



AZ-104^{Q&As}

Microsoft Azure Administrator

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**QUESTION 1**

You have an Azure subscription that contains an Azure Storage account. You plan to create an Azure container instance named container1 that will use a Docker image named Image1. Image1 contains a Microsoft SQL Server instance that

requires persistent storage. You need to configure a storage service for Container1.

What should you use?

- A. Azure Files
- B. Azure Blob storage
- C. Azure Queue storage
- D. Azure Table storage

Correct Answer: A

Microsoft have Docker Volume Plugin for Azure file storage which provides exactly this and it is used for Azure file shares.

Azure File Storage volume plugin is not limited to ease of container migration. It also allows a file share to be shared among multiple containers (even though they are on different hosts) to collaborate on workloads, share configuration or secrets of an application running on multiple hosts. Another use case is uploading metrics and diagnostics data such as logs from applications to a file share for further processing.

Reference:

<https://azure.microsoft.com/en-gb/blog/persistent-docker-volumes-with-azure-file-storage/>

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 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 that contains the resources shown in the following table.



Name	Type	Location	Resource group
RG1	Resource group	East US	<i>Not applicable</i>
RG2	Resource group	West Europe	<i>Not applicable</i>
RG3	Resource group	North Europe	<i>Not applicable</i>
VNET1	Virtual network	Central US	RG1
VM1	Virtual machine	West US	RG2

VM1 connects to a virtual network named VNET2 by using a network interface named NIC1. You need to create a new network interface named NIC2 for VM1.

Solution: You create NIC2 in RG1 and West US.

Does this meet the goal?

- A. Yes
- B. NO

Correct Answer: A

The virtual machine you attach a network interface to and the virtual network you connect it to must exist in the same location, here West US, also referred to as a region.

References:

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

QUESTION 3

HOTSPOT

You have an Azure subscription.

You need to implement a custom policy that meet the following requirements:

*Ensures that each new resource group in the subscription has a tag named organization set to a value of Contoso.

*Ensures that resource group can be created from the Azure portal. *Ensures that compliance reports in the Azure portal are accurate. How should you complete the policy? To answer, select the appropriate options in the answers area.

Hot Area:



```
{
  "policyRule": {
    "if": {
      "allOf": {
        {
          "field": "type",
          "equals":
```

"Microsoft.Resources/deployments"
"Microsoft.Resources/subscriptions"
"Microsoft.Resources/subscriptions/resourceGroups"

```
},
    "not": {
      "field": "tags['organization']",
      "equals": "Contoso"
    }
  ]
},
"then": {
  "effect": "Append",
  "details": [
    {
      "field": "tags['organization']",
      "value": "Contoso"
    }
  ]
}
```

"Append",
"Deny",
"DeployifNotExists",

Correct Answer:



```
{  
  "policyRule": {  
    "if": {  
      "allOf": {  
        {  
          "field": "type",  
          "equals":
```

▼
"Microsoft.Resources/deployments"
"Microsoft.Resources/subscriptions"
"Microsoft.Resources/subscriptions/resourceGroups"

```
},  
    "not": {  
      "field": "tags['organization']",  
      "equals": "Contoso"  
    }  
  }  
},  
"then": {  
  "effect": {  
    "details": [  
      {  
        "field": "tags['organization']",  
        "value": "Contoso"  
      }  
    ]  
  }  
}
```

▼
"Append",
"Deny",
"DeployifNotExists",

Box 1: "Microsoft.Resources/subscriptions/resourceGroups" To create a new resource group in a subscription, account have at least the this permission.

Box 2: "Append" Append adds fields to the resource when the if condition of the policy rule is met. If the append effect would override a value in the original request with a different value, then it acts as a deny effect and rejects the request. To append a new value to an existing array, use the [*] version of the alias



Reference: <https://docs.microsoft.com/en-us/azure/governance/policy/concepts/definition-structure>
<https://docs.microsoft.com/en-us/azure/role-based-access-control/custom-roles> <https://docs.microsoft.com/en-us/azure/governance/policy/concepts/effects>

QUESTION 4

You have an Azure Active Directory (Azure AD) tenant named contoso.com that is synced to an Active Directory domain. The tenant contains the users shown in the following table.

Name	Type	Source
User1	Member	Azure AD
User2	Member	Windows Server Active Directory
User3	Guest	Microsoft account
User4	Member	Windows Server Active Directory

The users have the attributes shown in the following table.

Name	Office phone	Mobile phone
User1	222-555-1234	222-555-2345
User2	null	null
User3	222-555-1234	222-555-2346
User4	222-555-1234	null

You need to ensure that you can enable Azure Multi-Factor Authentication (MFA) for all four users.

Solution: You add an office phone number for User2.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

User3 requires a user account in Azure AD.

Note: Your Azure AD password is considered an authentication method. It is the one method that cannot be disabled.

References:

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

QUESTION 5

Your company has a main office in London that contains 100 client computers. Three years ago, you migrated to Azure Active Directory (Azure AD). The company's security policy states that all personal devices and corporate-owned devices



must be registered or joined to Azure AD.

A remote user named User1 is unable to join a personal device to Azure AD from a home network. You verify that other users can join their devices to Azure AD. You need to ensure that User1 can join the device to Azure AD.

What should you do?

- A. From the Device settings blade, modify the Users may join devices to Azure AD setting.
- B. From the Device settings blade, modify the Maximum number of devices per user setting.
- C. Create a point-to-site VPN from the home network of User1 to Azure.
- D. Assign the User administrator role to User1.

Correct Answer: B

The Maximum number of devices setting enables you to select the maximum number of devices that a user can have in Azure AD. If a user reaches this quota, they will not be able to add additional devices until one or more of the existing

devices are removed.

Incorrect Answers:

A: The Users may join devices to Azure AD setting enables you to select the users who can join devices to Azure AD. Options are All, Selected and None. The default is All.

C: Azure AD Join enables users to join their devices to Active Directory from anywhere as long as they have connectivity with the Internet.

References:

<https://docs.microsoft.com/en-us/azure/active-directory/devices/device-management-azure-portal>
<http://techgenix.com/pros-and-cons-azure-ad-join/>

QUESTION 6

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. Azure Active Directory (AD) Identity Protection and an Azure policy
- B. a Recovery Services vault and a backup policy
- C. an Azure Key Vault and an access policy
- D. an Azure Storage account and an access policy

Correct Answer: BD

D: Seamless SSO works with any method of cloud authentication - Password Hash Synchronization or Pass-through Authentication, and can be enabled via Azure AD Connect.

B: 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-ssso.com> Incorrect Answers:

A: Seamless SSO needs the user's device to be domain-joined, but doesn't need for the device to be Azure AD Joined.

C: Azure AD connect does not port 8080. It uses port 443.

E: Seamless SSO is not applicable to Active Directory Federation Services (ADFS). 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-ssso-quick-start>

QUESTION 7

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. the security recommendations in Azure Advisor
- C. Diagnostic settings in Azure Monitor
- D. Diagnose and solve problems in Traffic Manager Profiles
- E. IP flow verify in Azure Network Watcher

Correct Answer: E

Scenario: Litware 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 8

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



Refresh	Move	Delete
Resource group (change) Production		Address space 10.2.0.0/16
Location West US		DNS servers Azure provided DNS service
Subscription (change) Production subscription		
Subscription ID 14d26092-8e42-4ea7-b770-9dcef70fb1ea		
Tags (change) Click here to add tags		

Connected devices

DEVICE	TYPE	IP ADDRESS	SUBNET
No results.			

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

Correct Answer: B

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 9

HOTSPOT

You have an Azure subscription named Subscription1 that has a subscription ID of c276fc76-9cd4-44c9-99a7-4fd71546436e.

You need to create a custom RBAC role named CR1 that meets the following requirements:

1.

Can be assigned only to the resource groups in Subscription1

2.

Prevents the management of the access permissions for the resource groups

3.

Allows the viewing, creating, modifying, and deleting of resources within the resource groups

What should you specify in the assignable scopes and the permission elements of the definition of CR1? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



"assignableScopes": [

	▼
"/	
"/subscriptions/c276fc76-9cd4-44c9-99a7-4fd71546436e"	
"/subscriptions/c276fc76-9cd4-44c9-99a7-4fd71546436e/resourceGroups"	

],
"permissions": [

{
 "actions": [

 "*"

],

 "additionalProperties": {},

 "dataActions": [],

 "notActions": [

	▼
"Microsoft.Authorization/"	
"Microsoft.Resources/"	
"Microsoft.Security/"	

],
 "notDataActions": []
}
],

Correct Answer:



"assignableScopes": [

"/
"/subscriptions/c276fc76-9cd4-44c9-99a7-4fd71546436e"
"/subscriptions/c276fc76-9cd4-44c9-99a7-4fd71546436e/resourceGroups"

],
"permissions": [

```
{
  "actions": [
    "*"
  ],
  "additionalProperties": {},
  "dataActions": [],
  "notActions": [
```

"Microsoft.Authorization/"
"Microsoft.Resources/"
"Microsoft.Security/"

```
],
  "notDataActions": []
}
],
```

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

<https://docs.microsoft.com/en-us/azure/role-based-access-control/resource-provider-operations#microsoftresources>

QUESTION 10

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. RG1
- B. VM1
- C. Storage1
- D. Container1

Correct Answer: A

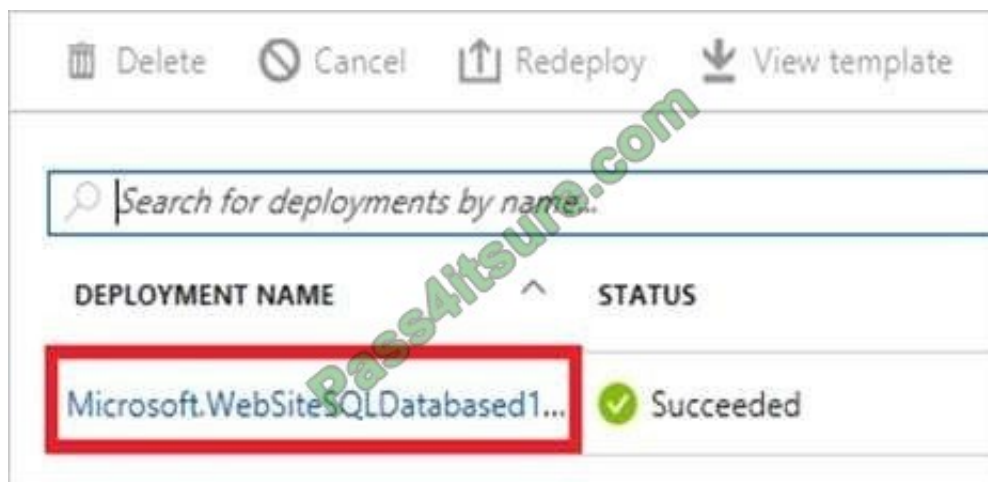
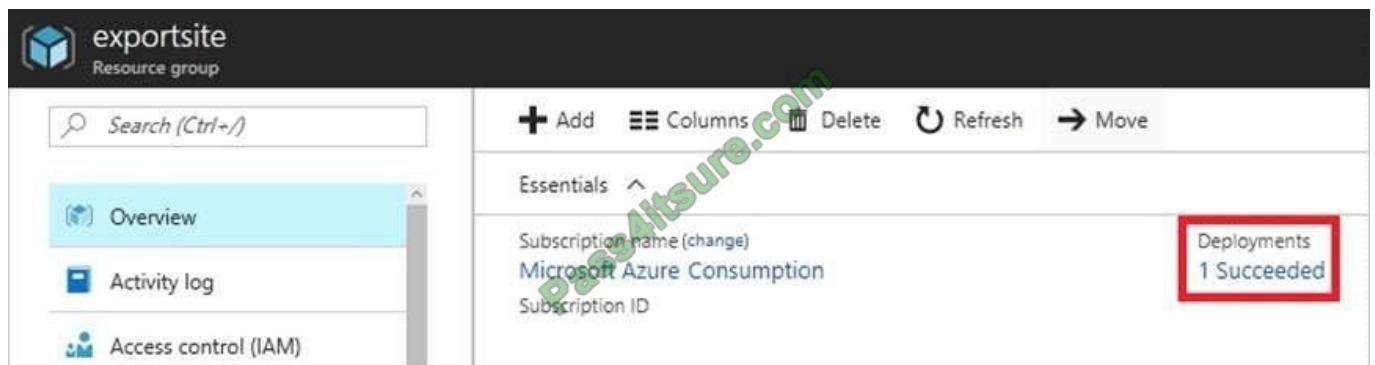
1.

View template from deployment history

Go to the resource group for your new resource group. Notice that the portal shows the result of the last deployment. Select this link.

2.

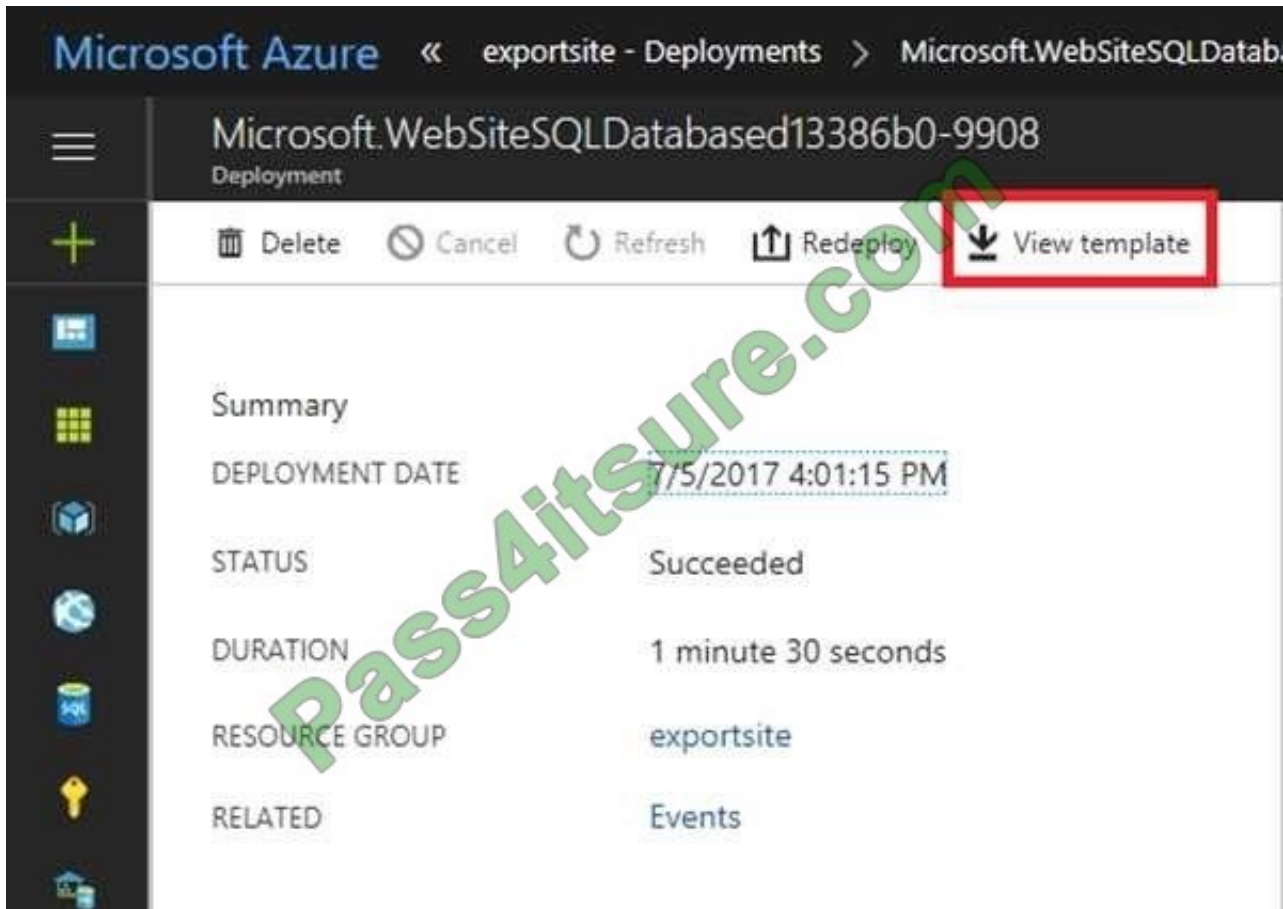
You see a history of deployments for the group. In your case, the portal probably lists only one deployment. Select this deployment.



The portal displays a summary of the deployment. The summary includes the status of the deployment and its operations and the values that you provided for parameters. To see the template that you used for the deployment,



select View template.



References: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-export-template>

QUESTION 11

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

- 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 script blade of the resource group, click the **Parameters** tab.
- From the Automation script blade of the resource group, click **Deploy**.
- From the Automation Accounts service, add an automation account.
- From the Automation script blade of the resource group, click **Add to library**.

Answer Area

-
-
-



Correct Answer:

Actions

-
-
- From the Automation script blade of the resource group, click the **Parameters** tab.
- From the Automation script blade of the resource group, click **Deploy**.
- From the Automation Accounts service, add an automation account.
-

Answer Area

- Create a resource group, and then deploy a web app to the resource group.
- 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.



Scenario:

1.
Web administrators will deploy Azure web apps for the marketing department.
2.
Each web app will be added to a separate resource group.
- 3.



The initial configuration of the web apps will be identical.

4.

The web administrators have permission to deploy web apps to resource groups.

Steps:

1 --> Create a resource group, and then deploy a web app to the resource group.

2 --> From the Automation script blade of the resource group , click Add to Library.

3 --> From the Templates service, select the template, and then share the template to the web administrators .

References:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/quickstart-createtemplates-use-the-portal>

QUESTION 12

HOTSPOT

You plan to use Azure Network Watcher to perform the following tasks:

1.

Task1: Identify a security rule that prevents a network packet from reaching an Azure virtual machine

2.

Task2: Validate outbound connectivity from an Azure virtual machine to an external host

Which feature should you use for each task? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Task1:

	▼
IP flow verify	
Next hop	
Packet capture	
Security group view	
Traffic Analytics	

Task2:

	▼
Connection troubleshoot	
IP flow verify	
Next hop	
NSG flow logs	
Traffic Analytics	

Correct Answer:

Task1:

	▼
IP flow verify	
Next hop	
Packet capture	
Security group view	
Traffic Analytics	

Task2:

	▼
Connection troubleshoot	
IP flow verify	
Next hop	
NSG flow logs	
Traffic Analytics	

Task 1: IP flow verify The IP flow verify capability enables you to specify a source and destination IPv4 address, port, protocol (TCP or UDP), and traffic direction (inbound or outbound). IP flow verify then tests the communication and



informs you if the connection succeeds or fails. If the connection fails, IP flow verify tells you which security rule allowed or denied the communication, so that you can resolve the problem.

Task 2: Connection troubleshoot The connection troubleshoot capability enables you to test a connection between a VM and another VM, an FQDN, a URI, or an IPv4 address. The test returns similar information returned when using the connection monitor capability, but tests the connection at a point in time, rather than monitoring it over time.

Reference: <https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-monitoring-overview>

<https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-ip-flow-verify-overview>

<https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-connectivity-overview>

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