

➤ **Vendor: Microsoft**

➤ **Exam Code: AZ-301**

➤ **Exam Name: Microsoft Azure Architect Design**

➤ **New Updated Questions from [Braindump2go](#) (Updated in [July/2020](#))**

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QUESTION 258

You have data files in Azure Blob storage.

You plan to transform the files and move them to Azure Data Lake Storage.

You need to transform the data by using mapping data flow.

Which Azure service should you use?

- A. Azure Storage Sync
- B. Azure Databricks
- C. Azure Data Box Gateway
- D. Azure Data Factory

Answer: D

Explanation:

You can use Copy Activity in Azure Data Factory to copy data from and to Azure Data Lake Storage Gen2, and use Data Flow to transform data in Azure Data Lake Storage Gen2.

Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/connector-azure-data-lake-storage>

QUESTION 259

You need to recommend a solution to generate a monthly report of all the new Azure Resource Manager resource deployments in your subscription.

What should you include in the recommendation?

- A. Azure Log Analytics
- B. Application Insights
- C. the Change Tracking management solution
- D. Azure Monitor metrics

Answer: C

Explanation:

Azure Automation now supports update management, inventory, and change tracking.

Update management delivers visibility of update compliance across Azure, on-premises, and other clouds for both Windows and Linux. Create scheduled deployments to orchestrate the installation of updates within a defined maintenance window. Exclude specific updates and get detailed troubleshooting logs to identify any issues during the deployment.

Incorrect Answers:

D: Azure Monitor metrics include:

Model Deploy Started: Number of model deployments started in this workspace

Model Deploy Succeeded: Number of model deployments that succeeded in this workspace

Model Deploy Failed: Number of model deployments that failed in this workspace

Reference:

<https://azure.microsoft.com/en-us/blog/update-management-inventory-and-change-tracking-in-azure-automation-now->

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generally-available/

QUESTION 260

You are planning to deploy an application named App1 that will run in containers on Azure Kubernetes Service (AKS) clusters. The AKS clusters will be distributed across four Azure regions.

You need to recommend a storage solution for App1. Updated container images must be replicated automatically to all the AKS clusters.

Which storage solution should you recommend?

- A. Azure Content Delivery Network (CDN)
- B. Premium SKU Azure Container Registry
- C. Azure Cache for Redis
- D. geo-redundant storage (GRS) accounts

Answer: B

Explanation:

Enable geo-replication for container images.

Best practice: Store your container images in Azure Container Registry and geo-replicate the registry to each AKS region.

To deploy and run your applications in AKS, you need a way to store and pull the container images.

Container Registry integrates with AKS, so it can securely store your container images or Helm charts.

Container Registry supports multimaster geo-replication to automatically replicate your images to Azure regions around the world.

Geo-replication is a feature of Premium SKU container registries.

Note:

When you use Container Registry geo-replication to pull images from the same region, the results are:

Faster: You pull images from high-speed, low-latency network connections within the same Azure region.

More reliable: If a region is unavailable, your AKS cluster pulls the images from an available container registry.

Cheaper: There's no network egress charge between datacenters.

Reference:

<https://docs.microsoft.com/en-us/azure/aks/operator-best-practices-multi-region>

QUESTION 261

Use the following login credentials as needed:

To enter your username, place your cursor in the **Sign in** box and click on the username below.

To enter your password, place your cursor in the **Enter password** box and click on the password below.

Azure Username: User1-10989444@ExamUsers.com

Azure Password: KJn29!aBBB

If the Azure portal does not load successfully in the browser, press CTRL-K to reload the portal in a new browser tab.

The following information is for technical support purposes only:

Lab Instance: 10989444



You need to recommend making changes to NWVM3 to provide the best possible Service Level Agreement (SLA). What should you recommend changing?

NOTE: To answer this question, sign in to the Azure portal and explore an Azure resource group named ResourceGroup1lod10989444.

- A. the storage type
- B. the virtual machine site
- C. the location
- D. the public IP address

Answer: C

Explanation:

Put the VM in the correct location to setup Availability zones.

Availability Zone: Unique physical locations within a region. Each zone is made up of one or more datacenters equipped with independent power, cooling, and networking.

Note: SLA for Virtual Machines

For all Virtual Machines that have two or more instances deployed across two or more Availability

Zones in the same Azure region, we guarantee you will have Virtual Machine Connectivity to at least one instance at least 99.99% of the time.

For all Virtual Machines that have two or more instances deployed in the same Availability Set or in the same Dedicated Host Group, we guarantee you will have Virtual Machine Connectivity to at least one instance at least 99.95% of the time.

For any Single Instance Virtual Machine using Premium SSD or Ultra Disk for all Operating System Disks and Data Disks, we guarantee you will have Virtual Machine Connectivity of at least 99.9%.

QUESTION 262

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 Storage v2 account named storage1.

You plan to archive data to storage1.

You need to ensure that the archived data cannot be deleted for five years. The solution must prevent administrators from deleting the data.

Solution: You create an Azure Blob storage container, you configure a time-based retention policy, and you lock the policy.

Does this meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

Time-based retention policy support: Users can set policies to store data for a specified interval. When a time-based retention policy is set, blobs can be created and read, but not modified or deleted. After the retention period has expired, blobs can be deleted but not overwritten.

Note:

Immutable storage for Azure Blob storage enables users to store business-critical data objects in a WORM (Write Once, Read Many) state. This state makes the data non-erasable and non-modifiable for a user-specified interval. For the duration of the retention interval, blobs can be created and read, but cannot be modified or deleted. Immutable storage is available for general-purpose v2 and Blob storage accounts in all Azure regions.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-immutable-storage>

QUESTION 263

Your company purchases an app named App1.

You plan to run App1 on seven Azure virtual machines in an Availability Set. The number of fault domains is set to 3.

The number of update domains is set to 20.

You need to identify how many App1 instances will remain available during a period of planned maintenance.

How many App1 instances should you identify?

- A. 1
- B. 2
- C. 6
- D. 7

Answer: C

Explanation:

Only one update domain is rebooted at a time. Here there are 7 update domain with one VM each (and 13 update domain with no VM).

Reference:

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

QUESTION 264

You plan to deploy 10 applications to Azure. The applications will be deployed to two Azure Kubernetes Service (AKS) clusters. Each cluster will be deployed to a separate Azure region.

The application deployment must meet the following requirements:

- Ensure that the applications remain available if a single AKS cluster fails.
- Ensure that the connection traffic over the internet is encrypted by using SSL without having to configure SSL on each container instance.

Which Azure service should you include in the recommendation?

- A. Azure Front Door
- B. Azure Traffic Manager
- C. Azure Load Balancer
- D. AKS ingress controller

Answer: A

Explanation:

Azure Front Door enables you to define, manage, and monitor the global routing for your web traffic by optimizing for best performance and instant global failover for high availability. With Front Door, you can transform your global (multi-region) consumer and enterprise applications into robust, high-performance personalized modern applications, APIs, and content that reaches a global audience with Azure.

Front Door works at Layer 7 or HTTP/HTTPS layer and uses anycast protocol with split TCP and Microsoft's global network for improving global connectivity.

Incorrect Answers:

B: Azure Traffic Manager uses DNS (layer 3) to shape traffic. SSL works at Layer 6.

Azure Traffic Manager can direct customers to their closest AKS cluster and application instance. For the best performance and redundancy, direct all application traffic through Traffic Manager before it goes to your AKS cluster.

Reference:

<https://docs.microsoft.com/en-us/azure/frontdoor/front-door-overview>

QUESTION 265**SIMULATION**

Please wait while the virtual machine loads. Once loaded, you may proceed to the lab section. This may take a few minutes, and the wait time will not be deducted from your overall test time.

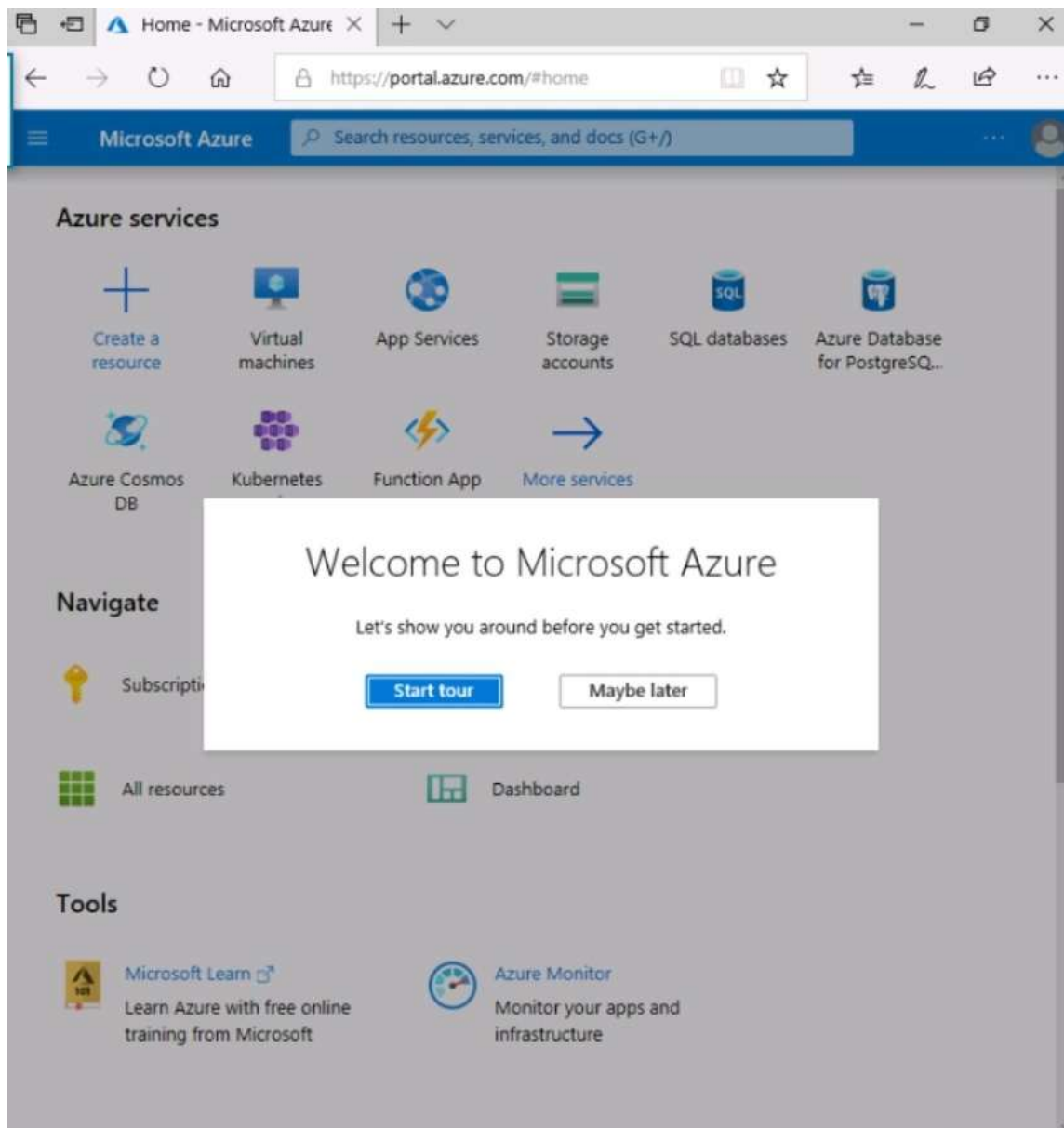
When the Next button is available, click it to access the lab section. In this section, you will perform a set of tasks in a live environment. While most functionality will be available to you as it would be in a live environment, some functionality (e.g., copy and paste, ability to navigate to external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

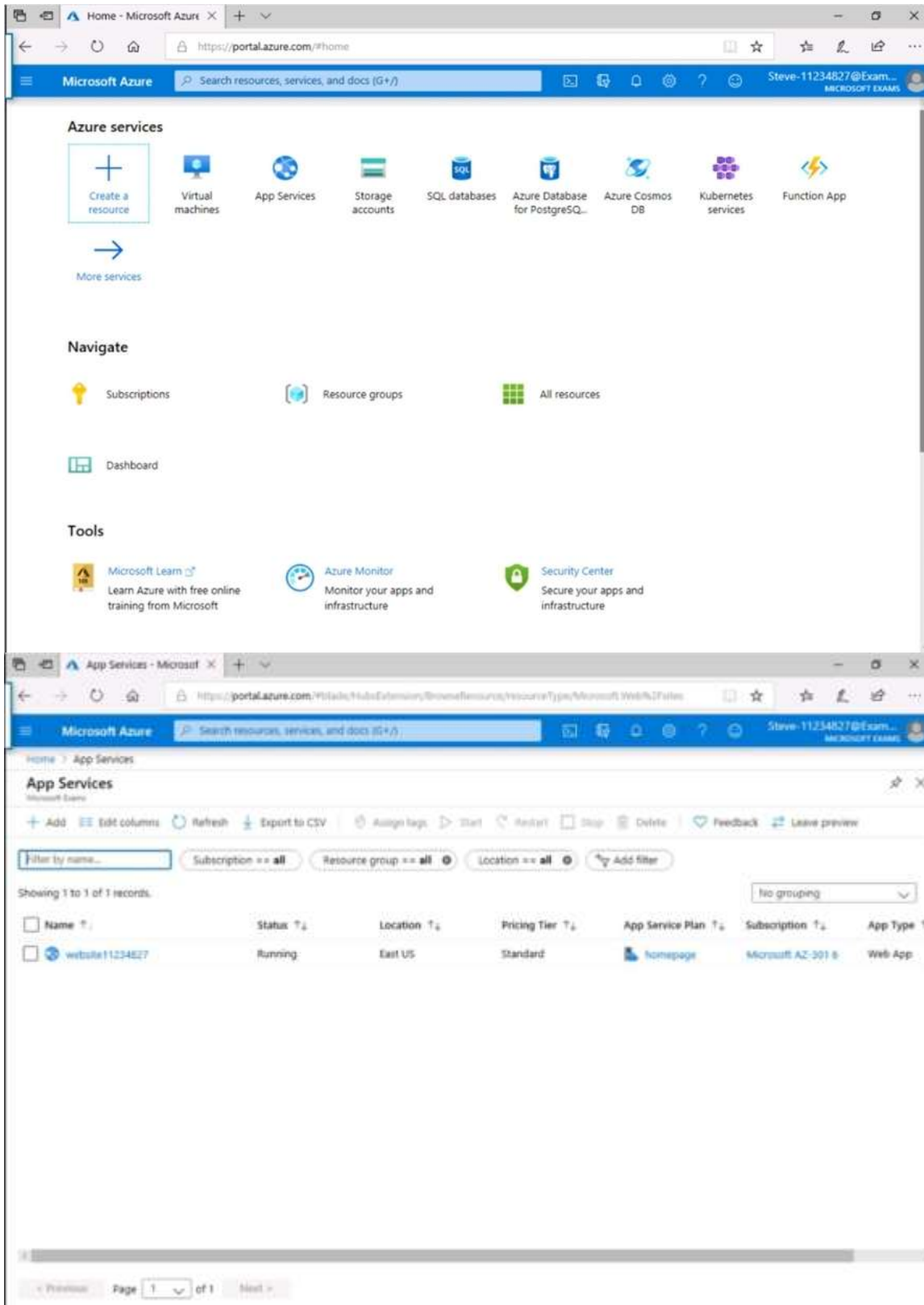
Scoring is based on the outcome of performing the tasks stated in the lab. In other words, it doesn't matter how you accomplish the task, if you successfully perform it, you will earn credit for that task.

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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.

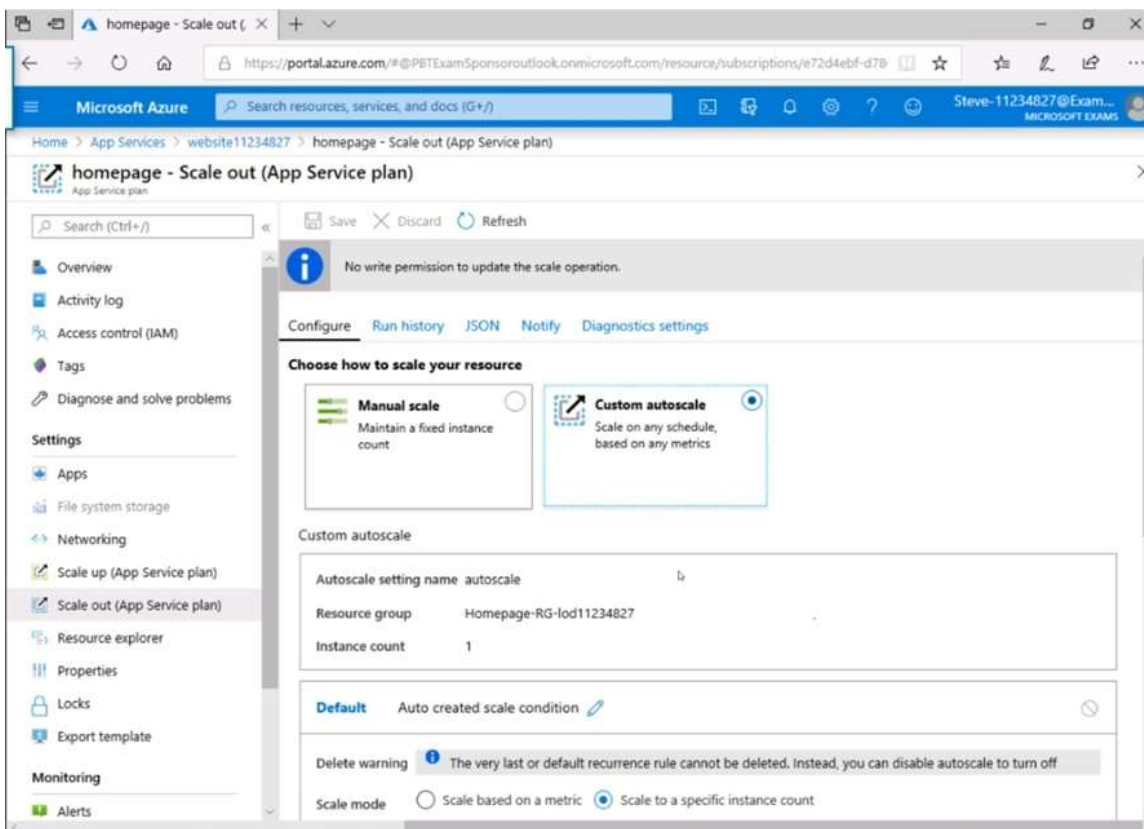
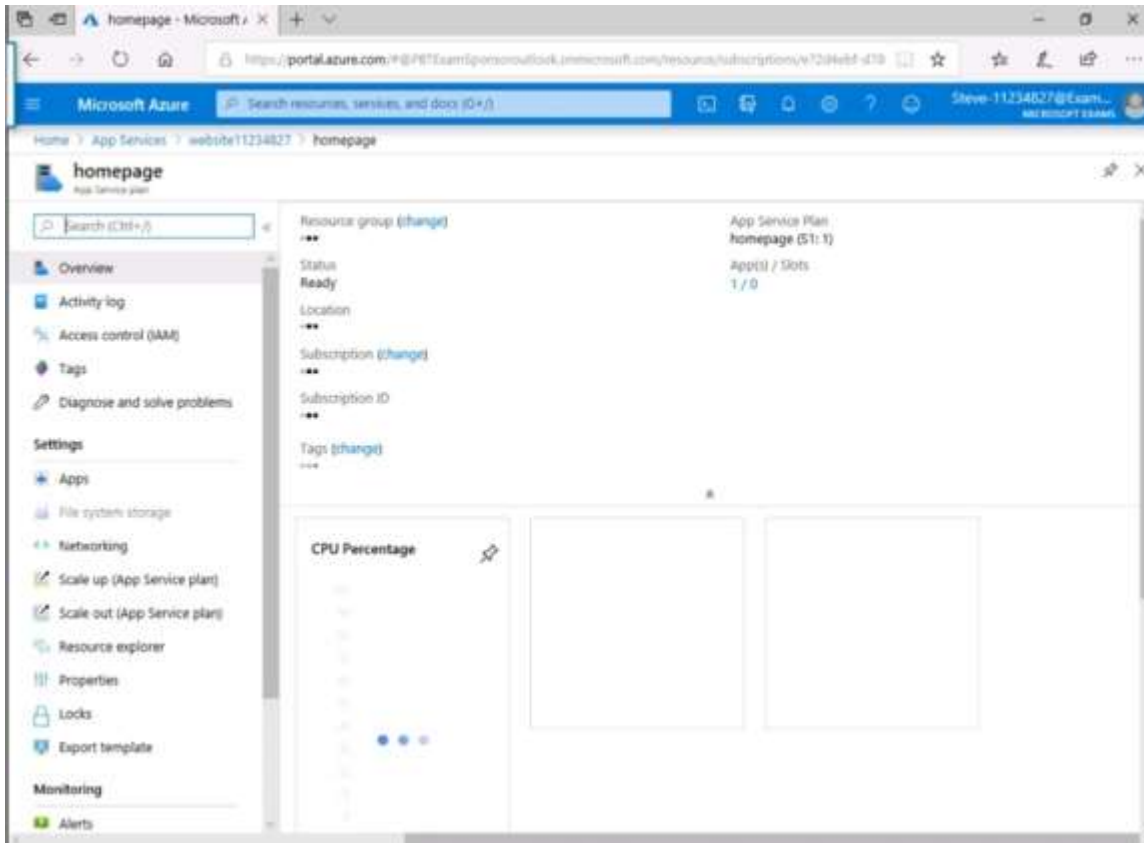
You may now click next to proceed to the lab.

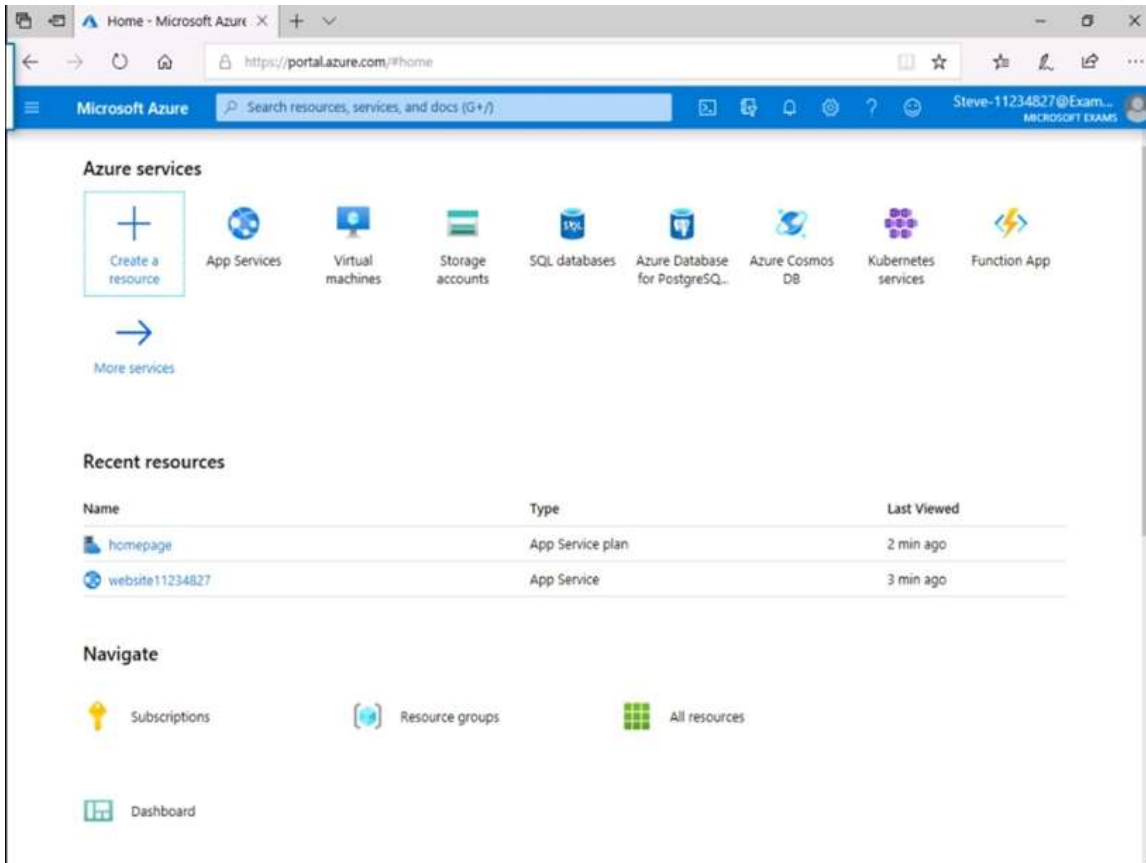




The screenshot displays the Microsoft Azure portal interface. The top navigation bar includes the 'Home - Microsoft Azure' tab and a search bar. The main content area is divided into three sections: 'Azure services', 'Navigate', and 'Tools'. The 'Azure services' section features a 'Create a resource' button and icons for various services like Virtual machines, App Services, Storage accounts, SQL databases, Azure Database for PostgreSQL, Azure Cosmos DB, Kubernetes services, and Function App. The 'Navigate' section provides links to Subscriptions, Resource groups, All resources, and Dashboard. The 'Tools' section includes Microsoft Learn, Azure Monitor, and Security Center. The bottom part of the screenshot shows the 'App Services' section, which includes a table of resources.

Name	Status	Location	Pricing Tier	App Service Plan	Subscription	App Type
website11234527	Running	East US	Standard	Homepage	Microsoft AZ-301	Web App

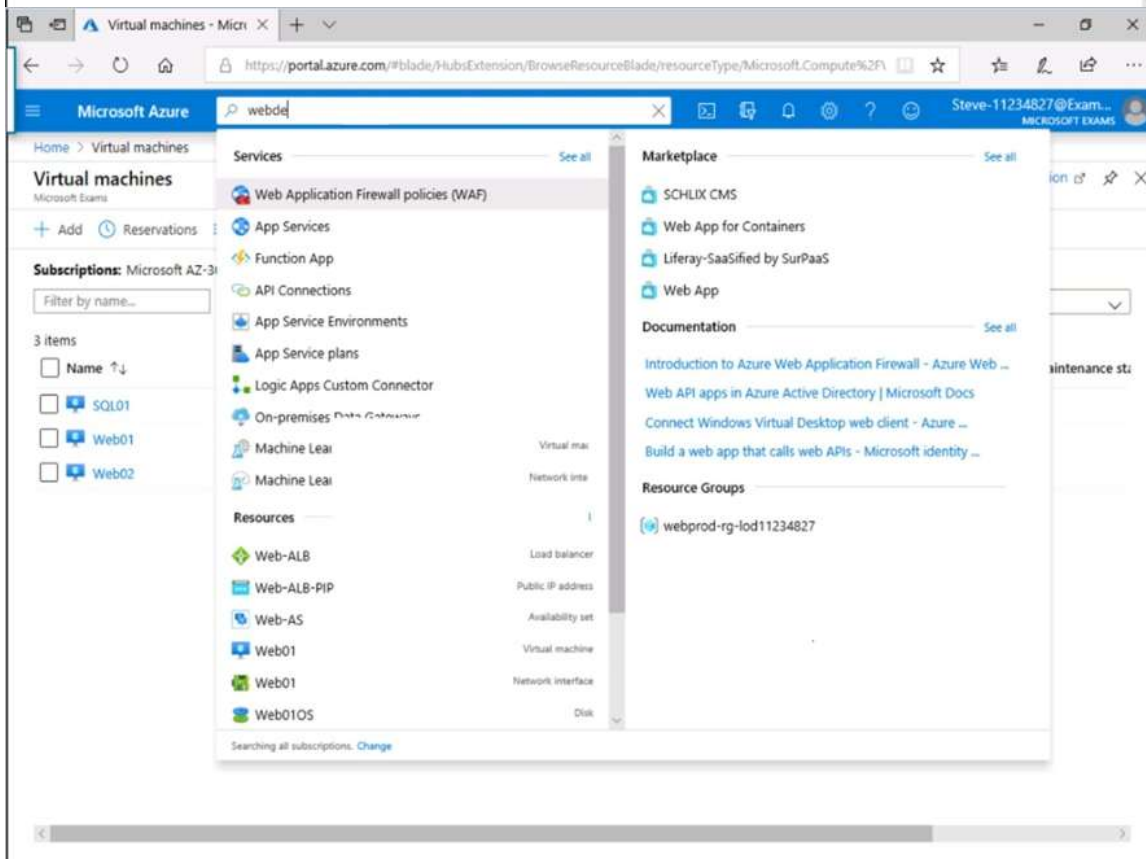




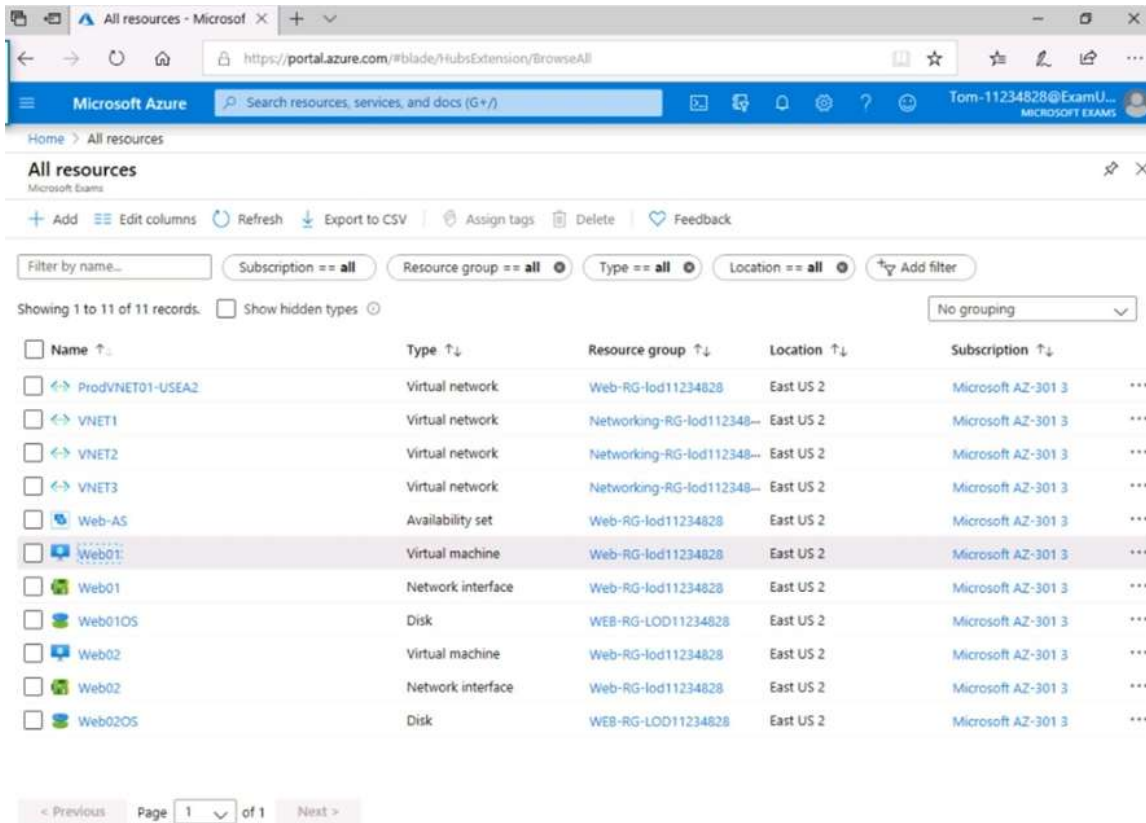
The screenshot shows the Microsoft Azure portal home page. The browser address bar displays <https://portal.azure.com/#home>. The page header includes the Microsoft Azure logo, a search bar, and the user profile 'Steve-11234827@Exam...'. The main content area is divided into three sections:

- Azure services:** A grid of service tiles including 'Create a resource', 'App Services', 'Virtual machines', 'Storage accounts', 'SQL databases', 'Azure Database for PostgreSQL', 'Azure Cosmos DB', 'Kubernetes services', and 'Function App'. A 'More services' link is below the grid.
- Recent resources:** A table listing recently viewed resources.

Name	Type	Last Viewed
homepage	App Service plan	2 min ago
website11234827	App Service	3 min ago
- Navigate:** A section with icons for 'Subscriptions', 'Resource groups', 'All resources', and 'Dashboard'.



The screenshot shows the 'Virtual machines' page in the Microsoft Azure portal. The browser address bar displays <https://portal.azure.com/#blade/HubsExtension/BrowseResourceBlade/resourceType/Microsoft.Compute%2FVirtualMachines>. The page is titled 'Virtual machines' and includes a search bar with the text 'webd'. A search overlay is visible, showing a list of services and resources. The left sidebar shows the 'Virtual machines' section with a list of items: 'SQL01', 'Web01', and 'Web02'. The search overlay lists various services like 'Web Application Firewall policies (WAF)', 'App Services', 'Function App', 'API Connections', 'App Service Environments', 'App Service plans', 'Logic Apps Custom Connector', 'On-premises Data Gateway', 'Machine Learning', and 'Resources' including 'Web-ALB', 'Web-ALB-PIP', 'Web-AS', 'Web01', 'Web01', and 'Web01OS'. The right sidebar shows the 'Marketplace' section with items like 'SCHLIX CMS', 'Web App for Containers', 'Liferay-SaaSified by SurPaaS', and 'Web App'. The 'Documentation' section lists links to Azure Web Application Firewall, Web API apps, Windows Virtual Desktop, and building a web app that calls web APIs. The 'Resource Groups' section shows 'webprod-rg-lod11234827'.



The screenshot shows the Microsoft Azure portal interface. At the top, there's a navigation bar with the Microsoft Azure logo and a search bar. Below that, the 'All resources' section is active, displaying a table of resources. The table has columns for Name, Type, Resource group, Location, and Subscription. The resource 'Web01' is highlighted, showing it is a Virtual machine in the 'Web-RG-lod11234828' resource group, located in 'East US 2'.

Name	Type	Resource group	Location	Subscription
ProdVNET01-USEA2	Virtual network	Web-RG-lod11234828	East US 2	Microsoft AZ-301 3
VNET1	Virtual network	Networking-RG-lod112348...	East US 2	Microsoft AZ-301 3
VNET2	Virtual network	Networking-RG-lod112348...	East US 2	Microsoft AZ-301 3
VNET3	Virtual network	Networking-RG-lod112348...	East US 2	Microsoft AZ-301 3
Web-AS	Availability set	Web-RG-lod11234828	East US 2	Microsoft AZ-301 3
Web01	Virtual machine	Web-RG-lod11234828	East US 2	Microsoft AZ-301 3
Web01	Network interface	Web-RG-lod11234828	East US 2	Microsoft AZ-301 3
Web01OS	Disk	WEB-RG-LOD11234828	East US 2	Microsoft AZ-301 3
Web02	Virtual machine	Web-RG-lod11234828	East US 2	Microsoft AZ-301 3
Web02	Network interface	Web-RG-lod11234828	East US 2	Microsoft AZ-301 3
Web02OS	Disk	WEB-RG-LOD11234828	East US 2	Microsoft AZ-301 3

Use the following login credentials as needed:

To enter your username, place your cursor in the **Sign in** box and click on the username below.

To enter your password, place your cursor in the **Enter password** box and click on the password below.

Azure Username: Tom-11234828@ExamUsers.com

Azure Password: Nq9Md6+!Bj

If the Azure portal does not load successfully in the browser, press CTRL-K to reload the portal in a new browser tab. The following information is for technical support purposes only:

Lab Instance: 11234828

You need to identify the maximum amount of data loss that can occur if a virtual machine fails over to another region. What should you identify?

NOTE: To answer this question, sign in to the Azure portal and explore the Azure resource groups.

- data from the past 24 hours
- data from the past four hours
- data from the past eight hours
- data from the past two hours

Answer:

Need to check which the oldest recovery point that you can use. We can do this by checking the retention window of the replication policy.

Reference:

<https://docs.microsoft.com/en-us/azure/site-recovery/azure-to-azure-common-questions>

QUESTION 266

Please wait while the virtual machine loads. Once loaded, you may proceed to the lab section. This may take a few minutes, and the wait time will not be deducted from your overall test time.

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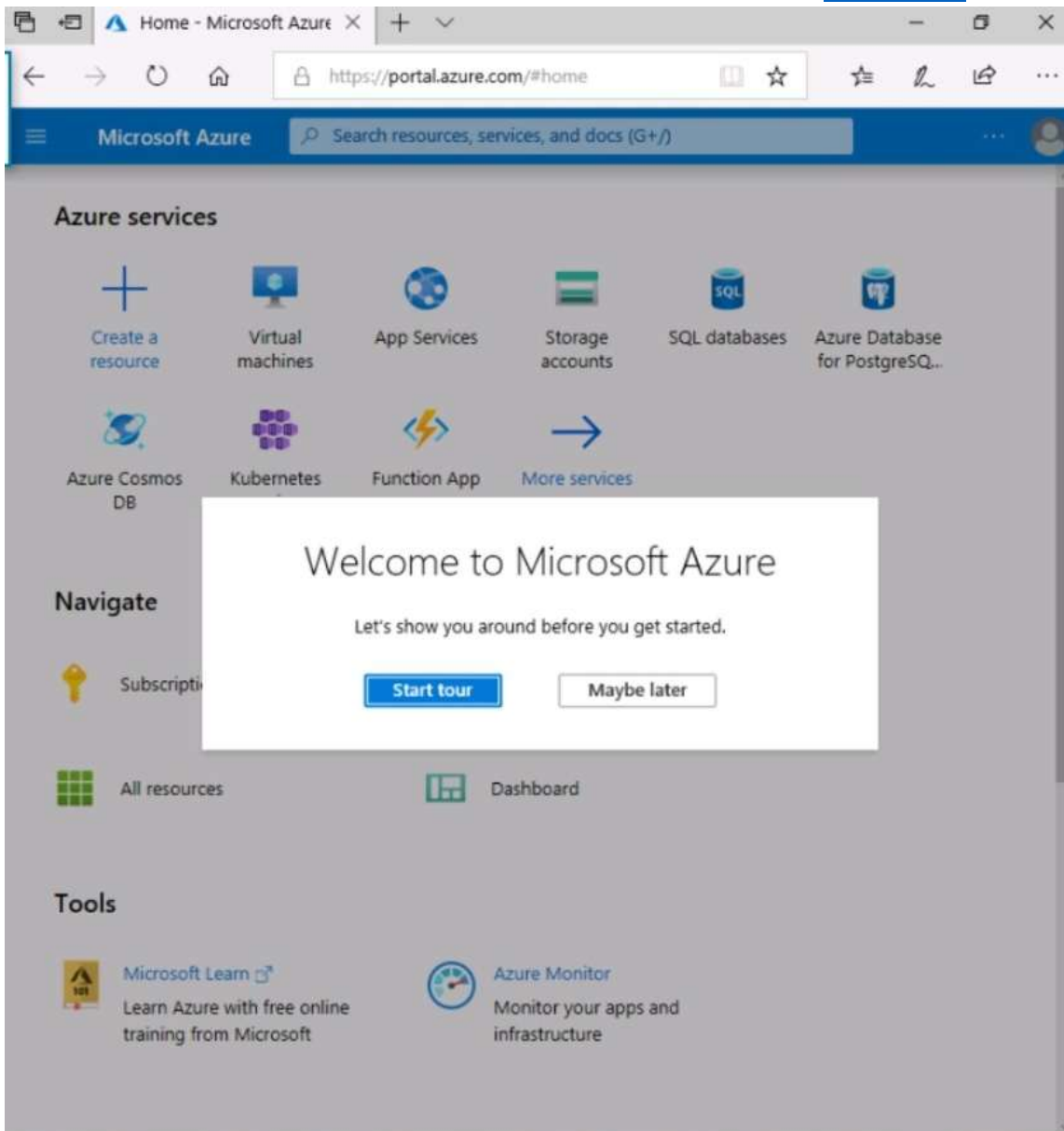
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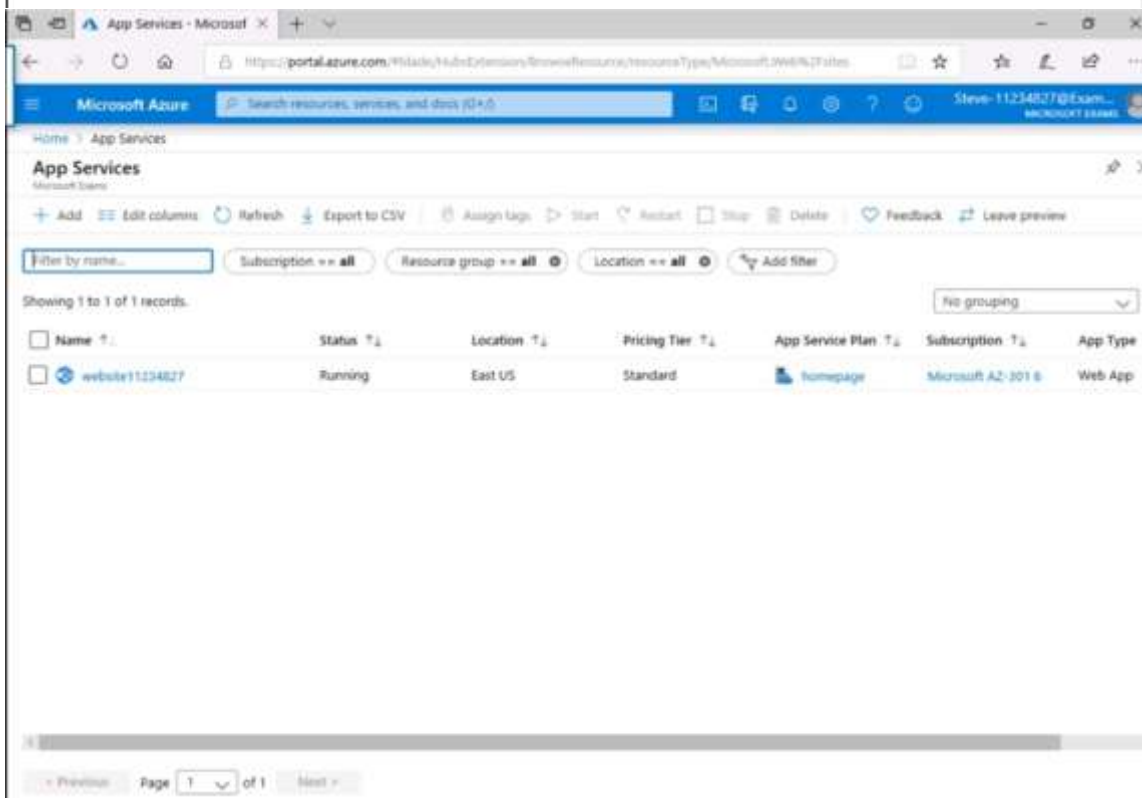
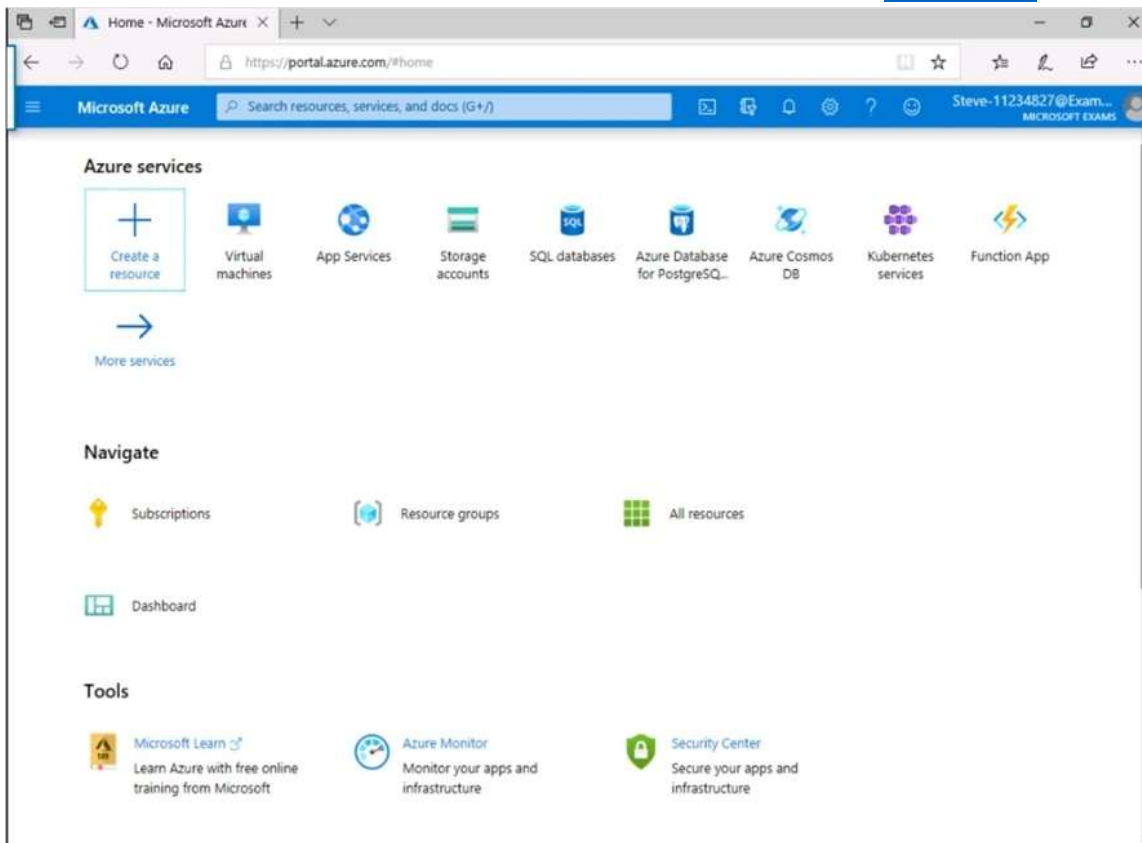
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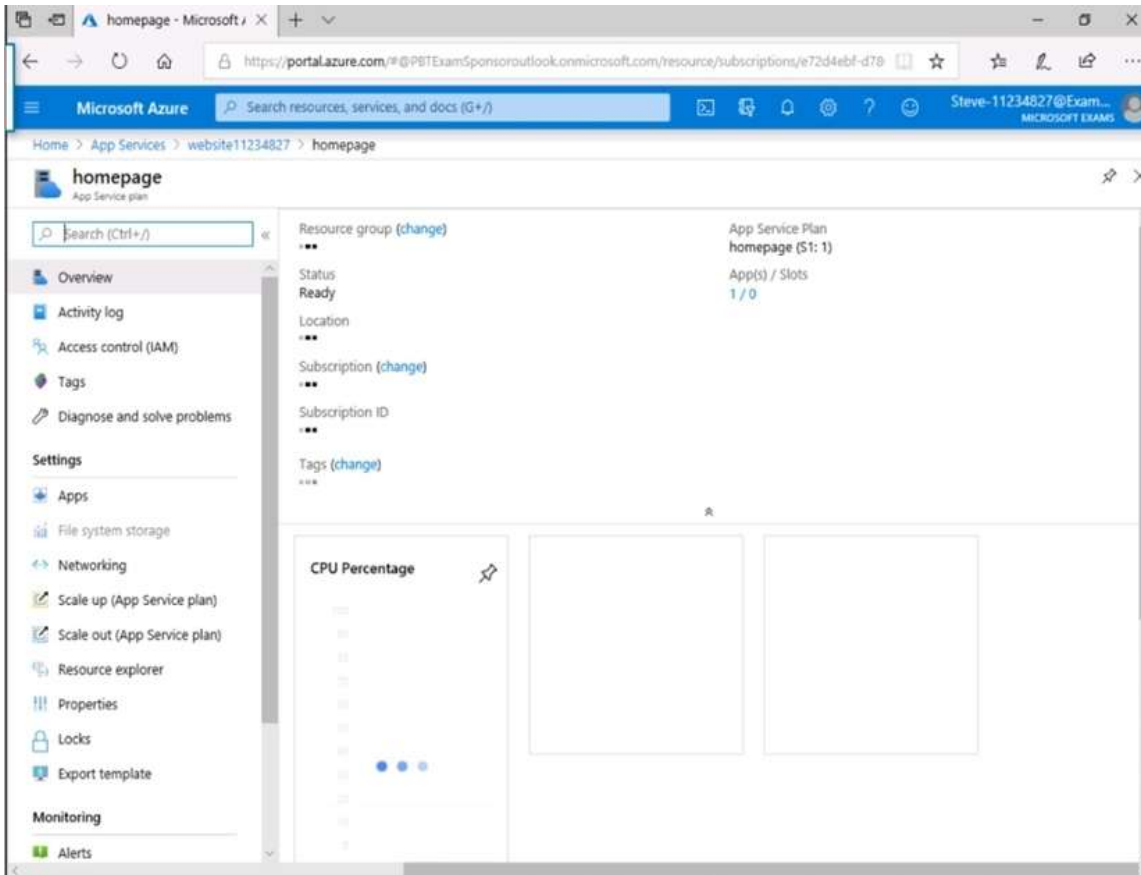
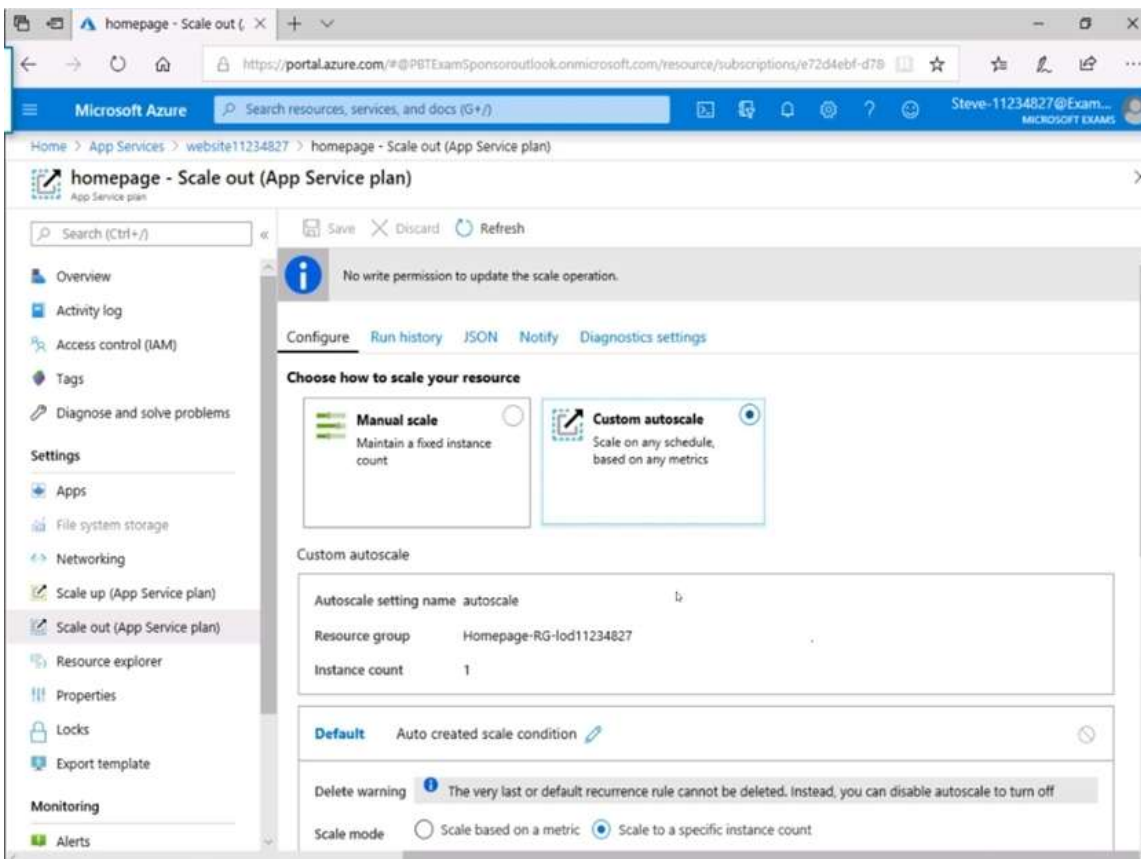
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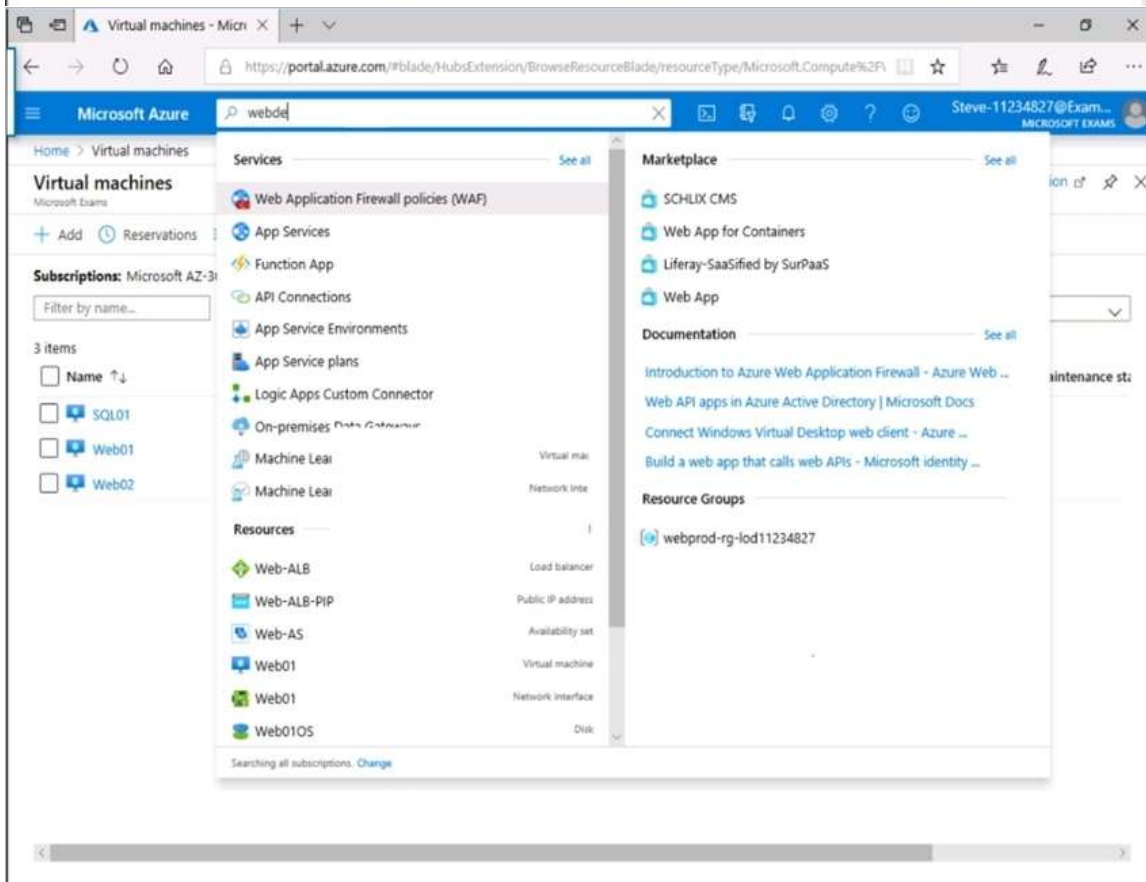
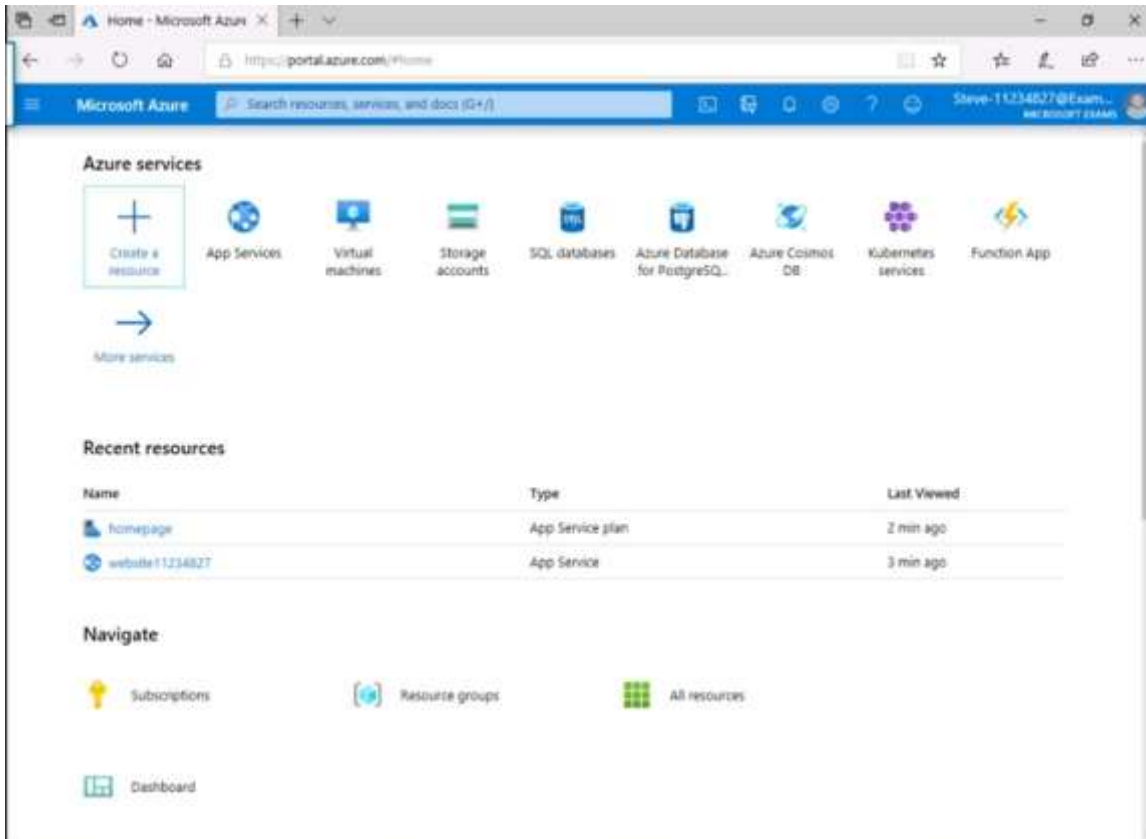


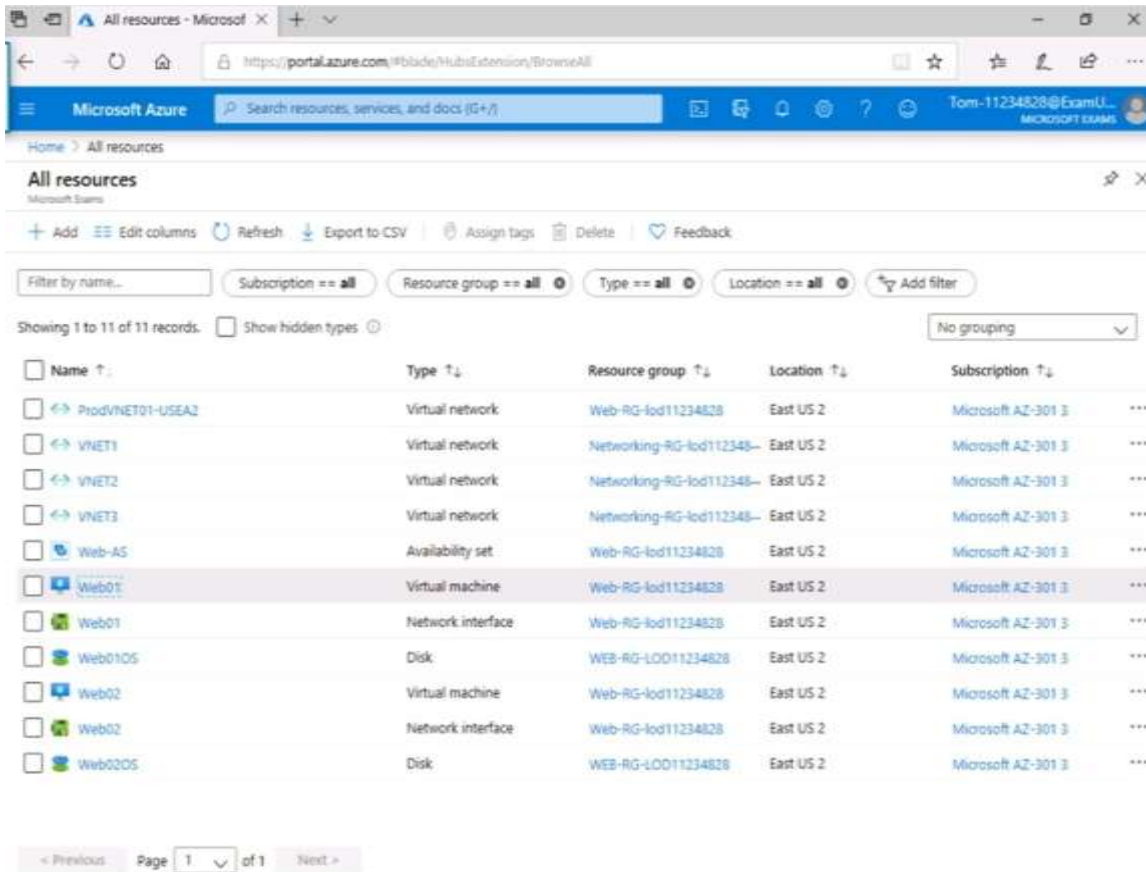
Checking browser capabilities









Name	Type	Resource group	Location	Subscription
ProdVNET01-USEA2	Virtual network	Web-RG-lod11234828	East US 2	Microsoft AZ-301 3
VNET1	Virtual network	Networking-RG-lod112348	East US 2	Microsoft AZ-301 3
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Web01	Network interface	Web-RG-lod11234828	East US 2	Microsoft AZ-301 3
Web01OS	Disk	WEB-RG-L0D11234828	East US 2	Microsoft AZ-301 3
Web02	Virtual machine	Web-RG-lod11234828	East US 2	Microsoft AZ-301 3
Web02	Network interface	Web-RG-lod11234828	East US 2	Microsoft AZ-301 3
Web02OS	Disk	WEB-RG-L0D11234828	East US 2	Microsoft AZ-301 3

Use the following login credentials as needed:

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Azure Username: Tom-11234828@ExamUsers.com

Azure Password: Nq9Md6+IBj

If the Azure portal does not load successfully in the browser, press CTRL-K to reload the portal in a new browser tab.

The following information is for technical support purposes only:

Lab Instance: 11234828

You need to revert to a version of 11286704 that is at least 15 days old.

What should you do?

NOTE: To answer this question, sign in to the Azure portal and explore the Azure resource groups.

- A. Swap a deployment slot.
- B. Restore a snapshot.
- C. Restore a backup.

Answer: C

Explanation:

Select a restore point

In the vault associated with the VM you want to restore, click Backup items > Azure Virtual Machine.

Click a VM. By default on the VM dashboard, recovery points from the last 30 days are displayed. You can display recovery points older than 30 days, or filter to find recovery points based on dates, time ranges, and different types of snapshot consistency.

To restore the VM, click Restore VM.

Reference:

<https://docs.microsoft.com/en-us/azure/backup/backup-azure-arm-restore-vms>

QUESTION 267

You have 100 devices that write performance data to Azure Blob storage.

You plan to store and analyze the performance data in an Azure SQL database.

You need to recommend a solution to move the performance data to the SQL database.

What should you include in the recommendation?

- A. Azure Data Box
- B. Azure Data Factory
- C. Azure Database Migration Service
- D. Data Migration Assistant

Answer: B

Explanation:

You can copy data from Azure Blob to Azure SQL Database using Azure Data Factory.

Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/tutorial-copy-data-dot-net>

QUESTION 268

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 need to deploy resources to host a stateless web app in an Azure subscription. The solution must meet the following requirements:

- Provide access to the full .NET framework.
- Provide redundancy if an Azure region fails.
- Grant administrators access to the operating system to install custom application dependencies.

Solution: You deploy two Azure virtual machines to two Azure regions, and you create a Traffic Manager profile.

Does this meet the goal?

- A. Yes
- B. No

Answer: A