

Exam AZ-204: Developing Solutions for Microsoft Azure

Latest Version PDF 2023
Exam SET 1



Question 1 (Question Set 1)



You have two Hyper-V hosts named Host1 and Host2. Host1 has an Azure virtual machine named VM1 that was deployed by using a custom Azure Resource Manager template.

Manager template.

You need to move VM1 to Host2.

What should you do?

- A. From the Update management blade, click Enable.
- B. From the Overview blade, move VM1 to a different subscription.
- C. From the Redeploy blade, click Redeploy.
- D. From the Profile blade, modify the usage location.



Answer : C

When you redeploy a VM, it moves the VM to a new node within the Azure infrastructure and then powers it back on, retaining all your configuration options and associated resources.

Reference:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/redeploy-to-new-node>

Question 2 (Question Set 1)



DRAG DROP -

You have downloaded an Azure Resource Manager template to deploy numerous virtual machines. The template is based on a current virtual machine, but must be adapted to reference an administrative password.

You need to make sure that the password is not stored in plain text.

You are preparing to create the necessary components to achieve your goal.

Which of the following should you create to achieve your goal? Answer by dragging the correct option from the list to the answer area.
Select and Place:

Options

Answer

An Azure Key Vault

An Azure Storage account

Azure Active Directory (AD)
Identity Protection

An access policy

An Azure policy

A backup policy

Answer :

Options

Answer

An Azure Storage account

An Azure Key Vault

Azure Active Directory (AD)
Identity Protection

An access policy

An Azure policy

A backup policy

Question 3 (Question Set 1)



Your company has an Azure Kubernetes Service (AKS) cluster that you manage from an Azure AD-joined device. The cluster is located in a resource group.

Developers have created an application named MyApp. MyApp was packaged into a container image.

You need to deploy the YAML manifest file for the application.

Solution: You install the Azure CLI on the device and run the kubectl apply -f myapp.yaml command.

Does this meet the goal?

- A.** Yes
- B.** No

Answer : **A**

kubectl apply -f myapp.yaml applies a configuration change to a resource from a file or stdin.

Reference:

<https://kubernetes.io/docs/reference/kubectl/overview/>

<https://docs.microsoft.com/en-us/cli/azure/aks>

Question 4 (Question Set 1)



Your company has an Azure Kubernetes Service (AKS) cluster that you manage from an Azure AD-joined device. The cluster is located in a resource group.

Developers have created an application named MyApp. MyApp was packaged into a container image.

You need to deploy the YAML manifest file for the application.

Solution: You install the docker client on the device and run the docker run -it microsoft/azure-cli:0.10.17 command.

Does this meet the goal?

- A. Yes
- B. No

Answer : B



Question 5 (Question Set 1)

Your company has a web app named WebApp1.

You use the WebJobs SDK to design a triggered App Service background task that automatically invokes a function in the code every time new data is received in a queue.

You are preparing to configure the service processes a queue data item.

Which of the following is the service you should use?

- A. Logic Apps
- B. WebJobs
- C. Flow
- D. Functions

Answer : B

Reference:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-compare-logic-apps-ms-flow-webjobs>

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Question 6 (Question Set 1)



Your company has an Azure subscription.

You need to deploy a number of Azure virtual machines to the subscription by using Azure Resource Manager (ARM) templates. The virtual machines will be included in a single availability set.

You need to ensure that the ARM template allows for as many virtual machines as possible to remain accessible in the event of fabric failure or maintenance.

Which of the following is the value that you should configure for the platformFaultDomainCount property?

- A. 10
- B. 30
- C. Min Value
- D. Max Value

Answer : D

The number of fault domains for managed availability sets varies by region - either two or three per region.

Reference:

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

Question 7 (Question Set 1)



Your company has an Azure subscription.

You need to deploy a number of Azure virtual machines to the subscription by using Azure Resource Manager (ARM) templates. The virtual machines will be included in a single availability set.

You need to ensure that the ARM template allows for as many virtual machines as possible to remain accessible in the event of fabric failure or maintenance.

Which of the following is the value that you should configure for the platformUpdateDomainCount property?

- A. 10
- B. 20
- C. 30
- D. 40

Answer : D

Each virtual machine in your availability set is assigned an update domain and a fault domain by the underlying Azure platform. For a given availability set, five non-user-configurable update domains are assigned by default (Resource Manager deployments can then be increased to provide up to 20 update domains) to indicate groups of virtual machines and underlying physical hardware that can be rebooted at the same time.

Reference:

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

Question 8 (Question Set 1)



DRAG DROP -

You are creating an Azure Cosmos DB account that makes use of the SQL API. Data will be added to the account every day by a web application.

You need to ensure that an email notification is sent when information is received from IoT devices, and that compute cost is reduced.

You decide to deploy a function app.

Which of the following should you configure the function app to use? Answer by dragging the correct options from the list to the answer area.
Select and Place:

Options

Answer

Azure Cosmos DB connector

SendGrid action

Consumption plan

Azure Event Hubs binding

SendGrid binding

Options

Answer

Azure Cosmos DB connector

SendGrid action

Consumption plan

SendGrid binding

Answer :

Question 9 (Question Set 1)



This question requires that you evaluate the underlined text to determine if it is correct.

You company has an on-premises deployment of MongoDB, and an Azure Cosmos DB account that makes use of the MongoDB API.

You need to devise a strategy to migrate MongoDB to the Azure Cosmos DB account.

You include the Data Management Gateway tool in your migration strategy.

Instructions: Review the underlined text. If it makes the statement correct, select 'No change required.' If the statement is incorrect, select the answer choice that makes the statement correct.

- A. No change required
- B. mongorestore
- C. Azure Storage Explorer
- D. AzCopy

Answer : **B**

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/mongodb-migrate> <https://docs.mongodb.com/manual/reference/program/mongorestore/>

Question 10 (Question Set 1)



You are developing an e-Commerce Web App.

You want to use Azure Key Vault to ensure that sign-ins to the e-Commerce Web App are secured by using Azure App Service authentication and Azure Active Directory (AAD).

What should you do on the e-Commerce Web App?

- A. Run the az keyvault secret command.
- B. Enable Azure AD Connect.
- C. Enable Managed Service Identity (MSI).
- D. Create an Azure AD service principal.



Answer : **C**

A managed identity from Azure Active Directory allows your app to easily access other AAD-protected resources such as Azure Key Vault.

Reference:

<https://docs.microsoft.com/en-us/azure/app-service/overview-managed-identity> <https://docs.microsoft.com/en-us/samples/azure-samples/app-service-msi-keyvault-dotnet/keyvault-msi-appservice-sample/>

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Exam AZ-204: Developing Solutions for Microsoft Azure

AZ-204 Real Exam Questions -Set 1



Question 11 (Question Set 1)

This question requires that you evaluate the underlined text to determine if it is correct.
Your Azure Active Directory Azure (Azure AD) tenant has an Azure subscription linked to it.
Your developer has created a mobile application that obtains Azure AD access tokens using the OAuth 2 implicit grant type.
The mobile application must be registered in Azure AD.
You require a redirect URI from the developer for registration purposes.
Instructions: Review the underlined text. If it makes the statement correct, select 'No change is needed.' If the statement is incorrect, select the answer choice that makes the statement correct.

- A.** No change required.
- B.** a secret
- C.** a login hint
- D.** a client ID

Answer : **A**

For Native Applications you need to provide a Redirect URI, which Azure AD will use to return token responses.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/develop/v1-protocols-oauth-code>

Question 12 (Question Set 1)



You are creating an Azure key vault using PowerShell. Objects deleted from the key vault must be kept for a set period of 90 days.
Which two of the following parameters must be used in conjunction to meet the requirement? (Choose two.)

- A.** EnabledForDeployment
- B.** EnablePurgeProtection
- C.** EnabledForTemplateDeployment
- D.** EnableSoftDelete

Answer : **BD**

Reference:

<https://docs.microsoft.com/en-us/powershell/module/azurerm.keyvault/new-azurermkeyvault> <https://docs.microsoft.com/en-us/azure/key-vault/key-vault-ovw-soft-delete>

Question 13 (Question Set 1)



HOTSPOT -

You have an Azure Active Directory (Azure AD) tenant.

You want to implement multi-factor authentication by making use of a conditional access policy. The conditional access policy must be applied to all users when they access the Azure portal.

Which three settings should you configure? To answer, select the appropriate settings in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Require MFA for Azure port...

Info

* Name
MFA required for Azure portal access

Assignments

Users and groups >
0 users selected

Cloud apps >
0 apps selected

Conditions >
0 conditions selected

Access controls

Grant >
0 controls selected

Session >
0 controls selected



Answer Area

Require MFA for Azure port...

Info Delete

* Name
MFA required for Azure portal access

Assignments

Users and groups ⓘ 0 users selected >

Cloud apps ⓘ 0 apps selected >

Conditions ⓘ 0 conditions selected >

Access controls

Grant ⓘ 0 controls selected >

Session ⓘ 0 controls selected >

Answer : **MFA required for Azure portal access**

Box 1:

The conditional access policy must be applied or assigned to Users and Groups.

Box 2:

The conditional access policy must be applied when users access the Azure portal, which is a cloud app. That is: Microsoft Azure Management

Box 3:

Access control must require multi-factor authentication when granting access.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/conditional-access/app-based-mfa>

Question 14 (Question Set 1)



You manage an Azure SQL database that allows for Azure AD authentication.

You need to make sure that database developers can connect to the SQL database via Microsoft SQL Server Management Studio (SSMS). You also need to make sure the developers use their on-premises Active Directory account for authentication. Your strategy should allow for authentication prompts to be kept to a minimum.

Which of the following should you implement?

- A. Azure AD token.
- B. Azure Multi-Factor authentication.
- C. Active Directory integrated authentication.
- D. OATH software tokens.

Answer : **C**

Azure AD can be the initial Azure AD managed domain. Azure AD can also be an on-premises Active Directory Domain Services that is federated with the Azure AD.

Using an Azure AD identity to connect using SSMS or SSDT

The following procedures show you how to connect to a SQL database with an Azure AD identity using SQL Server Management Studio or SQL

Server Database

Tools.

Active Directory integrated authentication

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

1. Start Management Studio or Data Tools and in the Connect to Server (or Connect to Database Engine) dialog box, in the Authentication box, select Active

Directory - Integrated. No password is needed or can be entered because your existing credentials will be presented for the connection.

2. Select the Options button, and on the Connection Properties page, in the Connect to database box, type the name of the user database you want to connect to.

(The AD domain name or tenant ID option is only supported for Universal with MFA connection options, otherwise it is greyed out.)

Question 15 (Question Set 1)



You are developing an application to transfer data between on-premises file servers and Azure Blob storage. The application stores keys, secrets, and certificates in Azure Key Vault and makes use of the Azure Key Vault APIs.

You want to configure the application to allow recovery of an accidental deletion of the key vault or key vault objects for 90 days after deletion.

What should you do?

- A. Run the Add-AzKeyVaultKey cmdlet.
- B. Run the az keyvault update --enable-soft-delete true --enable-purge-protection true CLI.
- C. Implement virtual network service endpoints for Azure Key Vault.
- D. Run the az keyvault update --enable-soft-delete false CLI.

Answer : B

When soft-delete is enabled, resources marked as deleted resources are retained for a specified period (90 days by default). The service further provides a mechanism for recovering the deleted object, essentially undoing the deletion.

Purge protection is an optional Key Vault behavior and is not enabled by default. Purge protection can only be enabled once soft-delete is enabled. When purge protection is on, a vault or an object in the deleted state cannot be purged until the retention period has passed. Soft-deleted vaults and objects can still be recovered, ensuring that the retention policy will be followed.

The default retention period is 90 days, but it is possible to set the retention policy interval to a value from 7 to 90 days through the Azure portal. Once the retention policy interval is set and saved it cannot be changed for that vault.

Reference:

<https://docs.microsoft.com/en-us/azure/key-vault/general/overview-soft-delete>

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Question 16 (Question Set 1)

HOTSPOT -

You have developed a Web App for your company. The Web App provides services and must run in multiple regions.

You want to be notified whenever the Web App uses more than 85 percent of the available CPU cores over a 5 minute period. Your solution must minimize costs.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
az monitor metrics alert create -n myAlert -g myResourceGroup
```

```
--scopes targetResourceId --condition "> 85"
```

5m	▼
--window size	▼
--evaluation-frequency	▼
--auto-mitigate	▼

> 85"	▼
CPU Usage	▼
Percentage CPU	▼
avg Percentage CPU	▼

Answer Area

```
az monitor metrics alert create -n myAlert -g myResourceGroup
```

```
--scopes targetResourceId --condition "> 85"
```

Answer :

5m	▼
--window size	▼
--evaluation-frequency	▼
--auto-mitigate	▼

> 85"	▼
CPU Usage	▼
Percentage CPU	▼
avg Percentage CPU	▼

Reference:

<https://docs.microsoft.com/en-us/cli/azure/monitor/metrics/alert>



Question 17 (Question Set 1)

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.

You are configuring a web app that delivers streaming video to users. The application makes use of continuous integration and deployment.

You need to ensure that the application is highly available and that the users' streaming experience is constant. You also want to configure the application to store data in a geographic location that is nearest to the user.

Solution: You include the use of Azure Redis Cache in your design.

Does the solution meet the goal?

- A. Yes
- B. No

Answer : **B**

Question 18 (Question Set 1)



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.

You are configuring a web app that delivers streaming video to users. The application makes use of continuous integration and deployment.

You need to ensure that the application is highly available and that the users' streaming experience is constant. You also want to configure the application to store data in a geographic location that is nearest to the user.

Solution: You include the use of an Azure Content Delivery Network (CDN) in your design.

Does the solution meet the goal?

A. Yes

B. No

Answer : **A**

Reference:

<https://docs.microsoft.com/en-in/azure/cdn/>

Question 19 (Question Set 1)



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.

You are configuring a web app that delivers streaming video to users. The application makes use of continuous integration and deployment.

You need to ensure that the application is highly available and that the users' streaming experience is constant. You also want to configure the application to store data in a geographic location that is nearest to the user.

Solution: You include the use of a Storage Area Network (SAN) in your design.

Does the solution meet the goal?

A. Yes

B. No

Answer : **B**

Question 20 (Question Set 1)



You develop a Web App on a tier D1 app service plan.

You notice that page load times increase during periods of peak traffic.

You want to implement automatic scaling when CPU load is above 80 percent. Your solution must minimize costs.

What should you do first?

- A.** Enable autoscaling on the Web App.
- B.** Switch to the Premium App Service tier plan.
- C.** Switch to the Standard App Service tier plan.
- D.** Switch to the Azure App Services consumption plan.

Answer : **C**

Configure the web app to the Standard App Service Tier. The Standard tier supports auto-scaling, and we should minimize the cost. We can then enable autoscaling on the web app, add a scale rule and add a Scale condition.

Reference:

<https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/monitoring-autoscale-get-started> <https://azure.microsoft.com/en-us/pricing/details/app-service/plans/>

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Question 21 (Question Set 1)



Your company's Azure subscription includes an Azure Log Analytics workspace.

Your company has a hundred on-premises servers that run either Windows Server 2012 R2 or Windows Server 2016, and is linked to the Azure Log Analytics workspace. The Azure Log Analytics workspace is set up to gather performance counters associated with security from these linked servers. You must configure alerts based on the information gathered by the Azure Log Analytics workspace.

You have to make sure that alert rules allow for dimensions, and that alert creation time should be kept to a minimum. Furthermore, a single alert notification must be created when the alert is created and when the alert is resolved.

You need to make use of the necessary signal type when creating the alert rules.

Which of the following is the option you should use?

- A. The Activity log signal type.
- B. The Application Log signal type.
- C. The Metric signal type.
- D. The Audit Log signal type.

Answer : C

Metric alerts in Azure Monitor provide a way to get notified when one of your metrics cross a threshold. Metric alerts work on a range of multi-dimensional platform metrics, custom metrics, Application Insights standard and custom metrics.

Note: Signals are emitted by the target resource and can be of several types. Metric, Activity log, Application Insights, and Log.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/alerts-metric>

Question 22 (Question Set 1)



You are developing a .NET Core MVC application that allows customers to research independent holiday accommodation providers.

You want to implement Azure Search to allow the application to search the index by using various criteria to locate documents related to accommodation.

You want the application to allow customers to search the index by using regular expressions.

What should you do?

- A. Configure the SearchMode property of the SearchParameters class.
- B. Configure the QueryType property of the SearchParameters class.
- C. Configure the Facets property of the SearchParameters class.
- D. Configure the Filter property of the SearchParameters class.

Answer : B

The SearchParameters.QueryType Property gets or sets a value that specifies the syntax of the search query. The default is 'simple'. Use 'full' if your query uses the Lucene query syntax.

You can write queries against Azure Search based on the rich Lucene Query Parser syntax for specialized query forms: wildcard, fuzzy search, proximity search, regular expressions are a few examples.

Reference:

<https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.search.models.searchparameters> <https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.search.models.searchparameters.querytype>

Question 23 (Question Set 1)



You are a developer at your company.

You need to update the definitions for an existing Logic App.

What should you use?

- A.** the Enterprise Integration Pack (EIP)
- B.** the Logic App Code View
- C.** the API Connections
- D.** the Logic Apps Designer

Answer : **B**

Edit JSON - Azure portal -

1. Sign in to the Azure portal.
2. From the left menu, choose All services. In the search box, find "logic apps", and then from the results, select your logic app.
3. On your logic app's menu, under Development Tools, select Logic App Code View.
4. The Code View editor opens and shows your logic app definition in JSON format.

Reference:

<https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-enterprise-integration-overview> <https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-author-definitions>

Question 24 (Question Set 1)



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.

You are developing a solution for a public facing API.

The API back end is hosted in an Azure App Service instance. You have implemented a RESTful service for the API back end.

You must configure back-end authentication for the API Management service instance.

Solution: You configure Basic gateway credentials for the Azure resource.

Does the solution meet the goal?

- A.** Yes
- B.** No

Answer : **B**

API Management allows to secure access to the back-end service of an API using client certificates.

Reference:

<https://docs.microsoft.com/en-us/rest/api/apimanagement/apimanagementrest/azure-api-management-rest-api-backend-entity>

Question 25 (Question Set 1)



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.

You are developing a solution for a public facing API.

The API back end is hosted in an Azure App Service instance. You have implemented a RESTful service for the API back end.

You must configure back-end authentication for the API Management service instance.

Solution: You configure Client cert gateway credentials for the HTTP(s) endpoint.

Does the solution meet the goal?

- A.** Yes
- B.** No

Answer : **B**

The API back end is hosted in an Azure App Service instance. It is an Azure resource and not an HTTP(s) endpoint.

Reference:

<https://docs.microsoft.com/en-us/rest/api/apimanagement/apimanagementrest/azure-api-management-rest-api-backend-entity>

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Question 26 (Question Set 1)



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.

You are developing a solution for a public facing API.

The API back end is hosted in an Azure App Service instance. You have implemented a RESTful service for the API back end.

You must configure back-end authentication for the API Management service instance.

Solution: You configure Basic gateway credentials for the HTTP(s) endpoint.

Does the solution meet the goal?

A. Yes

B. No

Answer : **B**

API Management allows to secure access to the back-end service of an API using client certificates. Furthermore, the API back end is hosted in an Azure App

Service instance. It is an Azure resource and not an HTTP(s) endpoint.

Reference:

<https://docs.microsoft.com/en-us/rest/api/apimanagement/apimanagementrest/azure-api-management-rest-api-backend-entity>

Question 27 (Question Set 1)



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.

You are developing a solution for a public facing API.

The API back end is hosted in an Azure App Service instance. You have implemented a RESTful service for the API back end.

You must configure back-end authentication for the API Management service instance.

Solution: You configure Client cert gateway credentials for the Azure resource.

Does the solution meet the goal?

A. Yes

B. No

Answer : **A**

API Management allows to secure access to the back-end service of an API using client certificates.

Reference:

<https://docs.microsoft.com/en-us/rest/api/apimanagement/apimanagementrest/azure-api-management-rest-api-backend-entity>

Question 28 (Question Set 1)



You are developing a .NET Core MVC application that allows customers to research independent holiday accommodation providers.

You want to implement Azure Search to allow the application to search the index by using various criteria to locate documents related to accommodation venues.

You want the application to list holiday accommodation venues that fall within a specific price range and are within a specified distance to an airport.

What should you do?

- A. Configure the SearchMode property of the SearchParameters class.**
- B. Configure the QueryType property of the SearchParameters class.**
- C. Configure the Facets property of the SearchParameters class.**
- D. Configure the Filter property of the SearchParameters class.**



Answer : D

The Filter property gets or sets the OData \$filter expression to apply to the search query.

Reference:

<https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.search.models.searchparameters> <https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.search.models.searchparameters.querytype>

Question 29 (Question Set 1)



You are a developer at your company.

You need to edit the workflows for an existing Logic App.

What should you use?

- A. the Enterprise Integration Pack (EIP)
- B. the Logic App Code View
- C. the API Connections
- D. the Logic Apps Designer



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Answer : A

For business-to-business (B2B) solutions and seamless communication between organizations, you can build automated scalable enterprise integration workflows by using the Enterprise Integration Pack (EIP) with Azure Logic Apps.

Reference:

<https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-enterprise-integration-overview> <https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-author-definitions>

Question 30 (Question Set 1)



DRAG DROP -

You are a developer for a company that provides a bookings management service in the tourism industry. You are implementing Azure Search for the tour agencies listed in your company's solution.

You create the index in Azure Search. You now need to use the Azure Search .NET SDK to import the relevant data into the Azure Search service.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions from left to right and arrange

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them in the correct order.

Select and Place:

Answer Area

Create a DataSource instance and set its Container property to the DataContainer.

Create an IndexBatch that contains the documents which must be added.

Set the DataSources property of the SearchServiceClient.

Create a SearchIndexClient object to connect to the search index.

Call the Documents.Index method of the SearchIndexClient and pass the IndexBatch.

Call the Documents.Suggest method of the SearchIndexClient and pass the DataSource.

Answer Area

Create a DataSource instance and set its Container property to the DataContainer.

Create a SearchIndexClient object to connect to the search index.

Set the DataSources property of the SearchServiceClient.

Create an IndexBatch that contains the documents which must be added.

Answer :

Call the Documents.Index method of the SearchIndexClient and pass the IndexBatch.

Call the Documents.Suggest method of the SearchIndexClient and pass the DataSource.

1. The index needs to be populated. To do this, we will need a SearchIndexClient. There are two ways to obtain one: by constructing it, or by calling Indexes.GetClient on the SearchServiceClient. Here we will use the first method.

2. Create the indexBatch with the documents

Something like:

```
var hotels = new Hotel[];  
{  
    new Hotel()  
    {  
        HotelId = "3",  
        BaseRate = 129.99,  
        Description = "Close to town hall and the river"  
    }  
};
```

```
var batch = IndexBatch.Upload(hotels);
3. The next step is to populate the newly-created index
Example:
var batch = IndexBatch.Upload(hotels);
try
{
indexClient.Documents.Index(batch);
}
Reference:
https://docs.microsoft.com/en-us/azure/search/search-howto-dotnet-sdk
```

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Question 31 (Question Set 1)



You are developing an application that applies a set of governance policies for internal and external services, as well as for applications. You develop a stateful ASP.NET Core 2.1 web application named PolicyApp and deploy it to an Azure App Service Web App. The PolicyApp reacts to events from

Azure Event Grid and performs policy actions based on those events.

You have the following requirements:

- Authentication events must be used to monitor users when they sign in and sign out.
- All authentication events must be processed by PolicyApp.
- Sign outs must be processed as fast as possible.

What should you do?

- A.** Create a new Azure Event Grid subscription for all authentication events. Use the subscription to process sign-out events.
- B.** Create a separate Azure Event Grid handler for sign-in and sign-out events.
- C.** Create separate Azure Event Grid topics and subscriptions for sign-in and sign-out events.
- D.** Add a subject prefix to sign-out events. Create an Azure Event Grid subscription. Configure the subscription to use the subjectBeginsWith filter.

Answer : **D**

Reference:

<https://docs.microsoft.com/en-us/azure/event-grid/subscription-creation-schema>

Question 32 (Question Set 1)



HOTSPOT -

You are developing a C++ application that compiles to a native application named process.exe. The application accepts images as input and returns images in one of the following image formats: GIF, PNG, or JPEG.

You must deploy the application as an Azure Function.

You need to configure the function and host json files.

How should you complete the json files? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

function.json

{

	▼
“type”: “http”	
“platform”: “gcm”	
“datatype”: “stream”	
“path”: “process.exe”	

“direction”: “out”,
“name” : “result”

}

host.json

	▼
“customHandler”: { “description”: {	
“languageWorker”: { “path”: {	
“extensions”: {“worker”: {	
“extensionBundle”: {	

“defaultExecutablePath”: “process.exe”

,

	▼
“enableForwardingHttpRequest”: true	
“enableForwardingHttpRequest”: false	

}



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```

function.json
{
  "type": "http",
  "platform": "gcm",
  "datatype": "stream",
  "path": "process.exe"

  "direction": "out",
  "name" : "result"
}

host.json

```

Answer :

```

"customHandler": { "description": {
  "languageWorker": { "path": {
    "extensions": { "worker": {
      "extensionBundle": {

        "defaultExecutablePath": "process.exe"
      },
      "enableForwardingHttpRequest": true
      "enableForwardingHttpRequest": false
    }
  }
}

```

Box 1: "type": "http"

Box 2: "customHandler": { "description":{

A custom handler is defined by configuring the host.json file with details on how to run the web server via the customHandler section.

The customHandler section points to a target as defined by the defaultExecutablePath.

Example:

```
"customHandler": {
  "description": {
    "defaultExecutablePath": "handler.exe"
  }
}
```

Box 3: "enableForwardingHttpRequest": false

Incorrect:

For HTTP-triggered functions with no additional bindings or outputs, you may want your handler to work directly with the HTTP request and response instead of the custom handler request and response payloads. This behavior can be configured in host.json using the enableForwardingHttpRequest setting.

At the root of the app, the host.json file is configured to run handler.exe and enableForwardingHttpRequest is set to true.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-custom-handlers>

Question 33 (Question Set 1)



HOTSPOT

-

You are developing an Azure Static Web app that contains training materials for a tool company. Each tool's training material is contained in a static web page that is linked from the tool's publicly available description page.

A user must be authenticated using Azure AD prior to viewing training.

You need to ensure that the user can view training material pages after authentication.

How should you complete the configuration file? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

```
{  
  "routes": {  
    "headers": {  
      "responseOverrides": {  
        "navigationFallback": {  
          "statusCode": 302,  
          "redirect": "/auth/login/?post_login",  
          "orig": {  
            "add": "add",  
            "azure": "azure",  
            "graph": "graph",  
            "microsoftonline": "microsoftonline"  
          }  
        }  
      }  
    }  
  }  
}
```

Answer Area

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```
{  
  "routes": {  
    "headers": {  
      "responseOverrides": {  
        "navigationFallback": {  
          "statusCode": 302,  
          "redirect": "/auth/login/?post_login",  
          "orig": {  
            "add": "add",  
            "azure": "azure",  
            "graph": "graph",  
            "microsoftonline": "microsoftonline"  
          }  
        }  
      }  
    }  
  }  
}  
  
Answer :  
"routes": {  
  "headers": {  
    "responseOverrides": {  
      "navigationFallback": {  
        "statusCode": 302,  
        "redirect": "/auth/login/?post_login",  
        "orig": {  
          "add": "add",  
          "azure": "azure",  
          "graph": "graph",  
          "microsoftonline": "microsoftonline"  
        }  
      }  
    }  
  }  
}
```



HOTSPOT

You are authoring a set of nested Azure Resource Manager templates to deploy Azure resources. You author an Azure Resource Manager template named mainTemplate.json that contains the following linked templates: linkedTemplate1.json, linkedTemplate2.json.

You add parameters to a parameters template file named mainTemplate.parameters.json. You save all templates on a local device in the C:\templates\ folder.

You have the following requirements:

- Store the templates in Azure for later deployment.
- Enable versioning of the templates.
- Manage access to the templates by using Azure RBAC.
- Ensure that users have read-only access to the templates.
- Allow users to deploy the templates.

You need to store the templates in Azure.

How should you complete the command? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

```
az ts create --name templateStore --version "1.0" --resource-group templatesRG --location "eastus" --template-file "C:\templates\mainTemplate.json" --linkedTemplate1.json --linkedTemplate2.json --mainTemplate.parameters.json --tags Dept=HumanResources Environment=Production
```

Answer Area

```
Answer : az ts create --name templateStore --version "1.0" --resource-group templatesRG --location "eastus" --template-file "C:\templates\mainTemplate.json" --linkedTemplate1.json --linkedTemplate2.json --mainTemplate.parameters.json --tags Dept=HumanResources Environment=Production
```

Question 35 (Question Set 1)



HOTSPOT

You are developing a service where customers can report news events from a browser using Azure Web PubSub. The service is implemented as an Azure Function App that uses the JSON WebSocket subprotocol to receive news events.

You need to implement the bindings for the Azure Function App.

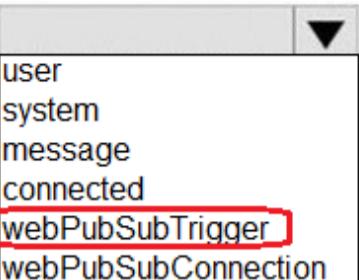
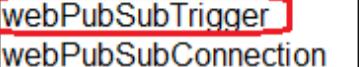
How should you configure the binding? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

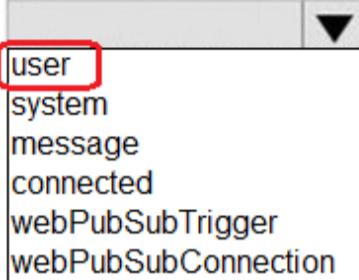
Answer Area

```
{
  "bindings": [
    {
      "type": "user",
      "direction": "in",
      "name": "data",
      "eventName": "message",
      "eventType": "user"
    }
  ]
}
```

Answer Area

```
{  
  "bindings": [  
    {  
      "type": "",  
      "user": "",  
      "system": "",  
      "message": "",  
      "connected": "",  
      "webPubSubTrigger": "",  
      "webPubSubConnection": ""  
    }  
  ]  
}
```

Answer :

```
"direction": "in",  
"name": "data",  
"eventName": "message",  
"eventType": "",  
"user": "",  
"system": "",  
"message": "",  
"connected": "",  
"webPubSubTrigger": "",  
"webPubSubConnection": ""  
}  
]  
}
```

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Question 36 (Question Set 1)



HOTSPOT

-

You are building a software-as-a-service (SaaS) application that analyzes DNA data that will run on Azure virtual machines (VMs) in an availability zone. The data is stored on managed disks attached to the VM. The performance of the analysis is determined by the speed of the disk attached to the VM.

You have the following requirements:

- The application must be able to quickly revert to the previous day's data if a systemic error is detected.
- The application must minimize downtime in the case of an Azure datacenter outage.

You need to provision the managed disk for the VM to maximize performance while meeting the requirements.

Which type of Azure Managed Disk should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Requirement	Solution
-------------	----------

Disk type

Premium SSD
Standard SSD
Standard HDD

Redundancy

Geo-redundant storage (GRS)
Zone-redundant storage (ZRS)
Locally-redundant storage (LRS)

Answer Area

Requirement	Solution
-------------	----------

Disk type

Premium SSD
Standard SSD
Standard HDD

Answer :

Redundancy

Geo-redundant storage (GRS)
Zone-redundant storage (ZRS)
Locally-redundant storage (LRS)

Question 37 (Question Set 1)



HOTSPOT

-

You are developing an application that includes two Docker containers.



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The application must meet the following requirements:

- The containers must not run as root.
- The containers must be deployed to Azure Container Instances by using a YAML file.

- The containers must share a lifecycle, resources, local network, and storage volume.
- The storage volume must persist through container crashes.
- The storage volume must be deployed on stop or restart of the containers.

You need to configure Azure Container Instances for the application.

Which configuration values should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Configuration setting Configuration value

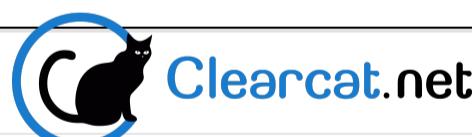
Shared lifecycle	<div style="border: 1px solid #ccc; padding: 5px; width: 150px;"> Container group Container image Service endpoint Resource group </div>
Storage volume	<div style="border: 1px solid #ccc; padding: 5px; width: 150px;"> Azure file share Secret Empty directory Cloned Git repo </div>

Answer Area

Configuration setting Configuration value

Shared lifecycle	<div style="border: 1px solid #ccc; padding: 5px; width: 150px;"> <input checked="" type="checkbox"/> Container group <input type="checkbox"/> Container image <input type="checkbox"/> Service endpoint <input type="checkbox"/> Resource group </div>
Storage volume	<div style="border: 1px solid #ccc; padding: 5px; width: 150px;"> <input type="checkbox"/> Azure file share <input type="checkbox"/> Secret <input type="checkbox"/> Empty directory <input checked="" type="checkbox"/> Cloned Git repo </div>

Question 38 (Question Set 2)



HOTSPOT -

You are implementing a software as a service (SaaS) ASP.NET Core web service that will run as an Azure Web App. The web service will use an on-premises SQL Server database for storage. The web service also includes a WebJob that processes data updates. Four customers will use the web service.

- ☞ Each instance of the WebJob processes data for a single customer and must run as a singleton instance.
- ☞ Each deployment must be tested by using deployment slots prior to serving production data.
- ☞ Azure costs must be minimized.
- ☞ Azure resources must be located in an isolated network.

You need to configure the App Service plan for the Web App.

How should you configure the App Service plan? To answer, select the appropriate settings in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

App service plan setting Value

Number of VM instances

2
4
8
16

Pricing tier

Isolated
Standard
Premium
Consumption

Answer Area

App service plan setting Value

Number of VM instances

2
4
8
16

Answer :

Pricing tier

Isolated
Standard
Premium
Consumption

Number of VM instances: 4 -

You are not charged extra for deployment slots.

Pricing tier: Isolated -

The App Service Environment (ASE) is a powerful feature offering of the Azure App Service that gives network isolation and improved scale capabilities. It is essentially a deployment of the Azure App Service into a subnet of a customer's Azure Virtual Network (VNet).

Reference:

<https://azure.microsoft.com/sv-se/blog/announcing-app-service-isolated-more-power-scale-and-ease-of-use/>

Question 39 (Question Set 2)



DRAG DROP -

You are a developer for a software as a service (SaaS) company that uses an Azure Function to process orders. The Azure Function currently runs on an Azure Function app that is triggered by an Azure Storage queue.

You are preparing to migrate the Azure Function to Kubernetes using Kubernetes-based Event Driven Autoscaling (KEDA).

You need to configure Kubernetes Custom Resource Definitions (CRD) for the Azure Function.

Which CRDs should you configure? To answer, drag the appropriate CRD types to the correct locations. Each CRD type 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.

Select and Place:

Answer Area

CRD types	Setting	CRD type
Secret	Azure Function code	
Deployment		
ScaledObject	Polling interval	
TriggerAuthentication	Azure Storage connection string	

Answer Area

CRD types	Setting	CRD type
Secret	Azure Function code	
Deployment		Deployment
ScaledObject	Polling interval	ScaledObject
TriggerAuthentication	Azure Storage connection string	Secret

Box 1: Deployment -

To deploy Azure Functions to Kubernetes use the func kubernetes deploy command has several attributes that directly control how our app scales, once it is deployed to Kubernetes.

Box 2: ScaledObject -

With --polling-interval, we can control the interval used by KEDA to check Azure Service Bus Queue for messages.

Example of ScaledObject with polling interval

apiVersion: keda.k8s.io/v1alpha1

kind: ScaledObject

metadata:

name: transformer-fn

namespace: tt

labels:

deploymentName: transformer-fn

spec:

scaleTargetRef:

deploymentName: transformer-fn

pollingInterval: 5

minReplicaCount: 0

maxReplicaCount: 100

Box 3: Secret -

Store connection strings in Kubernetes Secrets.

Example: to create the Secret in our demo Namespace:

```
# create the k8s demo namespace
kubectl create namespace tt
# grab connection string from Azure Service Bus
KEDA_SCALER_CONNECTION_STRING=$(az servicebus queue authorization-rule keys list \
-g $RG_NAME \
--namespace-name $SBN_NAME \
--queue-name inbound \
-n keda-scaler \
--query "primaryConnectionString" \
-o tsv)
# create the kubernetes secret
kubectl create secret generic tt-keda-auth \
--from-literal KedaScaler=$KEDA_SCALER_CONNECTION_STRING \
```



--namespace tt
Reference:
<https://www.thinktecture.com/en/kubernetes/serverless-workloads-with-keda/>

Question 40 (Question Set 2)



HOTSPOT -

You are creating a CLI script that creates an Azure web app and related services in Azure App Service. The web app uses the following variables:

Variable name	Value
\$gitrepo	https://github.com/Contos/webapp
\$webappname	Webapp1103

You need to automatically deploy code from GitHub to the newly created web app.

How should you complete the script? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
az group create --location westeurope --name myResourceGroup
```

```
--name $webappname --resource-group myResourceGroup --sku FREE
```

az webapp
az appservice plan create
az webapp deployment
az group delete

```
--name $webappname --resource-group myResourceGroup
```

az webapp create
az appservice plan create
az webapp deployment
az group delete

```
--repo-url $gitrepo --branch master --manual-integration  
git clone $gitrepo  
--plan $webappname
```

```
source config --name $webappname
```

az webapp
az appservice plan create
az webapp deployment
az group delete

```
--resource-group myResourceGroup
```

--repo-url \$gitrepo --branch master --manual-integration
git clone \$gitrepo
--plan \$webappname



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[CONTINUE -> AZ-204 EXAM SET 2](#)

Answer :

Answer Area

```
az group create --location westeurope --name myResourceGroup
```

```
--name $webappname --resource-group myResourceGroup --sku FREE
```

az webapp
az appservice plan create
az webapp deployment
az group delete

```
--name $webappname --resource-group myResourceGroup
```

az webapp create
az appservice plan create
az webapp deployment
az group delete

```
--repo-url $gitrepo --branch master --manual-integration
```

```
git clone $gitrepo
```

```
--plan $webappname
```

```
source config --name $webappname
```

az webapp
az appservice plan create
az webapp deployment
az group delete

```
--resource-group myResourceGroup
```

```
--repo-url $gitrepo --branch master --manual-integration
```

```
git clone $gitrepo
```

```
--plan $webappname
```

Box 1: az appservice plan create

The azure group creates command successfully returns JSON result. Now we can use resource group to create a azure app service plan

Box 2: az webapp create -

Create a new web app..

Box 3: --plan \$webappname -

..with the serviceplan we created in step 1.

Box 4: az webapp deployment -

Continuous Delivery with GitHub. Example:

```
az webapp deployment source config --name firstsamplewebsite1 --resource-group websites --repo-url $gitrepo --branch master --git-token $token
```

Box 5: --repo-url \$gitrepo --branch master --manual-integration

Reference:

<https://medium.com/@satish1v/devops-your-way-to-azure-web-apps-with-azure-cli-206ed4b3e9b1>

Please Continue -
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