## **AZ-500 Exam Topics Review Questions**

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## Contents

1. Stored access policy	2
2. Same as 1	2
3. Connect HDInsight to your on-premises network	2
4. Same as 3	3
5. Password hash synchronization with seamless single sign-on (SSO)	3
6. Synchronization Rules Editor	3
7. Conditional access policies	4
8. Azure AD Identity Protection user risk policy	5
9. Access Review	7
10. Access Review	8
11. Privileged Identity Management (PIM)	10
12. Conditional Access and MFA	12
13. Azure AD Privileged Identity Management (PIM)	13
14. Uploading and downloading images to a Registry	13
15. Configure Azure DNS to host a custom domain for your web apps	14
16. Stored Access Policy	14
17. Connect HDInsight to your on-premises network	15
18. Identify which roles and groups are required to configure AD Connect	15
19. Same as 11	16
20. Same as 3	16
21. Same as 1	16
22. Azure AD Privileged Identity Management (PIM)	16
23. SQL Authentication: Active Directory - Password	17
24. Azure Resource Manager templates: parameters file	17
25. Conditional Access Policy	18
26. Transfering the ownership of Sub1 to Admin1	19
27. Azure Blueprints	20

Topic 2 – Question set 2	21
1. Install the container network interface (CNI) plug-in.	21
2. Azure Desired State Configuration (DSC) virtual machine extension	22
3. HubVNet and SpokeVNet	23
4. DeployIfNotExists	23

#### 1. Stored access policy

You have an Azure Storage account named Sa1 in a resource group named RG1. Users and applications access the blob service and the le service in Sa1 by using several shared access signatures (SASs) and stored access policies.

You discover that unauthorized users accessed both the le service and the blob service.

You need to revoke all access to Sa1.

Solution: You generate new SASs. Does this meet the goal? No

Instead, you should create a new stored access policy. To revoke a stored access policy, you can either delete it, or rename it by changing the signed identifier. Changing the signed identifier breaks the associations between any existing signatures and the stored access policy.

Deleting or renaming the stored access policy immediately affects all of the shared access signatures associated with it.

References: <a href="https://docs.microsoft.com/en-us/rest/api/storageservices/Establishing-a-Stored-Access-Policy">https://docs.microsoft.com/en-us/rest/api/storageservices/Establishing-a-Stored-Access-Policy</a>

#### 2. Same as 1

## 3. Connect HDInsight to your on-premises network

You have a hybrid configuration of Azure Active Directory (Azure AD). You have an Azure HDInsight cluster on a virtual network. You plan to allow users to authenticate to the cluster by using their onpremises Active Directory credentials. You need to configure the environment to support the planned authentication.

Solution: You deploy the On-premises data gateway to the on-premises network. Does this meet the goal? NO

Instead, you connect HDInsight to your on-premises network by using Azure Virtual Networks and a VPN gateway.

Note: To allow HDInsight and resources in the joined network to communicate by name, you must perform the following actions:

○ Create Azure Virtual Network.

- Create a custom DNS server in the Azure Virtual Network.
- © Configure the virtual network to use the custom DNS server instead of the default Azure Recursive Resolver.
- Configure forwarding between the custom DNS server and your on-premises DNS server.

References: https://docs.microsoft.com/en-us/azure/hdinsight/connect-on-premises-network

#### 4. Same as 3

## 5. Password hash synchronization with seamless single sign-on (SSO)

You plan to deploy Azure AD Connect and to integrate Active Directory and the Azure AD tenant. You need to recommend an integration solution that meets the following requirements:

□ Ensures that password policies and user logon restrictions apply to user accounts that are synced to the tenant Minimizes the number of servers required for the solution.

**Password hash synchronization** requires the least effort regarding deployment, maintenance, and infrastructure. This level of effort typically applies to organizations that only need their users to sign into Office 365, SaaS apps, and other Azure AD-based resources. When turned on, password hash synchronization is part of the Azure AD Connect sync process and runs every two minutes.

A federated authentication system relies on an external trusted system to authenticate users. Some companies want to reuse their existing federated system investment with their Azure AD hybrid identity solution. The maintenance and management of the federated system falls outside the control of Azure AD. It's up to the organization by using the federated system to make sure it's deployed securely and can handle the authentication load.

For pass-through authentication, you need one or more (we recommend three) lightweight agents installed on existing servers. These agents must have access to your on-premises Active Directory Domain Services, including your on-premises AD domain controllers. They need outbound access to the Internet and access to your domain controllers. For this reason, it's not supported to deploy the agents in a perimeter network.

Pass-through Authentication requires unconstrained network access to domain controllers. All network trac is encrypted and limited to authentication requests.

References: https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-pta

#### 6. Synchronization Rules Editor

You need to prevent users who have a givenName attribute that starts with TEST from being synced to Azure AD. The solution must minimize administrative effort.

What should you use?

Use the Synchronization Rules Editor and write attribute-based filtering rule. References: <a href="https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-sync-change-the-conguration">https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-sync-change-the-conguration</a>

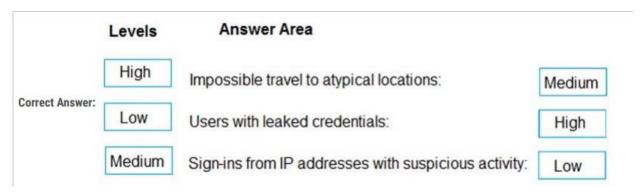
#### 7. Conditional access policies.

You must evaluate the existing Azure Active Directory (Azure AD) risk events and risk levels to configure and implement the policies.

You need to identify the risk level of the following risk events:

- Users with leaked credentials
- Impossible travel to atypical locations
- → Sign-ins from IP addresses with suspicious activity

Which level should you identify for each risk event?



Azure AD Identity protection can detect six types of suspicious sign-in activities:

- 1. Users with leaked credentials
- 2. Sign-ins from anonymous IP addresses
- 3. Impossible travel to atypical locations
- 4. Sign-ins from infected devices
- 5. Sign-ins from IP addresses with suspicious activity
- 6. Sign-ins from unfamiliar locations

These six types of events are categorized in to 3 levels of risks: High, Medium & Low

Sign-in Activity	Risk Level
Users with leaked credentials	High
Sign-ins from anonymous IP addresses	Medium
Impossible travel to atypical locations	Medium
Sign-ins from infected devices	Medium
Sign-ins from IP addresses with suspicious activity	Low
Sign-ins from unfamiliar locations	Medium

## 8. Azure AD Identity Protection user risk policy

You create and enforce an Azure AD Identity Protection user risk policy that has the following settings:

→ Assignment: Include Group1, Exclude Group2

○ Conditions: Sign-in risk of Medium and above

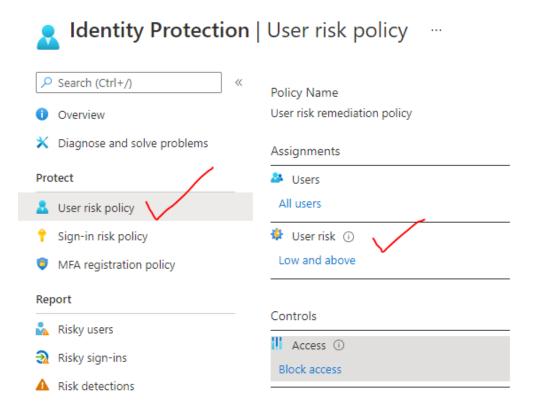
Access: Allow access, Require password change

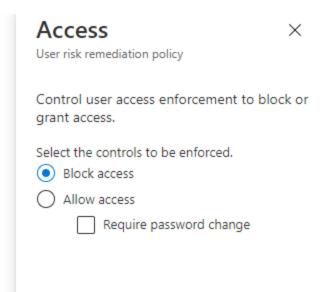
You have an Azure Active Directory (Azure AD) tenant named contoso.com that contains the users shown in the following table:

Name	Member of	Mobile phone	Multi-factor authentication (MFA) status
User1	Group1	123 555 7890	Disabled
User2	Group1, Group2	None	Enabled
User3	Group1	123 555 7891	Required

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



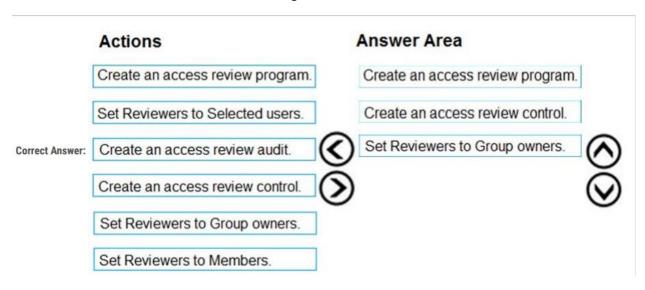




#### 9. Access Review

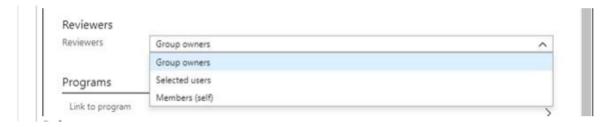
You need to configure an access review. The review will be assigned to a new collection of reviews and reviewed by resource owners.

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.



- Step 1: Create an access review program
- Step 2: Create an access review control
- Step 3: Set Reviewers to Group owners

In the Reviewers section, select either one or more people to review all the users in scope. Or you can select to have the members review their own access. If the resource is a group, you can ask the group owners to review.



#### References:

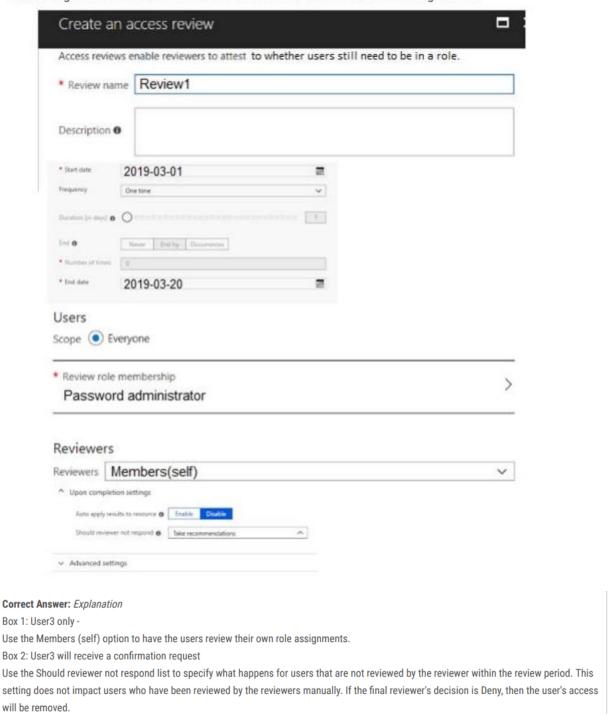
https://docs.microsoft.com/en-us/azure/active-directory/governance/create-access-review
https://docs.microsoft.com/en-us/azure/activedirectory/governance/manage-programs-controls

#### 10. Access Review

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

Name	Name Role Sign in freque	
User1	Password administrator	Sign in every work day
User2	Password administrator   Sign in bi-weekly	
User3	Global administrator, Password administrator	Signs in every month

You configure an access review named Review1 as shown in the following exhibit.



#### References:

No change - Leave user's access unchanged Remove access - Remove user's access Approve access - Approve user's access

Take recommendations - Take the system's recommendation on denying or approving the user's continued access

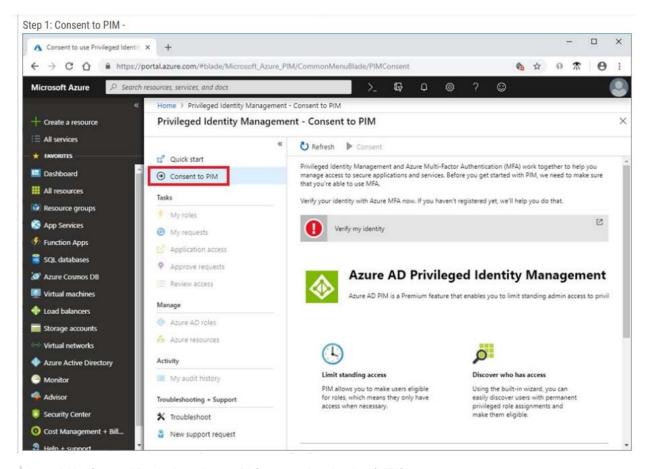
 $\underline{https://docs.microsoft.com/bs-latn-ba/azure/active-directory/privileged-identity-management/pim-how-to-start-security-review$ 

## 11. Privileged Identity Management (PIM)

You need to ensure that you can use Azure Active Directory (Azure AD) Privileged Identity Management (PIM) to secure Azure AD roles.

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.

	Actions	Answer Area
	Verify your identity by using multi-factor authentication (MFA).	Consent to PIM.
	Consent to PIM.	Verify your identity by using multi-factor authentication (MFA).
Correct Answer:	Sign up PIM for Azure AD roles.	Sign up PIM for Azure AD roles.
	Discover privileged roles.	
	Discover resources.	



Step: 2 Verify your identity by using multi-factor authentication (MFA)

Click Verify my identity to verify your identity with Azure MFA. You'll be asked to pick an account.

Step 3: Sign up PIM for Azure AD roles

Once you have enabled PIM for your directory, you'll need to sign up PIM to manage Azure AD roles.

References: <a href="https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-getting-started">https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-getting-started</a>

#### 12. Conditional Access and MFA

Your company has two offices in Seattle and New York. Each office connects to the Internet by using a NAT device. The offices use the IP addresses shown in the following table.

Location IP address space		Public NAT segment
Seattle	10.10.0.0/16	190.15.1.0/24
New York	172.16.0.0/16	194.25.2.0/24

The company has an Azure Active Directory (Azure AD) tenant named contoso.com. The tenant contains the users shown in the following table.

Name	Multi-factor authentication (MFA) status	
User1	Enabled	
User2	Enforced	

The MFA service settings are configured as shown in the exhibit. (Click the Exhibit tab.)

trusted ips (learn more)

☑ Skip multi-factor authentication for requests from federated users on my intranet

Skip multi-factor authentication for requests from following range of IP address subnets

10.10.0.0/16 194.25.2.0/24

verification options (learn more)

Methods available to users:

✓ Call to phone

✓ Text message to phone

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:

	res .	No
If User1 signs in to Azure from a device that uses an IP address of 134.18.14.10, User1 must be authenticated by using a phone.	0	0
If User2 signs in to Azure from a device in the Seattle office, User2 must be authenticated by using the Microsoft Authenticator app.	0	0
If User2 signs in to Azure from a device in the New York office, User1 must be authenticated by using a phone	0	0
Box 2: No -		
Use of Microsoft Authenticator is not required.		

Box 3: No -

The New York IP address subnet is included in the "skip multi-factor authentication for request.

References: <a href="https://www.cayosoft.com/difference-enabling-enforcing-mfa/">https://www.cayosoft.com/difference-enabling-enforcing-mfa/</a>

#### 13. Azure AD Privileged Identity Management (PIM)

Your company plans to create separate subscriptions for each department. Each subscription will be associated to the same Azure Active Directory (Azure AD) tenant.

You need to configure each subscription to have the same role assignments. What should you use?

The Azure AD Privileged Identity Management (PIM) service also allows Privileged Role Administrators to make permanent admin role assignments.

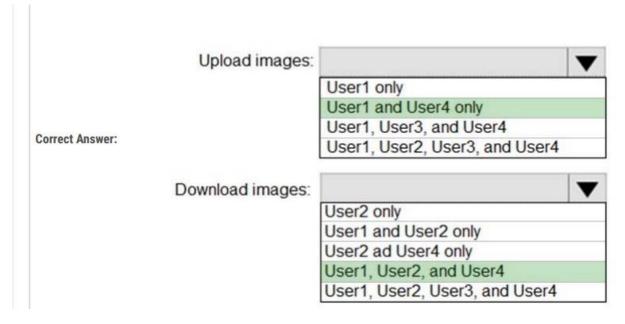
References: <a href="https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-how-to-add-role-to-user">https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-how-to-add-role-to-user</a>

#### 14. Uploading and downloading images to a Registry

You have an Azure Container Registry named Registry1. You add role assignment for Registry1 as shown in the following table.

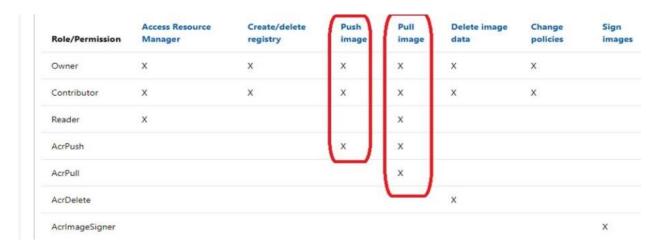
User	Role
User1	AcrPush
User2	AcrPull
User3	AcrlmageSigner
User4	Contributor

Which users can upload images to Registry1 and download images from Registry1? To answer, select the appropriate options in the answer area.



Box 1: User1 and User4 only - Owner, Contributor and AcrPush can push images.

Box 2: User1, User2, and User4 - All, except AcrImagineSigner, can download/pull images



References: https://docs.microsoft.com/bs-latn-ba/azure/container-registry/container-registry-roles

#### 15. Configure Azure DNS to host a custom domain for your web apps

You create an Azure web app named Contoso1812 that uses an S1 App service plan. You create a DNS record for www.contoso.com that points to the IP address of Contoso1812. You need to ensure that users can access Contoso1812 by using the https://www.contoso.com URL.

Which two actions should you perform? Each correct answer presents part of the solution.

- B. Add a hostname to Contoso1812.
- E. Scale up the App Service plan of Contoso1812.

You can configure Azure DNS to host a custom domain for your web apps. For example, you can create an Azure web app and have your users access it using either www.contoso.com or contoso.com as a fully qualified domain name (FQDN). To do this, you have to create three records:

- 1. A root "A" record pointing to contoso.com
- 2. A root "TXT" record for verification
- 3. A "CNAME" record for the www name that points to the A record

E: To map a custom DNS name to a web app, the web app's App Service plan must be a paid tier (Shared, Basic, Standard, Premium or Consumption for Azure

References: <a href="https://docs.microsoft.com/en-us/azure/dns/dns-web-sites-custom-domain">https://docs.microsoft.com/en-us/azure/dns/dns-web-sites-custom-domain</a>

#### 16. Stored Access Policy

You have an Azure Storage account named Sa1 in a resource group named RG1. Users and applications access the blob service and the file service in Sa1 by using several shared access signatures (SASs) and stored access policies.

You discover that unauthorized users accessed both the file service and the blob service. You need to revoke all access to Sa1.

Solution: You create a lock on Sa1. Does this meet the goal? No

To revoke a stored access policy, you can either delete it, or rename it by changing the signed identifier. Changing the signed identifier breaks the associations between any existing signatures and the stored access policy. Deleting or renaming the stored access policy immediately affects all of the shared access signatures associated with it.

References: <a href="https://docs.microsoft.com/en-us/rest/api/storageservices/Establishing-a-Stored-Access-Policy">https://docs.microsoft.com/en-us/rest/api/storageservices/Establishing-a-Stored-Access-Policy</a>

#### 17. Connect HDInsight to your on-premises network

You have a hybrid configuration of Azure Active Directory (Azure AD). You have an Azure HDInsight cluster on a virtual network. You plan to allow users to authenticate to the cluster by using their onpremises Active Directory credentials.

You need to configure the environment to support the planned authentication.

Solution: You deploy Azure Active Directory Domain Services (Azure AD DS) to the Azure subscription.

Does this meet the goal? NO

Instead, you connect HDInsight to your on-premises network by using Azure Virtual Networks and a VPN gateway.

Note: To allow HDInsight and resources in the joined network to communicate by name, you must perform the following actions:

- Create Azure Virtual Network.
- Create a custom DNS server in the Azure Virtual Network.
- © Configure the virtual network to use the custom DNS server instead of the default Azure Recursive Resolver.
- Configure forwarding between the custom DNS server and your on-premises DNS server.

References: https://docs.microsoft.com/en-us/azure/hdinsight/connect-on-premises-network

# 18. Identify which roles and groups are required to configure AD Connect

You plan to configure synchronization by using the Express Settings installation option in Azure AD Connect. You need to identify which roles and groups are required to perform the planned configuration. The solution must use the principle of least privilege.

Which two roles and groups should you identify?

- The Global administrator role in Azure AD and
- The Enterprise Admins group in Active Directory

References: <a href="https://docs.microsoft.com/en-us/azure/active-directory/hybrid/reference-connect-accounts-permissions">https://docs.microsoft.com/en-us/azure/active-directory/hybrid/reference-connect-accounts-permissions</a>

#### 19. Same as 11

#### 20. Same as 3

#### 21. Same as 1

## 22. Azure AD Privileged Identity Management (PIM)

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

Name	Member of	Multi-factor authentication (MFA) status
User1	None	Disabled
User2	Group1	Disabled
user3	Group1	Enforced

Azure AD Privileged Identity Management (PIM) is enabled for the tenant.

In PIM, the Password Administrator role has the following settings:

- → Maximum activation duration (hours): 2
- → Send email notifying admins of activation: Disable
- → Require incident/request ticket number during activation: Disable
- → Require Azure Multi-Factor Authentication for activation: Enable
- → Require approval to activate this role: Enable

#### Selected approver: Group1

You assign users the Password Administrator role as shown in the following table.

Name	Assignment type
User1	Active
User2	Eligible
user3	Eligible

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

NOTE: Each correct selection is worth one point.

Statements	Yes	No
When User1 signs in, the user is assigned the Password Administrator role automatically.	0	0
User2 can request to activate the Password Administrator role.	0	O'
If User3 wants to activate the Password Administrator role, the user can approve their own request.	V	0

Box 1: Yes - Active assignments don't require the member to perform any action to use the role. Members assigned as active have the privileges assigned to the role at all times.

Box 2: No - MFA is disabled for User2 and the setting Require Azure Multi-Factor Authentication for activation is enabled. Note: Eligible assignments require the member of the role to perform an action to use the role. Actions might include performing a multi-factor authentication (MFA) check, providing a business justication, or requesting approval from designated approvers.

Box 3: Yes - User3 is Group1, which is a Selected Approver Group

Reference: <a href="https://docs.microsoft.com/bs-latn-ba/azure/active-directory/privileged-identity-management/pim-resource-roles-assign-roles">https://docs.microsoft.com/bs-latn-ba/azure/active-directory/privileged-identity-management/pim-resource-roles-assign-roles</a>

#### 23. SQL Authentication: Active Directory - Password

You have a hybrid configuration of Azure Active Directory (Azure AD). You have an Azure SQL Database instance that is configured to support Azure AD authentication.

Database developers must connect to the database instance and authenticate by using their onpremises Active Directory account.

You need to ensure that developers can connect to the instance by using Microsoft SQL Server Management Studio.

The solution must minimize authentication prompts.

Which authentication method should you recommend?

Use Active Directory password authentication when connecting with an Azure AD principal name using the Azure AD managed domain. Use this method to authenticate to SQL DB/DW with Azure AD for native or federated Azure AD users. A native user is one explicitly created in Azure AD and being authenticated using user name and password, while a federated user is a Windows user whose domain is federated with Azure AD.

The latter method (using user & password) can be used when a user wants to use their windows credential, but their local machine is not joined with the domain (for example, using a remote access). In this case, a Windows user can indicate their domain account and password and can authenticate to SQL DB/DW using federated credentials.

Use Active Directory integrated authentication if you are logged in to Windows using your Azure Active Directory credentials from a federated domain.

References: <a href="https://docs.microsoft.com/en-us/azure/sql-database/sql-database-aad-authentication-congure">https://docs.microsoft.com/en-us/azure/sql-database/sql-database-aad-authentication-congure</a>

## 24. Azure Resource Manager templates: parameters file

You plan to use Azure Resource Manager templates to perform multiple deployments of identically configured Azure virtual machines. The password for the administrator account of each deployment is stored as a secret in different Azure key vaults. You need to identify a method to dynamically construct a

resource ID that will designate the key vault containing the appropriate secret during each deployment. The name of the key vault and the name of the secret will be provided as inline parameters.

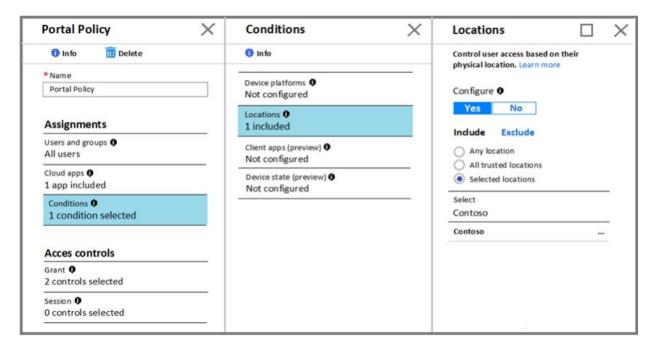
What should you use to construct the resource ID?



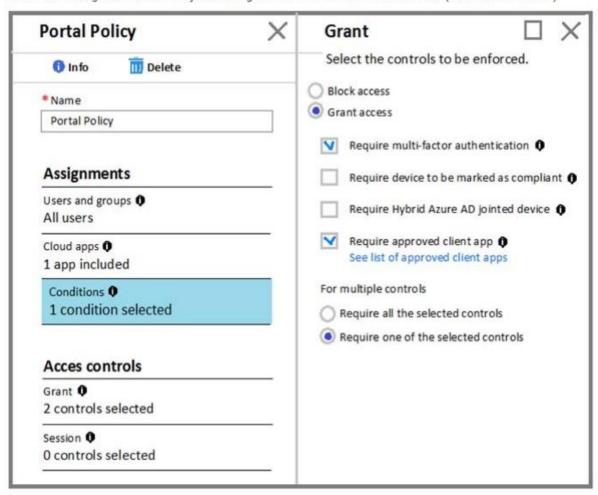
Reference: <a href="https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-

## 25. Conditional Access Policy

You create one active conditional access policy named Portal Policy. Portal Policy is used to provide access to the Microsoft Azure Management cloud app. The Conditions settings for Portal Policy are configured as shown in the Conditions exhibit. (Click the Conditions tab.)



The Grant settings for Portal Policy are configured as shown in the Grant exhibit. (Click the Grant tab.)



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



## 26. Transfering the ownership of Sub1 to Admin1

You have an Azure subscription named Sub1 that is associated to an Azure Active Directory (Azure AD) tenant named contoso.com. An administrator named Admin1 has access to the following identities:

- An OpenID-enabled user account
- → A Hotmail account
- → An account in contoso.com
- → An account in an Azure AD tenant named fabrikam.com

You plan to use Azure Account Center to transfer the ownership of Sub1 to Admin1. To which accounts can you transfer the ownership of Sub1?

Contoso.com and fabrikam.com only

When you transfer billing ownership of your subscription to an account in another Azure AD tenant, you can move the subscription to the new account's tenant. If you do so, all users, groups, or service principals who had role based access (RBAC) to manage subscriptions and its resources lose their access.

Only the user in the new account who accepts your transfer request will have access to manage the resources.

Reference: https://docs.microsoft.com/en-us/azure/billing/billing-subscription-transfer
https://docs.microsoft.com/en-us/azure/billing/billingsubscription-transfer#transferring-subscription-to-an-account-in-another-azure-ad-tenant

#### 27. Azure Blueprints

Your company plans to create separate subscriptions for each department. Each subscription will be associated to the same Azure Active Directory (Azure AD) tenant. You need to configure each subscription to have the same role assignments. What should you use?

Just as a blueprint allows an engineer or an architect to sketch a project's design parameters, Azure Blueprints enables cloud architects and central information technology groups to define a repeatable set of Azure resources that implements and adheres to an organization's standards, patterns, and requirements.

Blueprints are a declarative way to orchestrate the deployment of various resource templates and other artifacts such as:

- Role Assignments
- → Policy Assignments
- → Azure Resource Manager templates
- **□** Resource Groups

Reference: https://docs.microsoft.com/en-us/azure/governance/blueprints/overview

#### Topic 2 – Question set 2

## 1. Install the container network interface (CNI) plug-in.

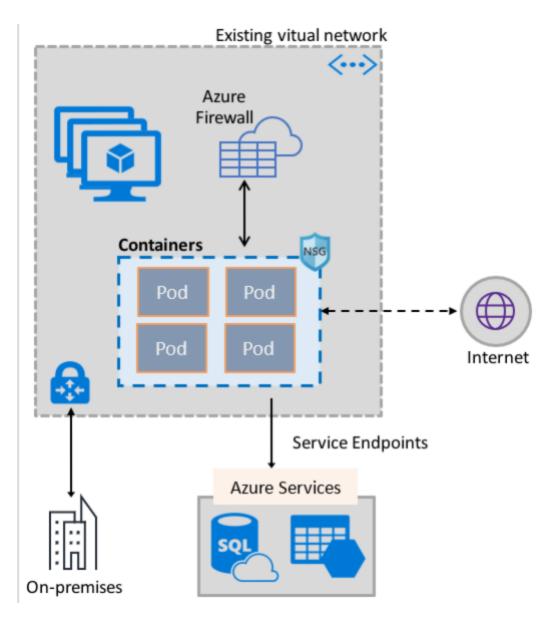
You have an Azure subscription named Sub1. Sub1 contains a virtual network named VNet1 that contains one subnet named Subnet1.

Subnet1 contains an Azure virtual machine named VM1 that runs Ubuntu Server 18.04. You create a service endpoint for MicrosoftStorage in Subnet1. You need to ensure that when you deploy Docker containers to VM1, the containers can access Azure Storage resources by using the service endpoint.

What should you do on VM1 before you deploy the container?

The Azure Virtual Network container network interface (CNI) plug-in installs in an Azure Virtual Machine. The plug-in supports both Linux and Windows platform. The plug-in assigns IP addresses from a virtual network to containers brought up in the virtual machine, attaching them to the virtual network, and connecting them directly to other containers and virtual network resources. The plug-in doesn't rely on overlay networks, or routes, for connectivity, and provides the same performance as virtual machines.

The following picture shows how the plug-in provides Azure Virtual Network capabilities to Pods:



References: https://docs.microsoft.com/en-us/azure/virtual-network/container-networking-overview

## 2. Azure Desired State Configuration (DSC) virtual machine extension

You have Azure Resource Manager templates that you use to deploy Azure virtual machines. You need to disable unused Windows features automatically as instances of the virtual machines are provisioned.

#### What should you use?

You can use Azure Automation State Configuration to manage Azure VMs (both Classic and Resource Manager), on-premises VMs, Linux machines, AWS VMs, and on-premises physical machines.

Note: Azure Automation State Configuration provides a DSC pull server similar to the Windows Feature DSC-Service so that target nodes automatically receive configurations, conform to the desired state, and report back on their compliance. The built-in pull server in Azure Automation eliminates the need to set

up and maintain your own pull server. Azure Automation can target virtual or physical Windows or Linux machines, in the cloud or on-premises.

Reference: https://docs.microsoft.com/en-us/azure/automation/automation-dsc-getting-started

#### 3. HubVNet and SpokeVNet

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

Name	Region	Description
HubVNet	East US	HubVNet is a virtual network connected to the on-premises network by using a site-to-site VPN that has BGP route propagation enabled. HubVNet contains a subnet named HubVNetSubnet0.
SpokeVNet	East US	SpokeVNet is a virtual network connected to HubVNet by using VNet peering. SpokeVNet contains a subnet named SpokeVNetSubnet0.

The Azure virtual machines on SpokeVNetSubnet0 can communicate with the computers on the on-premises network.

You plan to deploy an Azure firewall to HubVNet.

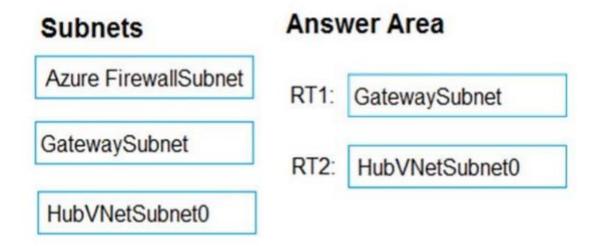
You create the following two routing tables:

- RT1: Includes a user-defined route that points to the private IP address of the Azure firewall as a next hop address
- 🖙 RT2: Disables BGP route propagation and defines the private IP address of the Azure firewall as the default gateway

You need to ensure that traffic between SpokeVNetSubnet0 and the on-premises network flows through the Azure firewall.

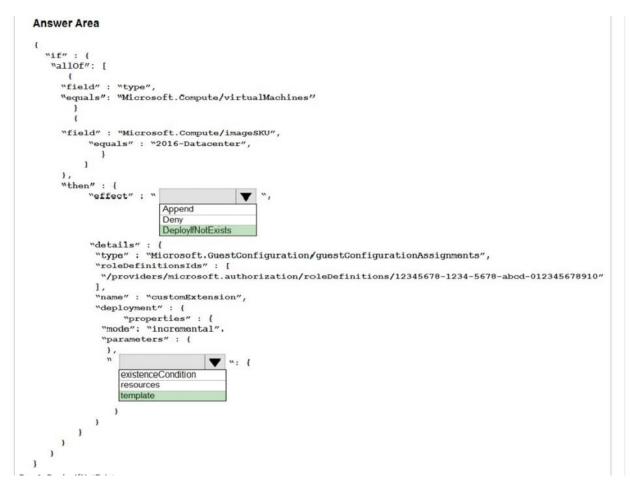
To which subnet should you associate each route table? To answer, drag the appropriate subnets to the correct route tables. Each subnet may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.



#### 4. DeployIfNotExists

You have an Azure subscription. The subscription contains Azure virtual machines that run Windows Server 2016. You need to implement a policy to ensure that each virtual machine has a custom antimalware virtual machine extension installed. How should you complete the policy? To answer, select the appropriate options in the answer area.



Box 1: DeployIfNotExists - DeployIfNotExists executes a template deployment when the condition is met.

Box 2: Template - The details property of the DeployIfNotExists effects has all the subproperties that dene the related resources to match and the template deployment to execute. Deployment [required] This property should include the full template deployment as it would be passed to the Microsoft.

Resources/deployment References: <a href="https://docs.microsoft.com/en-us/azure/governance/policy/concepts/effects">https://docs.microsoft.com/en-us/azure/governance/policy/concepts/effects</a>