



AZ-900^{Q&As}

Microsoft Azure Fundamentals

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QUESTION 1

HOTSPOT

You create a resource group named RG1 in Azure Resource Manager.

You need to prevent the accidental deletion of the resources in RG1.

Which setting should you use? To answer, select the appropriate setting in the answer area.

Hot Area:



RG1
Resource group

Search (Ctrl + /) <<

- Overview
- Activity log
- Access control (IAM)
- Tags
- Events

Settings

- Quickstart
- Resource costs
- Deployments
- Policies
- Properties
- Locks
- Automation script

Monitoring

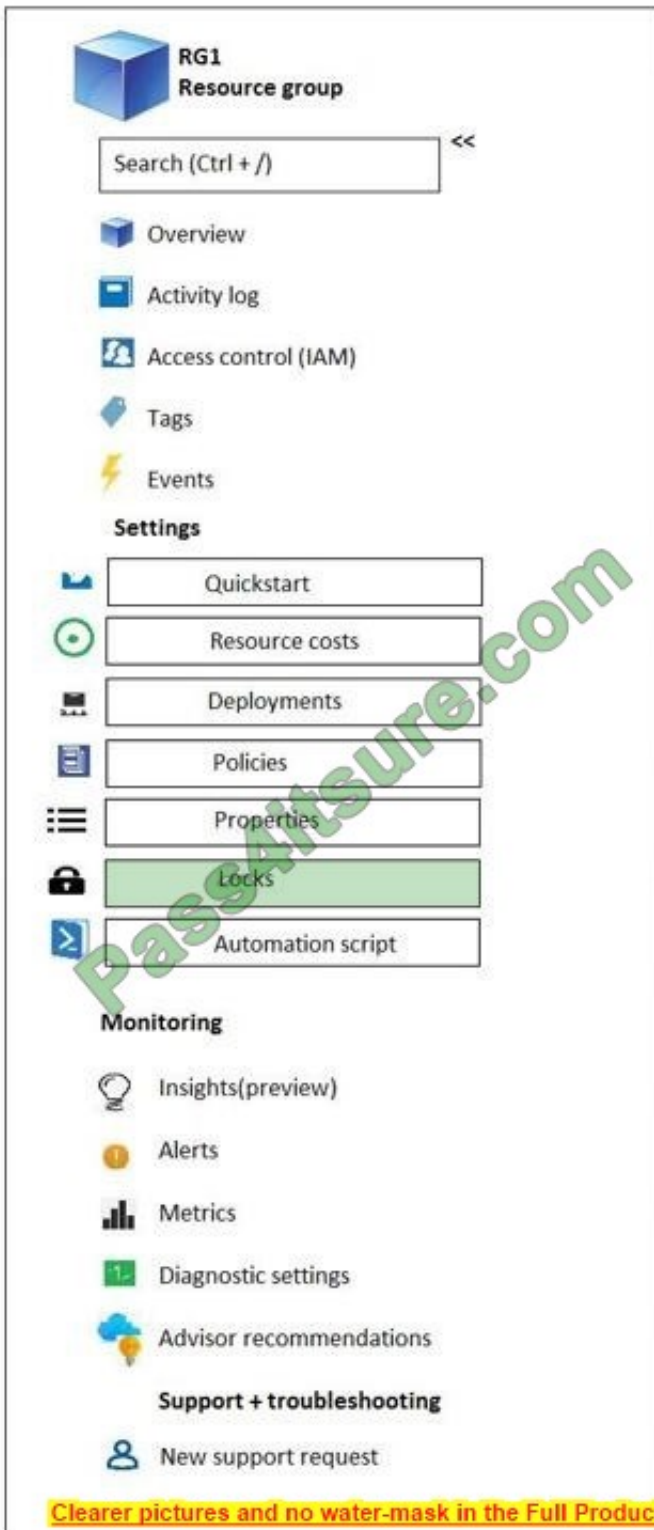
- Insights (preview)
- Alerts
- Metrics
- Diagnostic settings
- Advisor recommendations

Support + troubleshooting

- New support request

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Correct Answer:



You can configure a lock on a resource group to prevent the accidental deletion.

As an administrator, you may need to lock a subscription, resource group, or resource to prevent other users in your organization from accidentally deleting or modifying critical resources. You can set the lock level to CanNotDelete or ReadOnly. In the portal, the locks are called Delete and Read-only respectively.



1.
CanNotDelete means authorized users can still read and modify a resource, but they can't delete the resource.

2.
ReadOnly means authorized users can 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.

Reference: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-lock-resources>

QUESTION 2

HOTSPOT

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 |
|---|--------------------------|--------------------------|
| An Azure service in private preview is released to all Azure customers. | <input type="checkbox"/> | <input type="checkbox"/> |
| An Azure service in public preview is released to all Azure customers. | <input type="checkbox"/> | <input type="checkbox"/> |
| An Azure service in general availability is released to a s Clearer pictures and no water-mask in the Full Product | <input type="checkbox"/> | <input type="checkbox"/> |

Correct Answer:



Answer Area

| Statements | Yes | No |
|---|-------------------------------------|-------------------------------------|
| An Azure service in private preview is released to all Azure customers. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| An Azure service in public preview is released to all Azure customers. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| An Azure service in general availability is released to a s Clearer pictures and no water-mask in the Full Product | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Box 1: No

Most services go to private preview then public preview before being released to general availability. The private preview is only available to certain Azure customers for evaluation purposes.

Box 2: Yes

Public Preview means that the service is in public beta and can be tried out by anyone with an Azure subscription. Services in public preview are often offered at a discount price.

Public previews are excluded from SLAs and in some cases, no support is offered.

Box 3: No

An Azure service in general availability is available to all Azure customers, not just a subset of the customers.

References:

<https://azure-overview.com/Home/Faq>

QUESTION 3

Your company is planning a deployment using Azure Database for PostgreSQL. The deployment should meet the following requirements:

1.



Up to 10 TB storage

2.

Azure Premium Storage

3.

Point-in-time-restore for up to 35 days

You need to select the appropriate deployment and pricing tier to meet these requirements and minimize costs. What should you select?

A. Azure Database for PostgreSQL Single Server Memory Optimized tier

B. Azure Database for PostgreSQL Hyperscale (Citus)

C. Azure Database for PostgreSQL Single Server General Purpose tier

D. Azure Database for PostgreSQL Single Server Basic tier

Correct Answer: C

QUESTION 4

HOTSPOT

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 |
|---|-----------------------|-----------------------|
| The Service Level Agreement (SLA) guaranteed uptime for paid Azure services is at least 99.9 percent. | <input type="radio"/> | <input type="radio"/> |
| Companies can increase the Service Level Agreement (SLA) guaranteed uptime by adding Azure resources to multiple regions. | <input type="radio"/> | <input type="radio"/> |
| Companies can increase the Service Level Agreement (SLA) guaranteed uptime by adding Azure resources to multiple regions. Clearer pictures and no water-mask in the Full Product | <input type="radio"/> | <input type="radio"/> |

Correct Answer:

Answer Area

| Statements | Yes | No |
|---|----------------------------------|----------------------------------|
| The Service Level Agreement (SLA) guaranteed uptime for paid Azure services is at least 99.9 percent. | <input checked="" type="radio"/> | <input type="radio"/> |
| Companies can increase the Service Level Agreement (SLA) guaranteed uptime by adding Azure resources to multiple regions. | <input checked="" type="radio"/> | <input type="radio"/> |
| Companies can increase the Service Level Agreement (SLA) guaranteed uptime by adding Azure resources to multiple regions. Clearer pictures and no water-mask in the Full Product | <input type="radio"/> | <input checked="" type="radio"/> |

QUESTION 5



Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

Your company's Azure subscription includes a Basic support plan.

They would like to request an assessment of an Azure environment's design from Microsoft. This is, however, not supported by the existing plan.

You want to make sure that the company subscribes to a support plan that allows this functionality, while keeping expenses to a minimum.

Solution: You recommend that the company subscribes to the Premier support plan.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

References: <https://azure.microsoft.com/en-gb/support/plans/>

QUESTION 6

Your company plans to migrate all its data and resources to Azure.

The company's migration plan states that only Platform as a Service (PaaS) solutions must be used in Azure.

You need to deploy an Azure environment that meets the company's migration plan.

What should you create?

A. an Azure App Service and Azure SQL databases

B. Azure storage accounts and web server in Azure virtual machines

C. Azure virtual machines, Azure SQL databases, and Azure Storage accounts

D. an Azure App Service and Azure virtual machines that have Microsoft SQL Server installed

Correct Answer: A

Azure App Service and Azure SQL databases are examples of Azure PaaS solutions. Therefore, this solution does meet the goal.

QUESTION 7

HOTSPOT

To complete the sentence, select the appropriate option in the answer area.

Hot Area:



After you create a virtual machine, you need to modify the

| | |
|------------------------------|---|
| | ▼ |
| network security group (NSG) | |
| virtual network gateway | |
| virtual network | |
| route table | |

to allow connections to TCP port 8080 on the virtual machine.

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Correct Answer:

After you create a virtual machine, you need to modify the

| | |
|------------------------------|---|
| | ▼ |
| network security group (NSG) | |
| virtual network gateway | |
| virtual network | |
| route table | |

to allow connections to TCP port 8080 on the virtual machine.

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When you create a virtual machine, the default setting is to create a Network Security Group attached to the network interface assigned to a virtual machine.

A network security group works like a firewall. You can attach a network security group to a virtual network and/or individual subnets within the virtual network. You can also attach a network security group to a network interface assigned to a

virtual machine. You can use multiple network security groups within a virtual network to restrict traffic between resources such as virtual machines and subnets.

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.

In this question, we need to add a rule to the network security group to allow the connection to the virtual machine on port 8080.

Reference:

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

QUESTION 8

HOTSPOT 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 |
|--|--------------------------|--------------------------|
| Each Azure subscription can contain multiple account administrators. | <input type="checkbox"/> | <input type="checkbox"/> |
| Each Azure subscription can be managed by using a Microsoft account only. | <input type="checkbox"/> | <input type="checkbox"/> |
| An Azure subscription can be managed by using an Azure Active Directory account. | <input type="checkbox"/> | <input type="checkbox"/> |

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Correct Answer:

Answer Area

| Statements | Yes | No |
|--|-------------------------------------|-------------------------------------|
| Each Azure subscription can contain multiple account administrators. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Each Azure subscription can be managed by using a Microsoft account only. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| An Azure subscription can be managed by using an Azure Active Directory account. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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Box 1: Yes

You can assign additional account administrators in the Azure Portal.

Box 2: No

You need an Azure Active Directory account to manage a subscription, not a Microsoft account.

An account is created in the Azure Active Directory when you create the subscription. Further accounts can be created in the Azure Active Directory to manage the subscription.

Box 3: No

Resource groups are logical containers for Azure resources. However, resource groups do not contain subscriptions. Subscriptions contain resource groups.

References:

<https://docs.microsoft.com/en-us/office365/enterprise/subscriptions-licenses-accounts-and-tenants-for-microsoft-cloud-offerings>

QUESTION 9

HOTSPOT

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



NOTE: Each correct match is worth one point.

Hot Area:

| Statements | Yes | No |
|---|-----------------------|-----------------------|
| Azure DevOps Services allows developers to deploy or update applications to Azure using Continuous Integration/Continuous Delivery (CI/CD) pipelines. | <input type="radio"/> | <input type="radio"/> |
| Azure DevOps Services includes a Git repository for developers to store code. | <input type="radio"/> | <input type="radio"/> |
| Azure DevOps Services includes a Git repository for developers to store code. | <input type="radio"/> | <input type="radio"/> |

Correct Answer:

| Statements | Yes | No |
|---|----------------------------------|-----------------------|
| Azure DevOps Services allows developers to deploy or update applications to Azure using Continuous Integration/Continuous Delivery (CI/CD) pipelines. | <input checked="" type="radio"/> | <input type="radio"/> |
| Azure DevOps Services includes a Git repository for developers to store code. | <input checked="" type="radio"/> | <input type="radio"/> |
| Azure DevOps Services includes a Git repository for developers to store code. | <input type="radio"/> | <input type="radio"/> |

QUESTION 10

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

Your company's developers intend to deploy a large number of custom virtual machines on a weekly basis. They will also be removing these virtual machines during the same week it was deployed. Sixty percent of the virtual machines have

Windows Server 2016 installed, while the other forty percent has Ubuntu Linux installed.

You are required to make sure that the administrative effort, needed for this process, is reduced by employing a suitable Azure service.

Solution: you recommend the use of Azure Reserved Virtual Machines (VM) Instances.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

**QUESTION 11**

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 subscription named Subscription1. You sign in to the Azure portal and create a resource group named RG1.

From Azure documentation, you have the following command that creates a virtual machine named VM1.

```
az vm create --resource-group RG1 --name VM1 -- image
```

```
UbuntuLTS --generate-ssh-keys
```

You need to create VM1 in Subscription1 by using the command.

Solution: From a computer that runs Windows 10, install Azure CLI. From a command prompt, sign in to Azure and then run the command.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

The command can be run from PowerShell or the command prompt if you have the Azure CLI installed.

References: <https://docs.microsoft.com/en-us/cli/azure/install-azure-cli-windows?view=azure-cli-latest>

QUESTION 12

| Statements | Yes | No |
|--|----------------------------------|----------------------------------|
| You can nest resource groups. | <input type="radio"/> | <input checked="" type="radio"/> |
| An Azure virtual machine can be in multiple resource groups. | <input checked="" type="radio"/> | <input type="radio"/> |

HOTSPOT

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:

| Statements | Yes | No |
|---|-----------------------|-----------------------|
| Azure resources can only access other resources in the same resource group. | <input type="radio"/> | <input type="radio"/> |
| If you delete Clearer pictures and no water-mask in the Full Product | | <input type="radio"/> |

Correct Answer:

| Statements | Yes | No |
|---|-----------------------|----------------------------------|
| Azure resources can only access other resources in the same resource group. | <input type="radio"/> | <input checked="" type="radio"/> |
| If you delete Clearer pictures and no water-mask in the Full Product | | <input type="radio"/> |

QUESTION 13

HOTSPOT

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:

| Statements | Yes | No |
|--|-----------------------|-----------------------|
| Microsoft SQL Server 2019 installed on an Azure virtual machine is an example of platform as a service (PaaS). | <input type="radio"/> | <input type="radio"/> |
| Azure SQL Database is an example of platform as a service (PaaS). | <input type="radio"/> | <input type="radio"/> |
| Clearer pictures and no water-mask in the Full Product | | |
| Azure Cosmos DB is an example of software as a service (SaaS). | <input type="radio"/> | <input type="radio"/> |

Correct Answer:



| Statements | Yes | No |
|--|----------------------------------|----------------------------------|
| Microsoft SQL Server 2019 installed on an Azure virtual machine is an example of platform as a service (PaaS). | <input type="radio"/> | <input checked="" type="radio"/> |
| Azure SQL Database is an example of platform as a service (PaaS). | <input checked="" type="radio"/> | <input type="radio"/> |
| Clearer pictures and no water-mask in the Full Product | | |
| Azure Cosmos DB is an example of software as a service (SaaS). | <input checked="" type="radio"/> | <input type="radio"/> |

Reference: <https://docs.microsoft.com/en-us/azure/azure-sql/azure-sql-iaas-vs-paas-what-is-overview> <https://www.red-gate.com/simple-talk/cloud/azure/overview-of-azure-cosmos-db>

QUESTION 14

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

others might not have a correct solution.

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

You have an Azure subscription named Subscription1. You sign in to the Azure portal and create a resource group named RG1.

From Azure documentation, you have the following command that creates a virtual machine named VM1.

```
az vm create --resource-group RG1 --name VM1 -- image
```

```
UbuntuLTS --generate-ssh-keys
```

You need to create VM1 in Subscription1 by using the command.

Solution: From the Azure portal, launch Azure Cloud Shell and select PowerShell. Run the command in Cloud Shell.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

The command can be run in the Azure Cloud Shell. Although this question says you select PowerShell rather than Bash, the Az commands will work in PowerShell.

The Azure Cloud Shell is a free interactive shell. It has common Azure tools preinstalled and configured to use with your account.

To open the Cloud Shell, just select Try it from the upper right corner of a code block. You can also launch Cloud Shell in a separate browser tab by going to <https://shell.azure.com/bash>.



Reference:

<https://docs.microsoft.com/en-us/azure/virtual-machines/linux/quick-create-cli>

QUESTION 15

What can you use to identify underutilized or unused Azure virtual machines?

- A. Azure Advisor
- B. Azure Cost Management + Billing
- C. Azure reservations
- D. Azure Policy

Correct Answer: A

Azure Advisor helps you optimize and reduce your overall Azure spend by identifying idle and underutilized resources. You can get cost recommendations from the Cost tab on the Advisor dashboard.

Reference: <https://docs.microsoft.com/en-us/azure/advisor/advisor-overview>

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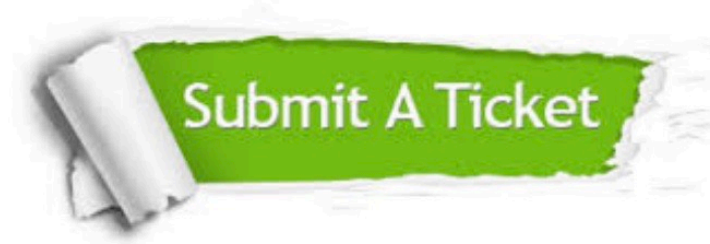
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