Vendor: Microsoft

Exam Code:AZ-303

Exam Name: Microsoft Azure Architect Technologies

Version: Demo

QUESTION 1

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:

1.

App1 must support command injection protection.

2.

App2 must be able to use a static public IP address.

3.

App1 must have a Service Level Agreement (SLA) of 99.99 percent.

4.

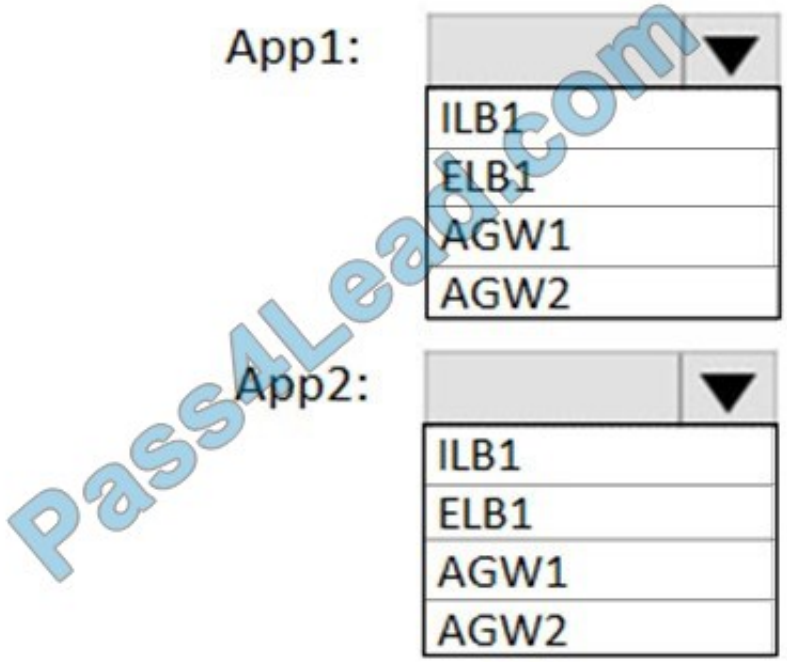
App2 load balancing solution must be able to autoscale.

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.

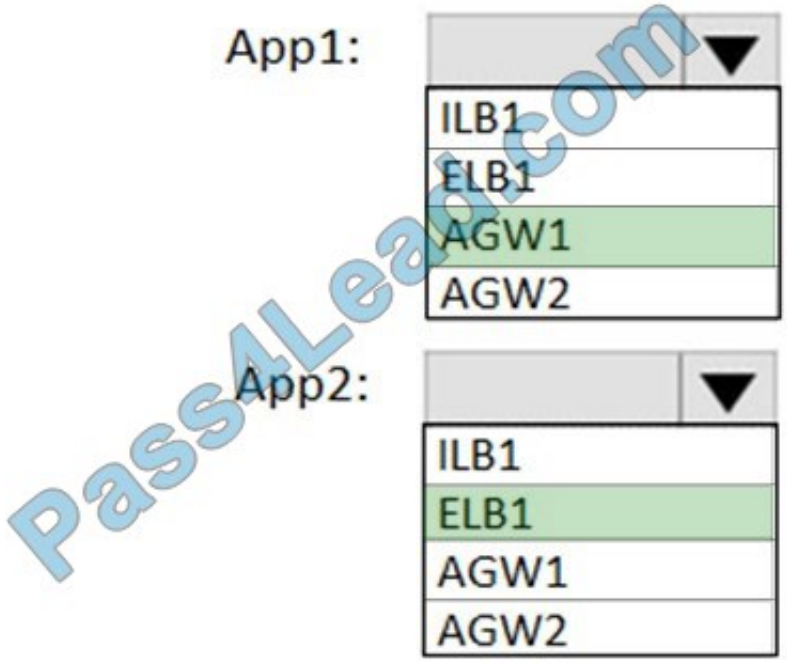
Hot Area:

Answer Area



Correct Answer:

Answer Area



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

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QUESTION 2

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?

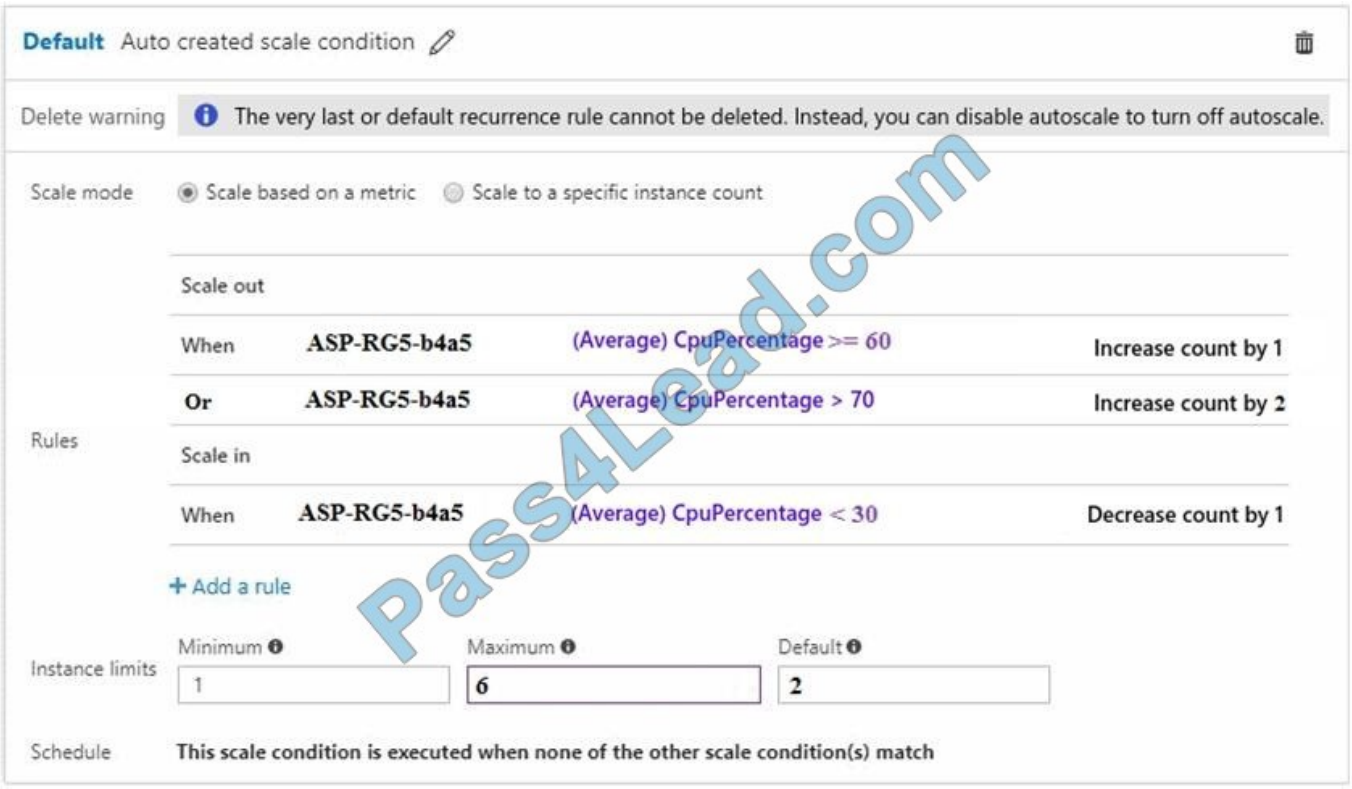
A. Yes

B. No

Correct Answer: B

QUESTION 3

You have a web app named WebApp1 that has the autoscale condition shown in the following exhibit.



Every autoscale condition rule is configured to have a duration of 20 minutes and a cool down time of 10 minutes.

At 06:00, 500 users are connected to WebApp1, WebApp1 is running two instances, and the average CPU utilization is consistently 50 percent.

At 07:00, 720 users are connected to WebApp1 and the average CPU utilization increases to 72 percent.

If 720 users remain connected to WebApp1, how many instances of WebApp1 will be running at 07:35?

A. 2

B. 3

C. 4

D. 5

Correct Answer: C

The duration is 20 minutes and the cool-down time is 10 minutes. The autoscale is triggered when the duration has passed. Thus it will trigger at 7:20. It will not trigger again until the cool-down time has lapsed. At 7:30 it will trigger a second time if the CPU usage remains above 60%. However, we have scaled out to double the instances. Thus CPU usage would drop.

Reference: https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/virtual-machine-scale-sets-autoscale-

portal

QUESTION 4

You need to implement a backup solution for App1 after the application is moved.

What should you create first?

A. an Azure Backup Server

B. a Recovery Services vault

C. a backup policy

D. a recovery plan

Correct Answer: B

A Recovery Services vault is a logical container that stores the backup data for each protected resource, such as Azure VMs. When the backup job for a protected resource runs, it creates a recovery point inside the Recovery Services vault.

Scenario:

There are three application tiers, each with five virtual machines.

Move all the virtual machines for App1 to Azure.

Ensure that all the virtual machines for App1 are protected by backups.

References: https://docs.microsoft.com/en-us/azure/backup/quick-backup-vm-portal

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QUESTION 5

HOTSPOT

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

Name	Location	Virtual machine
Vnet1	North Europe	VM1
Vnet2	West Europe	VM2

You create an Azure Cosmos DB account as shown in the exhibit. (Click the Exhibit tab.) For each of the following statements, select yes if the statement is true. Otherwise, select no.

Hot Area:

Correct Answer:

QUESTION 6

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

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 7

HOTSPOT

You have a web server app named App1 that is hosted in three Azure regions.

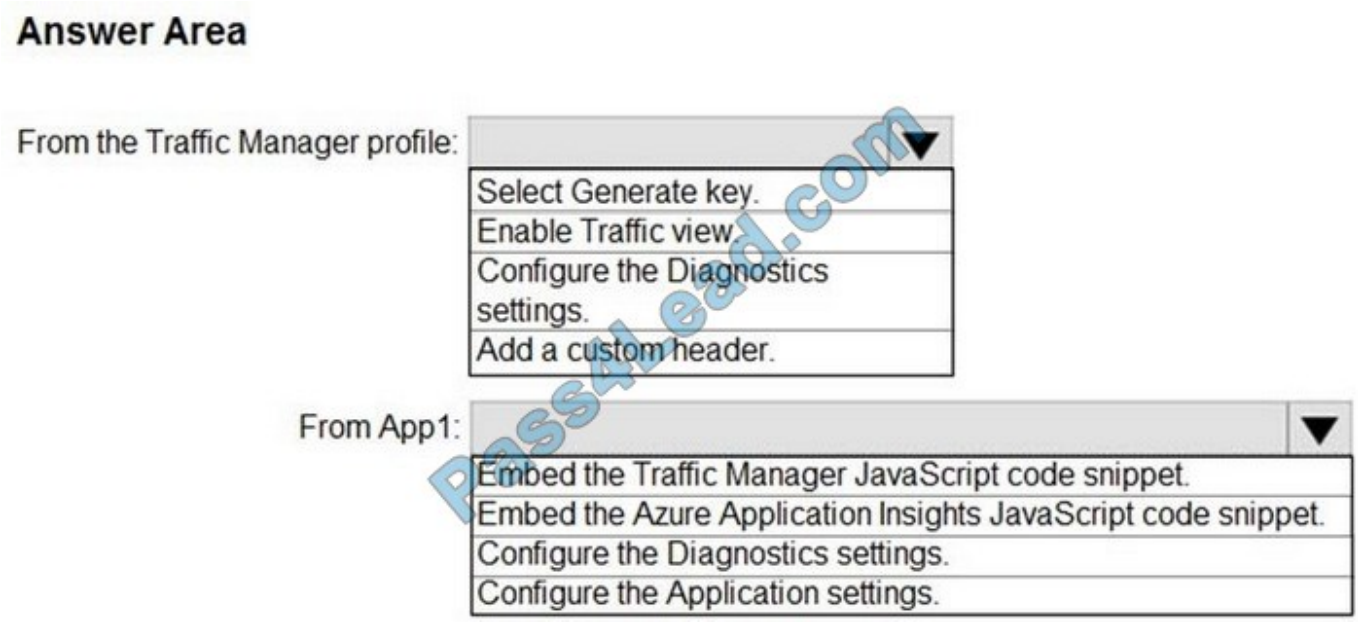
You plan to use Azure Traffic Manager to distribute traffic optimally for App1.

You need to enable Real User Measurements to monitor the network latency data for App1.

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

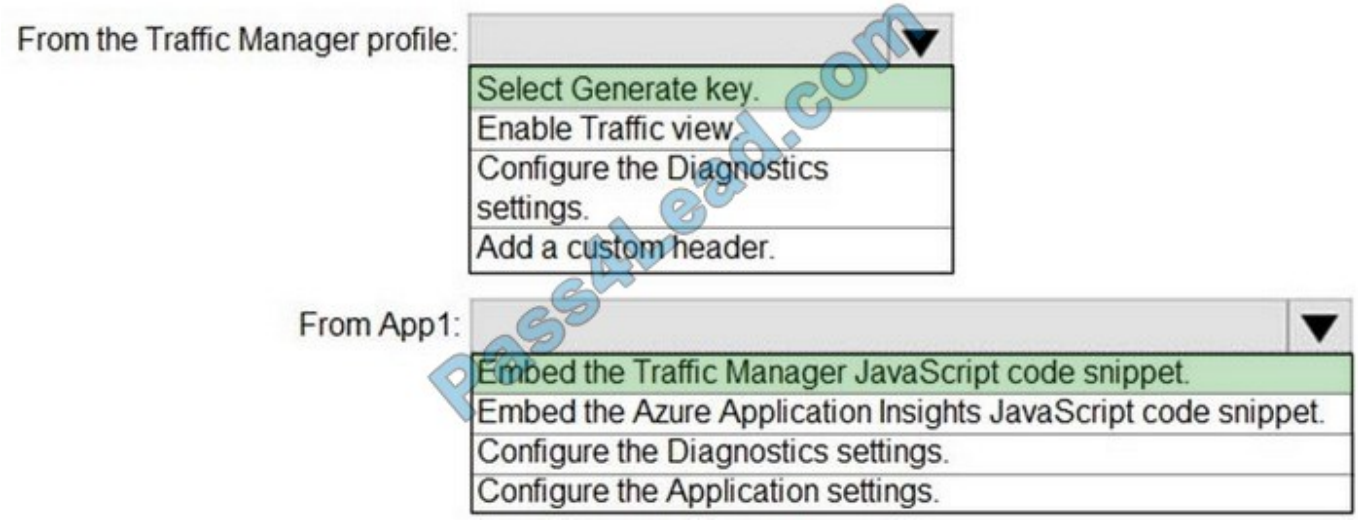
NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:

Answer Area



Box 1: Select Generate key

You can configure your web pages to send Real User Measurements to Traffic Manager by obtaining a Real User Measurements (RUM) key and embedding the generated code to web page.

Obtain a Real User Measurements key The measurements you take and send to Traffic Manager from your client application are identified by the service using a unique string, called the Real User Measurements (RUM) Key. You can get a RUM key using the Azure portal, a REST API, or by using the PowerShell or Azure CLI.

To obtain the RUM Key using Azure portal:

1.

From a browser, sign in to the Azure portal. If you don\\'t already have an account, you can sign up for a free one-month trial.

2.

In the portal\\'s search bar, search for the Traffic Manager profile name that you want to modify, and then click the Traffic Manager profile in the results that the displayed.

3.

In the Traffic Manager profile blade, click Real User Measurements under Settings.

4.

Click Generate Key to create a new RUM Key.

Box 2: Embed the Traffic Manager JavaScript code snippet.

Embed the code to an HTML web page

After you have obtained the RUM key, the next step is to embed this copied JavaScript into an HTML page that your end users visit.

This example shows how to update an HTML page to add this script. You can use this guidance to adapt it to your HTML source management workflow.

1.

Open the HTML page in a text editor

2.

Paste the JavaScript code you had copied in the earlier step to the BODY section of the HTML (the copied code is on line 8 and 9, see figure 3).

```
1  <HTML>
2  <HEAD>
3  <TITLE>Webpage powered by Azure</TITLE>
4  </HEAD>
5  <BODY BGCOLOR="FFFFFF">
6  <H1>Welcome</H1>
7  <P> <B>Hello!</B>
8  <script src="//www.atmrum.net/rum.js"></script>
9  <script>rum.start("0123456789abcdef0123456789abcdff");</script>
10 </BODY>
11 </HTML>
```


Reference: https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-create-rum-web-pages

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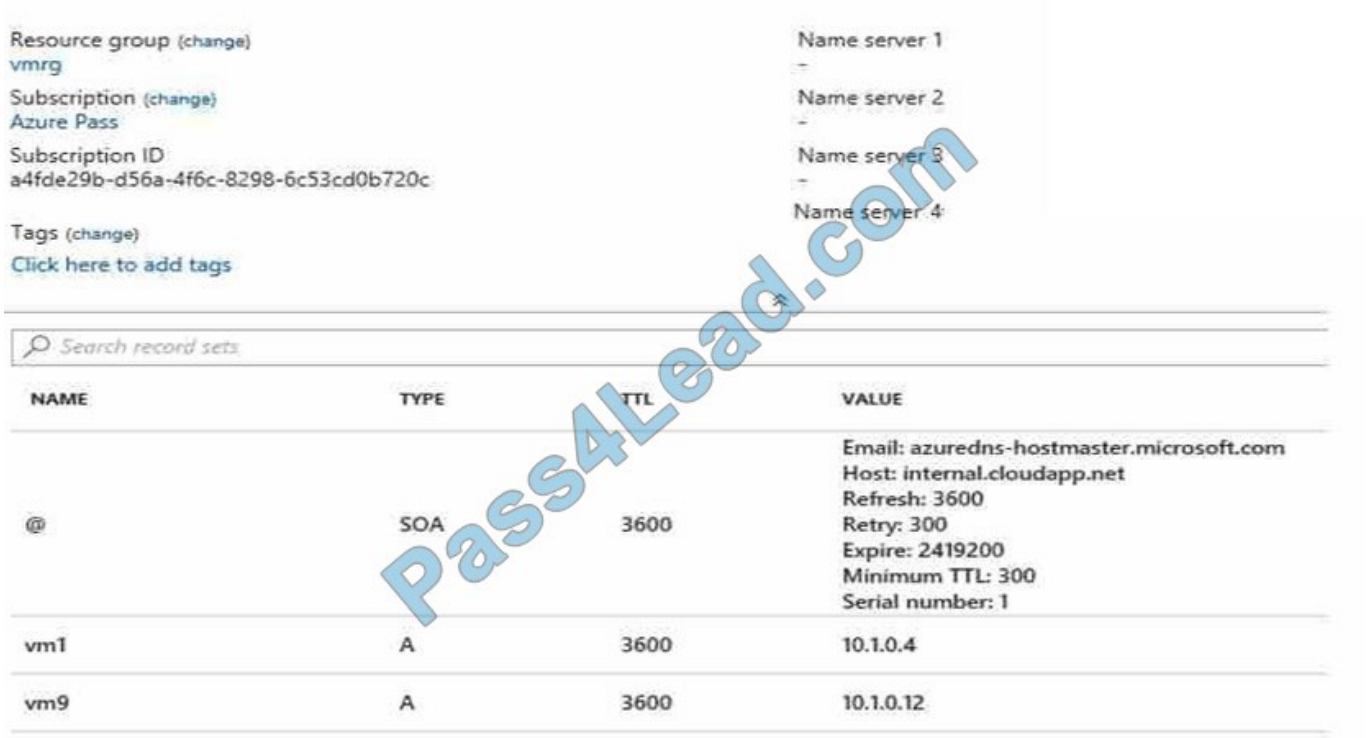
QUESTION 8

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.



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:

Answer Area

Statements	Yes	No
The A record for VM5 will be registered automatically in the adatum.com zone.	○	○
VM5 can resolve VM9.adatum.com.	○	○
VM6 can resolve VM9.adatum.com.	○	○

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 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

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QUESTION 9

Your company has the groups shown in the following table.

Group	Number of members
Managers	10
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

Enterprise State Roaming is available to any organization with an Azure AD Premium or Enterprise Mobility + Security (EMS) license.

References: https://docs.microsoft.com/bs-latn-ba/azure/active-directory/devices/enterprise-state-roaming-enable

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QUESTION 10

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

QUESTION 11

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	• 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	• 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	• 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 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

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

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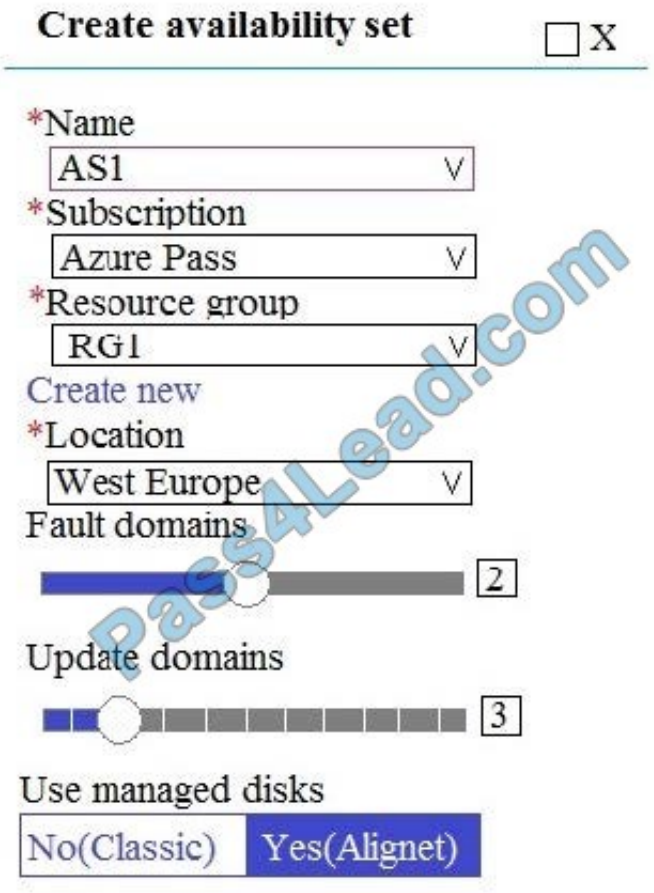
QUESTION 12

HOTSPOT

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



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]** | 4 / 5 / 6 / 8 | virtual machines will be available.

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

Correct Answer:

Answer Area

During planned maintenance, at least **[answer choice]** | 4 / 5 / 6 / 8 | virtual machines will be available.

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

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

References:

https://docs.microsoft.com/en-us/azure/virtual-machines/windows/regions-and-availability

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