AZ-303 Q&As

Microsoft Azure Architect Technologies

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QUESTION 1

HOTSPOT

A company has the following offices:

Office	Comments
Location1	This office has 30 networked computers, a VPN server, and a server that runs Microsoft Exchange.
Location2	This office has five on-premises servers.

The company plans to expand its network to the cloud. You identify the following requirements:
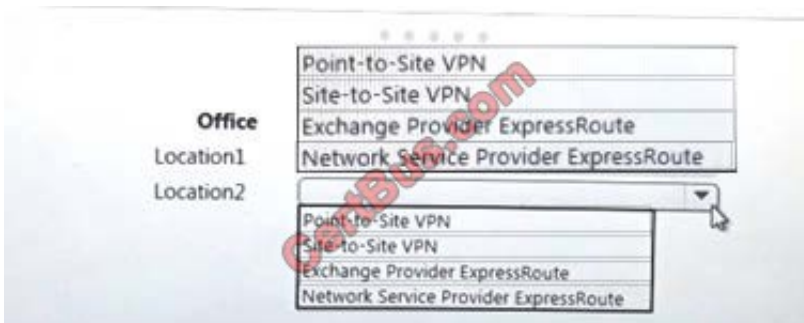
1.

Location1 requires a dynamic pool of virtual machines (VMs) for offsite computations

2.

Employees from Location1 must be able to connect to VMs through a virtual network to start tasks and check results.

3.

Servers from Location2 must privately and continuously back up all data to Azure. The process will require up to 1 Gbps bandwidth.

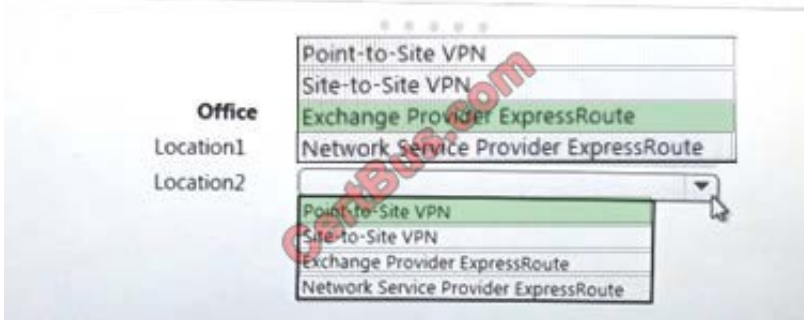You need to configure the hybrid solution.

Which connection types should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Office	
	Point-to-Site VPN
	Site-to-Site VPN
	Exchange Provider ExpressRoute
Location1	Network Service Provider ExpressRoute
Location2	
	Point-to-Site VPN
	Site-to-Site VPN
	Exchange Provider ExpressRoute
	Network Service Provider ExpressRoute

Correct Answer:

QUESTION 2

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/981dd4bc-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

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 3

You have an Azure subscription that contains the Azure SQL Database servers shown in the following table.

Name	Resource group	Location
SQL1	RG1	West US
SQL2	RG2	West US

The SQL Database servers have the elastic pools shown in the following table.

Name	SQL Database server	vCores	Maximum data size
Pool1	SQL1	2	16 GB
Pool2	SQL2	6	48 GB

SQL1 has the SQL databases shown in the following table.

Name	SQL Database server	vCores	Maximum data size	Elastic pool
DB1	SQL1	4	30 GB	None
DB2	SQL1	2	10 GB	Pool1

What will occur if you add DB1 to Pool1?

A. The vCores on DB1 will decrease to two.

B. The maximum data size of Pool1 will increase to 22 GB.

C. The maximum data size of DB1 will decrease to 6 GB.

D. The vCores on Pool1 will increase to four.

Correct Answer: D

QUESTION 4

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

References: https://docs.microsoft.com/en-us/azure/backup/backup-azure-vms-first-look-arm

QUESTION 5

You have Azure virtual machines deployed to three Azure regions. Each region contains a single virtual network that has four virtual machines on the same subnet. Each virtual machine runs an application named App1. App1 is accessible by

using HTTPS. Currently, the virtual machines are inaccessible from the internet.

You need to use Azure Front Door to load balance requests for App1 across all the virtual machines.

Which additional Azure service should you provision?

A. a public Azure Load Balancer

B. Azure Traffic Manager

C. an internal Azure Load Balancer

D. Azure Private Link

Correct Answer: A

QUESTION 6

You have 10 Azure virtual machines on a subnet named Subnet1. Subnet1 is on a virtual network named VNet1.

You plan to deploy a public Azure Standard Load Balancer named LB1 to the same Azure region as the 10 virtual

machines.

You need to ensure that traffic from all the virtual machines to the internet flows through LB1. The solution must prevent the virtual machines from being accessible on the internet. Which three actions should you perform? Each correct

answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Add health probes to LB1.

B. Add the network interfaces of the virtual machines to the backend pool of LB1.

C. Add an inbound rule to LB1.

D. Add an outbound rule to LB1.

E. Associate a network security group (NSG) to Subnet1.

F. Associate a user-defined route to Subnet1.
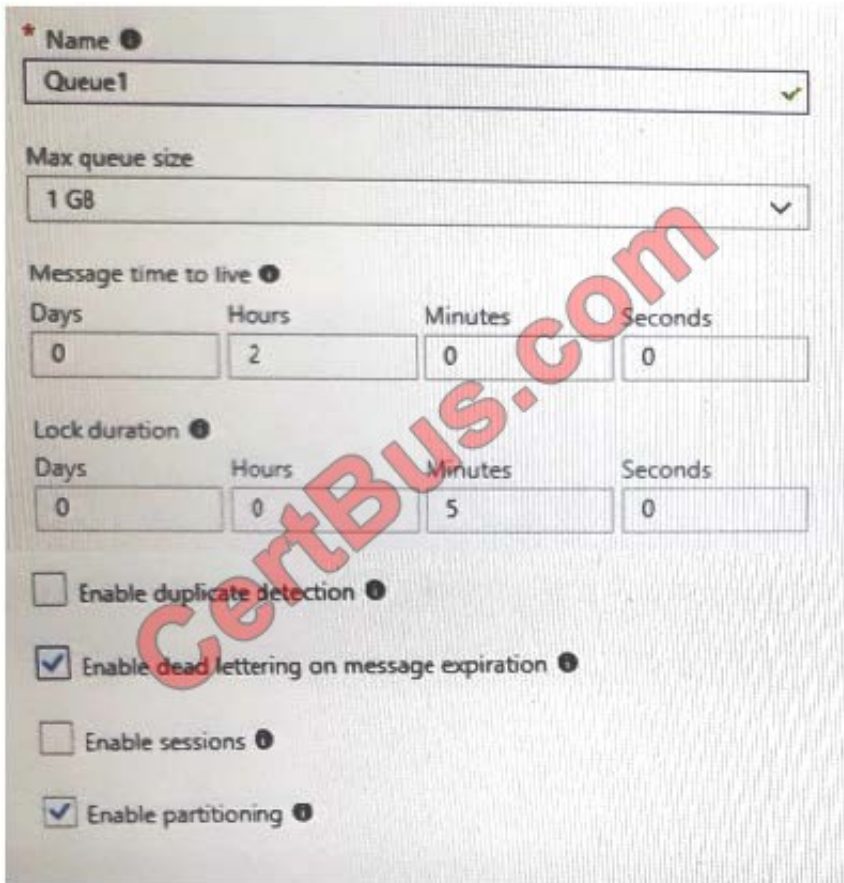
Correct Answer: ABD

Reference: https://docs.microsoft.com/en-us/azure/load-balancer/tutorial-load-balancer-standard-manage-portal2

QUESTION 7

HOTSPOT

You have an Azure Service Bus.
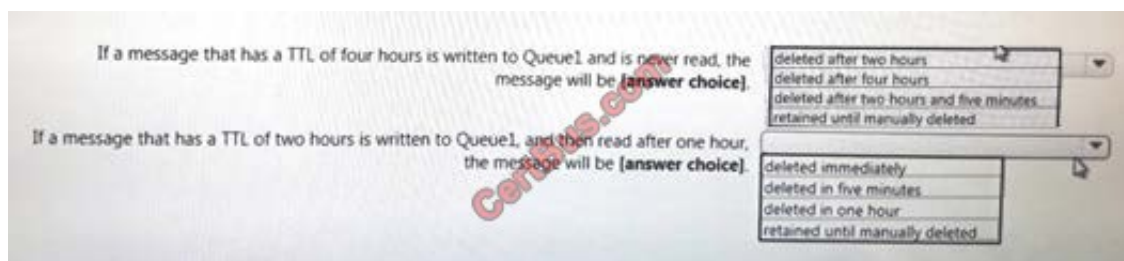
You create a queue named Queue1. Queue1 is configured as shown in the following exhibit.

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic. NOTE: Each correct selection is worth one point
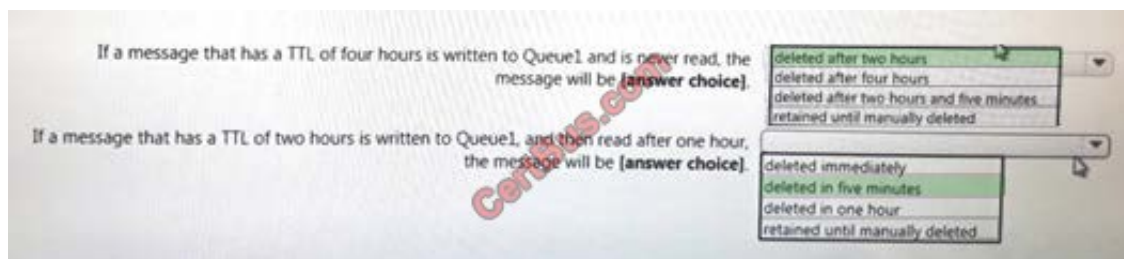
Hot Area:

Correct Answer:

QUESTION 8

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:	▼

| 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 |

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 9

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:

Actions	Answer Area
Create a gateway subnet.	
Create a custom DNS server.	
Create a local gateway.	
Create an Azure Content Delivery Network (CDN) profile.	
Create a VPN gateway.	
Create a VPN connection.	

Correct Answer:

Actions

Create a custom DNS server.

Create an Azure Content Delivery Network (CDN) profile.

Answer Area

Create a gateway subnet.
Create a VPN gateway.
Create a local gateway.
Create a VPN connection.

QUESTION 10

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

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

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

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QUESTION 12

You have an Azure web app named App1 that is configured to run between two and five instances. There are currently three instances of App1 running. App1 has the following autoscale rules:

1.

Increase the instance count by one when the CPU percentage is greater or equal to 80.

2.

Decrease the instance count by one when the CPU percentage is less than or equal to 60.

You are evaluating the following CPU percentage of utilization for App1:

1.

60%

2.

55%

3.

50%

4.

45%

You need to identify which utilizations will cause App1 to scale in.

A. 45% only

B. 45% and 50% only

C. 50% and 55% only

D. 45%, 50%, and 55% only

Correct Answer: D

Azure Monitor autoscaling allows you to scale the number of running instances up or down, based on telemetry data (metrics). Scale-in occurs when the instances are decrease. For this rule the instances are decreased when the CPU usage is 60% or lower.

References: https://docs.microsoft.com/en-us/azure/azure-monitor/platform/autoscale-custom-metric

https://docs.microsoft.com/en-us/azure/azure-monitor/platform/autoscale-common-metrics

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QUESTION 13

You have an Azure subscription that contains the respond groups shown in the following table.

Name	Region
RG1	West US
RG2	West US
RG3	East US

You have the Azure SQL servers shown in the following table.

Name	Region	In resource group
Sql1	West US	RG1
Sql2	East US	RG2
Sql3	West US	RG3
Sql4	West US	RG1

You create an Azure SQL database named DB1 on Sql1 in an elastic pool named Pool1. You need to create an Azure SOL database named DB2 In Pool 1. Where should you deploy DB2?

A. Sql1

B. Sql 2

C. Sql 3

D. Sql 4

Correct Answer: A

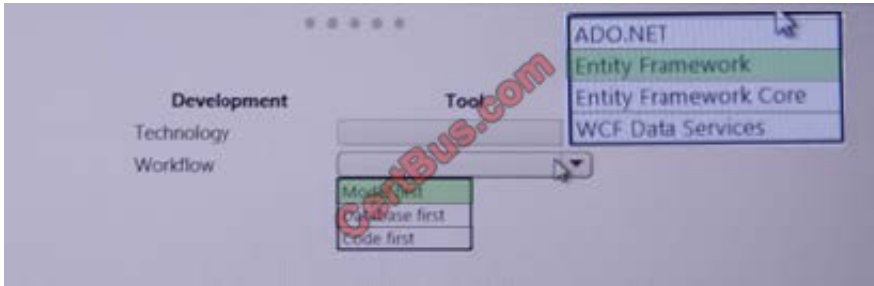**QUESTION 14**

You need to update the Inventory API.

Which development tools should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

QUESTION 15

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

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

Your company is deploying an on-premises application named Appl.

Users will access App1 by using a URL of https://app1.contoso.com.

You register App1 in Azure Active Directory (Azure AD) and publish Appl by using the Azure AD Application Proxy.

You need to ensure that Appl appears in the My Apps portal for all the users.

Solution: You create an offer for App1 and publish the offer to Azure Marketplace.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

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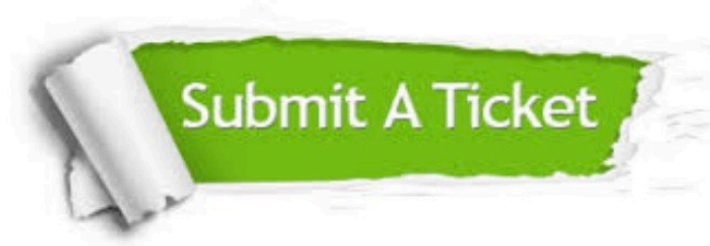
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