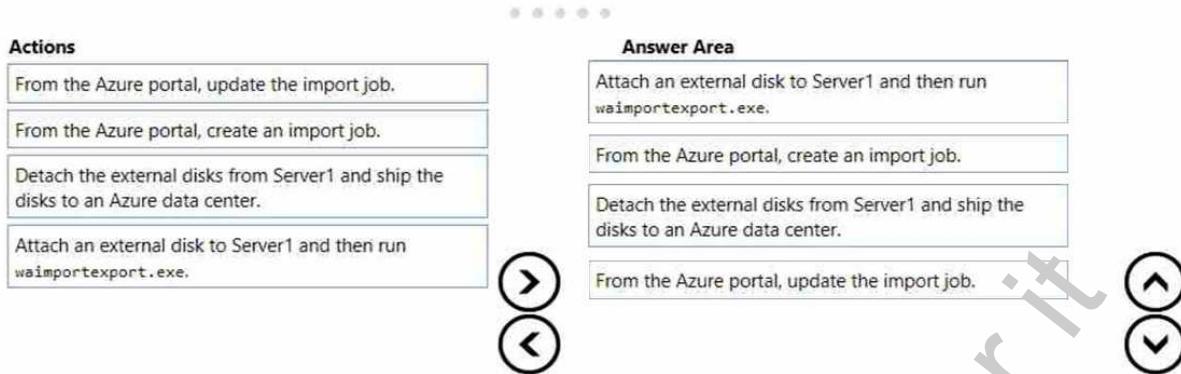
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Section: [none]

Explanation

Explanation/Reference:

Explanation:

At a high level, an import job involves the following steps:

Step 1: Attach an external disk to Server1 and then run `waimportexport.exe`

Determine data to be imported, number of drives you need, destination blob location for your data in Azure storage.

Use the WAImportExport tool to copy data to disk drives. Encrypt the disk drives with BitLocker.

Step 2: From the Azure portal, create an import job.

Create an import job in your target storage account in Azure portal. Upload the drive journal files.

Step 3: Detach the external disks from Server1 and ship the disks to an Azure data center.

Provide the return address and carrier account number for shipping the drives back to you.

Ship the disk drives to the shipping address provided during job creation.

Step 4: From the Azure portal, update the import job

Update the delivery tracking number in the import job details and submit the import job.

The drives are received and processed at the Azure data center.

The drives are shipped using your carrier account to the return address provided in the import job.

References:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-import-export-service>

QUESTION 16

You have an Azure subscription named Subscription1.

You have 5 TB of data that you need to transfer to Subscription1.

You plan to use an Azure Import/Export job.

What can you use as the destination of the imported data?

- A. an Azure Cosmos DB database
- B. Azure SQL Database
- C. Azure File Storage
- D. Azure Data Lake Store

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Azure Import/Export service is used to securely import large amounts of data to Azure Blob storage and Azure Files by shipping disk drives to an Azure datacenter.

References:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-import-export-service>

QUESTION 17

You have an Azure subscription that contains the resources in the following table.

Name	Type
RG1	Resource group
Store1	Azure Storage account
Sync1	Azure File Sync

Store1 contains a file share named Data. Data contains 5,000 files.

You need to synchronize the files in Data to an on-premises server named Server1.

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

NOTE: Each correct selection is worth one point.

- A. Download an automation script
- B. Create a sync group
- C. Install the Azure File Sync agent on Server1
- D. Create a container instance
- E. Register Server1

Correct Answer: BCE

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Step 1 (C): Install the Azure File Sync agent on Server1

The Azure File Sync Agent is a downloadable package that enables Windows Server to be synced with an Azure file share.

Step 2 (E): Register Server1.

Register Windows Server with Storage Sync Service

Registering your Windows Server with a Storage Sync Service establishes a trust relationship between your server (or cluster) and the Storage Sync Service.

Step 3 (B): Create a sync group and a cloud endpoint.

A sync group defines the sync topology for a set of files. Endpoints within a sync group are kept in sync with each other. A sync group must contain one cloud endpoint, which represents an Azure file share and one or more server endpoints. A server endpoint represents a path on registered server.

References:

<https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-files-deployment-guide>

QUESTION 18

HOTSPOT

You have an Azure subscription named Subscription1. Subscription1 contains a virtual machine named VM1.

You install and configure a web server and a DNS server on VM1.

VM1 has the effective network security rules shown in the following exhibit.

Network Interface: vm1900		Effective security rules		Topology					
Virtual network/subnet: VMRG-vnet/default		Public IP: 104.40.215.211		Private IP: 10.0.0.5					
Networking: Disabled									
INBOUND PORT RULES									
Network security group VM1-nsg (attached to network interface: vm1900) Impacts 0 subnets, 1 network interfaces									
Add inbound port rule									
PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINATION	ACTION			
900	Rule2	50-60	Any	Any	Any	✖ Deny ...			
1000	default-allow-rdp	3389	TCP	Any	Any	✓ Allow ...			
1010	Rule1	50-500	TCP	Any	Any	✓ Allow ...			
65000	AllowVnetInBound	Any	Any	VirtualNet...	VirtualNet...	✓ Allow ...			
65001	AllowAzureLoadBalanc...	Any	Any	AzureLoad...	Any	✓ Allow ...			
65500	DenyAllInBound	Any	Any	Any	Any	✖ Deny ...			
OUTBOUND PORT RULES									
Network security group VM1-nsg (attached to network interface: vm1900) Impacts 0 subnets, 1 network interfaces									
Add outbound port									
PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINATION	ACTION			
1000	Rule3	80	Any	Any	Any	✖ Deny ...			
65000	AllowVnetOutBound	Any	Any	VirtualNet...	VirtualNet...	✓ Allow ...			
65001	AllowInternetOutBou...	Any	Any	Any	Internet	✓ Allow ...			
65500	DenyAllOutBound	Any	Any	Any	Any	✖ Deny ...			

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:**Answer Area**

Internet users [answer choice].	can connect to only the DNS server on VM1 can connect to only the web server on VM1 can connect to the web server and the DNS server on VM1 cannot connect to the web server and the DNS server on VM1
---------------------------------	---

If you delete Rule2, Internet users [answer choice].	can connect to only the DNS server on VM1 can connect to only the web server on VM1 can connect to the web server and the DNS server on VM1 cannot connect to the web server and the DNS server on VM1
--	---

Correct Answer:**Answer Area**

Internet users [answer choice].	can connect to only the DNS server on VM1 can connect to only the web server on VM1 can connect to the web server and the DNS server on VM1 cannot connect to the web server and the DNS server on VM1
---------------------------------	--

If you delete Rule2, Internet users [answer choice].	can connect to only the DNS server on VM1 can connect to only the web server on VM1 can connect to the web server and the DNS server on VM1 cannot connect to the web server and the DNS server on VM1
--	--

Section: [none]**Explanation****Explanation/Reference:**

Explanation:

Box 1:

Rule2 blocks ports 50-60, which includes port 53, the DNS port. Internet users can reach to the Web server, since it uses port 80.

Box 2:

If Rule2 is removed internet users can reach the DNS server as well.

Note: Rules are processed in priority order, with lower numbers processed before higher numbers, because lower numbers have higher priority. Processing stops once traffic matches a rule, as a result, any rules that exist with lower priorities (higher numbers) that have the same attributes as rules with higher priorities are not processed.

References:

<https://docs.microsoft.com/en-us/azure/virtual-network/security-overview>

QUESTION 19

You plan to back up an Azure virtual machine named VM1.

You discover that the Backup Pre-Check status displays a status of Warning.

What is a possible cause of the Warning status?

- A. VM1 does not have the latest version of WaAppAgent.exe installed
- B. A Recovery Services vault is unavailable
- C. VM1 has an unmanaged disk
- D. VM1 is stopped

Correct Answer: A**Section: [none]****Explanation**

Explanation/Reference:

Explanation:

The Warning state indicates one or more issues in VM's configuration that might lead to backup failures and provides recommended steps to ensure successful backups. Not having the latest VM Agent installed, for example, can cause backups to fail intermittently and falls in this class of issues.

References:

<https://azure.microsoft.com/en-us/blog/azure-vm-backup-pre-checks/>

QUESTION 20

You have an Azure subscription named Subscription1. Subscription1 contains a virtual machine named VM1. You have a computer Computer1 that runs Windows 10. Computer1 is connected to the internet.

You add a network interface named Interface1 to VM1 as shown in the exhibit. (Click the **Exhibit** tab.)

Network Interface: Interface1

Effective security rules Topology

Virtual network/subnet: VMRD-vnet/default Public IP: IP2 Private IP: 10.0.0.6
Accelerated networking: Disabled

INBOUND PORT RULES

Network security group VM1-nsg (attached to network interface: Interface1)
Impacts 0 subnets, 2 network interfaces

Add inbound

PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINA...	ACTION
1000	default-allow...	3389	TCP	Any	Any	Allow ...
65000	AllowVnetInBound	Any	Any	VirtualN...	VirtualN...	Allow ...
65001	AllowAzureLoadB...	Any	Any	AzureLo...	Any	Allow ...
65500	DenyAllInBound	Any	Any	Any	Any	Deny ...

OUTBOUND PORT RULES

Network security group VM1-nsg (attached to network interface: Interface1)
Impacts 0 subnets, 2 network interfaces

Add outbound

PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINA...	ACTION
65000	AllowVnetOutBo...	Any	Any	VirtualN...	VirtualN...	Allow ...
65001	AllowInternetOut...	Any	Any	Any	Internet	Allow ...
65500	DenyAllOutBound	Any	Any	Any	Any	Deny ...

From Computer1, you attempt to connect to VM1 by using Remote Desktop, but the connection fails.

You need to establish a Remote Desktop connection to VM1.

What should you do first?

- A. Attach a network interface
- B. Start VM1
- C. Delete the DenyAllOutBound outbound port rule
- D. Delete the DenyAllInBound inbound port rule

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Incorrect Answers:

- A: The network interface has already been added to VM.
- C: The Outbound rules are fine.
- D: The inbound rules are fine. Port 3389 is used for Remote Desktop.

Note: Rules are processed in priority order, with lower numbers processed before higher numbers, because lower numbers have higher priority. Processing stops once traffic matches a rule. As a result, any rules that exist with lower priorities (higher numbers) that have the same attributes as rules with higher priorities are not processed.

References:

<https://docs.microsoft.com/en-us/azure/virtual-network/security-overview>

QUESTION 21

You are designing an Azure solution.

The solution must meet the following requirements:

Distribute traffic to different pools of dedicated virtual machines (VMs) based on rules
Provide SSL offloading capabilities

You need to recommend a solution to distribute network traffic.

Which technology should you recommend?

- A. server-level firewall rules
- B. Azure Application Gateway
- C. Azure Traffic Manager
- D. Azure Load Balancer

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

If you require "SSL offloading", application layer treatment, or wish to delegate certificate management to Azure, you should use Azure's layer 7 load balancer Application Gateway instead of the Load Balancer.

Incorrect Answers:

- D: Because Load Balancer is agnostic to the TCP payload and TLS offload ("SSL") is not provided.

References: <https://docs.microsoft.com/en-us/azure/application-gateway/overview>

QUESTION 22

HOTSPOT

You have an Azure subscription named Subscription1.

In Subscription1, you create an alert rule named Alert1. The Alert1 action group is configured as shown in the following exhibit.

```
PS Azure:\> Get-AzureRmActionGroup

ResourceGroupName: default-activitylogalerts
GroupShortName: AG1
Enabled: True
EmailReceivers: {Action1_-EmailAction-}
SmsReceivers: {Action1_-SMSAction-}
WebhookReceivers: {}
Id: /subscriptions/a4fde29b-d56a-4f6c-8298-6c53cd0b720c/resourceGroups/default-activitylogalerts/providers/microsoft.insights/actionGroups/ActionGroup1
Name: ActionGroup1
Type: Microsoft.Insights/ActionGroups
Location: Global
Tags: {}
```

Alert1 alert criteria is triggered every minute.

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:

Answer Area

The number of email messages that Alert1 will send in an hour is [answer choice].

0
4
6
12
60

The number of SMS messages that Alert1 will send in an hour is [answer choice].

0
4
6
12
60

Correct Answer:

Answer Area

The number of email messages that Alert1 will send in an hour is [answer choice].

0
4
6
12
60

The number of SMS messages that Alert1 will send in an hour is [answer choice].

0
4
6
12
60

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Box 1: 60

One alert per minute will trigger one email per minute.

Box 2: 12

No more than 1 SMS every 5 minutes can be sent, which equals 12 per hour.

Note: Rate limiting is a suspension of notifications that occurs when too many are sent to a particular phone number, email address or device. Rate limiting ensures that alerts are manageable and actionable.

The rate limit thresholds are:

- SMS: No more than 1 SMS every 5 minutes.
- Voice: No more than 1 Voice call every 5 minutes.
- Email: No more than 100 emails in an hour.
- Other actions are not rate limited.

References:

<https://github.com/MicrosoftDocs/azure-docs/blob/master/articles/azure-monitor/overview.md>

QUESTION 23

HOTSPOT

You have an Azure subscription named Subscription1 that contains the resources in the following table.

Name	Type
VM1	Virtual machine
VM2	Virtual machine
LB1	Load balancer

A web server runs on VM1 and VM2.

When you request a webpage named Page1.htm from the Internet, LB1 balances the web requests to VM1 and VM2., and you receive a response.

On LB1, you have a rule named Rule1 as shown in the **Rule1** exhibit. (Click the **Exhibit** tab.)

*Name

* IP Version
 IPv4 IPv6

*Frontend IP address

Protocol
 TCP UDP

*Port

*Backend port

Backend pool

Health probe

Session persistence

Idle timeout (minutes)

4

Floating IP (direct server return)
Disabled

You have a health probe named Probe1 as shown in the **Probe1** exhibit. (Click the **Exhibit** tab.)

*Name
Probe1

* IP Version

IPv4

Protocol

HTTP TCP

*Port

80

*Path

/Probe1.htm

*Interval

20

seconds

*Unhealthy threshold

2

consecutive failures

Used by

Rule1

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements

Yes

No

If a user is served Page1.htm from VM1, and then the user refreshes the web browser, Page1.htm will be refreshed from VM1 always.

If you change the protocol of Rule1, all the web requests will fail.

If you delete Probe1.htm from VM2, LB1 will route all the web requests to VM1.

Correct Answer:

Answer Area

Statements

Yes	No
<input type="radio"/>	<input checked="" type="radio"/>
<input checked="" type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input checked="" type="radio"/>

If a user is served Page1.htm from VM1, and then the user refreshes the web browser, Page1.htm will be refreshed from VM1 always.

If you change the protocol of Rule1, all the web requests will fail.

If you delete Probe1.htm from VM2, LB1 will route all the web requests to VM1.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Box 1: No

Session Persistence is None.

Box 2: Yes

Web requests uses the HTTP protocol, not the TCP protocol.

Box 3: No

Note: Azure Load Balancer provides health probes for use with load-balancing rules. Health probe configuration and probe responses determine which backend pool instances will receive new flows. You can use health probes to detect the failure of an application on a backend instance. You can also generate a custom response to a health probe and use the health probe for flow control to manage load or planned downtime. When a health probe fails, Load Balancer stops sending new flows to the respective unhealthy instance.

References:

<https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-custom-probe-overview>

QUESTION 24

You develop an entertainment application where users can buy and trade virtual real estate. The application must scale to support thousands of users.

The current architecture includes five Azure virtual machines (VM) that connect to an Azure SQL Database for account information and Azure Table Storage for backend services. A user interacts with these components in the cloud at any given time.

- Routing Service – Routes a request to the appropriate service and must not persist data across sessions.
- Account Service – Stores and manages all account information and authentication and requires data to persist across sessions
- User Service – Stores and manages all user information and requires data to persist across sessions.
- Housing Network Service – Stores and manages the current real-estate economy and requires data to persist across sessions.
- Trade Service – Stores and manages virtual trade between accounts and requires data to persist across sessions.

Due to volatile user traffic, a microservices solution is selected for scale agility.

You need to migrate to a distributed microservices solution on Azure Service Fabric.

Solution: Deploy a Windows container to Azure Service Fabric for each component.

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

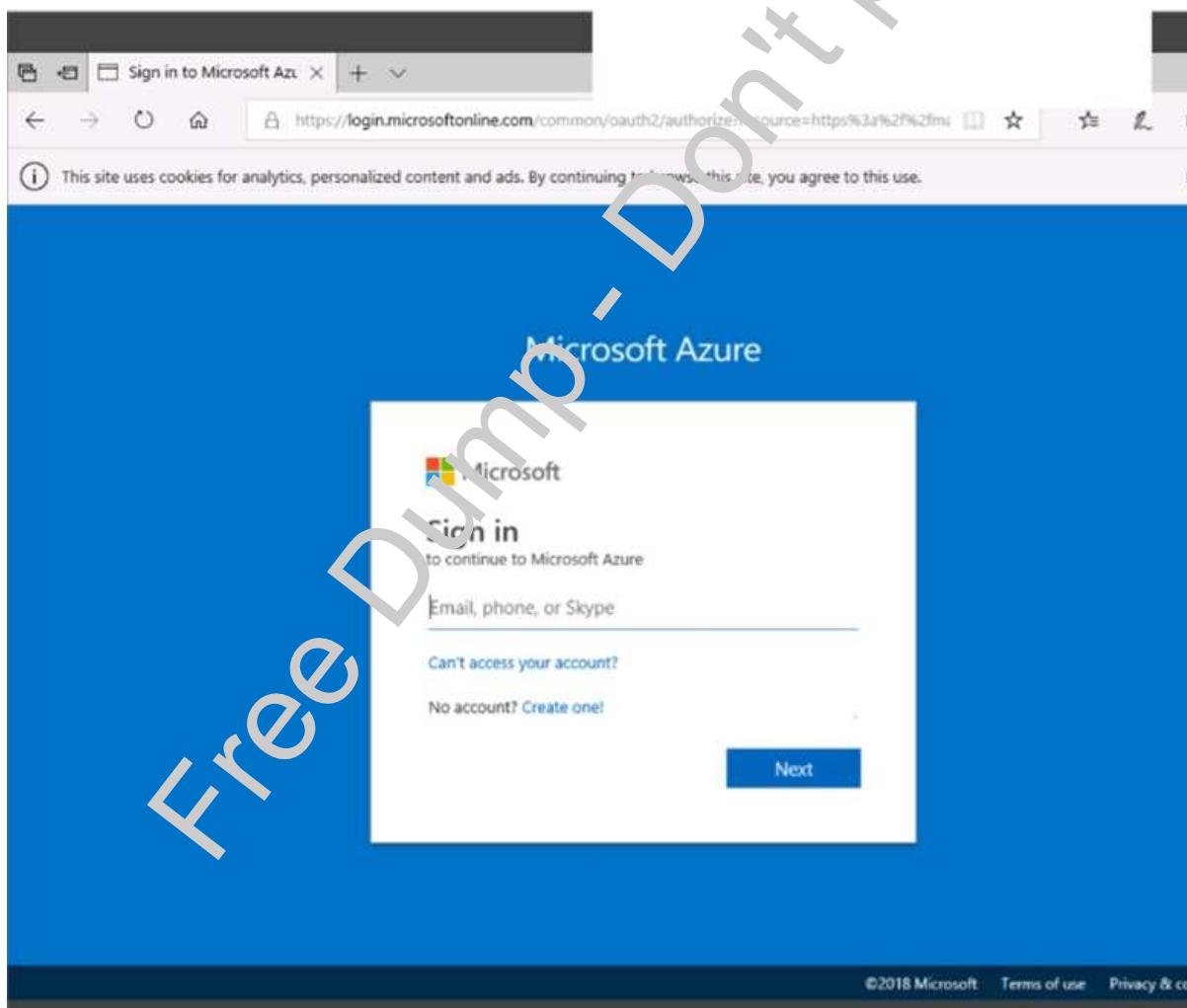
Explanation

Explanation/Reference:

QUESTION 25

SIMULATION

Click to expand each objective. To connect to the Azure portal, type <https://portal.azure.com> in the browser address bar.



The screenshot shows the Microsoft Azure dashboard interface. At the top left, there's a navigation bar with icons for back, forward, search, and user information. The main title is "Dashboard - Microsoft". Below the title, there's a search bar with the URL "https://portal.azure.com/#@privateamsponsortoolcom/microsoft.com/dashboard/private&...". On the far right of the header, there are several small icons for account settings.

The dashboard itself has a dark background with a light blue header bar. The header bar contains the word "Dashboard" followed by a dropdown menu with icons for "Create a resource", "All services", "Inventories", "Dashboard", "All resources", "Resource groups", "App Services", "Function Apps", "SQL databases", "Azure Cosmos DB", "Virtual machines", "Load balancers", "Storage accounts", "Virtual networks", "Azure Active Directory", "Monitor", "Advisor", "Security Center", and "Cost Management + Bill...".

Below the header bar, there's a large central area with a dark blue sidebar on the left. The sidebar lists "All resources", "Azure getting started made easy!", "Launch an app from your choice on Azure in a few quick steps", "Quickstarts + tutorials", and several quickstart cards: "Virtual Machines", "Linux Virtual Machines", "Provision Ubuntu, Red Hat CentOS, SUSE, Oracle VMs", "App Service", "Create Web Apps using .NET, Java, Node.js, Python, PHP", "Functions", "Process events with a serverless code architecture", and "SQL Database".

FreeDump! Don't pay for it

Create storage account

✓ Validation passed

Basics Advanced Tags **Review + create**

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Create storage account

Submitting deployment...
Submitting the deployment template for resource
'corpdata10d7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Free Dump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

Search (Ctrl+F)



Overview

- Outputs
- Inputs
- Template

Delete Cancel Redeploy Refresh

Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to our dashboard to easily find it next time.



Deployment
name: Microsoft.StorageAccount-
20181011170335
Subscription: Microsoft AZ...
Resource group: corpdfcal-1752-590

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 04:06 PM
Duration: 17 seconds
Correlation ID: bd80c4-d1bd-42db-be6b-
55e0ec38f49b

SOURCE	TYPE	STATUS	OPERATI...
No results.			

Free Dump, Don't pay for it

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Ubuntu Server 18.04 LTS

by Canonical

[Terms of use](#) | [Privacy policy](#)

Pricing not available for this offering

View [Pricing details](#) for more information.

Subscription credits apply

0.0960 USD/h

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Standard D2s v3

by Microsoft

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TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

When you are finished performing all the tasks, click the 'Next' button.

Note that you cannot return to the lab once you click the 'Next' button. Scoring occurs in the background while you complete the rest of the exam.

Overview

The following section of the exam is a lab. In this section, you will perform a set of tasks in a live environment. While most functionality will be available to you as it would be in a live environment, some functionality (e.g., copy and paste, ability to navigate to external websites) will not be possible by design.

Scoring is based on the outcome of performing the tasks stated in the lab. In other words, it doesn't matter how you accomplish the task, if you successfully perform it, you will earn credit for that task.

Labs are not timed separately, and this exam may have more than one lab that you must complete. You can use as much time as you would like to complete each lab. But, you should manage your time appropriately to ensure that you are able to complete the lab(s) and all other sections of the exam in the time provided.

Please note that once you submit your work by clicking the Next button within a lab, you will NOT be able to return to the lab.

To start the lab

You may start the lab by clicking the Next button.

You plan to create several virtual machines in different availability zones, and then to configure the virtual machines to load balanced connections from the internet.

You need to create an IP address resource named ip1006 to support the planned load balancing solution.

The solution must minimize costs.

What should you do from the Azure portal?

Correct Answer: See solution below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

We should create a public IP address.

Step 1: At the top, left corner of the portal, select + Create a resource.

Step 2: Enter public ip address in the Search the Marketplace box. When Public IP address appears in the search results, select it.

Step 3: Under Public IP address, select Create.

Step 4: Enter, or select values for the following settings, under Create public IP address, then select Create:

Name: ip1006

SKU: Basic SKU

IP Version: IPv6

IP address assignment: Dynamic

Subscription: Select appropriate

Resource group: Select appropriate

References:

<https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-public-ip-address>

QUESTION 26

You have an Azure subscription that contains the storage accounts shown in the following table.

Name	Contains
Storagecontoso1	A blob service and a table service
Storagecontoso2	A blob service and a file service
Storagecontoso3	A queue service
Storagecontoso4	A file service and a queue service
Storagecontoso5	A table service

You enable Azure Advanced Threat Protection (ATP) for all the storage accounts.

You need to identify which storage accounts will generate Azure ATP alerts.

Which two storage accounts should you identify? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. storagecontoso1
- B. storagecontoso2
- C. storagecontoso3

- D. storagecontoso4
- E. storagecontoso5

Correct Answer: AE

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Example:

Storage Threat Detection is available for the Blob Service.

The screenshot shows the 'Advanced Threat Protection (preview)' section of the Azure Storage account settings. On the left, there's a sidebar with various options like Events, Storage Explorer (preview), Settings, Access keys, CORS, Configuration, Encryption, Shared access signature, Firewalls and virtual networks, Advanced Threat Protection (preview), Static website (preview), and Properties. The 'Advanced Threat Protection (preview)' option is selected and highlighted in blue. On the right, there's a main content area with a save button and a discard button. A message box states: 'Storage Threat Detection is available for the Blob service. Security alerts are integrated with Azure Security Center and will be sent by email to subscription admins.' Below this is a toggle switch labeled 'ON' which is currently selected. There's also a 'Save' button and a 'Discard' button.

References:

<https://azure.microsoft.com/en-us/blog/advanced-threat-protection-for-azure-storage-now-in-public-preview/>

QUESTION 27

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 Active Directory (Azure AD) tenant named Adatum and an Azure Subscription named Subscription1. Adatum contains a group named Developers. Subscription1 contains a resource group named Dev.

You need to provide the Developers group with the ability to create Azure logic apps in the Dev resource group.

Solution: On Subscription1, you assign the DevTest Labs User role to the Developers group.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

The DevTest Labs User role lets you connect, start, restart, and shutdown your virtual machines in your Azure DevTest Labs.

References:

<https://docs.microsoft.com/en-us/azure/role-based-access-control/built-in-roles#devtest-labs-user>

QUESTION 28

Note: This question is part of 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 Active Directory (Azure AD) tenant named Adatum and an Azure Subscription named Subscription1. Adatum contains a group named Developers. Subscription1 contains a resource group named Dev.

You need to provide the Developers group with the ability to create Azure logic apps in the Dev resource group.

Solution: On Dev, you assign the Logic App Contributor role to the Developers group.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

The Logic App Contributor role lets you read, enable and disable logic app.

References:

<https://docs.microsoft.com/en-us/azure/role-based-access-control/built-in-roles#logic-app-contributor>

QUESTION 29

HOTSPOT

You have an Azure Service Bus and a queue named Queue1. Queue1 is configured as shown in the following exhibit.

* Name 

Queue1 

Max queue size

1 GB 

Message time to live 

Days Hours Minutes Seconds

0

2

0

0

Lock duration 

Days Hours Minutes Seconds

0

0

5

0

Enable duplicate detection 

Enable dead lettering on message expiration 

Enable sessions 

Enable partitioning 

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:

Answer Area

If a message is written to Queue1 and is never read, the message will be



deleted after 24 hours
deleted after two hours and five minutes
deleted after two hours
retained until it is deleted manually

If a message is written to Queue1, and then read after one hour, the message will be



deleted immediately
deleted after five minutes
deleted after one hour
retained until it is deleted manually

Correct Answer:

Answer Area

If a message is written to Queue1 and is never read, the message will be

deleted after 24 hours
deleted after two hours and five minutes
deleted after two hours
retained until it is deleted manually

If a message is written to Queue1, and then read after one hour, the message will be

deleted immediately
deleted after five minutes
deleted after one hour
retained until it is deleted manually

Section: [none]

Explanation

Explanation/Reference:

QUESTION 30

Note: This question is part of 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 Active Directory (Azure AD) tenant named Adatum and an Azure Subscription named Subscription1. Adatum contains a group named Developers. Subscription1 contains a resource group named Dev.

You need to provide the Developers group with the ability to create Azure logic apps in the Dev resource group.

Solution: On Dev, you assign the Contributor role to the Developers group.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

The Contributor role lets you manage everything except access to resources. It allows you to create and manage resources of all types, including creating Azure logic apps.

References:

<https://docs.microsoft.com/en-us/azure/role-based-access-control/built-in-roles#contributor>

QUESTION 31

Note: This question is part of 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.

A company backs up data to on-premises servers at their main facility. The company currently has 30 TB of archived data that infrequently used. The facility has download speeds of 100 Mbps and upload speeds of 20 Mbps.

You need to securely transfer all backups to Azure Blob Storage for long-term archival. All backup data must be sent within seven days.

Solution: Backup data to local disks and use the Azure Import/Export service to send backups to Azure Blob Storage.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 32

Note: This question is part of 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.

A company backs up data to on-premises servers at their main facility. The company currently has 30 TB of archived data that infrequently used. The facility has download speeds of 100 Mbps and upload speeds of 20 Mbps.

You need to securely transfer all backups to Azure Blob Storage for long-term archival. All backup data must be sent within seven days.

Solution: Create a file share in Azure Files. Mount the file share to the server and upload the files to the file share. Transfer the files to Azure Blob Storage.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 33

Note: This question is part of 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.

A company backs up data to on-premises servers at their main facility. The company currently has 30 TB of archived data that infrequently used. The facility has download speeds of 100 Mbps and upload speeds of 20 Mbps.

You need to securely transfer all backups to Azure Blob Storage for long-term archival. All backup data must be sent within seven days.

Solution: Use the **Set-AzureStorageBlobContent** Azure PowerShell command to copy all backups asynchronously to Azure Blob Storage.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 34

HOTSPOT

You are developing a back-end Azure App Service that scales based on the number of messages contained in a Service Bus queue.

A rule already exists to scale up the App Service when the average queue length of unprocessed and valid queue messages is greater than 1000.

You need to add a new rule that will continuously scale down the App Service as long as the scale up condition is not met.

How should you configure the Scale rule? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Scale Rule

Metric source

Storage queue

Service Bus queue

Current resource

Storage queue(classic)

Resource type

Service Bus Namespaces

Resource

MessageQueue1103

Queues

itemqueue

Criteria

*Metric name

Message Count

Active Message Count

1 minute time grain

*Time grain statistic 

To

Maximum

Average

Count

*Operator

Greater than

Greater than or equal to

Less than

Less than or equal to

*Threshold

1000

Action

*Operation

Increase count by

Increase count to

Decrease count by

Decrease count to

Correct Answer:

Free Dump - Don't pay for it

Answer Area

Scale Rule

Metric source

Storage queue

Service Bus queue

Current resource

Storage queue(classic)

Resource type

Service Bus Namespaces

Resource

MessageQueue1103

Queues

itemqueue

Criteria

*Metric name

Message Count

Active Message Count

1 minute time grain

*Time grain statistic 

To

Maximum

Average

Count

*Operator

Greater than

Greater than or equal to

Less than

Less than or equal to

*Threshold

1000

Action

*Operation

Increase count by

Increase count to

Decrease count by

Decrease count to

Section: [none]**Explanation****Explanation/Reference:****QUESTION 35**

You have an on-premises network that contains a Hyper-V host named Host1. Host1 runs Windows Server 2016 and hosts 10 virtual machines that run Windows Server 2016.

You plan to replicate the virtual machines to Azure by using Azure Site Recovery.

You create a Recovery Services vault named ASR1 and a Hyper-V site named Site1.

You need to add Host1 to ASR1.

What should you do?

- A.
 - Download the installation file for the Azure Site Recovery Provider.
 - Download the storage account key.
 - Install the Azure Site Recovery Provider on each virtual machine and register the virtual machines.
- B.
 - Download the installation file for the Azure Site Recovery Provider.
 - Download the vault registration key.
 - Install the Azure Site Recovery Provider on Host1 and register the server.
- C.
 - Download the installation file for the Azure Site Recovery Provider.
 - Download the storage account key.
 - Install the Azure Site Recovery Provider on Host1 and register the server.
- D.
 - Download the installation file for the Azure Site Recovery Provider.
 - Download the vault registration key.
 - Install the Azure Site Recovery Provider on each virtual machine and register the virtual machines.

Correct Answer: B

Section: [none]**Explanation****Explanation/Reference:**

References:

<https://docs.microsoft.com/en-us/azure/site-recovery/hyper-v-azure-tutorial>

QUESTION 36

You plan to migrate an on-premises Hyper-V environment to Azure by using Azure Site Recovery. The Hyper-V environment is managed by using Microsoft System Center Virtual Machine Manager (VMM).

The Hyper-V environment contains the virtual machines in the following table:

Name	Operating system (OS)	OS disk size	BitLocker Drive Encryption (BitLocker) enabled on OS disks.	Generation
DC1	Windows Server 2016	500 GB	No	2
FS1	Ubuntu 16.04 LTS	200 GB	No	2
CA1	Windows Server 2012 R2	1 TB	Yes	1
SQL1	Windows Server 2016	200 GB	No	

Which virtual machine can be migrated by using Azure Site Recovery?

- A. FS1
- B. CA1
- C. DC1
- D. SQL1

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/site-recovery/hyper-v-azure-support-matrix#azure-vm-requirements>

QUESTION 37

DRAG DROP

You have an on-premises network that you plan to connect to Azure by using a site-to-site VPN.

In Azure, you have an Azure virtual network named VNet1 that uses an address space of 10.0.0.0/16. VNet1 contains a subnet named Subnet1 that uses an address space of 10.0.0.0/24.

You need to create a site-to-site VPN to Azure.

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.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Select and Place:

Correct Answer:

Section: [none]

Explanation

Explanation/Reference:

QUESTION 38

You have an Azure subscription named Subscription1 that contains two Azure networks named VNet1 and VNet2. VNet1 contains a VPN gateway named VPNGW1 that uses static routing. There is a site-to-site VPN connection between your on-premises network and VNet1.

On a computer named Client1 that runs Windows 10, you configure a point-to-site VPN connection to VNet1.

You configure virtual network peering between VNet1 and VNet2. You verify that you can connect to VNet2 from the on-premises network. Client1 is unable to connect to VNet2.

You need to ensure that you can connect Client1 to VNet2.

What should you do?

- A. Select **Allow gateway transit** on VNet1.
- B. Download and re-install the VPN client configuration package on Client1.
- C. Enable BGP on VPNGW1.
- D. Select **Allow gateway transit** on VNet2.

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-about-point-to-site-routing>

QUESTION 39

HOTSPOT

Your company has offices in New York and Los Angeles.

You have an Azure subscription that contains an Azure virtual network named VNet1. Each office has a site-to-site VPN connection to VNet1.

Each network uses the address spaces shown in the following table:

Location	IP address space
VNet1	192.168.0.0/20
New York	10.0.0.0/16
Los Angeles	10.10.0.0/16

You need to ensure that all Internet-bound traffic from VNet1 is routed through the New York office.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

In Azure, run:

New-AzureRmLocalNetworkGateway
New-AzureRmVirtualNetworkGatewayConnection
Set-AzureRmVirtualNetworkGatewayDefaultSite

On a VPN device in the New York office, set
the traffic selectors to:

0.0.0.0/0
10.0.0.0/16
192.168.0.0/20

Correct Answer:

Answer Area

In Azure, run:

New-AzureRmLocalNetworkGateway
New-AzureRmVirtualNetworkGatewayConnection
Set-AzureRmVirtualNetworkGatewayDefaultSite

On a VPN device in the New York office, set
the traffic selectors to:

0.0.0.0/0
10.0.0.0/16
192.168.0.0/20

Section: [none]

Explanation

Explanation/Reference:

QUESTION 40

You have a Microsoft SQL Server Always On availability group on Azure virtual machines.

You need to configure an Azure internal load balancer as a listener for the availability group.

What should you do?

- A. Create an HTTP health probe on port 1433.
- B. Set Session persistence to **Client IP**.
- C. Set Session persistence to **Client IP and protocol**.
- D. Enable Floating IP.

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/sql/virtual-machines-windows-portal-sql-always-on-int-listener>

QUESTION 41

You set the multi-factor authentication status for a user named admin1@contoso.com to **Enabled**.

Admin1 accesses the Azure portal by using a web browser.

Which additional security verifications can Admin1 use when accessing the Azure portal?

- A. an app password, a text message that contains a verification code, and a verification code sent from the Microsoft Authenticator app
- B. a phone call, a text message that contains a verification code, and a notification or a verification code sent from the Microsoft Authenticator app
- C. a phone call, an email message that contains a verification code, and a text message that contains an app password
- D. an app password, a text message that contains a verification code, and a notification sent from the Microsoft Authenticator app

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/active-directory/authentication/concept-authentication-methods>

QUESTION 42

HOTSPOT

You have an Azure Active Directory (Azure AD) tenant that contains three global administrators named Admin1, Admin2, and Admin3.

The tenant is associated to an Azure subscription. Access control for the subscription is configured as shown in the Access control exhibit. (Click the Exhibit tab.)

+ Add Remove Roles Refresh ? Help

Name

Type
 ▾

Role
 ▾

Scope
 ▾

Group by
 ▾

5 items (4 Users, 1 Service Principals)

<input type="checkbox"/> NAME	TYPE	ROLE	SCOPE
OWNER			
Admin3 Admin3@contltd...	User	Owner Service administrator This resource ...	

You sign in to the Azure portal as Admin1 and configure the tenant as shown in the Tenant exhibit. (Click the **Exhibit** tab.)

Save Discard

*Name

Contoso|

Country or region

United States

Location

United States datacenters

Notification language

English

v

Global admin can manage Azure Subscriptions and Management Groups

YES

NO

Directory ID

a8ccb916-31f3-4582-b9b7-854f413d7177



Technical contact

Global privacy contact

Privacy statement URL

For each of the following statement, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Correct Answer:

Section: [none]

Explanation

Explanation/Reference:

QUESTION 43

You have an Azure Active Directory (Azure AD) tenant.

All administrators must enter a verification code to access the Azure portal.

You need to ensure that the administrators can access the Azure portal only from your on-premises network.

What should you configure?

- A. the default for all the roles in Azure AD Privileged Identity Management
- B. an Azure AD Identity Protection user risk policy
- C. an Azure AD Identity Protection sign-in risk policy
- D. the multi-factor authentication service settings

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/active-directory/authentication/howto-mfa-nfasettings>

QUESTION 44

You have an Azure subscription named Subscription1 that contains a virtual network named VNet1. VNet1 is in a resource group named RG1.

Subscription1 has a user named User1. User1 has the following roles:

- Reader
- Security Admin
- Security Reader

You need to ensure that User1 can assign the Reader role for VNet1 to other users.

What should you do?

- A. Assign User1 the Owner role for VNet1.
- B. Assign User1 the Network Contributor role for VNet1.
- C. Remove User1 from the Security Reader and Reader roles for Subscription1. Assign User1 the Contributor role for Subscription1.
- D. Remove User1 from the Security Reader and Reader roles for Subscription1.

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 45

HOTSPOT

You are creating an app that uses Event Grid to connect with other services. Your app's event data will be sent to a serverless function that checks compliance. This function is maintained by your company.

You write a new event subscription at the scope of your resource. The event must be invalidated after a specific period of time.

You need to configure Event Grid to ensure security.

What should you implement? 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:

References:

<https://docs.microsoft.com/en-us/azure/event-grid/security-authentication>

QUESTION 46

You are building a custom Azure function app to connect to Azure Event Grid.

You need to ensure that resources are allocated dynamically to the function app. Billing must be based on the executions of the app.

What should you configure when you create the function app?

- A. the Windows operating system and the App Service plan hosting plan
- B. the Docker container and an App Service plan that uses the B1 pricing tier
- C. the Windows operating system and the Consumption plan hosting plan
- D. the Docker container and an App Service plan that uses the S1 pricing tier

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale>

QUESTION 47

You have an Azure Service Bus.

You need to implement a Service Bus queue that guarantees first-in-first-out (FIFO) delivery of messages.

What should you do?

- A. Enable partitioning
- B. Enable duplicate detection
- C. Set the Lock Duration setting to **10 seconds**
- D. Enable sessions
- E. Set the Max Size setting of the queue to **5 GB**

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-azure-and-service-bus-queues-compared-contrasted>

QUESTION 48

You have an Azure subscription that contains a policy-based virtual network gateway named GW1 and a virtual network named VNet1.

You need to ensure that you can configure a point-to-site connection from VNet1 to an on-premises computer.

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

NOTE: Each correct selection is worth one point.

- A. Add a service endpoint to VNet1.
- B. Add a public IP address space to VNet1.
- C. Create a route-based virtual network gateway.
- D. Reset GW1.
- E. Delete GW1.
- F. Add a connection to GW1.

Correct Answer: CE

Section: [none]

Explanation

Explanation/Reference:

QUESTION 49

HOTSPOT

Your network contains an Active Directory domain that is synced to Azure Active Directory (Azure AD) as shown in the following exhibit.

The screenshot shows the Microsoft Azure Active Directory Connect interface. On the left, there's a sidebar with 'Welcome' and 'Tasks' buttons, and a 'Review your solution' button which is highlighted. The main area has two sections: 'Synchronized Directories' and 'Synchronized Settings'.

Synchronized Directories:

- DIRECTORY: Adatum.com
- ACCOUNT: ADATUM.COM\MSOL_f14cd290d9f55

Synchronized Settings:

Setting	Value
SOURCE ANCHOR	mS-DS-ConsistencyGuard
SYNC CRITERIA	AlwaysProvision
AZURE AD AND AD ATTRIBUTE FILTERING	Disabled
DEVICE EXTENSION ATTRIBUTE SYNC	Disabled
GROUP WRITEBACK	Disabled
PASSWORD WRITEBACK	Disabled
AUTO UPGRADE	Enabled
SQL SERVER NAME	(localdb)
USER PRINCIPAL NAME	userPrincipalName
FILTER OBJECTS TO SYNCHRONIZE BY GROUP	Disabled
DEVICE WRITEBACK	Disabled
EXCHANGE HYBRID DEPLOYMENT	Disabled
PASSWORD HASH SYNCHRONIZATION	Enabled
USER WRITEBACK	Disabled
EXCHANGE MAIL PUBLIC FOLDERS	Disabled
SQL SERVER INSTANCE NAME	.\\ADSync

At the bottom, there are 'Previous' and 'Exit' buttons.

You have a user account configured as shown in the following exhibit.

Adam Hobbs
Adam@sk181125.onmicrosoft.com

AH

User Sign-ins

100

1

50

0

May

Group memberships

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
From the Azure portal, an administrator can reset the password of Adam Hobbs.	<input type="radio"/>	<input type="radio"/>
From the Azure portal, an administrator can modify the job title for the user account of Adam Hobbs.	<input type="radio"/>	<input type="radio"/>
From the Azure portal, an administrator can modify the usage location for the user account of Adam Hobbs.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

Statements	Yes	No
From the Azure portal, an administrator can reset the password of Adam Hobbs.	<input type="radio"/>	<input checked="" type="radio"/>
From the Azure portal, an administrator can modify the job title for the user account of Adam Hobbs.	<input checked="" type="radio"/>	<input type="radio"/>
From the Azure portal, an administrator can modify the usage location for the user account of Adam Hobbs.	<input checked="" type="radio"/>	<input type="radio"/>

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Box 1: No

Password writeback is disabled.

Note: Having a cloud based password reset utility is great but most companies still have an on-premises directory where their users exist. How does Microsoft support keeping traditional on-premises Active Directory (AD) in sync with password changes in the cloud? Password writeback is a feature enabled with Azure AD Connect that allows password changes in the cloud to be written back to an existing on-premises directory in real time.

Box 2: No

Box 3: Yes

Yes, there is an Edit link for Location Info.

References:

<https://docs.microsoft.com/en-us/azure/active-directory/authentication/concept-sspr-writeback>

QUESTION 50

You create a new Azure subscription. You create a resource group named RG1. In RG1, you create the resources shown in the following table.

Name	Type
VNET1	Virtual network
VM1	Virtual machine
GWSN1	Gateway subnet
VPNGW1	Virtual network gateway

You need to configure an encrypted tunnel between your on-premises network and VNET1.

Which two additional resources should you create in Azure? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. a site-to-site connection
- B. a VPN gateway
- C. a VNet-to-VNet connection
- D. a local network gateway
- E. a point-to-site configuration

Correct Answer: ABD

Section: [none]

Explanation

Explanation/Reference:

Explanation:

A Site-to-Site VPN gateway connection is used to connect your on-premises network to an Azure virtual network over an IPsec/IKE (IKEv1 or IKEv2) VPN tunnel. This type of connection requires a VPN device, a local network gateway, located on-premises that has an externally facing public IP address assigned to it.

Finally, create a Site-to-Site VPN connection between your virtual network gateway and your on-premises VPN device.

References:

<https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-site-to-site-resource-manager-portal>

QUESTION 51

Note: This question is part of 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 subscription.

You have an on-premises file server named Server1 that runs Windows Server 2019.

You manage Server1 by using Windows Admin Center.

You need to ensure that if Server1 fails, you can recover the data from Azure.

Solution: From the Azure portal, you create a Recovery Services vault. On VM1, you install the Azure Backup agent and you schedule a backup.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation:

Explanation/Reference:

Explanation:

Instead use Azure Storage Sync service and configure Azure File.

Use Azure File Sync to centralize your organization's file shares in Azure Files, while keeping the flexibility, performance, and compatibility of an on-premises file server. Azure File Sync transforms Windows Server into a quick cache of your Azure file share.

References:

<https://docs.microsoft.com/en-us/azure/storage/files/storage-files-introduction>

QUESTION 52

Note: This question is part of 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 subscription.

You have an on-premises file server named Server1 that runs Windows Server 2019.

You manage Server1 by using Windows Admin Center.

You need to ensure that if Server1 fails, you can recover the data from Azure.

Solution: You create a Recovery Services vault and configure a backup by using Windows Server Backup.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: E

Section: [none]

Explanation:

Explanation/Reference:

Explanation:

Instead use Azure Storage Sync service and configure Azure File.

Use Azure File Sync to centralize your organization's file shares in Azure Files, while keeping the flexibility, performance, and compatibility of an on-premises file server. Azure File Sync transforms Windows Server into a quick cache of your Azure file share.

References:

<https://docs.microsoft.com/en-us/azure/storage/files/storage-files-introduction>

QUESTION 53

Note: This question is part of 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 subscription.

You have an on-premises file server named Server1 that runs Windows Server 2019.

You manage Server1 by using Windows Admin Center.

You need to ensure that if Server1 fails, you can recover the data from Azure.

Solution: You create an Azure Storage account and an Azure Storage Sync service. You configure Azure File Sync for Server1.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Use Azure File Sync to centralize your organization's file shares in Azure Files, while keeping the flexibility, performance, and compatibility of an on-premises file server. Azure File Sync transforms Windows Server into a quick cache of your Azure file share.

Azure Files offers fully managed file shares in the cloud that are accessible via the industry standard Server Message Block (SMB) protocol. Azure file shares can be mounted concurrently by cloud or on-premises deployments of Windows, Linux and macOS. Additionally, Azure file shares can be cached on Windows Servers with Azure File Sync for fast access near where the data is being used.

Azure file shares can be used to:

Replace or supplement on-premises file servers:

Azure Files can be used to completely replace or supplement traditional on-premises file servers or NAS devices. Popular operating systems such as Windows, macOS, and Linux can directly mount Azure file shares wherever they are in the world. Azure file shares can also be replicated with Azure File Sync to Windows Servers, either on-premises or in the cloud, for performance and distributed caching of the data where it's being used.

References:

<https://docs.microsoft.com/en-us/azure/storage/files/storage-files-introduction>

<https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-files-deployment-guide?tabs=azure-portal>

QUESTION 54

HOTSPOT

You have an Azure subscription.

You plan to deploy an app that has a web front end and an application tier.

You need to recommend a load balancing solution that meets the following requirements:

- Internet to web tier:
 - Provides URL-based routing
 - Supports connection draining
 - Prevents SQL injection attacks
- Web tier to application tier:
 - Provides port forwarding
 - Supports HTTPS health probes
 - Supports an availability set as a backend pool

Which load balancing solution should you recommend for each tier? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Internet to web tier:

An Azure Application Gateway that has a web application firewall (WAF)
An internal Azure Standard Load Balancer
A public Azure Basic Load Balancer

Web tier to application tier:

An Azure Application Gateway that has a web application firewall (WAF)
An internal Azure Standard Load Balancer
A public Azure Basic Load Balancer

Correct Answer:

Answer Area

Internet to web tier:	<table border="1"><tr><td>An Azure Application Gateway that has a web application firewall (WAF)</td></tr><tr><td>An internal Azure Standard Load Balancer</td></tr><tr><td>A public Azure Basic Load Balancer</td></tr></table>	An Azure Application Gateway that has a web application firewall (WAF)	An internal Azure Standard Load Balancer	A public Azure Basic Load Balancer
An Azure Application Gateway that has a web application firewall (WAF)				
An internal Azure Standard Load Balancer				
A public Azure Basic Load Balancer				
Web tier to application tier:	<table border="1"><tr><td>An Azure Application Gateway that has a web application firewall (WAF)</td></tr><tr><td>An internal Azure Standard Load Balancer</td></tr><tr><td>A public Azure Basic Load Balancer</td></tr></table>	An Azure Application Gateway that has a web application firewall (WAF)	An internal Azure Standard Load Balancer	A public Azure Basic Load Balancer
An Azure Application Gateway that has a web application firewall (WAF)				
An internal Azure Standard Load Balancer				
A public Azure Basic Load Balancer				

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Box 1: An Azure Application Gateway that has a web application firewall (WAF)

Azure Application Gateway offers a web application firewall (WAF) that provides centralized protection of your web applications from common exploits and vulnerabilities. Web applications are increasingly targeted by malicious attacks that exploit commonly known vulnerabilities. SQL injection and cross-site scripting are among the most common attacks.

Application Gateway operates as an application delivery controller (ADC). It offers Secure Sockets Layer (SSL) termination, cookie-based session affinity, round-robin load distribution, content-based routing, ability to host multiple websites, and security enhancements.

Box 2: An internal Azure Standard Load Balancer

The internet to web tier is the public interface, while the web tier to application tier should be internal.

Note: When using load-balancing rules with Azure Load Balancer, you need to specify a health probes to allow Load Balancer to detect the backend endpoint status.

Health probes support the TCP, HTTP, HTTPS protocols.

References:

<https://docs.microsoft.com/en-us/azure/application-gateway/waf-overview>

<https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-custom-probe-overview>

QUESTION 55

DRAG DROP

You have virtual machines (VMs) that run a mission-critical application.

You need to ensure that the VMs never experience down time.

What should you recommend? To answer, drag the appropriate solutions to the correct scenarios. Each solution 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.

Select and Place:

Solutions	Answer Area	Scenario	Solution
Fault Domain	Maintain application performance across identical VMs.		Solution
Update Domain	Maintain application availability when an Azure datacenter fails.		Solution
Availability Set	Maintain application performance across different VMs.		Solution
Scale Sets			

Correct Answer:

Solutions	Answer Area	Scenario	Solution
	Maintain application performance across identical VMs.		Scale Sets
Update Domain	Maintain application availability when an Azure datacenter fails.		Availability Set
	Maintain application performance across different VMs.		Fault Domain

Section: [none]**Explanation****Explanation/Reference:**

Explanation:

Box 1: Scale set

A virtual machine scale set allows you to deploy and manage a set of identical, autoscaling virtual machines.

Box 2: Availability Set

An Availability Set is a logical grouping capability for isolating VM resources from each other when they're deployed. Azure makes sure that the VMs you place within an Availability Set run across multiple physical servers, compute racks, storage units, and network switches. If a hardware or software failure happens, only a subset of your VMs are impacted and your overall solution stays operational. Availability Sets are essential for building reliable cloud solutions.

Box 3: Fault domain

A fault domain is a logical group of underlying hardware that share a common power source and network switch, similar to a rack within an on-premises datacenter. As you create VMs within an availability set, the Azure platform automatically distributes your VMs across these fault domains. This approach limits the impact of potential physical hardware failures, network outages, or power interruptions.

Incorrect Answers:

An update domain is a group of VMs and underlying physical hardware that can be rebooted at the same time.

References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/tutorial-create-vms>

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/tutorial-availability-sets>

Free Dump - Don't pay for it

Testlet 2

Case study

Overview

ADatum Corporation is a financial company that has two main offices in New York and Los Angeles. ADatum has a subsidiary named Fabrikam, Inc. that shares the Los Angeles office.

ADatum is conducting an initial deployment of Azure services to host new line-of-business applications and is preparing to migrate its existing on-premises workloads to Azure.

ADatum uses Microsoft Exchange Online for email.

Existing Environment

On-Premises Environment

The on-premises workloads run on virtual machines hosted in a VMware vSphere 6 infrastructure. All the virtual machines are members of an Active Directory forest named adatum.com and run Windows Server 2016.

The New York office uses an IP address space of 10.0.0.0/16. The Los Angeles office uses an IP address space of 10.10.0.0/16.

The offices connect by using a VPN provided by an ISP. Each office has one Azure ExpressRoute circuit that provides access to Azure services and Microsoft Online Services. Routing is implemented by using Microsoft peering.

The New York office has a virtual machine named VM1 that has the vSphere console installed.

Azure Environment

You provision the Azure infrastructure by using the Azure portal. The infrastructure contains the resources shown in the following table.

Name	Type	Azure Region
ASRV1	Azure Site Recovery vault	East US
ASRV2	Azure Site Recovery vault	West US
ASE1	Azure App Service Environment	East US
AG1	Azure Application Gateway (internal)	East US
AG2	Azure Application Gateway (Internet-facing)	West US
ER1	ExpressRoute circuit	East US
ER2	ExpressRoute circuit	West US

AG1 has two backend pools named Pool11 and Pool12. AG2 has two backend pools named Pool21 and Pool22.

Requirements

Planned Changes

ADatum plans to migrate the virtual machines from the New York office to the East US Azure region by using Azure Site Recovery.

Infrastructure Requirements

ADatum identifies the following infrastructure requirements:

- A new web app named App1 that will access third-parties for credit card processing must be deployed
- A newly developed API must be implemented as an Azure function named App2. App2 will use a blob storage trigger. App2 must process new blobs immediately.
- The Azure infrastructure and the on-premises infrastructure must be prepared for the migration of the VMware virtual machines to Azure.
- The sizes of the Azure virtual machines that will be used to migrate the on-premises workloads must be identified.
- All migrated and newly deployed Azure virtual machines must be joined to the adatum.com domain.
- AG1 must load balance incoming traffic in the following manner:
 1. http://corporate.adatum.com/video/* will be load balanced across Pool11
 2. http://corporate.adatum.com/images/* will be load balanced across Pool12
- AG2 must load balance incoming traffic in the following manner:
 1. <http://www.adatum.com> will be load balanced across Pool21
 2. <http://www.fabrikam.com> will be load balanced across Pool22
- ER1 must route traffic between the New York office and the platform as a service (PaaS) services in the East US Azure region, as long as ER1 is available.
- ER2 must route traffic between the Los Angeles office and the PaaS services in the West US region, as long as ER2 is available.
- ER1 and ER2 must be configured to fail over automatically.

Application Requirements

App2 must be able to connect directly to the private IP addresses of the Azure virtual machines. App2 will be deployed directly to an Azure virtual network.

Inbound and outbound communications to App1 must be controlled by using NSGs.

Pricing Requirements

ADatum identifies the following pricing requirements:

- The cost of App1 and App2 must be minimized.
- The transactional charges of Azure Storage accounts must be minimized.

QUESTION 1

You need to configure AG1.

What should you create?

- A. a multi-site listener
- B. a basic routing rule
- C. a URL path-based routing rule
- D. a basic listener

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/application-gateway/application-gateway-create-url-route-portal>

QUESTION 2

DRAG DROP

You need to configure the Azure ExpressRoute circuits.

How should you configure Azure ExpressRoute routing? To answer, drag the appropriate configurations to the correct locations. Each configuration 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.

Select and Place:

Configurations	Answer Area
Use BGP communities to configure BGP's Local Preference.	Routing from A.Datum to Azure:
Use BGP to append the private AS numbers to the advertised prefixes.	Routing from Microsoft Online Services to A.Datum:
Use BGP to append the public AS numbers to the advertised prefixes.	

Correct Answer:

Configurations	Answer Area
Use BGP communities to configure BGP's Local Preference.	Routing from A.Datum to Azure:
	Routing from Microsoft Online Services to A.Datum:

Section: [none]

Explanation

Explanation/Reference

Explanation:

Azure compute services, namely virtual machines (IaaS) and cloud services (PaaS), that are deployed within a virtual network can be connected through the private peering domain. The private peering domain is considered to be a trusted extension of your core network into Microsoft Azure.

Services such as Azure Storage, SQL databases, and Websites are offered on public IP addresses. You can privately connect to services hosted on public IP addresses, including VIPs of your cloud services, through the public peering routing domain. You can connect the public peering domain to your DMZ and connect to all Azure services on their public IP addresses from your WAN without having to connect through the internet.

References:

<https://docs.microsoft.com/en-us/azure/expressroute/expressroute-circuit-peerings>

QUESTION 3

DRAG DROP

You need to prepare the New York office infrastructure for the migration of the on-premises virtual machines to Azure.

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:

References:

<https://docs.microsoft.com/en-us/azure/site-recovery/vmware-azure-tutorial>

QUESTION 4

HOTSPOT

You need to provision the resources in Azure to support the virtual machine that will be migrated from the New York office.

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

IP address space of the virtual network:

10.0.0.0/16
10.10.0.0/16
10.20.0.0/16

Storage account kind:

Blob storage
Storage (general purpose v1)
StorageV2 (general purpose v2)

Correct Answer:

Answer Area

IP address space of the virtual network:

▼
10.0.0.0/16
10.10.0.0/16
10.20.0.0/16

Storage account kind:

▼
Blob storage
Storage (general purpose v1)
StorageV2 (general purpose v2)

Section: [none]

Explanation

Explanation/Reference:

QUESTION 5

DRAG DROP

You need to identify the appropriate sizes for the Azure Virtual machines.

Which five 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:

Actions**Answer Area**

From the Azure portal, create an Azure Migrate assessment.

From the Azure portal, create an Azure Migrate project.

From VM1, connect to the collector virtual machine and run the Azure Site Recovery deployment planner.

From the Azure portal, download an OVA file.



From VM1, connect to the collector virtual machine and run the Azure Migrate Collector.

From Microsoft Download Center, download the Azure Site Recovery deployment planner.

From VM1, run the Deploy OVF Template wizard.

Correct Answer:

Actions

Answer Area

From the Azure portal, create an Azure Migrate project.

From the Azure portal, download an OVA file.

From VM1, connect to the collector virtual machine and run the Azure Site Recovery deployment planner.

From VM1, run the Deploy OVF Template wizard.



From VM1, connect to the collector virtual machine and run the Azure Migrate Collector.

From the Azure portal, create an Azure Migrate assessment.

From Microsoft Download Center, download the Azure Site Recovery deployment planner

Section: [none]
Explanation:

Explanation Reference:

References:

<https://docs.microsoft.com/en-us/azure/migrate/tutorial-assessment-vmware>

Testlet 3

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 those 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

Contoso, Ltd. is a consulting company that has a main office in Montreal and two branch offices in Seattle and New York.

The Montreal office has 2,000 employees. The Seattle office has 1,000 employees. The New York office has 200 employees.

All the resources used by Contoso are hosted on-premises.

Contoso creates a new Azure subscription. The Azure Active Directory (Azure AD) tenant uses a domain named contoso.onmicrosoft.com. The tenant uses the P1 pricing tier.

Existing Environment

The network contains an Active Directory forest named contoso.com. All domain controllers are configured as DNS servers and host the contoso.com DNS zone.

Contoso has finance, human resources, sales, research, and information technology departments. Each department has an organizational unit (OU) that contains all the accounts of that respective department. All the user accounts have the **Department** attribute set to their respective department. New users are added frequently.

Contoso.com contains a user named User1.

All the offices connect by using private links.

Contoso has data centers in the Montreal and Seattle offices. Each data center has a firewall that can be configured as a VPN device.

All infrastructure servers are virtualized. The virtualization environment contains the servers in the following table.

Name	Role	Contains virtual machine
Server1	VMWare vCenter server	VM1
Server2	Hyper-V-host	VM2

Contoso uses two web applications named App1 and App2. Each instance on each web application requires 1GB of memory.

The Azure subscription contains the resources in the following table.

Name	Type
VNet1	Virtual network
VM3	Virtual machine
VM4	Virtual machine

The network security team implements several network security groups (NSGs).

Planned Changes

Contoso plans to implement the following changes:

- Deploy Azure ExpressRoute to the Montreal office.
- Migrate the virtual machines hosted on Server1 and Server2 to Azure.
- Synchronize on-premises Active Directory to Azure Active Directory (Azure AD).
- Migrate App1 and App2 to two Azure web apps named WebApp1 and WebApp2.

Technical requirements

Contoso must meet the following technical requirements:

- Ensure that WebApp1 can adjust the number of instances automatically based on the load and can scale up to five instances.
- Ensure that VM3 can establish outbound connections over TCP port 8080 to the applications servers in the Montreal office.
- Ensure that routing information is exchanged automatically between Azure and the routers in the Montreal office.
- Ensure Azure Multi-Factor Authentication (MFA) for the users in the finance department only.
- Ensure that webapp2.azurewebsites.net can be accessed by using the name app2.contoso.com
- Connect the New York office to VNet1 over the Internet by using an encrypted connection.
- Create a workflow to send an e-mail message when the settings of VM4 are modified.
- Create a custom Azure role named Role1 that is based on the Reader role.
- Minimize costs whenever possible.

QUESTION 1

You need to meet the technical requirement for VM4.

What should you create and configure?

- A. an Azure Logic App
- B. an Azure Service Bus
- C. an Azure Notification Hub
- D. an Azure Event Hub

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Scenario: Create a workflow to send an email message when the settings of VM4 are modified.

You can start an automated logic app workflow when specific events happen in Azure resources or third-party resources. These resources can publish those events to an Azure event grid. In turn, the event grid pushes those events to subscribers that have queues, webhooks, or event hubs as endpoints. As a subscriber, your logic app can wait for those events from the event grid before running automated workflows to perform tasks - without you writing any code.

References:

<https://docs.microsoft.com/en-us/azure/event-grid/monitor-virtual-machine-changes-event-grid-logic-app>

Question Set 1

QUESTION 1

You have an Azure subscription named Subscription1. Subscription1 contains the resource groups in the following table.

RG1 has a web app named WebApp1. WebApp1 is located in West Europe.

Name	Azure region	Policy
RG1	West Europe	Policy1
RG2	North Europe	Policy2
RG3	France Central	Policy3

You move WebApp1 to RG2.

What is the effect of the move?

- A. The App Service plan for WebApp1 moves to North Europe. Policy1 applies to WebApp1.
- B. The App Service plan for WebApp1 remains in West Europe. Policy1 applies to WebApp1.
- C. The App Service plan for WebApp1 moves to North Europe. Policy2 applies to WebApp1.
- D. The App Service plan for WebApp1 remains in West Europe. Policy2 applies to WebApp1.

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

Explanation:

You can move an app to another App Service plan, as long as the source plan and the target plan are in the same resource group and geographical region.

The region in which your app runs is the region of the App Service plan it's in. However, you cannot change an App Service plan's region.

References:

<https://docs.microsoft.com/en-us/azure/app-service/app-service-plan-manage>

QUESTION 2

You create the following Azure role definition.

```
{  
  "Name": "Role1",  
  "Id": "80808080-8080-8080-8080-808080808080",  
  "IsCustom": false,  
  "Description": "",  
  "Actions" : [  
    "Microsoft.Storage/*/read",  
    "Microsoft.Network/*/read",  
    "Microsoft.Compute/*/read",  
    "Microsoft.Compute/virtualMachines/start/action",  
    "Microsoft.Compute/virtualMachines/restart/action",  
    "Microsoft.Authorization/*/read"],  
  "NotActions": [ ],  
  "DataActions": [ ],  
  "NotDataActions": [ ],  
  "AssignableScopes": [ ]  
}
```

You need to create Role1 by using the role definition.

Which two values should you modify before you create Role1? Each correct answer presents part of solution.

NOTE: Each correct selection is worth one point.

- A. IsCustom
- B. DataActions
- C. Id
- D. AssignableScopes
- E. Description

Correct Answer: AD

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Part of example:

```
"IsCustom": true,  
  
"AssignableScopes": [  
  "/subscriptions/{subscriptionId1}",  
  "/subscriptions/{subscriptionId2}",  

```

The following shows what a custom role looks like as displayed in JSON format. This custom role can be used for monitoring and restarting virtual machines.

```
{  
  "Name": "Virtual Machine Operator",  
  "Id": "88888888-8888-8888-8888-888888888888",  
  "IsCustom": true,  
  "Description": "Can monitor and restart virtual machines.",  
  "Actions": [
```

```

    "Microsoft.Storage/*/read",
    "Microsoft.Network/*/read",
    "Microsoft.Compute/*/read",
    "Microsoft.Compute/virtualMachines/start/action",
    "Microsoft.Compute/virtualMachines/restart/action",
    "Microsoft.Authorization/*/read",
    "Microsoft.ResourceHealth/availabilityStatuses/read",
    "Microsoft.Resources/subscriptions/resourceGroups/read",
    "Microsoft.Insights/alertRules/*",
    "Microsoft.Insights/diagnosticSettings/*",
    "Microsoft.Support/*"
],
"NotActions": [],
"DataActions": [],
"NotDataActions": [],
"AssignableScopes": [
    "/subscriptions/{subscriptionId1}",
    "/subscriptions/{subscriptionId2}",
    "/subscriptions/{subscriptionId3}"
]
}

```

References:

<https://docs.microsoft.com/en-us/azure/role-based-access-control/custom-rules>

QUESTION 3

You have an Azure App Service named WebApp1.

You plan to add a WebJob named WebJob1 to WebApp1.

You need to ensure that WebJob1 is triggered every 15 minutes.

What should you do?

- Change the Web.config file to include the `1-31 1-12 1-7 0*/15*` CRON expression
- From the properties of WebJob1, change the CRON expression to `0*/15*****`.
- Add a file named Settings.job to the ZIP file that contains the WebJob script. Add the `1-31 1-12 1-7 0*/15*` CRON expression to the JOB file
- Create an Azure Automation account and add a schedule to the account. Set the recurrence for the schedule

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

You can enter a CRON expression in the portal or include a settings.job file at the root of your WebJob .zip file, as in the following example:

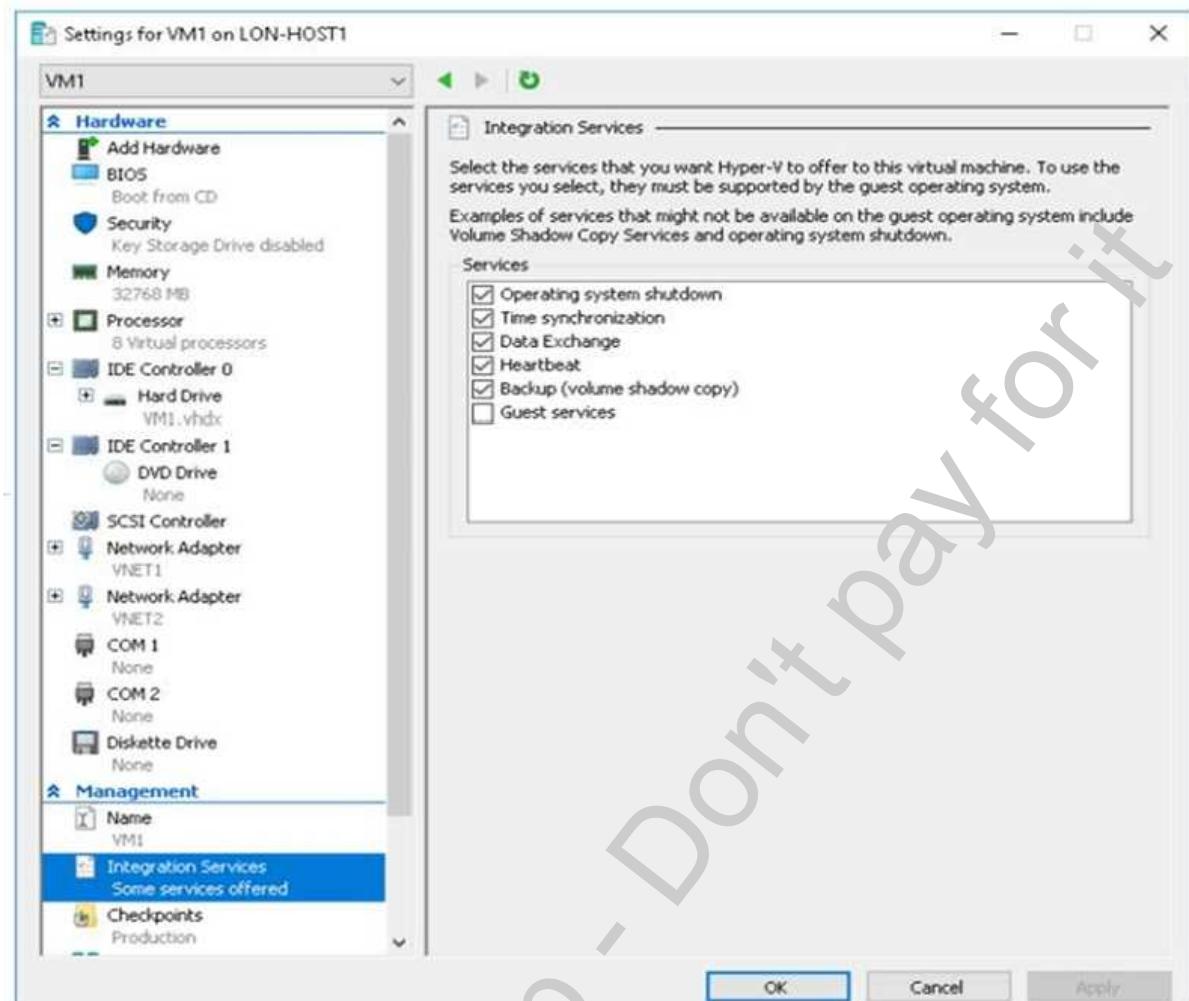
```
{
  "schedule": "0 */15 * * *"
}
```

References:

<https://docs.microsoft.com/en-us/azure/app-service/webjobs-create>

QUESTION 4

You have an on-premises virtual machine named VM1 configured as shown in the following exhibit.



VM is started.

You need to create a new virtual machine image in Azure from VM1.

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

NOTE: Each correct selection is worth one point.

- A. Remove the Backup (volume shadow copy) integration service
- B. Generalize VM1
- C. Run Add-AzureRmVhd and specify a blob service container as the destination
- D. Run Add-AzureRmVhd and specify a file share as the destination
- E. Reduce the amount of memory to 16 GB
- F. Convert the disk type to VHD

Correct Answer: BCF

Section: [none]

Explanation

Explanation/Reference:

Explanation:

B: Sysprep removes all your personal account and security information, and then prepares the machine to be used as an image.

C, F: The Add-AzureRmVhd cmdlet uploads on-premises virtual hard disks, in .vhd file format, to a blob storage account as fixed virtual hard disks.

References:

<https://docs.microsoft.com/en-us/powershell/module/azurerm.compute/add-azurermvhd?view=azurermps-6.13.0>

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/capture-image-resource>

QUESTION 5

DRAG DROP

You need to use an Azure logic app to receive a notification when an administrator modifies the settings of a virtual machine in a resource group named RG1.

Which three components should you create next in the Logic Apps Designer? To answer, move the appropriate components from the list of components to the answer area and arrange them in the correct order.

Select and Place:

Components	Answer Area
a condition control	
an action	
a variable	
an Azure Event Grid trigger	◀ ▶
an Azure Service Bus trigger	

Correct Answer:

Components	Answer Area
	an Azure Event Grid trigger
a variable	a condition control
an Azure Service Bus trigger	an action

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Step 1: an Azure Event Grid trigger

First add an Event grid trigger that monitors the resource group for your virtual machine.

Step 2: a conditional control

To run your logic app workflow only when a specific event happens, add a condition that checks for virtual machine "write" operations.

Step 3: an action

Now add an action so that you get an email when the specified condition is true.

References:

<https://docs.microsoft.com/en-us/azure/event-grid/monitor-virtual-machine-changes-event-grid-logic-app>

QUESTION 6

HOTSPOT

You have an Azure subscription that contains the resources shown in the following table.

Name	Type	Size
ILB1	Internal load balancer	Basic
ELB1	External load balancer	Standard
AGW1	Azure Application Gateway that has web application firewall (WAF) enabled	Standard
AGW2	Azure Application Gateway	Standard_v2

You need to deploy a load-balancing solution for two Azure web apps named App1 and App2 to meet the following requirements:

- App1 must support command injection protection
- App2 must be able to use a static public IP address.
- App1 must have a Service Level Agreement (SLA) of 99.99 percent.

Which resource should you use as the load balancing solution for each app? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

App1:

ILB1
ELB1
AGW1
AGW2

App2:

ILB1
ELB1
AGW1
AGW2

Correct Answer:

Answer Area

App1:

ILB1
ELB1
AGW1
AGW2

App2:

ILB1
ELB1
AGW1
AGW2

Section: [none]
Explanation

Explanation/Reference:

Explanation:

Box 1: AGW1

Azure Application Gateway offers a web application firewall (WAF) that provides centralized protection of your web applications from common exploits and vulnerabilities. Web applications are increasingly targeted by malicious attacks that exploit commonly known vulnerabilities. SQL injection and cross-site scripting are among the most common attacks.

Box 2: ELB1

Public IP addresses allow Internet resources to communicate inbound to Azure resources. Public IP addresses also enable Azure resources to communicate outbound to Internet and public-facing Azure services with an IP address assigned to the resource.

Note: In Azure Resource Manager, a public IP address is a resource that has its own properties. Some of the resources you can associate a public IP address resource with are:

- Virtual machine network interfaces
- Internet-facing load balancers
- VPN gateways
- Application gateways

References:

<https://docs.microsoft.com/en-us/azure/application-gateway/waf-overview>

<https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-ip-addresses-overview-arm>

QUESTION 7

HOTSPOT

You have a task that includes a WebJob that should run continuously. The **WebJob Log** exhibit shows the text that is displayed when the WebJob runs. (Click the **WebJob Log** tab.)

Continuous Web Job Details WebJob1

Pending restart
Run command: WebJob1.exe

Toggle Output

Refreshed a moment ago, [refresh](#) or [download](#)

```
[08/18/2018 17:28:24 > e013ed:SYS INFO] Run script 'WebJob1.exe' with script host -  
'Windows Script Host'  
[08/18/2018 17:28:24 > e013ed:SYS INFO] Status changed to Running  
[08/18/2018 17:28:25 > e013ed:INFO] WebJob Started  
[08/18/2018 17:28:25 > e013ed:SYS INFO] Status changed to Success  
[08/18/2018 17:28:25 > e013ed:SYS INFO] Process went down waiting for 60 seconds  
[08/18/2018 17:28:25 > e013ed:SYS INFO] Status changed to PendingRestart
```

The WebJob is configured as shown in the WebJob Configuration exhibit. (Click the **WebJob Configuration**

tab.)

The screenshot shows the Azure portal interface for managing an App Service named "WebApp0909". The left sidebar contains a "SETTINGS" menu with various options like Authentication / Authorization, Application Insights, Managed service identity, Backups, Custom domains, SSL certificates, Networking, Scale up (App Service plan), Scale out (App Service plan), and WebJobs. The "WebJobs" option is highlighted with a blue background. The main content area is titled "WebJobs" and contains a brief description: "WebJobs provide an easy way to run scripts or programs as background processes in the context of your app." Below this, a table lists the existing WebJob:

NAME	TYPE	STATUS	SCHEDULE
WebJob1	Continuous	Pending Restart	n/a

The WebJob is not functioning as expected. The **WebJob Code** exhibit has a comment that shows where code should be added. (Click the **WebJob Code** tab.)

```
0 references
8 class Program
9 {
10 private static Timer workTimer = new Timer();
11
12 static void Main()
13 {
14     Trace.WriteLine("WebJob Setup Starting");
15     var config = new JobHostConfiguration();
16
17     if (config.IsDevelopment)
18     {
19         config.UseDevelopmentSettings();
20     }
21
22     workTimer.Interval = TimeSpan.FromSeconds(10).TotalMilliseconds;
23     workTimer.Elapsed += WorkTimer_Elapsed;
24     workTimer.AutoReset = true;
25     workTimer.Enabled = true;
26
27     Console.WriteLine("WebJob Started");
28 }
29
30
31
32
33
34
35
36
37
```

You need to identify any issues with the WebJob. For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Correct Answer:

Section: [none]

Explanation

Explanation/Reference:

QUESTION 8

You have an Azure App Service API that allows users to upload documents to the cloud with a mobile device. A mobile app connects to the service by using REST API calls.

When a new document is uploaded to the service, the service extracts the document metadata. Usage statistics for the app show significant increases in app usage.

The extraction process is CPU-intensive. You plan to modify the API to use a queue.

You need to ensure that the solution scales, handles request spikes, and reduces costs between request spikes.

What should you do?

- A. Configure a CPU Optimized virtual machine (VM) and install the Web App service on the new instance.
- B. Configure a series of CPU Optimized virtual machine (VM) instances and install extraction logic to process a queue.
- C. Move the extraction logic into an Azure Function. Create a queue triggered function to process the queue.
- D. Configure Azure Container Service to retrieve items from a queue and run across a pool of virtual machine (VM) nodes using the extraction logic.

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

QUESTION 9

DRAG DROP

Fourth Coffee has an ASP.NET Core web app that runs in Docker. The app is mapped to the www.fourthcoffee.com domain.

Fourth Coffee is migrating this application to Azure.

You need to provision an App Service Web App to host this docker image and map the custom domain to the App Service web app.

A resource group named FourthCofeePublicWebResourceGroup has been created in the WestUS region that contains an App Service Plan named AppService_LinuxDockerPlan.

Which order should the CLI commands be used to develop the solution? To answer, move all of the Azure CLI commands from the list of commands to the answer area and arrange them in the correct order.

Select and Place:

Azure CLI commands

```
az webapp config container set  
--docker-custom-image-name  
$dockerHubContainerPath  
--name $appName  
--resource-group  
fourthCoffeePublicWebResourceGroup
```

```
az webapp create  
--name $appName  
--plan AppServiceLinuxDockerPlan  
--resource-group  
fourthCoffeePublicWebResourceGroup
```

```
#!/bin/bash  
appName="FourthCofeePublicWeb$random"  
location="WestUS"  
dockerHubContainerPath="FourthCofee/publicwe  
fqn="http://fourthcofee.com">www.fourth
```

```
az webapp config hostname add  
--webapp-name $appName  
--resource-group  
fourthCoffeePublicWebResourceGroup \  
--hostname $fqdn
```

Answer Area

Correct Answer:

Azure CLI commands

Answer Area

```
#!/bin/bash  
appName="FourthCofeePublicWeb$random"  
location="WestUS"  
dockerHubContainerPath="FourthCofee/publicwe  
fqn="http://fourthcofee.com">www.fourth
```

```
az webapp create  
--name $appName  
--plan AppServiceLinuxDockerPlan  
--resource-group  
fourthCoffeePublicWebResourceGroup
```

```
az webapp config hostname add  
--webapp-name $appName  
--resource-group  
fourthCoffeePublicWebResourceGroup \  
--hostname $fqdn
```

```
az webapp config container set  
--docker-custom-image-name  
$dockerHubContainerPath  
--name $appName  
--resource-group  
fourthCoffeePublicWebResourceGroup
```

Section: [none]

Explanation

Explanation/Reference:

QUESTION 10

You create a social media application that users can use to upload images and other content.

Users report that adult content is being posted in an area of the site that is accessible to and intended for young children.

You need to automatically detect and flag potentially offensive content. The solution must not require any custom coding other than code to scan and evaluate images.

What should you implement?

- A. Bing Visual Search
- B. Bing Image Search
- C. Custom Vision Search
- D. Computer Vision API

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

QUESTION 11

DRAG DROP

You plan to create a Docker image that runs an ASP.NET Core application named ContosoApp. You have a setup script named setupScript.ps1 and a series of application files including ContosoApp.dll.

You need to create a Dockerfile document that meets the following requirements:

- Call setupScript.ps1 when the container is built.
- Run ContosoApp.dll when the container starts.

The Dockerfile document must be created in the same folder where ContosoApp.dll and setupScript.ps1 are stored.

Which four commands should you use to develop the solution? To answer, move the appropriate commands from the list of commands to the answer area and arrange them in the correct order.

Select and Place:

Commands**Answer Area**

```
RUN powershell ./setupScript.ps1  
CMD ["dotnet", "ContosoApp.dll"]
```

```
FROM microsoft/aspnetcore:2.0
```

```
CMD powershell ./setupScript.ps1  
ENTRYPOINT ["dotnet",  
"ContosoApp.dll"]
```

```
WORKDIR /apps/ContosoApp
```

```
EXPOSE ./ContosoApp/ /apps/ContosoApp
```

```
COPY ./.
```

Correct Answer:**Commands****Answer Area**

```
RUN powershell ./setupScript.ps1  
CMD ["dotnet", "ContosoApp.dll"]
```

```
FROM microsoft/aspnetcore:2.0
```

```
FROM microsoft/aspnetcore:2.0
```

```
WORKDIR /apps/ContosoApp
```

```
CMD powershell ./setupScript.ps1  
ENTRYPOINT ["dotnet",  
"ContosoApp.dll"]
```

```
COPY ./.
```

```
WORKDIR /apps/ContosoApp
```

```
RUN powershell ./setupScript.ps1  
CMD ["dotnet", "ContosoApp.dll"]
```

```
EXPOSE ./ContosoApp/ /apps/ContosoApp
```

```
COPY ./.
```

**Section: [none]
Explanation****Explanation/Reference:****QUESTION 12**

DRAG DROP

You have a web app named MainApp. You are developing a triggered App Service background task by using

the WebJobs SDK.

This task automatically invokes a function in the code whenever any new data is received in a queue.

You need to configure the services.

Which service should you use for each scenario? To answer, drag the appropriate services to the correct scenarios. Each service 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.

Select and Place:

Answer Area

Services	Scenario	Service
Logic Apps	Process a queue data item.	
WebJobs	Manage all code segments from the same DevOps environment.	
Flow		

Correct Answer:

Answer Area

Services	Scenario	Service
Logic Apps	Process a queue data item.	WebJobs
WebJobs	Manage all code segments from the same DevOps environment.	WebJobs
Flow		

Section: [none]**Explanation****Explanation/Reference:**

References:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-compare-logic-apps-ms-flow-webjobs>**QUESTION 13****DRAG DROP**

You are developing Azure WebJobs.

You need to recommend a WebJob type for each scenario.

Which WebJob type should you recommend? To answer, drag the appropriate WebJob types to the correct scenarios. Each WebJob type 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.

Select and Place:**Answer Area**

WebJob types	Scenario	WebJob type
Triggered	Run on all instances that the web app runs on. Optionally restrict the WebJob to a single instance.	
Continuous	Run on a single instance that Azure selects for load balancing.	
	Supports remote debugging.	

Correct Answer:**Answer Area**

WebJob types	Scenario	WebJob type
Triggered	Run on all instances that the web app runs on. Optionally restrict the WebJob to a single instance.	Continuous
Continuous	Run on a single instance that Azure selects for load balancing.	Triggered
	Supports remote debugging.	Continuous

Section: [none]**Explanation****Explanation/Reference:**

References:

<https://docs.microsoft.com/en-us/azure/app-service/webjobs-create#webjob-types>

QUESTION 14**HOTSPOT**

You have an Azure web app named App1 that has the following configurations:

- The app runs on three instances.
- The minimum number of instances is one.
- The maximum number of instances is five.

You create the following autoscale rules for App1:

- Decrease the instance count by one when the CPU percentage is less than 30.
- Decrease the instance count by one when the memory percentage is less than 50.
- Increase the instance count by one when the CPU percentage is greater than 80.
- Increase the instance count by one when the memory percentage is greater than 75.

You expect App1 to be utilized as shown in the following table.

Day	Hours	CPU	Memory
Monday to Friday	08:00 to 23:59	85%	40%
Monday to Friday	00:00 to 07:59	25%	60%
Saturday to Sunday	00:00 to 23:59	30%	55%

You need to identify the maximum number of instances that will be used by App1 during the expected periods of utilization.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Monday to Friday 00:00–07:59:

1
2
3
4
5

Monday to Friday 08:00–23:59:

1
2
3
4
5

Saturday to Sunday 00:00–23:59:

1
2
3
4
5

Correct Answer:

Free Dump - Don't pay for it

Answer Area

Monday to Friday 00:00–07:59:

1
2
3
4
5

Monday to Friday 08:00–23:59:

0
1
2
3
4
5

Saturday to Sunday 00:00–23:59:

1
2
3
4
5

Section: [none]

Explanation:

Explanation/Reference:

Explanation:

On scale out, autoscale runs if any rule is met. On scale-in, autoscale requires all rules to be met. Therefore, the web app will scale out but will never scale back in because there is no time where the CPU is less than 30% AND the memory is less than 50%.

Testlet 2

Case study

Overview

ADatum Corporation is a financial company that has two main offices in New York and Los Angeles. ADatum has a subsidiary named Fabrikam, Inc. that shares the Los Angeles office.

ADatum is conducting an initial deployment of Azure services to host new line-of-business applications and is preparing to migrate its existing on-premises workloads to Azure.

ADatum uses Microsoft Exchange Online for email.

Existing Environment

On-Premises Environment

The on-premises workloads run on virtual machines hosted in a VMware vSphere 6 infrastructure. All the virtual machines are members of an Active Directory forest named adatum.com and run Windows Server 2016.

The New York office uses an IP address space of 10.0.0.0/16. The Los Angeles office uses an IP address space of 10.10.0.0/16.

The offices connect by using a VPN provided by an ISP. Each office has one Azure ExpressRoute circuit that provides access to Azure services and Microsoft Online Services. Routing is implemented by using Microsoft peering.

The New York office has a virtual machine named VM1 that has the vSphere console installed.

Azure Environment

You provision the Azure infrastructure by using the Azure portal. The infrastructure contains the resources shown in the following table.

Name	Type	Azure Region
ASRV1	Azure Site Recovery vault	East US
ASRV2	Azure Site Recovery vault	West US
ASE1	Azure App Service Environment	East US
AG1	Azure Application Gateway (internal)	East US
AG2	Azure Application Gateway (Internet-facing)	West US
ER1	ExpressRoute circuit	East US
ER2	ExpressRoute circuit	West US

AG1 has two backend pools named Pool11 and Pool12. AG2 has two backend pools named Pool21 and Pool22.

Requirements

Planned Changes

ADatum plans to migrate the virtual machines from the New York office to the East US Azure region by using Azure Site Recovery.

Infrastructure Requirements

ADatum identifies the following infrastructure requirements:

- A new web app named App1 that will access third-parties for credit card processing must be deployed
- A newly developed API must be implemented as an Azure function named App2. App2 will use a blob storage trigger. App2 must process new blobs immediately.
- The Azure infrastructure and the on-premises infrastructure must be prepared for the migration of the VMware virtual machines to Azure.
- The sizes of the Azure virtual machines that will be used to migrate the on-premises workloads must be identified.
- All migrated and newly deployed Azure virtual machines must be joined to the adatum.com domain.
- AG1 must load balance incoming traffic in the following manner:
 1. http://corporate.adatum.com/video/* will be load balanced across Pool11
 2. http://corporate.adatum.com/images/* will be load balanced across Pool12
- AG2 must load balance incoming traffic in the following manner:
 1. <http://www.adatum.com> will be load balanced across Pool21
 2. <http://www.fabrikam.com> will be load balanced across Pool22
- ER1 must route traffic between the New York office and the platform as a service (PaaS) services in the East US Azure region, as long as ER1 is available.
- ER2 must route traffic between the Los Angeles office and the PaaS services in the West US region, as long as ER2 is available.
- ER1 and ER2 must be configured to fail over automatically.

Application Requirements

App2 must be able to connect directly to the private IP addresses of the Azure virtual machines. App2 will be deployed directly to an Azure virtual network.

Inbound and outbound communications to App1 must be controlled by using NSGs.

Pricing Requirements

ADatum identifies the following pricing requirements:

- The cost of App1 and App2 must be minimized.
- The transactional charges of Azure Storage accounts must be minimized.

QUESTION 1

HOTSPOT

You need to implement App2 to meet the application requirements. What should you include in the implementation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

App Service plan pricing tier:

	✓
Isolated	
Shared	
Standard	

Enabled feature:

	✓
Always On	
Auto Swap	
Web Sockets	

Correct Answer:

Answer Area

App Service plan pricing tier:

	✓
Isolated	
Shared	
Standard	

Enabled feature:

	✓
Always On	
Auto Swap	
Web Sockets	

Section: [none]
Explanation

Explanation/Reference:

References:

<https://azure.microsoft.com/en-us/pricing/details/app-service/plans/>

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale>

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Testlet 3

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 those 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

Contoso, Ltd. is a consulting company that has a main office in Montreal and two branch offices in Seattle and New York.

The Montreal office has 2,000 employees. The Seattle office has 1,000 employees. The New York office has 200 employees.

All the resources used by Contoso are hosted on-premises.

Contoso created a new Azure subscription. The Azure Active Directory (Azure AD) tenant uses a domain named contoso.onmicrosoft.com. The tenant uses the P1 pricing tier.

Existing Environment

The network contains an Active Directory forest named contoso.com. All domain controllers are configured as DNS servers and host the contoso.com DNS zone.

Contoso has finance, human resources, sales, research, and information technology departments. Each department has an organizational unit (OU) that contains all the accounts of that respective department. All the user accounts have the department attribute set to their respective department. New users are added frequently.

Contoso.com contains a user named User1.

All the offices connect by using private links.

Contoso has data centers in the Montreal and Seattle offices. Each data center has a firewall that can be configured as a VPN device.

All infrastructure servers are virtualized. The virtualization environment contains the servers in the following table.

Name	Role	Contains virtual machine
Server1	VMware vCenter server	VM1
Server2	Hyper-V host	VM2

Contoso uses two web applications named App1 and App2. Each instance on each web application requires 1 GB of memory.

The Azure subscription contains the resources in the following table.

Name	Type
VNet1	Virtual network
VM3	Virtual network
VM4	Virtual network

The network security team implements several network security groups (NSGs).

Requirements

Planned Changes

Contoso plans to implement the following changes:

- Deploy Azure ExpressRoute to the Montreal office
- Migrate the virtual machine hosted on Server1 and Server2 to Azure
- Synchronize on-premises Active Directory to Azure Active Directory (Azure AD)
- Migrate App1 and App2 to two Azure web apps named WebApp1 and WebApp2.

Technical Requirements

Contoso must meet the following technical requirements:

- Ensure that WebApp1 can adjust the number of instances automatically based on the load and can scale up to five instances
- Ensure that VM3 can establish outbound connections over TCP port 8080 to the applications servers in the Montreal office
- Ensure that routing information is exchanged automatically between Azure and the routers in the Montreal office
- Enable Azure Multi-Factor Authentication (MFA) for the users in the finance department only
- Ensure that webapp2.azurewebsites.net can be accessed by using the name app2.contoso.com
- Connect the New York office to VNet1 over the Internet by using an encrypted connection
- Create a workflow to send an email message when the settings of VM4 are modified
- Create a custom Azure role named Role1 that is based on the Reader role
- Minimize costs whenever possible

QUESTION 1

You need to configure a host name for WebApp2.

What should you do first?

- A. In Azure AD, add contoso.com as a custom domain name
- B. In the public DNS zone of contoso.onmicrosoft.com, add an NS record
- C. In Azure AD, add webapp2.azurewebsites.net as a custom domain name
- D. In the public DNS zone of contoso.com, add a CNAME record

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Scenario: Ensure that webapp2.azurewebsites.net can be accessed by using the name app2.contoso.com

When you create a Cloud Service, Azure assigns it to a subdomain of cloudapp.net. For example, if your Cloud Service is named "contoso", your users will be able to access your application on a URL like `http://contoso.cloudapp.net`. Azure also assigns a virtual IP address.

However, you can also expose your application on your own domain name, such as contoso.com.

References:

<https://docs.microsoft.com/en-us/azure/cloud-services/cloud-services-custom-domain-name-portal>

QUESTION 2

Which pricing tier should you recommend for WebApp1?

- A. D1
- B. P1v2
- C. S1
- D. B1

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Standard supports up to 10 instances, and would be enough as the Standard plan includes auto scale that can automatically adjust the number of virtual machine instances running to match your traffic needs.

Scenario: Ensure that WebApp1 can adjust the number of instances automatically based on the load and can scale up to five instances

Incorrect Answers:

D: Basic supports only up to 3 instances

References:

<https://azure.microsoft.com/en-us/pricing/details/app-service/windows/>

Question Set 1

QUESTION 1

You have two Azure Active Directory (Azure AD) tenants named contoso.com and fabrikam.com.

You have a Microsoft account that you use to sign in to both tenants.

You need to configure the default sign-in tenant for the Azure portal.

What should you do?

- A. From the Azure portal, configure the portal settings
- B. From the Azure portal, change the directory
- C. From Azure Cloud Shell, run `Set-AzureRmContext`
- D. From Azure Cloud Shell, run `Set-AzureRmSubscription`

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Change the subscription directory in the Azure portal.

The classic portal feature Edit Directory, that allows you to associate an existing subscription to your Azure Active Directory (AAD), is now available in Azure portal. It used to be available only to Service Admins with Microsoft accounts, but now it's available to users with AAD accounts as well.

To get started:

1. Go to Subscriptions.
2. Select a subscription.
3. Select Change directory.

Incorrect Answers:

C: The `Set-AzureRmContext` cmdlet sets authentication information for cmdlets that you run in the current session. The context includes tenant, subscription, and environment information.

References:

<https://azure.microsoft.com/en-us/updates/edit-directory-now-in-new-portal/>

QUESTION 2

HOTSPOT

Your network contains an Active Directory domain named adatum.com and an Azure Active Directory (Azure AD) tenant named adatum.onmicrosoft.com.

Adatum.com contains the user accounts in the following table.

Name	Member of
User1	Domain Admins
User2	Schema Admins
User3	Incoming Forest Trust Builders
User4	Replicator
User5	Enterprise Admins

Adatum.onmicrosoft.com contains the user accounts in the following table.

Name	Role
UserA	Global administrator
UserB	User administrator
UserC	Security administrator
UserD	Service administrator

You need to implement Azure AD Connect. The solution must follow the principle of least privilege.

Which user accounts should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Adatum.com:

User1
User2
User3
User4
User5

Adatum.onmicrosoft.com:

UserA
UserB
UserC
UserD

Correct Answer:

Answer Area

Adatum.com:

User1
User2
User3
User4
User5

Adatum.onmicrosoft.com:

UserA
UserB
UserC
UserD

Section: [none]

Explanation:

Explanation/Reference:

Explanation:

Box 1: User5

In Express settings, the installation wizard asks for the following:

AD DS Enterprise Administrator credentials

Azure AD Global Administrator credentials

The AD DS Enterprise Admin account is used to configure your on-premises Active Directory. These credentials are only used during the installation and are not used after the installation has completed. The Enterprise Admin, not the Domain Admin should make sure the permissions in Active Directory can be set in all domains.

Box 2: UserA

Azure AD Global Admin credentials are only used during the installation and are not used after the installation has completed. It is used to create the Azure AD Connector account used for synchronizing changes to Azure AD. The account also enables sync as a feature in Azure AD.

References:

<https://docs.microsoft.com/en-us/azure/active-directory/connect/active-directory-aadconnect-accounts-permissions>

QUESTION 3

You sign up for Azure Active Directory (Azure AD) Premium.

You need to add a user named admin1@contoso.com ad an administrator on all the computers that will be

joined to the Azure AD domain.

What should you configure in Azure AD?

- A. Providers from the MFA Server blade
- B. General settings from the Groups blade
- C. Device settings from the Devices blade
- D. User settings from the Users blade

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

Explanation:

When you connect a Windows device with Azure AD using an Azure AD join, Azure AD adds the following security principles to the local administrators group on the device:

- The Azure AD global administrator role
- The Azure AD device administrator role
- The user performing the Azure AD join

In the Azure portal, you can manage the device administrator role on the Devices page. To open the Devices page:

1. Sign in to your Azure portal as a global administrator or device administrator.
2. On the left navbar, click Azure Active Directory.
3. In the Manage section, click Devices.
4. On the Devices page, click Device settings.
5. To modify the device administrator role, configure Additional local administrators on Azure AD joined devices.

References:

<https://docs.microsoft.com/en-us/azure/active-directory/devices/assign-local-admin>

QUESTION 4

SIMULATION

Click to expand each objective. To connect to the Azure portal, type <https://portal.azure.com> in the browser address bar.



Microsoft Azure

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Dashboard - Microsoft · X +

← → ⌂ ⌂ https://portal.azure.com/#@plteamsponsorautolookmicrosoft.com/dashboard/private/B

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Favourites

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All resources

Resource groups

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directory

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Functions

Process events with a serverless code architecture

SQL Database

Service Health

Marketplace

Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Free Dump, Don't pay for it

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)
Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

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Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)

«

 Overview

 Outputs

 Inputs

 Template

 Delete

 Cancel

 Redeploy

 Refresh

Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.



Deployment
name: Microsoft.StorageAccount-
20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 5:04:06 AM
Duration: 17 seconds
Correlation ID: bdd06a4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Ubuntu Server 18.04 LTS

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Standard D2s v3

by Microsoft

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Pricing not available for this offering

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Subscription credits apply

0.0960 USD/hr

[Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

When you are finished performing all the tasks, click the 'Next' button.

Note that you cannot return to the lab once you click the 'Next' button. Scoring occurs in the background while you complete the rest of the exam.

Overview

The following section of the exam is a lab. In this section, you will perform a set of tasks in a live environment. While most functionality will be available to you as it would be in a live environment, some functionality (e.g., copy and paste, ability to navigate to external websites) will not be possible by design.

Scoring is based on the outcome of performing the tasks stated in the lab. In other words, it doesn't matter how you accomplish the task, if you successfully perform it, you will earn credit for that task.

Labs are not timed separately, and this exam may have more than one lab that you must complete. You can use as much time as you would like to complete each lab. But, you should manage your time appropriately to ensure that you are able to complete the lab(s) and all other sections of the exam in the time provided.

Please note that once you submit your work by clicking the Next button within a lab, you will NOT be able to return to the lab.

To start the lab

You may start the lab by clicking the Next button.

You plan to protect on-premises virtual machines and Azure virtual machines by using Azure Backup.

You need to prepare the backup infrastructure in Azure. The solution must minimize the cost of storing the

backups in Azure.

What should you do from the Azure portal?

Correct Answer: See solution below.

Section: [none]

Explanation

Explanation/Reference:

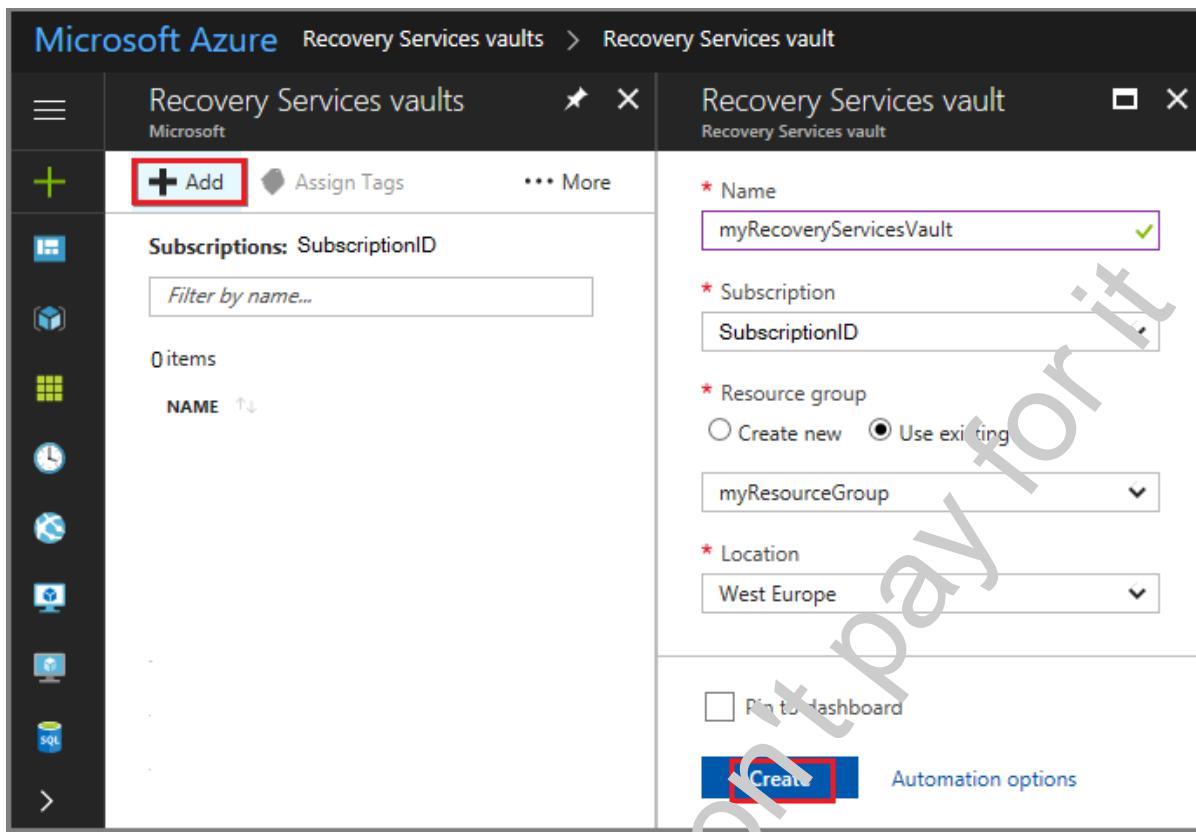
Explanation:

First, create Recovery Services vault.

Step 1: On the left-hand menu, select All services and in the services list, type Recovery Services. As you type, the list of resources filters. When you see Recovery Services vaults in the list, select it to open the Recovery Services vaults menu.

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes a search bar with the placeholder "Search resources, services and docs". Below the search bar, the left sidebar has options like "Create a resource", "All services", "FAVORITES", and "Resource groups". The main content area is titled "All services" and shows a search result for "recovery". The first result is "Recovery Services vaults" with the subtext "Keywords: Disaster recovery". The second result is "Site recovery vaults (classic)". Both results have a star icon at the end.

Step 2: In the Recovery Services vaults menu, click Add to open the Recovery Services vault menu.



Step 3: In the Recovery Services vault menu, for example, Type myRecoveryServicesVault in Name.

The current subscription ID appears in Subscription. If you have additional subscriptions, you could choose another subscription for the new vault.

For Resource group select Use existing and choose myResourceGroup. If myResourceGroup doesn't exist, select Create new and type myResourceGroup.

From the Location drop-down menu, choose West Europe.

Click Create to create your Recovery Services vault.

References:

<https://docs.microsoft.com/en-us/azure/backup/tutorial-backup-vm-at-scale>

QUESTION 5 HOTSPOT

You have an Azure subscription that includes an Azure key vault named Vault1.

You create the Azure virtual machines shown in the following table.

Name	Operating system disk type	Use managed disks
VM1	Premium SSD	Yes
VM2	Standard HDD	Yes
VM3	Standard SSD	No

You enable Azure Disk Encryption for all the virtual machines and use the `-VolumeType All` parameter.

You add data disks to the virtual machines as shown in the following table.

Name	Virtual machine	Storage account type
VM1-Disk1	VM1	Premium SSD
VM2-Disk1	VM2	Standard SSD
VM3-Disk1	VM3	Standard HDD

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

- | Statements | Yes | No |
|--|-----------------------|-----------------------|
| VM1-Disk1 is encrypted automatically by using Azure Disk Encryption. | <input type="radio"/> | <input type="radio"/> |
| VM2-Disk1 is encrypted automatically by using Azure Disk Encryption. | <input type="radio"/> | <input type="radio"/> |
| VM3-Disk1 is encrypted automatically by using Azure Disk Encryption. | <input type="radio"/> | <input type="radio"/> |

Correct Answer:

Answer Area

- | Statements | Yes | No |
|--|----------------------------------|----------------------------------|
| VM1-Disk1 is encrypted automatically by using Azure Disk Encryption. | <input checked="" type="radio"/> | <input type="radio"/> |
| VM2-Disk1 is encrypted automatically by using Azure Disk Encryption. | <input checked="" type="radio"/> | <input type="radio"/> |
| VM3-Disk1 is encrypted automatically by using Azure Disk Encryption. | <input type="radio"/> | <input checked="" type="radio"/> |

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Premium and standard, but not basic, account types support disk encryption.
Disk encryption requires managed disks.

References:

<https://docs.microsoft.com/en-us/azure/security/azure-security-disk-encryption-overview>

QUESTION 6

Your company has an Azure subscription.

You enable multi-factor authentication (MFA) for all users.

The company's help desk reports an increase in calls from users who receive MFA requests while they work from the company's main office.

You need to prevent the users from receiving MFA requests when they sign in from the main office.

What should you do?

- A. From Azure Active Directory (Azure AD), configure organizational relationships.
- B. From the MFA service settings, create a trusted IP range.
- C. From Conditional access in Azure Active Directory (Azure AD), create a custom control
- D. From Conditional access in Azure Active Directory (Azure AD), create a named location.

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

The first thing you may want to do, before enabling Multi-Factor Authentication for any users, is to consider configuring some of the available settings. One of the most important features is a trusted IPs list. This will allow you to whitelist a range of IPs for your network. This way when users are in the office, they will not get prompted with MFA, and when they take their devices elsewhere, they will. Here's how to do it:

Log in to your Azure Portal.

Navigate to Azure AD > Conditional Access > Named locations.

From the top toolbar select Configure MFA trusted IPs.

References:

<https://www.kraftkennedy.com/implementing-azure-multi-factor-authentication/>

QUESTION 7

HOTSPOT

You have an Azure subscription.

You are planning data security for Azure resources.

You need to ensure that the data meets the following requirements:

- Data in Azure SQL databases that is at rest, in transit, and in use must be encrypted.
- The confidentiality of code on virtual machines must be protected while the code is being processed.

Which feature should you use for each requirement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

SQL databases:

- Advanced data security
- Always Encrypted
- Elastic pools
- Transparent Data Encryption (TDE)

Virtual machine code:

- Azure Batch
- Azure Confidential Compute
- Azure Container Service
- Azure Disk Encryption

Correct Answer:

Answer Area

SQL databases:

- Advanced data security
- Always Encrypted
- Elastic pools
- Transparent Data Encryption (TDE)

Virtual machine code:

- Azure Batch
- Azure Confidential Compute
- Azure Container Service
- Azure Disk Encryption

Section: [none]
Explanation

Explanation/Reference:

Explanation:

SQL Databases: Transparent Data Encryption (TDE)

Azure SQL Database currently supports encryption at rest for Microsoft-managed service side and client-side encryption scenarios.

Support for server encryption is currently provided through the SQL feature called Transparent Data Encryption. Once an Azure SQL Database customer enables TDE key are automatically created and managed for them. Encryption at rest can be enabled at the database and server levels.

Virtual machine code: Azure confidential compute

Azure confidential computing protects your data while it's in use. It is the final piece to enable data protection through its lifecycle whether at rest, in transit, or in use. It is the cornerstone of Microsoft's 'Confidential Cloud' vision, which aims to make data and code opaque to the cloud provider.

Reference:

<https://docs.microsoft.com/en-us/azure/security/fundamentals/encryption-atrest>

<https://azure.microsoft.com/en-us/blog/protect-data-in-use-with-the-public-preview-of-azure-confidential-computing/>

QUESTION 8

You have an Azure virtual machine named VM1 that you use for testing. VM1 is protected by Azure Backup.

You delete VM1.

You need to remove the backup data stored for VM1.

What should you do first?

- A. Delete the storage account
- B. Stop the backup
- C. Modify the backup policy
- D. Delete the Recovery Services vault

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Azure Backup provides backup for virtual machines — created through both the classic deployment model and the Azure Resource Manager deployment model — by using custom-defined backup policies in a Recovery Services vault.

With the release of backup policy management, customers can manage backup policies and model them to meet their changing requirements from a single window. Customers can edit a policy, associate more virtual machines to a policy, and delete unnecessary policies to meet their compliance requirements.

Incorrect Answers:

D: You can't delete a Recovery Services vault if it is registered to a server and holds backup data. If you try to delete a vault, but can't, the vault is still configured to receive backup data.

References:

<https://azure.microsoft.com/en-in/updates/azure-vm-backup-policy-management/>

QUESTION 9

You have an Azure subscription named Subscription1. You deploy a Linux virtual machine named VM1 to Subscription1.

You need to monitor the metrics and the logs of VM1.

What should you use?

- A. the AzurePerformanceDiagnostics extension
- B. Linux Diagnostic Extension (LAD) 3.0
- C. Azure Analysis Services
- D. Azure HDInsight

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

You can use extensions to configure diagnostics on your VMs to collect additional metric data.

The basic host metrics are available, but to see more granular and VM-specific metrics, you need to install the Azure diagnostics extension on the VM. The Azure diagnostics extension allows additional monitoring and diagnostics data to be retrieved from the VM.

References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-monitoring>

QUESTION 10

You have two Azure virtual machines named VM1 and VM2.

You have two Recovery Services vaults named RSV1 and RSV2. VM2 is protected by RSV1.

You need to use RSV2 to protect VM2.

What should you do first?

- A. From the RSV2 blade, click **Backup**. From the Backup blade, select the backup for the virtual machine, and then click **Backup**
- B. From the RSV1 blade, click **Backup items** and stop the VM2 backup
- C. From the VM2 blade, click **Disaster recovery**, click **Replication settings**, and then select RSV2 as the Recovery Services vault
- D. From the RSV1 blade, click **Backup Jobs** and export the VM2 job

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/backup/backup-azure-vms-first-look-arm>

QUESTION 11

You have a resource group named RG1. RG1 contains an Azure Storage account named storageaccount1 and a virtual machine named VM1 that runs Windows Server 2016.

Storageaccount1 contains the disk files for VM1.

You apply a ReadOnly lock to RG1.

What can you do from the Azure portal?

- A. Start VM1
- B. Upload a blob to storageaccount1
- C. View the keys of storageaccount1
- D. generate an automation script for RG1

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

Explanation:

ReadOnly allows authorized users to read a resource, but they can't delete or update the resource. Applying this lock is similar to restricting all authorized users to the permissions granted by the Reader role.

References:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-lock-resources>

QUESTION 12

SIMULATION

Click to expand each objective. To connect to the Azure portal, type <https://portal.azure.com> in the browser address bar.



Microsoft Azure

Free Dump - Don't pay for it

Microsoft Azure

Dashboard - Microsoft · X +

← → ⏪ ⏩ ⏴ ⏵

https://portal.azure.com/#@plteamsponsorautolookmicrosoft.com/dashboard/private/B

Search resources, services, and docs

User-7523691@Exa

Create a resource

All services

Favourites

Dashboard

All resources

Resource groups

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directory

Monitor

Advisor

Security Center

Cost Management + Bill...

All resources

Dashboard

...

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Linux Virtual Machines

Ubuntu, Red Hat, CentOS, SUSE, CoreOS VMs

App Service

Create Web Apps using .NET, Java, Node.js, Python, PHP

Functions

Process events with a serverless code architecture

SQL Database

Service Health

Marketplace

The screenshot shows the Microsoft Azure portal's main dashboard. At the top left is the 'Create a resource' button. Below it are sections for 'Favourites' (Dashboard, All resources, Resource groups, App Services, Function Apps, SQL databases, Azure Cosmos DB, Virtual machines, Load balancers, Storage accounts, Virtual networks, Azure Active Directory, Monitor, Advisor, Security Center, Cost Management + Bill...), 'All resources' (Dashboard, ...), and 'Quickstarts + tutorials' (Windows Virtual Machines, Linux Virtual Machines, App Service, Functions, SQL Database). At the bottom are 'Service Health' and 'Marketplace' buttons.

Free Dump, Don't pay for it

Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Free Dump, Don't pay for it

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)
Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

Free Dump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)

«

 Overview

 Outputs

 Inputs

 Template

 Delete

 Cancel

 Redeploy

 Refresh

Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.



Deployment
name: Microsoft.StorageAccount-
20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 5:04:06 AM
Duration: 17 seconds
Correlation ID: bdd06a4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Ubuntu Server 18.04 LTS

by Canonical

[Terms of use](#) | [Privacy policy](#)

Standard D2s v3

by Microsoft

[Terms of use](#) | [Privacy policy](#)

Pricing not available for this offering

[View Pricing details](#) for more information.

Subscription credits apply

0.0960 USD/hr

[Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

When you are finished performing all the tasks, click the 'Next' button.

Note that you cannot return to the lab once you click the 'Next' button. Scoring occurs in the background while you complete the rest of the exam.

Overview

The following section of the exam is a lab. In this section, you will perform a set of tasks in a live environment. While most functionality will be available to you as it would be in a live environment, some functionality (e.g., copy and paste, ability to navigate to external websites) will not be possible by design.

Scoring is based on the outcome of performing the tasks stated in the lab. In other words, it doesn't matter how you accomplish the task, if you successfully perform it, you will earn credit for that task.

Labs are not timed separately, and this exam may have more than one lab that you must complete. You can use as much time as you would like to complete each lab. But, you should manage your time appropriately to ensure that you are able to complete the lab(s) and all other sections of the exam in the time provided.

Please note that once you submit your work by clicking the Next button within a lab, you will NOT be able to return to the lab.

To start the lab

You may start the lab by clicking the Next button.

You plan to grant the members of a new Azure AD group named corp10217507 the rights to delegate administrative access to any resource in the resource group named corp10217507.

You need to create the Azure AD group, and then to assign the correct role to the group. The solution must use the principle of least privilege and minimize the number of role assignments.

What should you do from the Azure portal?

Correct Answer: See explanation below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Step 1:

Click Resource groups from the menu of services to access the Resource Groups blade

The screenshot shows the Microsoft Azure Resource groups blade. At the top, there's a header bar with the Microsoft Azure logo, a search icon, a notification bell with one alert, a gear icon, a smiley face icon, and a question mark icon. The user's name 'TACORSEROUTLOOK (Default Directory)' is also visible. Below the header, the title 'Resource groups' is displayed, along with the subtitle 'tacorseroutlook (Default Directory)'. There are three buttons: '+ Add', 'Columns', and 'Refresh'. A sidebar on the left contains icons for various services: App Service, Functions, Logic Apps, Container Registry, Container Instances, and SQL Server. The main area shows a message 'Subscriptions: Pay-As-You-Go – Don't see a subscription? Switch directories'. Below this is a search bar labeled 'Filter by name...', a dropdown for 'All locations', and a dropdown for 'No grouping'. A table lists '1 items': 'NAME' (vSRX-Dev), 'SUBSCRIPTION' (Pay-As-You-Go), 'LOCATION' (West US), and a 'More' button (three dots). The entire interface has a light gray watermark reading 'Free Dump - Don't pay for it' diagonally across it.

Step 2:

Click Add (+) to create a new resource group. The Create Resource Group blade appears. Enter corp10217507 as the Resource group name, and click the Create button.

The screenshot shows the Microsoft Azure Resource group creation blade. The title is 'Resource group' with the subtitle 'Create an empty resource group'. It contains three required fields: 'Resource group name' (with an input field 'Enter resource group name'), 'Subscription' (with a dropdown set to 'Pay-As-You-Go'), and 'Resource group location' (with a dropdown set to 'Central US'). There is also an optional checkbox 'Pin to dashboard' and a large blue 'Create' button at the bottom. The left side of the screen shows the same Resource groups blade as the previous screenshot, with the 'vSRX-Dev' group listed. The entire interface has a light gray watermark reading 'Free Dump - Don't pay for it' diagonally across it.

Step 3:

Select Create.

Your group is created and ready for you to add members.

Now we need to assign a role to this resource group scope.

Step 4:

Choose the newly created Resource group, and Access control (IAM) to see the current list of role assignments at the resource group scope. Click +Add to open the Add permissions pane.

The screenshot shows the 'pharma-sales-projectforecast - Access control (IAM)' page. The '+ Add' button is highlighted with a red box. The sidebar on the left has 'Access control (IAM)' selected. The main area shows 6 items with columns for NAME and TYPE.

Step 5:

In the Role drop-down list, select a role Delegate administration, and select Assign access to: resource group corp10217507.

The screenshot shows the 'Add permissions' dialog box. The 'Role' dropdown is set to 'Select a role'. The 'Assign access to' dropdown is set to 'Azure AD user, group, or application'. The 'Select' dropdown is set to 'Search by name or email address'.

References:

<https://docs.microsoft.com/en-us/azure/role-based-access-control/role-assignments-portal>

https://www.juniper.net/documentation/en_US/vsxr/topics/task/multi-task/security-vsrx-azure-marketplace-resource-group.html

QUESTION 13

You download an Azure Resource Manager template based on an existing virtual machine. The template will

be used to deploy 100 virtual machines.

You need to modify the template to reference an administrative password. You must prevent the password from being stored in plain text.

What should you create to store the password?

- A. an Azure Key Vault and an access policy.
- B. an Azure Storage account and an access policy.
- C. Azure Active Directory (AD) Identity Protection and an Azure policy.
- D. a Recovery Services vault and a backup policy.

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 14

DRAG DROP

You maintain an existing Azure SQL Database instance. Management of the database is performed by an external party. All cryptographic keys are stored in an Azure Key Vault.

You must ensure that the external party cannot access the data in the SSN column of the Person Table.

Will each protection method meet the requirement? To answer, drag the appropriate responses to the correct protection methods.

Each response 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.

Select and Place:

Responses
Yes
No

Answer Area

Protection Method

- Enable AlwaysOn encryption.
- Set the column encryption setting to disabled.
- Assign users to the Public fixed database role.
- Store column encryption keys in the system catalog view in the database.

Response

Response

Response

Response

Correct Answer:

Responses	Answer Area	
<input type="checkbox"/> Yes		
<input type="checkbox"/> No		
Protection method		Response
	Enable AlwaysOn encryption.	<input type="checkbox"/> Yes
	Set the column encryption setting to disabled.	<input type="checkbox"/> No
	Assign users to the Public fixed database role.	<input type="checkbox"/> No
	Store column encryption keys in the system catalog view in the database.	<input type="checkbox"/> No

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/security/azure-database-security-overview>

QUESTION 15

Note: This question is part of 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.

Your network contains an Active Directory forest named fabrikam.com. The forest contains two child domains named corp.fabrikam.com and research.fabrikam.com.

You have an Azure subscription that contains an Azure Active Directory (Azure AD) tenant named contoso.com.

You install Azure AD Connect and sync all the on-premises user accounts to the Azure AD tenant. You implement seamless single sign-on (SSO).

You plan to change the source of authority for all the user accounts in research.fabrikam.com to Azure AD.

You need to prevent research.fabrikam.com from resyncing to Azure AD.

Solution: From the Azure Active Directory admin center, you delete a custom domain.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Instead you should customize the default synchronization rule.

Note:

To delete a custom domain name, you must first ensure that no resources in your directory rely on the domain name. You can't delete a domain name from your directory if:

- Any user has a user name, email address, or proxy address that includes the domain name.
- Any group has an email address or proxy address that includes the domain name.
- Any application in your Azure AD has an app ID URI that includes the domain name.

References:

<https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-create-custom-sync-rule>

QUESTION 16

Note: This question is part of 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.

Your network contains an Active Directory forest named fabrikam.com. The forest contains two child domains named corp.fabrikam.com and research.fabrikam.com.

You have an Azure subscription that contains an Azure Active Directory (Azure AD) tenant named contoso.com.

You install Azure AD Connect and sync all the on-premises user accounts to the Azure AD tenant. You implement seamless single sign-on (SSO).

You plan to change the source of authority for all the user accounts in research.fabrikam.com to Azure AD.

You need to prevent research.fabrikam.com from resyncing to Azure AD.

Solution: You use the Synchronization Service Manager.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Instead you should customize the default synchronization rule.

Note: The Synchronization Service Manager UI is used to configure more advanced aspects of the sync engine and to see the operational aspects of the service.

References:

<https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-create-custom-sync-rule>

QUESTION 17

You have an Azure solution that uses Multi-Factor Authentication for added security when users are outside of the office. The usage model has been set to Per Authentication.

Your company acquires another company and adds the new staff to Azure Active Directory (Azure AD). New staff members must use Multi-Factor Authentication.

You need to change the usage model to Per Enabled User.

What should you recommend?

- A. Create a new Multi-Factor Authentication provider and reconfigure the usage model.
- B. Create a new Multi-Factor Authentication provider with a backup from the current Multi-Factor Authentication provider data.
- C. Use the Azure portal to change the current usage model.
- D. Use Azure CLI to change the current usage model.

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Since it is not possible to change the usage model of an existing provider as it is right now, you have to create a new one and reactivate your existing server with activation credentials from the new provider.

References:

<https://365lab.net/2015/04/11/switch-usage-model-in-azure-multi-factor-authentication-server/>

QUESTION 18

Your network contains an on-premises Active Directory and an Azure Active Directory (Azure AD) tenant.

You deploy Azure AD Connect and configure pass-through authentication?

Your Azure subscription contains several web apps that are accessed from the Internet.

You plan to enable Azure Multi-Factor Authentication (MFA) for the Azure tenant.

You need to recommend a solution to prevent users from being prompted for Azure MFA when they access the web apps from the on-premises network.

What should you include in the recommendation?

- A. a site-to-site VPN between the on-premises network and Azure
- B. an Azure policy
- C. an Azure ExpressRoute circuit
- D. trusted IPs

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

Explanation:

The Trusted IPs feature of Azure Multi-Factor Authentication is used by administrators of a managed or federated tenant. The feature bypasses two-step verification for users who sign in from the company intranet. The feature is available with the full version of Azure Multi-Factor Authentication, and not the free version for administrators.

References:

<https://docs.microsoft.com/en-us/azure/active-directory/authentication/howto-mfa-mfasettings#trusted-ips>

QUESTION 19

You are the global administrator for an Azure Active Directory (Azure AD) tenant named adatum.com.

You need to enable two-step verification for Azure users.

What should you do?

- A. Create an Azure AD conditional access policy.
- B. Configure a playbook in Azure Security Center.
- C. Enable Azure AD Privileged Identity Management.
- D. Install an MFA Server.

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/active-directory/authentication/howto-mfa-sets-up>

QUESTION 20

Note: This question is part of 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.

Your network contains an Active Directory forest named fabrikam.com. The forest contains two child domains named corp.fabrikam.com and research.fabrikam.com.

You have an Azure subscription that contains an Azure Active Directory (Azure AD) tenant named contoso.com.

You install Azure AD Connect and sync all the on-premises user accounts to the Azure AD tenant. You implement seamless single sign-on (SSO).

You plan to change the source of authority for all the user accounts in research.fabrikam.com to Azure AD.

You need to prevent research.fabrikam.com from resyncing to Azure AD.

Solution: You use the Azure AD Connect wizard.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Instead you should customize the default synchronization rule.

Note: The Synchronization Service Manager UI is used to configure more advanced aspects of the sync engine and to see the operational aspects of the service.

References:

<https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-create-custom-sync-rule>

QUESTION 21

HOTSPOT

You are developing an Azure Web App. You configure TLS mutual authentication for the web app.

You need to validate the client certificate in the web app. To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Property	Value
Client certificate location	<ul style="list-style-type: none">HTTP request headerClient cookieHTTP message bodyURL query string
Encoding type	<ul style="list-style-type: none">HTMLURLUnicodeBase64

Correct Answer:

Answer Area

Property	Value
Client certificate location	<ul style="list-style-type: none">HTTP request headerClient cookieHTTP message bodyURL query string
Encoding type	<ul style="list-style-type: none">HTMLURLUnicodeBase64

Section: [none]

Explanation

Explanation/Reference:

QUESTION 22

You have a Recovery Service vault that you use to test backups. The test backups contain two protected virtual machines.

You need to delete the Recovery Services vault.

What should you do first?

- A. From the Recovery Service vault, delete the backup data
- B. Modify the disaster recovery properties of each virtual machine
- C. Modify the locks of each virtual machine
- D. From the Recovery Service vault, stop the backup of each backup item

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

Explanation:

You can't delete a Recovery Services vault if it is registered to a server and holds backup data. If you try to

delete a vault, but can't, the vault is still configured to receive backup data.

Remove vault dependencies and delete vault

In the vault dashboard menu, scroll down to the Protected Items section, and click Backup Items. In this menu, you can stop and delete Azure File Servers, SQL Servers in Azure VM, and Azure virtual machines.

BACKUP MANAGEMENT TYPE	BACKUP ITEM COUNT
Azure Storage (Azure Files)	4
Azure Backup Server	3
SQL in Azure VM	1
Azure Backup Agent	1
Azure Virtual Machine	1
DPM	

References:

<https://docs.microsoft.com/en-us/azure/backup/backup-azure-delete-vault>

QUESTION 23

Note: This question is part of 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.

Your network contains an Active Directory forest named fabrikam.com. The forest contains two child domains named corp.fabrikam.com and research.fabrikam.com.

You have an Azure subscription that contains an Azure Active Directory (Azure AD) tenant named contoso.com.

You install Azure AD Connect and sync all the on-premises user accounts to the Azure AD tenant. You implement seamless single sign-on (SSO).

You plan to change the source of authority for all the user accounts in research.fabrikam.com to Azure AD.

You need to prevent research.fabrikam.com from resyncing to Azure AD.

Solution: You use Active Directory Domains and Trusts from a computer joined to fabrikam.com.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Instead you should customize the default synchronization rule.

Note:

To delete a custom domain name, you must first ensure that no resources in your directory rely on the domain name. You can't delete a domain name from your directory if:

- Any user has a user name, email address, or proxy address that includes the domain name.
- Any group has an email address or proxy address that includes the domain name.
- Any application in your Azure AD has an app ID URI that includes the domain name.

References:

<https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-create-custom-sync-rule>

QUESTION 24

HOTSPOT

Your organization has developed and deployed several Azure App Service Web and API applications. The applications use Azure SQL Database to store and retrieve data. Several departments have the following requests to support the applications:

Department	Request
Database	Store an asymmetric key to allow real-time VO encryption and decryption of the Azure SQL Database data and log files.
Development	Enable the applications to retrieve x.509 certificates, stored in an Azure AD-protected resource, by using an access token.
Security	Protect Azure SQL Database connection strings and only allow access to the connection strings during the application runtime.

You need to recommend the appropriate Azure service for each department request.

What should you recommend? To answer, configure the appropriate options in the dialog box in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Department

Azure Service

Database

Azure AD Privileged Identity Management
Azure AD Managed Service Identity
Azure Key Vault
Azure Security Center

Development

Azure AD Privileged Identity Management
Azure AD Managed Service Identity
Azure Key Vault
Azure Security Center

Security

Azure AD Privileged Identity Management
Azure AD Managed Service Identity
Azure Key Vault
Azure Security Center

Correct Answer:

Answer Area

Department	Azure Service
Database	Azure AD Privileged Identity Management Azure AD Managed Service Identity Azure Key Vault Azure Security Center
Development	Azure AD Privileged Identity Management Azure AD Managed Service Identity Azure Key Vault Azure Security Center
Security	Azure AD Privileged Identity Management Azure AD Managed Service Identity Azure Key Vault Azure Security Center

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/sql-database/transparent-data-encryption-azure-sql>

QUESTION 25

You have the Azure virtual machines shown in the following table.

Name	Azure region
VM1	West Europe
VM2	West Europe
VM3	North Europe
VM4	North Europe

You have a Recovery Services vault that protects VM1 and VM2.

You need to protect VM3 and VM4 by using Recovery Services.

What should you do first?

- A. Create a new backup policy
- B. Create a new Recovery Services vault
- C. Configure the extensions for VM3 and VM4
- D. Create a storage account

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

Explanation:

A Recovery Services vault is a storage entity in Azure that houses data. The data typically copies of data, or configuration information for virtual machines (VMs), workloads, servers, or workstations. You can use Recovery Services vaults to hold backup data for various Azure services

References:

<https://docs.microsoft.com/en-us/azure/site-recovery/azure-to-azure-tutorial-enable-replication>

QUESTION 26

You have an Azure Active Directory (Azure AD) domain that contains 5,000 user accounts. You create a new user account named AdminUser1.

You need to assign the User administrator administrative role to AdminUser1.

What should you do from the user account properties?

- A. From the Directory role blade, modify the directory role
- B. From the Licenses blade, assign a new license
- C. From the Groups blade, invite the user account to a new group

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Assign a role to a user

1. Sign in to the Azure portal with an account that's a global admin or privileged role admin for the directory.
2. Select Azure Active Directory, select Users, and then select a specific user from the list.
3. For the selected user, select Directory role, select Add role, and then pick the appropriate admin roles from the Directory roles list, such as Conditional access administrator.
4. Press Select to save

References:

<https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/active-directory-users-assign-role-azure-portal>

QUESTION 27

SIMULATION

Click to expand each objective. To connect to the Azure portal, type <https://portal.azure.com> in the browser address bar.



Microsoft Azure

Free Dump - Don't pay for it

Microsoft Azure

Dashboard - Microsoft · X +

← → ⏪ ⏩ ⏴ ⏵

https://portal.azure.com/#@plteamsponsorautolookmicrosoft.com/dashboard/private/B

Search resources, services, and docs

User-7523691@Exa

Create a resource

All services

Favourites

Dashboard

All resources

Resource groups

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directory

Monitor

Advisor

Security Center

Cost Management + Bill...

All resources

Dashboard

...

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App Service

Create Web Apps using .NET, Java, Node.js, Python, PHP

Functions

Process events with a serverless code architecture

SQL Database

Service Health

Marketplace

The screenshot shows the Microsoft Azure portal's main dashboard. At the top left is the 'Create a resource' button. Below it are sections for 'Favourites' (Dashboard, All resources, Resource groups, App Services, Function Apps, SQL databases, Azure Cosmos DB, Virtual machines, Load balancers, Storage accounts, Virtual networks, Azure Active Directory, Monitor, Advisor, Security Center, Cost Management + Bill...), 'All resources' (Dashboard, ...), and 'Quickstarts + tutorials' (Windows Virtual Machines, Linux Virtual Machines, App Service, Functions, SQL Database). At the bottom are 'Service Health' and 'Marketplace' buttons.

Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Free Dump, Don't pay for it

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)
Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

Free Dump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)

«

 Overview

 Outputs

 Inputs

 Template

 Delete

 Cancel

 Redeploy

 Refresh

Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.



Deployment
name: Microsoft.StorageAccount-
20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 5:04:06 AM
Duration: 17 seconds
Correlation ID: bdd06a4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Ubuntu Server 18.04 LTS

by Canonical

[Terms of use](#) | [Privacy policy](#)

Standard D2s v3

by Microsoft

[Terms of use](#) | [Privacy policy](#)

Pricing not available for this offering

[View Pricing details](#) for more information.

Subscription credits apply

0.0960 USD/hr

[Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

When you are finished performing all the tasks, click the 'Next' button.

Note that you cannot return to the lab once you click the 'Next' button. Scoring occurs in the background while you complete the rest of the exam.

Overview

The following section of the exam is a 'lab'. In this section, you will perform a set of tasks in a live environment. While most functionality will be available to you as it would be in a live environment, some functionality (e.g., copy and paste, ability to navigate to external websites) will not be possible by design.

Scoring is based on the outcome of performing the tasks stated in the lab. In other words, it doesn't matter how you accomplish the task, if you successfully perform it, you will earn credit for that task.

Labs are not timed separately, and this exam may have more than one lab that you must complete. You can use as much time as you would like to complete each lab. But, you should manage your time appropriately to ensure that you are able to complete the lab(s) and all other sections of the exam in the time provided.

Please note that once you submit your work by clicking the Next button within a lab, you will NOT be able to return to the lab.

To start the lab

You may start the lab by clicking the Next button.

You plan to prevent users from accidentally deleting blob data from Azure.

You need to ensure that administrators can recover any blob data that is deleted accidentally from the

storage1od8322489 storage account for 14 days after the deletion occurred.

What should you do from the Azure portal?

Correct Answer: See explanation below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Task A: Create a Recovery Services vault (if a vault already exists skip this task, go to Task B below)

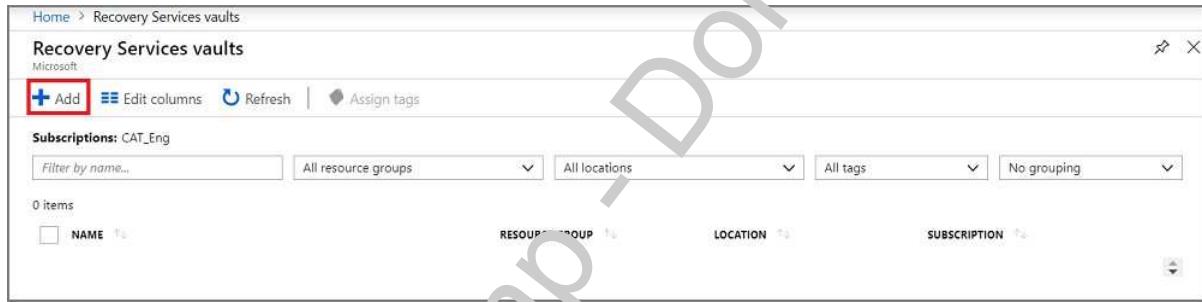
A1. From Azure Portal, On the Hub menu, click All services and in the list of resources, type Recovery Services and click Recovery Services vaults.



The screenshot shows the Azure portal's 'All services' blade. On the left, there's a sidebar with 'Create a resource', 'Home', 'Dashboard', and 'All services'. The 'All services' item is currently selected. In the main area, the 'Recovery' category is selected in the search bar. Below it, the 'Recovery Services vaults' option is highlighted with a blue background and a star icon.

If there are recovery services vaults in the subscription, the vaults are listed.

A2. On the Recovery Services vaults menu, click Add.

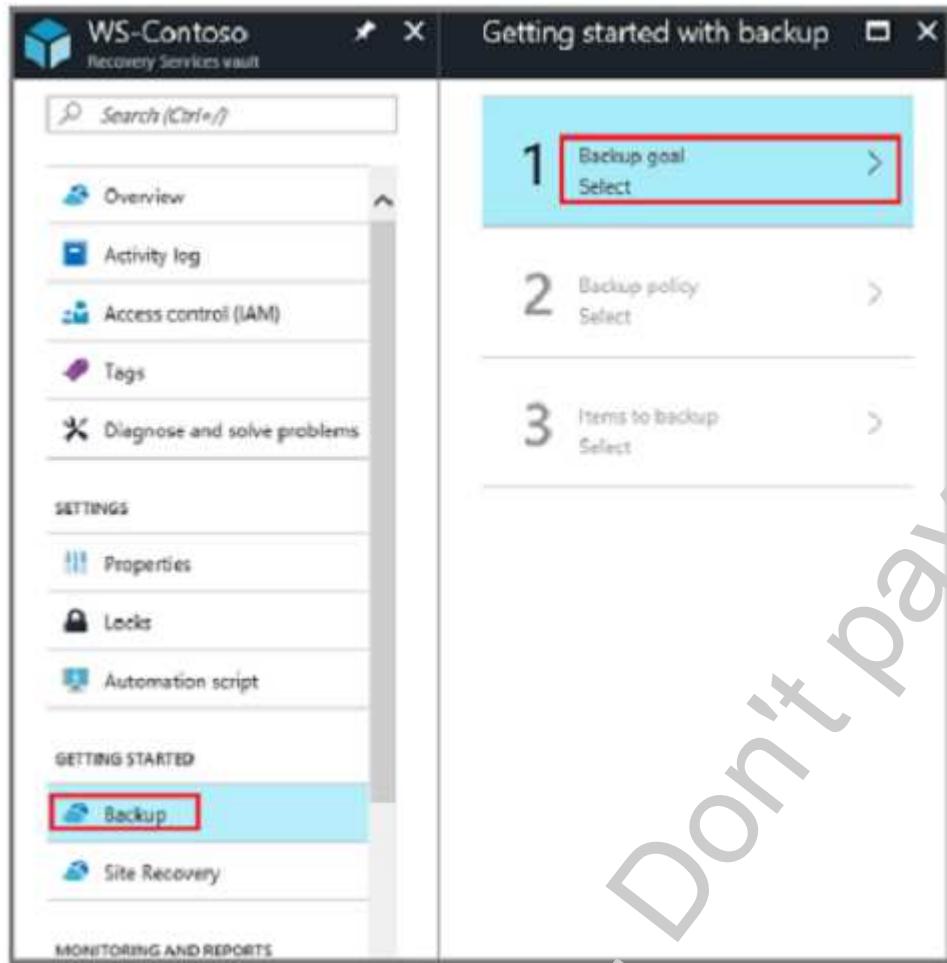


The screenshot shows the 'Recovery Services vaults' blade. At the top, there's a header with 'Home > Recovery Services vaults'. Below it, there's a section for 'Subscriptions: CAT_Eng' with a 'Filter by name...' input field and dropdowns for 'All resource groups', 'All locations', 'All tags', and 'No grouping'. A red box highlights the '+ Add' button. The main area shows a table with one row labeled '0 items'. The columns are 'NAME', 'RESOURCE GROUP', 'LOCATION', and 'SUBSCRIPTION'. There are checkboxes for each column header.

A3. The Recovery Services vault blade opens, prompting you to provide a Name, Subscription, Resource group, and Location

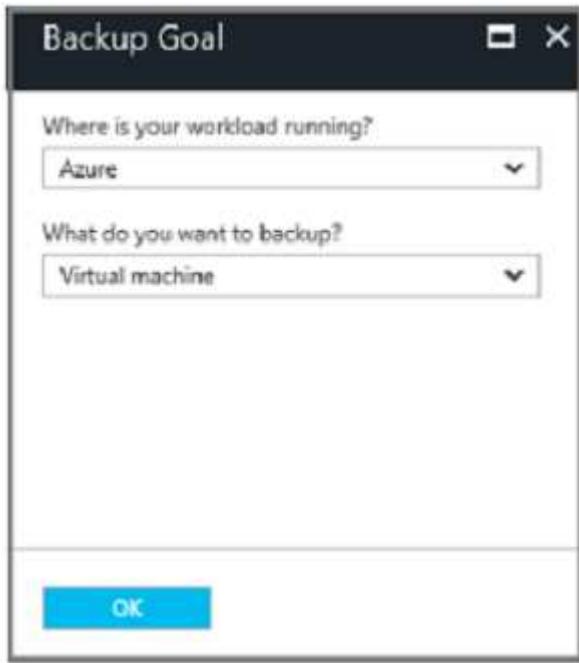
Task B. Create a backup goal

B1. On the Recovery Services vault blade (for the vault you just created), in the Getting Started section, click Backup, then on the Getting Started with Backup blade, select Backup goal.



The Backup Goal blade opens. If the Recovery Services vault has been previously configured, then the Backup Goal blades opens when you click Backup on the Recovery Services vault blade.

B2. From the Where is your workload running? drop-down menu, select Azure.

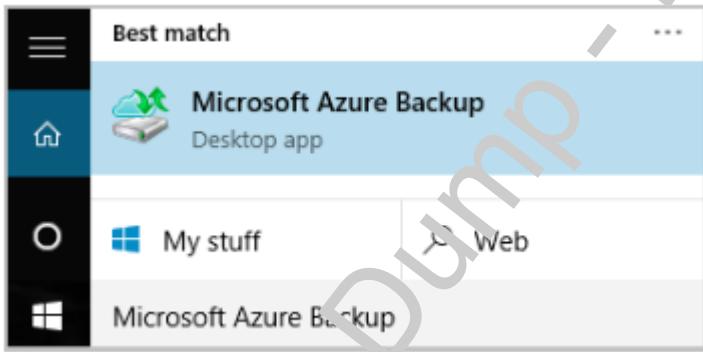


B3. From the What do you want to backup? menu, select Blob Storage, and click OK.

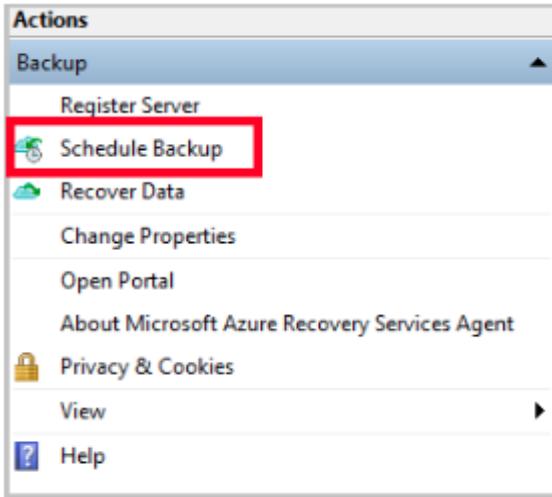
B4. Finish the Wizard.

Task C. create a backup schedule

C1. Open the Microsoft Azure Backup agent. You can find it by searching your machine for Microsoft Azure Backup.



C2. In the Backup agent's Actions pane, click Schedule Backup to launch the Schedule Backup Wizard.



C3. On the Getting started page of the Schedule Backup Wizard, click Next.

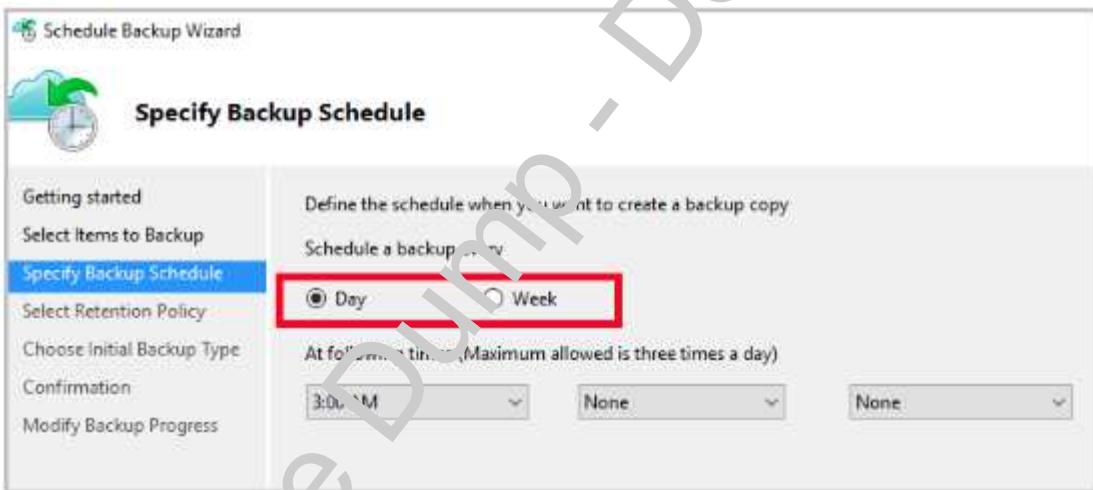
C4. On the Select Items to Backup page, click Add Items.

The Select Items dialog opens.

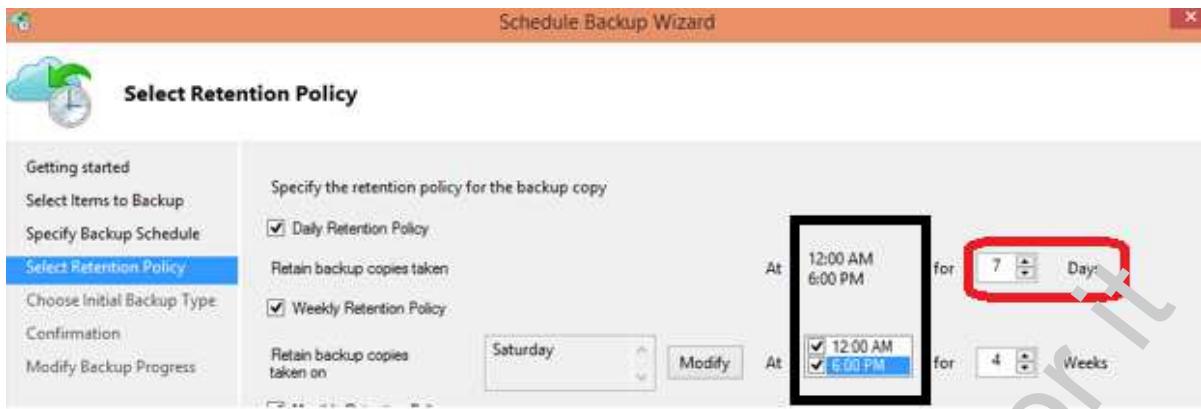
C5. Select Blob Storage you want to protect, and then click OK.

C6. In the Select Items to Backup page, click Next.

On the Specify Backup Schedule page, specify Schedule a backup every day, and click Next.



C7. On the Select Retention Policy page, set it to 14 days, and click Next.



C8. Finish the Wizard.

References:

<https://docs.microsoft.com/en-us/azure/backup/backup-configure-vault>

QUESTION 28

You have an Azure subscription that contains the Azure virtual machines shown in the following table.

Name	Operating system	Location
VM1	Windows Server 2012 R2	East US
VM2	Windows Server 2016	East US
VM3	Windows Server 2019	West US
VM4	Ubuntu Server 18.04	East US

You create an Azure key vault named Vault1 in the East US location.

You need to identify which virtual machines can enable Azure Disk Encryption by using Vault1.

Which virtual machines should you identify?

- A. VM2 and VM3 only
- B. VM1, VM2, and VM4 only
- C. VM1, VM2, and VM3 only
- D. VM3 only

Correct Answer: B

Section: [none]

Explanation

Explanation/Preference:

Explanation:

Your key vault and VMs must reside in the same Azure region and subscription.

References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/disk-encryption-overview>

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.

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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

Humongous Insurance is an insurance company that has three offices in Miami, Tokyo and Bangkok. Each office has 5,000 users.

Existing Environment

Active Directory Environment

Humongous Insurance has a single-domain Active Directory forest named humongousinsurance.com. The functional level of the forest is Windows Server 2012.

You recently provisioned an Azure Active Directory (Azure AD) tenant.

Network Infrastructure

Each office has a local data center that contains all the servers for that office. Each office has a dedicated connection to the Internet.

Each office has several link load balancers that provide access to the servers.

Active Directory Issue

Several users in humongousinsurance.com have UPNs that contain special characters.

You suspect that some of the characters are unsupported in Azure AD.

Licensing Issue

You attempt to assign a license in Azure to several users and receive the following error message: "Licenses not assigned. License agreement failed for one user."

You verify that the Azure subscription has the available licenses.

Requirements

Planned Changes

Humongous Insurance plans to open a new office in Paris. The Paris office will contain 1,000 users who will be hired during the next 12 months. All the resources used by the Paris office users will be hosted in Azure.

Planned Azure AD Infrastructure

The on-premises Active Directory domain will be synchronized to Azure AD.

All client computers in the Paris office will be joined to an Azure AD domain.

Planned Azure Networking Infrastructure

You plan to create the following networking resources in a resource group named All_Resources:

- Default Azure system routes that will be the only routes used to route traffic
- A virtual network named Paris-VNet that will contain two subnets named Subnet1 and Subnet2
- A virtual network named ClientResources-VNet that will contain one subnet named ClientSubnet
- A virtual network named AllOffices-VNet that will contain two subnets named Subnet3 and Subnet4

You plan to enable peering between Paris-VNet and AllOffices-VNet. You will enable the **Use remote gateways** setting for the Paris-VNet peerings.

You plan to create a private DNS zone named humongousinsurance.local and set the registration network to the ClientResources-VNet virtual network.

Planned Azure Computer Infrastructure

Each subnet will contain several virtual machines that will run either Windows Server 2012 R2, Windows Server 2016, or Red Hat Linux.

Department Requirements

Humongous Insurance identifies the following requirements for the company's departments:

- Web administrators will deploy Azure web apps for the marketing department. Each web app will be added to a separate resource group. The initial configuration of the web apps will be identical. The web administrators have permission to deploy web apps to resource groups.
- During the testing phase, auditors in the finance department must be able to review all Azure costs from the past week.

Authentication Requirements

Users in the Miami office must use Azure Active Directory Seamless Single Sign-on (Azure AD Seamless SSO) when accessing resources in Azure.

QUESTION 1

You need to prepare the environment to meet the authentication requirements.

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

NOTE: Each correct selection is worth one point.

- A. Allow inbound TCP port 3080 to the domain controllers in the Miami office
- B. Install Azure AD Connect on a server in the Miami office and enable Pass-through Authentication
- C. Install the Active Directory Federation Services (AD FS) role on a domain controller in the Miami office
- D. Join the client computers in the Miami office to Azure AD
- E. Add <http://autologon.microsoftazuread-sso.com> to the intranet zone of each client computer in the Miami office.

Correct Answer: BE

Section: [none]

Explanation

Explanation/Reference:

Explanation:

B: Seamless SSO works with any method of cloud authentication - Password Hash Synchronization or Pass-

through Authentication, and can be enabled via Azure AD Connect.

E: You can gradually roll out Seamless SSO to your users. You start by adding the following Azure AD URL to all or selected users' Intranet zone settings by using Group Policy in Active Directory: <https://autologon.microsoftazuread-sso.com>

Incorrect Answers:

A: Azure AD connect does not port 8080. It uses port 443.

C: Seamless SSO is not applicable to Active Directory Federation Services (ADFS).

D: Seamless SSO needs the user's device to be domain-joined, but doesn't need for the device to be Azure AD Joined.

Scenario: Users in the Miami office must use Azure Active Directory Seamless Single Sign on (Azure AD Seamless SSO) when accessing resources in Azure.

Planned Azure AD Infrastructure include: The on-premises Active Directory domain will be synchronized to Azure AD.

References:

<https://docs.microsoft.com/en-us/azure/active-directory/connect/active-directory-aadconnect-sso-quick-start>

QUESTION 2

Which blade should you instruct the finance department auditors to use?

- A. Partner information
- B. Cost analysis
- C. Resource providers
- D. Invoices

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

Explanation:

You can opt in and configure additional recipients to receive your Azure invoice in an email. This feature may not be available for certain subscriptions, such as support offers, Enterprise Agreements, or Azure in Open.

1. Select your subscription from the Subscriptions page. Opt-in for each subscription you own. Click Invoices then Email my invoice.

The screenshot shows the Microsoft Azure Pay-As-You-Go - Invoices interface. The left sidebar has sections for Overview, Access control (IAM), Diagnose and solve problems, BILLING (Invoices, Cost analysis, External services). The main area shows a table of invoices with columns: BILLING PERIOD, CHARGE DATE, AMOUNT (USD), and INVOICE. A message at the top says "Amount excludes non-Microsoft services." and a search bar says "Search to filter items...".

BILLING PERIOD	CHARGE DATE	AMOUNT (USD)	INVOICE
12/12/2016-1/11/2017	1/18/2017	0.00	Not available
11/12/2016-12/11/2016	12/18/2016	0.00	Not available
10/12/2016-11/11/2016	11/18/2016	0.00	Not available
9/12/2016-10/11/2016	10/18/2016	0.00	Not available
8/12/2016-9/11/2016	9/18/2016	0.00	Not available

2. Click Opt in and accept the terms.

Scenario: During the testing phase, auditors in the finance department must be able to review all Azure costs from the past week.

References:

<https://docs.microsoft.com/en-us/azure/billing/billing-download-azure-invoice-daily-usage-date>

Testlet 3

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.

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To start the case study

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Overview

Contoso, Ltd. is a consulting company that has a main office in Montreal and two branch offices in Seattle and New York.

The Montreal office has 2,000 employees. The Seattle office has 1,000 employees. The New York office has 200 employees.

All the resources used by Contoso are hosted on-premises.

Contoso creates a new Azure subscription. The Azure Active Directory (Azure AD) tenant uses a domain named contoso.onmicrosoft.com. The tenant uses the P1 pricing tier.

Existing Environment

The network contains an Active Directory forest named contoso.com. All domain controllers are configured as DNS servers and host the contoso.com DNS zone.

Contoso has finance, human resources, sales, research, and information technology departments. Each department has an organizational unit (OU) that contains all the accounts of that respective department. All the user accounts have the **Department** attribute set to their respective department. New users are added frequently.

Contoso.com contains a user named User1.

All the offices connect by using private links.

Contoso has data centers in the Montreal and Seattle offices. Each data center has a firewall that can be configured as a VPN device.

All infrastructure servers are virtualized. The virtualization environment contains the servers in the following table.

Name	Role	Contains virtual machine
Server1	VMWare vCenter server	VM1
Server2	Hyper-V-host	VM2

Contoso uses two web applications named App1 and App2. Each instance on each web application requires 1GB of memory.

The Azure subscription contains the resources in the following table.

Name	Type
VNet1	Virtual network
VM3	Virtual machine
VM4	Virtual machine

The network security team implements several network security groups (NSGs).

Planned Changes

Contoso plans to implement the following changes:

- Deploy Azure ExpressRoute to the Montreal office.
- Migrate the virtual machines hosted on Server1 and Server2 to Azure.
- Synchronize on-premises Active Directory to Azure Active Directory (Azure AD).
- Migrate App1 and App2 to two Azure web apps named WebApp1 and WebApp2.

Technical requirements

Contoso must meet the following technical requirements:

- Ensure that WebApp1 can adjust the number of instances automatically based on the load and can scale up to five instances.
- Ensure that VM3 can establish outbound connections over TCP port 8080 to the applications servers in the Montreal office.
- Ensure that routing information is exchanged automatically between Azure and the routers in the Montreal office.
- Ensure Azure Multi-Factor Authentication (MFA) for the users in the finance department only.
- Ensure that webapp2.azurewebsites.net can be accessed by using the name app2.contoso.com
- Connect the New York office to VNet1 over the Internet by using an encrypted connection.
- Create a workflow to send an e-mail message when the settings of VM4 are modified.
- Create a custom Azure role named Role1 that is based on the Reader role.
- Minimize costs whenever possible.

QUESTION 1

You need to recommend a solution to automate the configuration for the finance department users. The solution must meet the technical requirements.

What should you include in the recommendation?

- A. an Azure logic app and the Microsoft Identity Management (MIM) client
- B. Azure AD Identity Protection
- C. dynamic groups and conditional access policies
- D. Azure AD B2C

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Scenario: Ensure Azure Multi-Factor Authentication (MFA) for the users in the finance department only.

The recommendation is to use conditional access policies that can then be targeted to groups of users, specific applications, or other conditions.

References:

<https://docs.microsoft.com/en-us/azure/active-directory/authentication/howto-mfa-userstates>

QUESTION 2

HOTSPOT

You need to prepare the environment to implement the planned changes for Server2.

What should you do? 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:

Box 1: Create a Recovery Services vault

Create a Recovery Services vault on the Azure Portal.

Box 2: Install the Azure Site Recovery Provider

Azure Site Recovery can be used to manage migration of on-premises machines to Azure.

Scenario: Migrate the virtual machines hosted on Server1 and Server2 to Azure.

Server2 has the Hyper-V host role.

References:

<https://docs.microsoft.com/en-us/azure/site-recovery/migrate-tutorial-on-premises-azure>

QUESTION 3

You discover that VM3 does **NOT** meet the technical requirements.

You need to verify whether the issue relates to the NSGs.

What should you use?

- A. Diagram in VNet1
- B. Diagnostic settings in Azure Monitor
- C. IP flow verify in Azure Network Watcher
- D. Diagnose and solve problems in Traffic Manager profiles
- E. the security recommendations in Azure Advisor

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Scenario: Contoso must meet technical requirements including:

Ensure that VM3 can establish outbound connections over TCP port 8080 to the applications servers in the Montreal office.

IP flow verify checks if a packet is allowed or denied to or from a virtual machine. The information consists of direction, protocol, local IP, remote IP, local port, and remote port. If the packet is denied by a security group, the name of the rule that denied the packet is returned. While any source or destination IP can be chosen, IP flow verify helps administrators quickly diagnose connectivity issues from or to the internet and from or to the on-premises environment.

References:

<https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-ip-flow-verify-overview>

QUESTION 4

HOTSPOT

You need to implement Role1.

Which command should you run before you create Role1? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

- Name "Reader"	
Find-RoleCapability	ConvertFrom-Json
Get-AzureADDirectoryRole	ConvertFrom-String
Get-AzureRmRoleAssignment	ConvertTo-Json
Get-AzureRmRoleDefinition	ConvertTo-Xml

Correct Answer:

Answer Area

-Name "Reader"	
Find-RoleCapability	ConvertFrom-Json
Get-AzureADDirectoryRole	ConvertFrom-String
Get-AzureRmRoleAssignment	ConvertTo-Json
Get-AzureRmRoleDefinition	ConvertTo-Xml

Section: [none]

Explanation

Explanation/Reference:

Testlet 1

Case Study

Background

Best For You Organics Company is a global restaurant franchise that has multiple locations. The company wants to enhance user experiences and vendor integrations. The company plans to implement automated mobile ordering and delivery services.

Best For You Organics hosts an Azure web app at the URL <https://www.bestforyouorganics.com>. Users can use the web app to browse restaurant location, menu items, nutritional information, and company information. The company developed and deployed a cross-platform mobile app.

Requirements

Chatbot

You must develop a chatbot by using the Bot Builder SDK and Language Understanding Intelligence Service (LUIS). The chatbot must allow users to order food for pickup or delivery.

The chatbot must meet the following requirements:

- Ensure that chatbot is secure by using the Bot Framework connector.
- Use natural language processing and speech recognition so that users can interact with the chatbot by using text and voice. Processing must be server-based.
- Alert users about promotions at local restaurants.
- Enable users to place an order for delivery or pickup by using their voice.
- Greet the user upon sign-in by displaying a graphical interface that contains action buttons.
- The chatbot greeting interface must match the formatting of the following example:

Welcome to the Restaurant!



John Doe

Sun, Aug 26, 2018

Welcome to Best For You Organics Company!
How can we help you today?

Specials: Chicken Marsala

Order Pickup Order Delivery

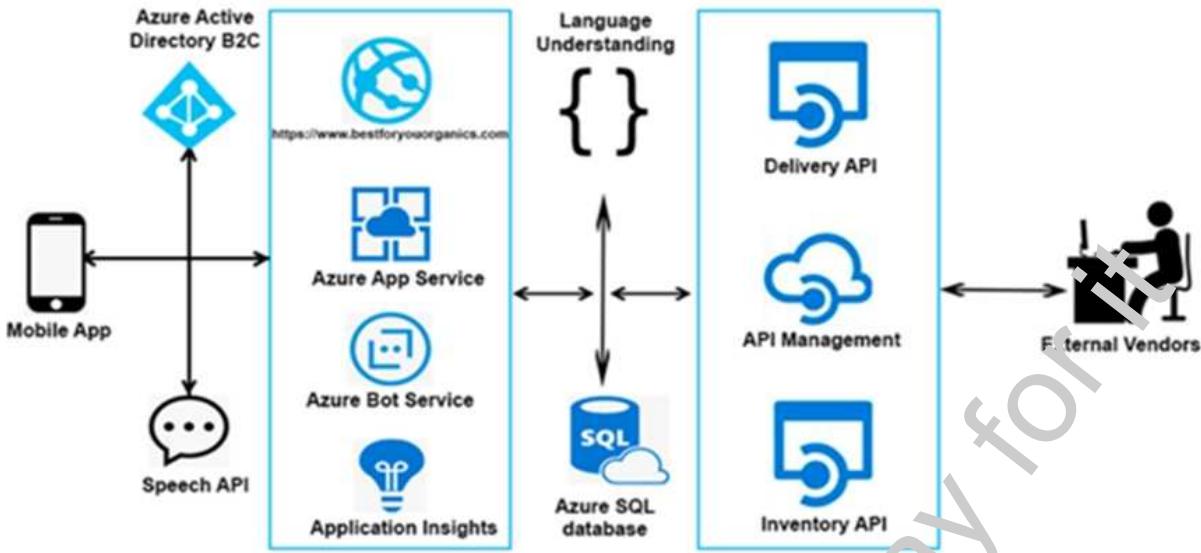
Vendor API

Vendors receive and provide updates for the restaurant inventory and delivery services by using Azure API Management hosted APIs. Each vendor uses their own subscription to access each of the APIs.

APIs must meet the following conditions:

- API usage must not exceed 5,000 calls and 50,000 kilobytes of bandwidth per hour per vendor.
- If a vendor is nearing the number of calls or bandwidth limit, the API must trigger email notifications to the vendor.
- API must prevent API usage spikes on a per-subscription basis by limiting the call rate to 100 calls per minute.
- The Inventory API must be written by using ASP.NET Core and Node.js.
- The API must be updated to provide an interface to Azure SQL Database objects must be managed by using code.
- The Delivery API must be protected by using the OAuth 2.0 protocol with Azure Active Directory (Azure AD) when called from the Azure web app. You register the Delivery API and web app in Azure AD. You enable OAuth 2.0 in the web app.
- The delivery API must update the Products table, the Vendor transactions table, and the Billing table in a single transaction.

The Best For You Organics Company architecture team has created the following diagram depicting the expected deployments into Azure:



Architecture

Issues

Delivery API

The Delivery API intermittently throws the following exception:

```
"System.Data.Entity.Core.EntityCommandExecutionException: An error occurred while
executing the command definition. See the inner exception for details. --
>System.Data.SqlClient.SqlException: A transport-level error has occurred when
receiving results from the server. (provider: Session Provider, error: 19 -
Physical connection is not usable)"
```

Chatbot greeting

The chatbot's greeting does not show the user's name. You need to debug the chatbot locally.

Language processing

Users report that the bot fails to understand when a customer attempts to order dishes that use Italian names.

App code

Relevant portions of the app files are shown below. Line numbers are included for reference only and include a two-character prefix that denotes the specific file to which they belong.

```
Startup.cs
SU01 namespace DeliveryApi
SU02 {
SU03     public class Startup
SU04     {
SU05         public Startup(IConfiguration configuration)
SU06         {
SU07             Configuration = configuration;
SU08         }
SU09         public IConfiguration Configuration { get; }
SU10         public void ConfigureServices(IServiceCollection services)
SU11         {
SU12             services.AddDbContext<RestaurantsContext>(opt =>
SU13                 opt.UseSqlServer(Configuration.GetSection("ConnectionStrings")
["RestaurantDatabase"]),
SU14                 sqlServerOptionsAction: sqlOptions =>
SU15                 {
SU16                     . .
SU17                 }));
SU18             services.AddMvc()
SU19                 .SetCompatibilityVersion(CompatibilityVersion.Version_2_1);
SU20         }
SU21         public void Configure(IApplicationBuilder app)
SU22         {
SU23             app.UseMvc();
SU24         }
SU25     }
SU26 }
```

QUESTION 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You need to meet the vendor notification requirement.

Solution: Update the Delivery API to send emails by using a Microsoft Office 365 SMTP server.

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-configure-notifications>

QUESTION 2

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You need to meet the vendor notification requirement.

Solution: Configure notifications in the Azure API Management instance.

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-configure-notifications>

QUESTION 3

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You need to meet the vendor notification requirement.

Solution: Update the Delivery API to send emails by using a cloud-based email service.

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-configure-notifications>

QUESTION 4

You need to meet the vendor notification requirement.

Solution: Create and apply a custom outbound Azure API Management policy.

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-configure-notifications>

QUESTION 5

You need to resolve the delivery API error.

What should you do?

- A. Implement simple retry by using the **EnableRetryOnFailure** feature of Entity Framework.
- B. Implement exponential backoff by using the **EnableRetryOnFailure** feature of Entity Framework.
- C. Implement a Circuit Breaker pattern by using the **EnableRetryOnFailure** feature of Entity Framework.
- D. Invoke a custom execution strategy in Entity Framework.

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-develop-error-messages>

QUESTION 6

You need to implement the purchase requirement.

What should you do?

- A. Use the Bot Framework REST API conversation operations to send the user's voice and the Speech Service API to recognize intents.
- B. Use the Direct Line REST API to send the user's voice and the Speech Service API to recognize intents.
- C. Use the Speech Service API to send the user's voice and the Bot Framework REST API conversation operations to recognize intents.
- D. Use the Bot Framework REST API attachment operations to send the user's voice and the Speech Service API to recognize intents.

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 7

You need to meet the security requirements.

What should you use?

- A. HTTP Strict Transport Security (HSTS)
- B. Direct Line API
- C. Multi-Factor Authentication (MFA)
- D. Bot Framework Portal
- E. Bot Framework authentication

Correct Answer: E

Section: [none]

Explanation

Explanation/Reference:

Question Set 2

QUESTION 1

Your company is developing an e-commerce Azure App Service Web App to support hundreds of restaurant locations around the world.

You are designing the messaging solution architecture to support the e-commerce transactions and messages. The e-commerce application has the following features and requirements:

Feature	Requirement
Shopping Cart	<ul style="list-style-type: none">Items in a shopping cart must be processed by an Azure Function within a specified number of minutes. Failure to process should move the items to a failed state for processing by a separate Azure FunctionShopping cart transactions must not be lost and fault conditions must be processed separatelyShopping cart transactions must be read by the inventory and sales systems for further processing
Inventory Distribution	<ul style="list-style-type: none">Items sent to the inventory system must run a separate workflow for each item that includes warehouse, shipping, and order processing updatesInventory uses Azure Blob storage to store inventory items and related informationInventory is processed by using an Azure Logic App
Restaurant Telemetry	<ul style="list-style-type: none">Restaurants stream millions of daily events from all locationsRestaurant data should be captured in Azure Blob storage for conditional processingRestaurant event data should expire after 24 hours

You need to choose the Azure messaging solution to support the Shopping Cart feature.

Which Azure service should you use?

- A. Azure Service Bus
- B. Azure Relay
- C. Azure Event Grid
- D. Azure Event Hub

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Microsoft Azure Service Bus is a fully managed enterprise integration message broker. Service Bus is most commonly used to decouple applications and services from each other, and is a reliable and secure platform for asynchronous data and state transfer.

One common messaging scenario is Messaging: transfer business data, such as sales or purchase orders, journals, or inventory movements.

Incorrect Answers:

B: The Azure Relay service enables you to securely expose services that run in your corporate network to the

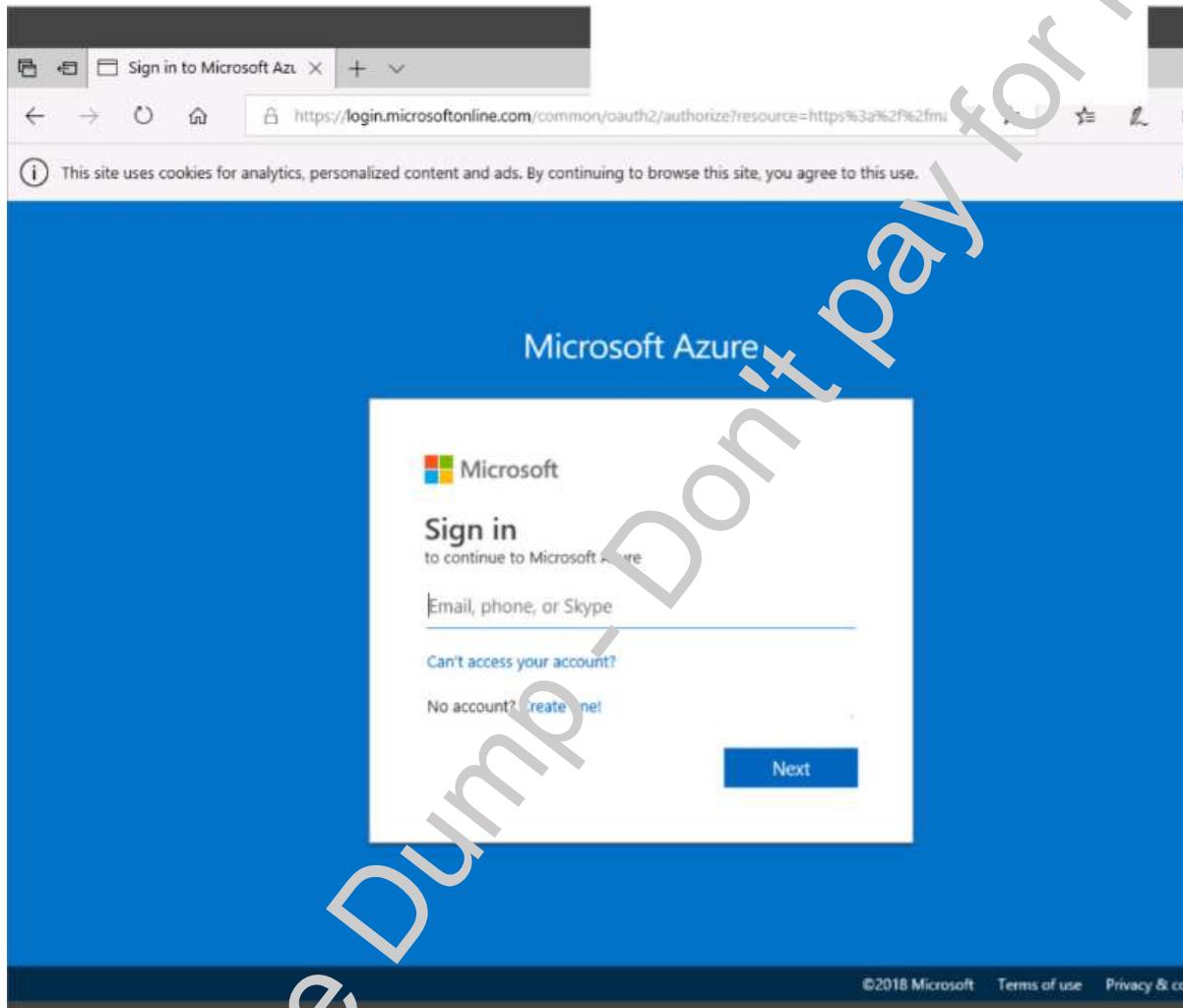
public cloud.

References:

<https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-messaging-overview>

QUESTION 2 SIMULATION

Click to expand each objective. To connect to the Azure portal, type <https://portal.azure.com> in the browser address bar.



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Subscription: Microsoft AZ-100-5
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RESOURCE	TYPE	STATUS	OPERATION
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To start the lab

You may start the lab by clicking the Next button.

You need to create a function app named corp10217507n1 that supports sticky sessions. The solution must minimize the Azure-related costs of the App Service plan.

What should you do from the Azure portal?

Correct Answer: See explanation below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Step 1:

Select the New button found on the upper left-hand corner of the Azure portal, then select Compute > Function App.

Step 2:

Use the function app settings as listed below.

App name: corp10217507n1

Hosting plan: Azure App Service plan (required for sticky sessions)

Pricing tier of the App Service plan: Shared compute: Free

Step 3:

Select Create to provision and deploy the function app.

References:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-create-function-app-portal>

QUESTION 3

SIMULATION

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To start the lab

You may start the lab by clicking the Next button.

You need to create a web app named corp10217507n2 that can be scaled horizontally. The solution must use the lowest possible pricing tier for the App Service plan.

What should you do from the Azure portal?

Correct Answer: See explanation below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Step 1:

In the Azure Portal, click Create a resource > Web + Mobile > Web App.

Step 2:

Use the Webb app settings as listed below.

Web App name: corp10217507n2

Hosting plan: Azure App Service plan

Pricing tier of the Pricing Tier: Standard

Change your hosting plan to Standard, you can't setup auto-scaling below standard tier.

Step 3:

Select Create to provision and deploy the Web app.

References:

<https://docs.microsoft.com/en-us/azure/app-service/environment/app-service-web-how-to-create-a-web-app-in-an-ase>

<https://azure.microsoft.com/en-us/pricing/details/app-service/plans/>

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SIMULATION

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To start the lab

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You need to deploy an application gateway named appgw1015 to meet the following requirements:

- Load balance internal IP traffic to the Azure virtual machines connected to subnet0.

- Provide a Service Level Agreement (SLA) of 99,99 percent availability for the Azure virtual machines.

What should you do from the Azure portal?

Correct Answer: See explanation below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Step 1:

Click New found on the upper left-hand corner of the Azure portal.

Step 2:

Select Networking and then select Application Gateway in the Featured list.

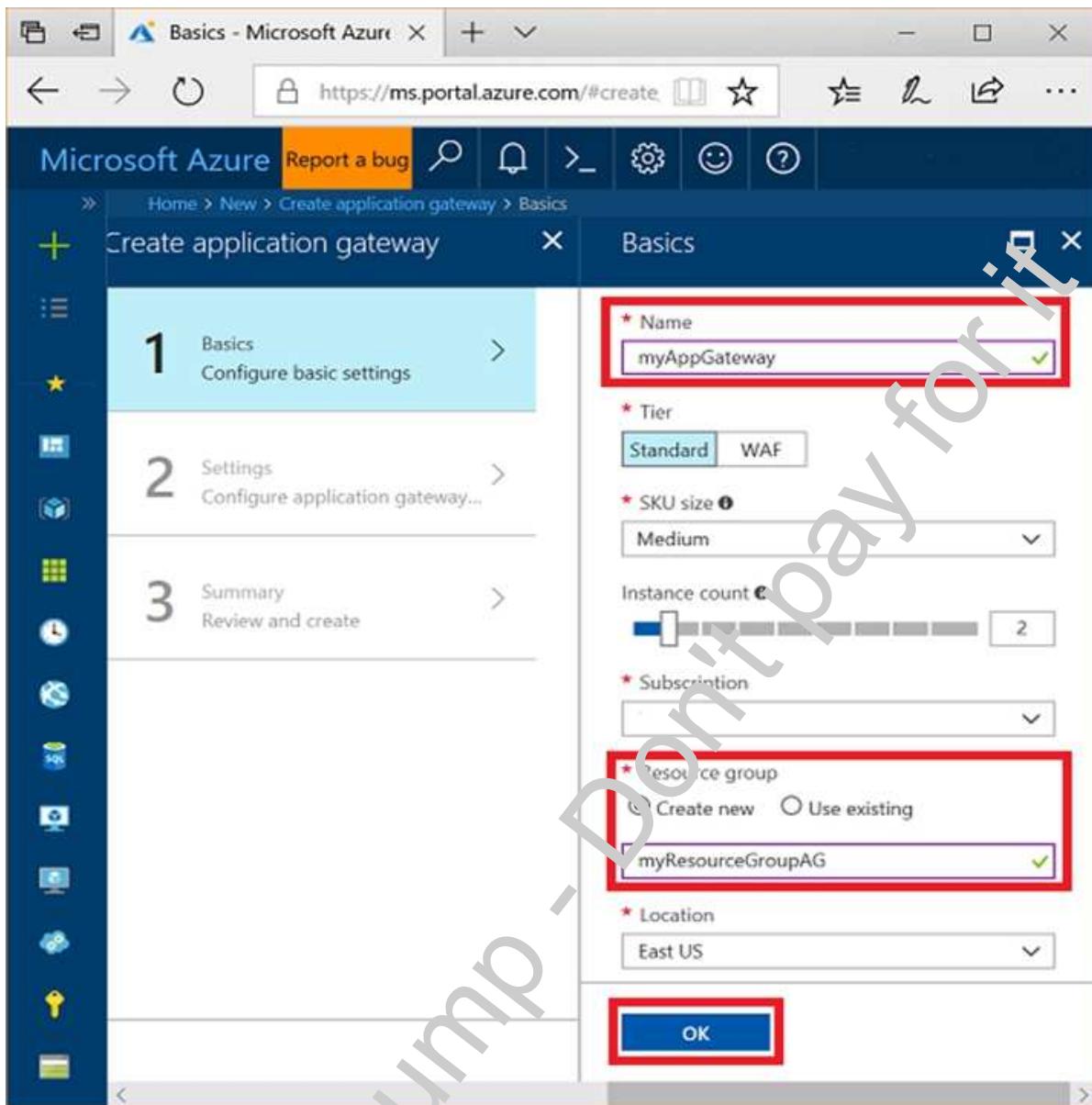
Step 3:

Enter these values for the application gateway:

appgw1015 - for the name of the application gateway.

SKU Size: Standard_V2

The new SKU [Standard_V2] offers autoscaling and other critical performance enhancements.



Step 4:

Accept the default values for the other settings and then click OK.

Step 5:

Click Choose a virtual network, and select subnet0.

References:

<https://docs.microsoft.com/en-us/azure/application-gateway/application-gateway-create-gateway-portal>

QUESTION 5 SIMULATION

Click to expand each objective. To connect to the Azure portal, type https://portal.azure.com in the browser address bar.



Microsoft Azure

Dashboard - Microsoft · X +

← → ⏪ ⏩ ⏴ ⏵

https://portal.azure.com/#@plteamsponsorautolookmicrosoft.com/dashboard/private/B

Search resources, services, and docs

User-7523691@Exa

Create a resource

All services

Favourites

Dashboard

All resources

Resource groups

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directory

Monitor

Advisor

Security Center

Cost Management + Bill...

All resources

Dashboard

...

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Virtual machines, SQL Server, SharePoint VMs

Linux Virtual Machines

Ubuntu, Red Hat, CentOS, SUSE, CoreOS VMs

App Service

Create Web Apps using .NET, Java, Node.js, Python, PHP

Functions

Process events with a serverless code architecture

SQL Database

Service Health

Marketplace

The screenshot shows the Microsoft Azure portal's main dashboard. At the top left is the 'Create a resource' button. Below it are sections for 'Favourites' (Dashboard, All resources, Resource groups, App Services, Function Apps, SQL databases, Azure Cosmos DB, Virtual machines, Load balancers, Storage accounts, Virtual networks, Azure Active Directory, Monitor, Advisor, Security Center, Cost Management + Bill...), 'All resources' (Dashboard, ...), and 'Quickstarts + tutorials' (Windows Virtual Machines, Linux Virtual Machines, App Service, Functions, SQL Database). At the bottom are 'Service Health' and 'Marketplace' buttons.

Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Free Dump, Don't pay for it

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)
Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

Free Dump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)

«

 Overview

 Outputs

 Inputs

 Template

 Delete

 Cancel

 Redeploy

 Refresh

Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.



Deployment
name: Microsoft.StorageAccount-
20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 5:04:06 AM
Duration: 17 seconds
Correlation ID: bdd06a4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Ubuntu Server 18.04 LTS

by Canonical

[Terms of use](#) | [Privacy policy](#)

Standard D2s v3

by Microsoft

[Terms of use](#) | [Privacy policy](#)

Pricing not available for this offering

View [Pricing details](#) for more information.

Subscription credits apply

0.0960 USD/hr

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TERMS

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When you are finished performing all the tasks, click the 'Next' button.

Note that you cannot return to the lab once you click the 'Next' button. Scoring occurs in the background while you complete the rest of the exam.

Overview

The following section of the exam is a lab. In this section, you will perform a set of tasks in a live environment. While most functionality will be available to you as it would be in a live environment, some functionality (e.g., copy and paste, ability to navigate to external websites) will not be possible by design.

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Please note that once you submit your work by clicking the Next button within a lab, you will NOT be able to return to the lab.

To start the lab

You may start the lab by clicking the Next button.

You need to deploy an Azure load balancer named ib1016 to your Azure subscription. The solution must meet the following requirements:

- Support the load balancing of IP traffic from the Internet to Azure virtual machines connected to VNET1016 \subnet0.
- Provide a Service Level Agreement (SLA) of 99.99 percent availability for the Azure virtual machines.
- Minimize Azure-related costs.

What should you do from the Azure portal?

To complete this task, you do NOT need to wait for the deployment to complete. Once the deployment starts in Azure, you can move to the next task.

Correct Answer: See explanation below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Step 1:

On the top left-hand side of the screen, click Create a resource > Networking > Load Balancer.

Step 2:

In the Create a load balancer page enter these values for the load balancer:

myLoadBalancer - for the name of the load balancer.

Internal - for the type of the load balancer.

Basic - for SKU version.

Microsoft guarantees that apps running in a customer subscription will be available 99.99% of the time.

VNET1016\subnet0 - for subnet that you choose from the list of existing subnets.

Step 3: Accept the default values for the other settings and click Create to create the load balancer.

QUESTION 6

Your company is developing an e-commerce Azure App Service Web App to support hundreds of restaurant locations around the world.

You are designing the messaging solution architecture to support the e-commerce transactions and messages. The solution will include the following features.

Feature	Requirement
Shopping Cart	<ul style="list-style-type: none"> • Items in a shopping cart must be processed by an Azure Function within a specified number of minutes. Failure to process should move the items to a failed state for processing by a separate Azure Function • Shopping cart transactions must not be lost and fault conditions must be processed separately • Shopping cart transactions must be read by the inventory and sales systems for further processing
Inventory Distribution	<ul style="list-style-type: none"> • Items sent to the inventory system must run a separate workflow for each item that includes warehouse, shipping, and order processing updates • Inventory uses Azure Blob storage to store inventory items and related information • Inventory is processed by using an Azure Logic App
Restaurant Telemetry	<ul style="list-style-type: none"> • Restaurants stream millions of daily events from all locations • Restaurant data should be captured in Azure Blob storage for conditional processing • Restaurant event data should expire after 24 hours

You need to design a solution for the Inventory Distribution feature.

Which Azure service should you use?

- A. Azure Service Bus
- B. Azure Relay
- C. Azure Event Grid
- D. Azure Event Hub

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Microsoft Azure Service Bus is a fully managed enterprise integration message broker. Service Bus is most commonly used to decouple applications and services from each other, and is a reliable and secure platform for asynchronous data and state transfer.

One common messaging scenario is Messaging: transfer business data, such as sales or purchase orders, journals, or inventory movements.

Incorrect Answers:

B: The Azure Relay service enables you to securely expose services that run in your corporate network to the public cloud.

Reference:

<https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-messaging-overview>

QUESTION 7

You are responsible for mobile app development for a company. The company develops apps on Windows Mobile, IOS, and Android.

You plan to integrate push notifications into every app.

You need to be able to send users alerts from a backend server.

Which two options can you use to achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Azure Web App
- B. Azure Mobile App Service
- C. Azure SQL Database
- D. Azure Notification Hubs
- E. a virtual machine

Correct Answer: BD

Section: [none]

Explanation

Explanation/Reference:

Explanation:

The Mobile Apps client enables you to register for push notifications with Azure Notification Hubs.

The following platforms are supported:

- Xamarin Android releases for API 19 through 24 (KitKat through Nougat)
- Xamarin iOS releases for iOS versions 8.0 and later
- Universal Windows Platform
- Windows Phone 8.1
- Windows Phone 8.0 except for Silverlight applications

References:

<https://docs.microsoft.com/en-us/azure/app-service-mobile/app-service-mobile-dotnet-how-to-use-client-library>

QUESTION 8

HOTSPOT

You are developing an Azure Function that will be triggered using a webhook from an external application. The Azure Function will receive JSON data in the body of the request.

Calling applications send an account ID as part of the URL. The number at the end of the URL is an integer. The format for the URL resembles the following: /api/account/1

The Azure Function must accept all incoming requests without requiring keys or tokens.

You need to complete the attributes for the Azure Function.

How should you complete the code? 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:

QUESTION 9

HOTSPOT

You are developing a workflow solution using Azure technologies.

What should you implement to meet each requirement? 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:

QUESTION 10

HOTSPOT

You are developing a SMS-based testing solution. The solution sends users a question by using SMS. Early responders may qualify for prizes.

Users must respond with an answer choice within 90 seconds. You must be able to track how long it takes each user to respond. You create a durable Azure Function named SendSmsQuizQuestion that uses Twilio to send messages.

You need to write the code for MessageQuiz.

How should you complete the code? 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:

QUESTION 11

HOTSPOT

You are developing a solution that requires serverless code execution in Azure.

The solution has two functions that must run in a specific order.

You need to ensure that the second function can use the output from the first function.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
public static async Task<object> Run( c)
{
    try
    {
        var f1Result = await c. <object>("AzureFunction01", null);
        CallActivityAsync
        CallSubOrchestratorAsync
        WaitForExternalEvent
    }
    return await c. <object>("AzureFunction02", f1Result);
    CallActivityAsync
    CallSubOrchestratorAsync
    WaitForExternalEvent
}
catch(Exception e)
{
    ...
}
```

DurableOrchestrationContext
DurableActivityContext
DurableOrchestrationClient
DurableOrchestrationStatus

c)

Correct Answer:

Answer Area

```
public static async Task<object> Run( c)
{
    try
    {
        var f1Result = await c. <object>("AzureFunction01", null);
        CallActivityAsync
        CallSubOrchestratorAsync
        WaitForExternalEvent
    }
    return await c. <object>("AzureFunction02", f1Result);
    CallActivityAsync
    CallSubOrchestratorAsync
    WaitForExternalEvent
}
catch(Exception e)
{
    ...
}
```

DurableOrchestrationContext
DurableActivityContext
DurableOrchestrationClient
DurableOrchestrationStatus

c)

Section: [none]
Explanation

Explanation/Reference:

QUESTION 12

You are developing an app that references data which is sharded across multiple Azure SQL databases.

The app must guarantee transactional consistency for changes across several different sharding key values.

You need to manage the transactions.

What should you implement?

- A. Elastic database transactions with horizontal partitioning.
- B. Distributed transactions coordinated by Microsoft Distributed Transaction Coordinator (MSDTC)
- C. Server-coordinated transactions from .NET application.
- D. Elastic database transactions with vertical partitioning.

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/mt-ml/azure/sql-database/sql-database-elastic-transactions-overview?view=azurermps-6.13.0>

QUESTION 13

HOTSPOT

You are creating a bot for a company by using QnA Maker.

You need to ensure that the company can update the bot without third-party assistance.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Scenario

Add customer question/answer content.

Use an Azure Application Insights resource for analytics.

Update and train a knowledge base.

Component

QnA Maker runtime	<input checked="" type="checkbox"/>
QnA Maker management service.	<input type="checkbox"/>
QnA Maker runtime	<input checked="" type="checkbox"/>
QnA Maker management service.	<input type="checkbox"/>
QnA Maker runtime	<input checked="" type="checkbox"/>
QnA Maker management service.	<input type="checkbox"/>

Correct Answer:

Answer Area

Scenario	Component
Add customer question/answer content.	<input checked="" type="checkbox"/> QnA Maker runtime <input checked="" type="checkbox"/> QnA Maker management service.
Use an Azure Application Insights resource for analytics.	<input checked="" type="checkbox"/> QnA Maker runtime <input checked="" type="checkbox"/> QnA Maker management service.
Update and train a knowledge base.	<input checked="" type="checkbox"/> QnA Maker runtime <input checked="" type="checkbox"/> QnA Maker management service.

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/overview/overview>

QUESTION 14

You are developing a speech-enabled home automation control bot.

The bot interprets some spoken words incorrectly.

You need to improve the spoken word recognition for the bot.

What should you implement?

- A. The Skype for Business Channel and use scoreable dialogs for improving conversation flow.
- B. The Web Chat Channel and Speech priming using a Bing Speech Service and LUIS app.
- C. The Skype Channel and use scoreable dialogs for improving conversation flow.
- D. The Cortana Channel and use scoreable dialogs for improving conversation flow.

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 15

DRAG DROP

Your company develops a bot that uses QnA Maker knowledge bases and Language Understanding Intelligence Services (LUIS). You create the QnA Maker service, knowledge bases, and the LUIS app.

The bot application must use LUIS to determine which QnA Maker knowledge base to use.

You need to integrate LUIS with the QnA Maker knowledge bases and maximize the effectiveness for selecting the QnA Maker knowledge bases before testing the bot.

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:

Actions	Answer Area
Configure the bot app to link LUIS app intents to the knowledge bases.	
Create utterances for the LUIS app that correspond to the knowledge bases.	
Create intents for the LUIS app that correspond to knowledge bases.	
Publish the LUIS application.	
Configure the bot app to link LUIS app entities to the knowledge bases.	
Create entities for the LUIS app that correspond to the knowledge bases.	
Train the LUIS application.	

Correct Answer:

Actions	Answer Area
Configure the bot app to link LUIS app intents to the knowledge bases.	
Create utterances for the LUIS app that correspond to the knowledge bases.	
Create intents for the LUIS app that correspond to knowledge bases.	
Publish the LUIS application.	
Configure the bot app to link LUIS app entities to the knowledge bases.	
Create entities for the LUIS app that correspond to the knowledge bases.	
Train the LUIS application.	

Section: [none]

Explanation

Explanation/Reference:

QUESTION 16
HOTSPOT

You create a virtual machine scale set named Scale1. Scale1 is configured as shown in the following exhibit.

INSTANCES

* Instance count ✓

* Instance size
1 vcpu, 3.5 GB memory
[Change size](#)

Deploy as low priority No Yes

INFO Low priority is not available for the selected instance size

Use managed disks No Yes

+ Show advanced settings

AUTOSCALE

Autoscale Disabled Enabled

* Minimum number of VMs ✓

* Maximum number of VMs ✓

Scale out

* CPU threshold (%) ✓

* Number of VMs to increase by ✓

Scale in

* CPU threshold (%) ✓

* Number of VMs to decrease by ✓

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:

Answer Area

If Scale1 is utilized at 85 percent for six minutes, Scale1 will be running [answer choice].

2 virtual machines
4 virtual machines
6 virtual machines
10 virtual machines
20 virtual machines

If Scale1 is first utilized at 25 percent for six minutes, and then utilized at 50 percent for six minutes, Scale1 will be running [answer choice].

2 virtual machines
4 virtual machines
6 virtual machines
8 virtual machines
10 virtual machines

Correct Answer:

Answer Area

If Scale1 is utilized at 85 percent for six minutes, Scale1 will be running [answer choice].

2 virtual machines
4 virtual machines
6 virtual machines
10 virtual machines
20 virtual machines

If Scale1 is first utilized at 25 percent for six minutes, and then utilized at 50 percent for six minutes, Scale1 will be running [answer choice].

2 virtual machines
4 virtual machines
6 virtual machines
8 virtual machines
10 virtual machines

Section: [none]
Explanation:

Explanation/Reference:
Explanation:

Box 1:

The Autoscale scale out rule increases the number of VMs by 2 if the CPU threshold is 80% or higher. The initial instance count is 4 and rises to 6 when the 2 extra instances of VMs are added.

Box 2:

The Autoscale scale in rule decreases the number of VMs by 4 if the CPU threshold is 30% or lower. The initial instance count is 4 and thus cannot be reduced to 0 as the minimum instances is set to 2. Instances are only added when the CPU threshold reaches 80%.

References:

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/autoscale-overview>

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/autoscale-best-practices>

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/autoscale-common-scale-patterns>

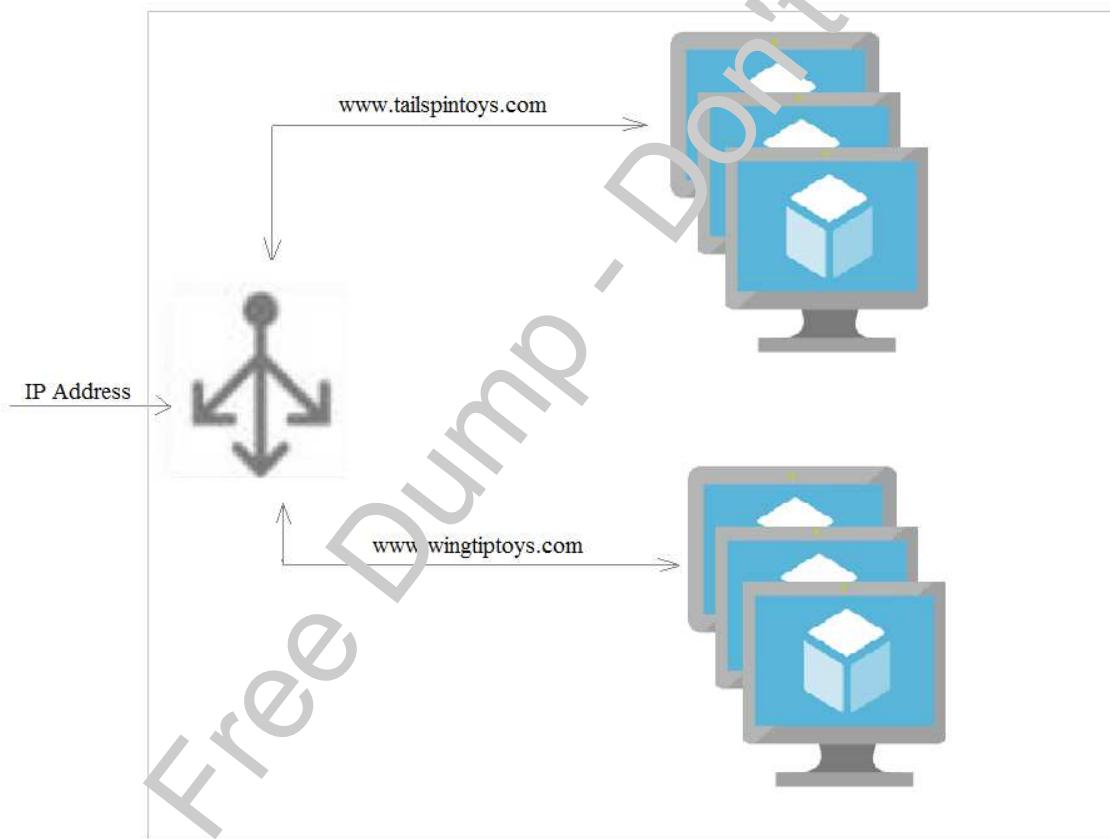
QUESTION 17

HOTSPOT

Your company hosts multiple website by using Azure virtual machine scale sets (VMSS) that run Internet Information Server (IIS).

All network communications must be secured by using end to end Secure Socket Layer (SSL) encryption. User sessions must be routed to the same server by using cookie-based session affinity.

The image shown depicts the network traffic flow for the web sites to the VMSS.



Use the drop-down menus to select the answer choice that answers each question.

NOTE: Each correct selection is worth one point.

Hot Area:

Correct Answer:

Section: [none]

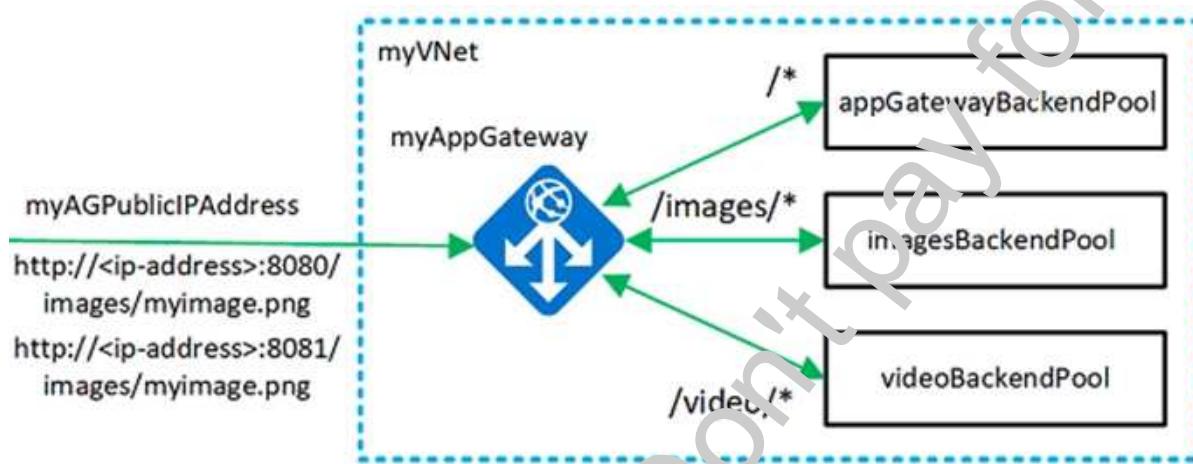
Explanation

Explanation/Reference:

Explanation:

Box 1: Public

The following example shows site traffic coming from both ports 8080 and 8081 and being directed to the same backend pools.



Box 2: Application Gateway

You can create an application gateway with URL path-based redirection using Azure PowerShell.

Box 3: Path-based redirection and Websockets

References:

<https://docs.microsoft.com/en-us/azure/application-gateway/tutorial-url-redirect-powershell>

QUESTION 18 SIMULATION

Click to expand each objective. To connect to the Azure portal, type `https://portal.azure.com` in the browser address bar.



Microsoft Azure

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https://portal.azure.com/#@plteamsponsorautolookmicrosoft.com/dashboard/private/B

Search resources, services, and docs

User-7523691@Exa

Create a resource

All services

Favourites

Dashboard

All resources

Resource groups

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directory

Monitor

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Cost Management + Bill...

All resources

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...

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Virtual machines, SQL Server, SharePoint VMs

Linux Virtual Machines

Ubuntu, Red Hat, CentOS, SUSE, CoreOS VMs

App Service

Create Web Apps using .NET, Java, Node.js, Python, PHP

Functions

Process events with a serverless code architecture

SQL Database

Service Health

Marketplace

The screenshot shows the Microsoft Azure portal's main dashboard. At the top, there's a navigation bar with icons for back, forward, search, and user information. Below it is a sidebar with a 'Create a resource' button and a 'Favourites' section containing links to Dashboard, All resources, Resource groups, App Services, Function Apps, SQL databases, Azure Cosmos DB, Virtual machines, Load balancers, Storage accounts, Virtual networks, Azure Active Directory, Monitor, Advisor, Security Center, and Cost Management + Bill... The main content area features a banner for 'Azure getting started made easy!' with links to Windows and Linux virtual machines, App Service, Functions, and SQL Database. Below the banner are sections for 'Quickstarts + tutorials' and 'Marketplace'.

Create storage account

✓ Validation passed

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Create

Previous

Next

Download a template for automation

Free Dump, Don't pay for it

Create storage account

Submitting the deployment template for resource
'corpdatalod7523690'.

Basics Advanced Tags Review + create

BASICS

Subscription

Resource group

Location

Storage account name

Deployment model

Account kind

Replication

Performance

Access tier (default)

ADVANCED

Secure transfer required

Hierarchical namespace

Microsoft.AZ-100 5
corpdatalod7523690

East US

corpdatalod7523690n1

Resource manager

StorageV2 (general purpose v2)

Read-access geo-redundant store
(RA-GRS)

Standard

Hot

Enabled

Disabled

FreeDump - Don't pay for it

Microsoft.StorageAccount-20181011170335 - Overview

Deployment

 Search (Ctrl+)

«

 Overview

 Outputs

 Inputs

 Template

 Delete

 Cancel

 Redeploy

 Refresh

Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.



Deployment
name: Microsoft.StorageAccount-
20181011170335
Subscription: Microsoft AZ-100-5
Resource group: corpdatashdr-20181011170335

DEPLOYMENT DETAILS (Download)

Start time: 10/11/2018 5:04:06 AM
Duration: 17 seconds
Correlation ID: bdd06a4-d1bd-42cb-be6b-
55e0ec38f49b

RESOURCE	TYPE	STATUS	OPERATION
No results.			

Create a virtual machine



Validation failed. Required information is missing or not valid.

Basics • Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Ubuntu Server 18.04 LTS

by Canonical

[Terms of use](#) | [Privacy policy](#)

Standard D2s v3

by Microsoft

[Terms of use](#) | [Privacy policy](#)

Pricing not available for this offering

[View Pricing details](#) for more information.

Subscription credits apply

0.0960 USD/hr

[Pricing for other VM sizes](#)

TERMS

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Please note that once you submit your work by clicking the Next button within a lab, you will NOT be able to return to the lab.

To start the lab

You may start the lab by clicking the Next button.

You need to create a virtual network named VNET1008 that contains three subnets named subnet0, subnet1, and subnet2. The solution must meet the following requirements:

- Connections from any of the subnets to the Internet must be blocked
- Connections from the Internet to any of the subnets must be blocked
- The number of network security groups (NSGs) and NSG rules must be minimized

What should you do from the Azure portal?

Correct Answer: See solution below.

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Step 1: Click Create a resource in the portal.

Step 2: Enter Virtual network in the Search the Marketplace box at the top of the New pane that appears. Click Virtual network when it appears in the search results.

Step 3: Select Classic in the Select a deployment model box in the Virtual Network pane that appears, then click Create.

Step 4: Enter the following values on the Create virtual network (classic) pane and then click Create:

Name:	VNET1008
Address space:	10.0.0.0/16
Subnet name:	subnet0
Resource group:	Create new
Subnet address range:	10.0.0.0/24
Subscription and location:	Select your subscription and location.

Step 5: In the portal, you can create only one subnet when you create a virtual network. Click Subnets (in the SETTINGS section) on the Create virtual network (classic) pane that appears.

Click +Add on the VNET1008 - Subnets pane that appears

Step 6: Enter subnet1 for Name on the Add subnet pane. Enter 10.0.1.0/24 for Address range. Click OK.

Step 7: Create the third subnet: Click +Add on the VNET1008 - Subnets pane that appears. Enter subnet2 for Name on the Add subnet pane. Enter 10.0.2.0/24 for Address range. Click OK.

References:

<https://docs.microsoft.com/en-us/azure/virtual-network/create-virtual-network-classic>

QUESTION 19

A company is migrating an existing on-premises third-party website to Azure. The website is stateless.

The company does not have access to the source code for the website. They do not have the original installer.

The number of visitors to the website varies throughout the year. The on-premises infrastructure was resized to accommodate peaks but the extra capacity was not used.

You need to implement a virtual machine scale set instance.

What should you do?

- A. Use an autoscale setting to scale instances vertically
- B. Create 100 autoscale settings per resource
- C. Scale out by one instance when the average CPU usage of one of the instances is over 80 percent
- D. Use Azure Monitor to create autoscale settings using custom metrics
- E. Use an autoscale setting with unlimited maximum number of instances

F. Use a webhook to log autoscale failures

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Azure Monitor autoscale can be used on Virtual Machine Scale Sets.

References:

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/autoscale-custom-metric>

QUESTION 20

You have an Azure subscription named Subscription1.

You create several Azure virtual machines in Subscription1. All of the virtual machines belong to the same virtual network.

You have an on-premises Hyper-V server named Server1. Server1 hosts a virtual machine named VM1.

You plan to replicate VM1 to Azure.

You need to create additional objects in Subscription1 to support the planned deployment.

Which three objects should you create? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Hyper-V site
- B. Azure Recovery Services Vault
- C. storage account
- D. replication policy
- E. Azure Traffic Manager instance
- F. endpoint

Correct Answer: ABD

Section: [none]

Explanation

Explanation/Reference:

QUESTION 21

Your company is developing an e-commerce Azure App Service Web App to support hundreds of restaurant locations around the world.

You are designing the messaging solution architecture to support the e-commerce transactions and messages. The e-commerce application has the following features and requirements:

Feature	Requirement
Shopping Cart	<ul style="list-style-type: none"> Items in a shopping cart must be processed by an Azure Function within a specified number of minutes. Failure to process should move the items to a failed state for processing by a separate Azure Function Shopping cart transactions must not be lost and fault conditions must be processed separately Shopping cart transactions must be read by the inventory and sales systems for further processing
Inventory Distribution	<ul style="list-style-type: none"> Items sent to the inventory system must run a separate workflow for each item that includes warehouse, shipping, and order processing updates Inventory uses Azure Blob storage to store inventory items and related information Inventory is processed by using an Azure Logic App
Restaurant Telemetry	<ul style="list-style-type: none"> Restaurants stream millions of daily events from all locations Restaurant data should be captured in Azure Blob storage for conditional processing Restaurant event data should expire after 24 hours

You need to choose the Azure messaging solution to support the Restaurant Telemetry feature.

Which Azure service should you use?

- A. Azure Relay
- B. Azure Event Grid
- C. Azure Event Hub
- D. Azure Service Bus

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

Explanation:

Azure Event Hubs is a big data pipeline. It facilitates the capture, retention, and replay of telemetry and event stream data. The data can come from many concurrent sources. Event Hubs allows telemetry and event data to be made available to a variety of stream-processing infrastructures and analytics services. It is available either as data streams or bundled event batches. This service provides a single solution that enables rapid data retrieval for real-time processing as well as repeated replay of stored raw data. It can capture the streaming data into a file for processing and analysis.

It has the following characteristics:

- low latency
- capable of receiving and processing millions of events per second
- at least once delivery

Note: Comparison of services

Service	Purpose	Type	When to use
Event Grid	Reactive programming	Event distribution (discrete)	React to status changes
Event Hubs	Big data pipeline	Event streaming (series)	Telemetry and distributed data streaming
Service Bus	High-value enterprise messaging	Message	Order processing and financial transactions

References:

<https://docs.microsoft.com/en-us/azure/event-grid/compare-messaging-services>

QUESTION 22

A company is migrating an existing on-premises third-party website to Azure. The website is stateless.

The company does not have access to the source code for the website. They have the original installer.

The number of visitors at the website varies throughout the year. The on-premises infrastructure was resized to accommodate peaks but the extra capacity was not used.

You need to implement a virtual machine scale set instance.

What should you do

- A. Use a webhook to log autoscale failures.
- B. Use an autoscale setting to scale instances vertically.
- C. Use only default diagnostics metrics to trigger autoscaling
- D. Use an autoscale setting to define more profiles that have one or more autoscale rules.

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

Explanation:

In-guest VM metrics with the Azure diagnostics extension

The Azure diagnostics extension is an agent that runs inside a VM instance. The agent monitors and saves performance metrics to Azure storage. These performance metrics contain more detailed information about the status of the VM, such as AverageReadTime for disks or PercentIdleTime for CPU. You can create autoscale rules based on a more detailed awareness of the VM performance, not just the percentage of CPU usage or memory consumption.

References:

<https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/virtual-machine-scale-sets-autoscale-overview>

QUESTION 23

Note: This question is part of 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 Cosmos DB database that contains a container named Container1. The partition key for Container1 is set to /day. Container1 contains the items shown in the following table.

Name	Content
Item1	{ "id": "1", "day": "Mon", "value" : "10" }
Item2	{ "id": "2", "day": "Mon", "value" : "15" }
Item3	{ "id": "3", "day": "True", "value" : "10" }
Item4	{ "id": "4", "day": "Wed", "value" : "15" }

You need to programmatically query Azure Cosmos DB and retrieve item1 and item2 only.

Solution: You run the following query.

```
SELECT day  
WHERE value = "10"
```

You set the `EnableCrossPartitionQuery` property to `False`.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 24

Note: This question is part of 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 Cosmos DB database that contains a container named Container1. The partition key for Container1 is set to /day. Container1 contains the items shown in the following table.

Name	Content
Item1	{ "id": "1", "day": "Mon", "value" : "10" }
Item2	{ "id": "2", "day": "Mon", "value" : "15" }
Item3	{ "id": "3", "day": "True", "value" : "10" }
Item4	{ "id": "4", "day": "Wed", "value" : "15" }

You need to programmatically query Azure Cosmos DB and retrieve item1 and item2 only.

Solution: You run the following query.

```
SELECT day FROM c  
WHERE c.value = "10" OR c.value = "15"
```

You set the EnableCrossPartitionQuery property to True.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 25

Note: This question is part of 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 Cosmos DB database that contains a container named Container1. The partition key for Container1 is set to /day. Container1 contains the items shown in the following table.

Name	Content
Item1	{ "id": "1", "day": "Mon", "value" : "10" }
Item2	{ "id": "2", "day": "Mon", "value" : "15" }
Item3	{ "id": "3", "day": "True", "value" : "10" }
Item4	{ "id": "4", "day": "Wed", "value" : "15" }

You need to programmatically query Azure Cosmos DB and retrieve item1 and item2 only.

Solution: You run the following query

```
SELECT id FROM c  
WHERE c.day = "Mon"
```

You set the `EnableCrossPartitionQuery` property to True.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 26

HOTSPOT

From Azure Cosmos DB, you create the containers shown in the following table.

Container ID	Partition key	Unique key
Container1	/category	None
Container2	/id	/importance

You add the following item to Container1.

```
{  
    "id": "1",  
    "category": "personal",  
    "name": "Name1",  
    "description": "Description1"  
}
```

You plan to add items to Azure Cosmos DB as shown in the following table.

Name	Content
Item1	{ "id": "1", "category": "personal", "name": "Name1", "description": "Description1" }
Item2	{ "category": "business", "name": "Name2", "description": "Description2" "importance": "High" }
Item3	{ "id": "3", "name": "Name3", "description": "Description3" }
Item4	{ "id": "4", "importance": "Low" }

You need to identify which items can be added successfully to Container1 and Container2.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

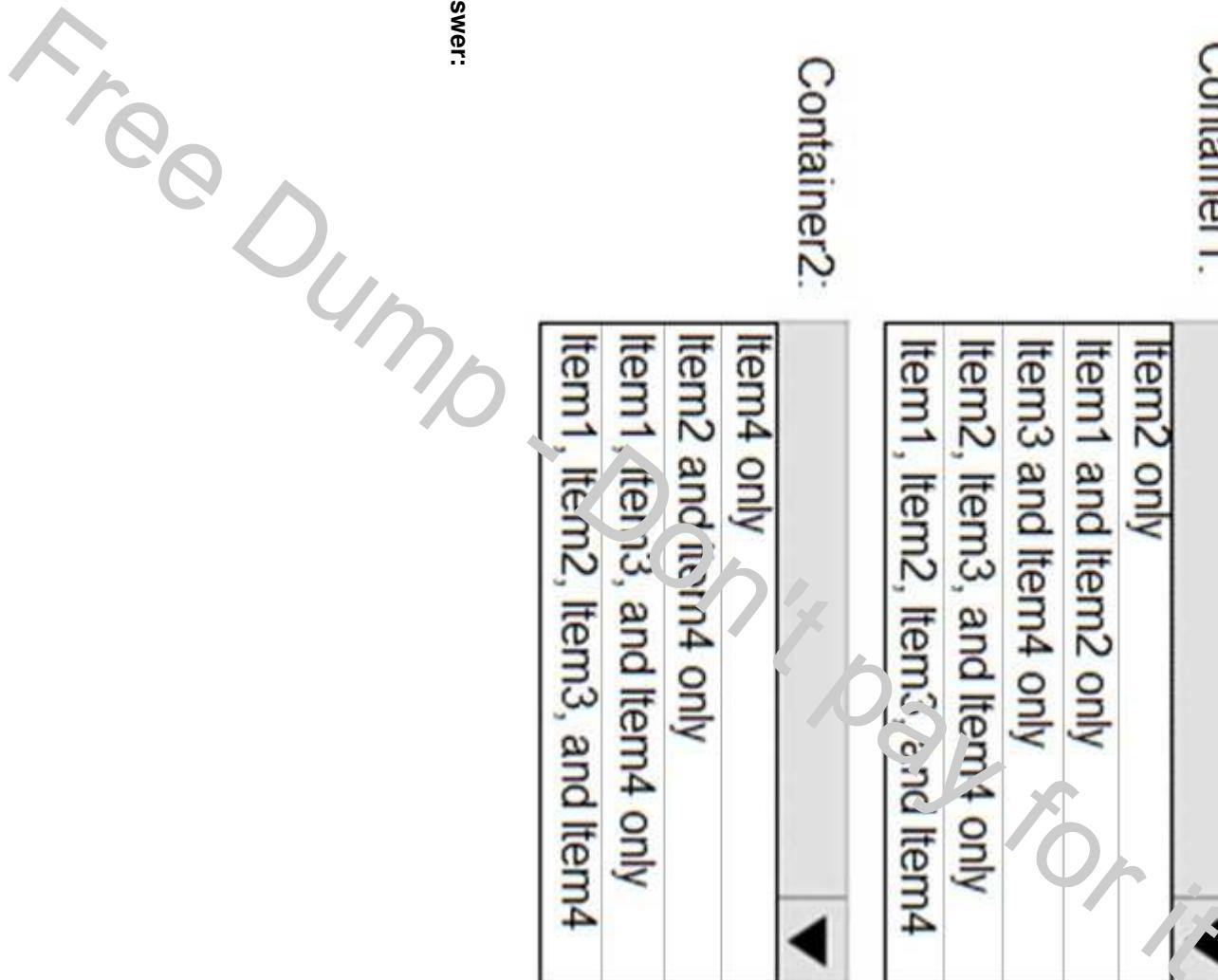
Container1:

- Item2 only
- Item1 and Item2 only
- Item3 and Item4 only
- Item2, Item3, and Item4 only
- Item1, Item2, Item3, and Item4

Container2:

- Item4 only
- Item2 and Item4 only
- Item1, Item3, and Item4 only
- Item1, Item2, Item3, and Item4

Correct Answer:



Answer Area

Container1:

- Item2 only
- Item1 and Item2 only
- Item3 and Item4 only
- Item2, Item3, and Item4 only
- Item1, Item2, Item3, and Item4

Container2:

- Item4 only
- Item2 and Item4 only
- Item1, Item3, and Item4 only
- Item1, Item2, Item3, and Item4

Section: [none]
Explanation

Explanation/Reference:

Free Dump
Don't pay for it