

 EXAM AZ-204 TOPIC 1 QUESTION 1 DISCUSSION

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.

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.

Suggested Answer: C

Community vote distribution

C (100%)

by  N9 at April 29, 2022, 2:34 p.m.

 EXAM AZ-204 TOPIC 1 QUESTION 10 DISCUSSION

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.

Suggested Answer: C

Community vote distribution

C (94%)	6%
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by  ZodiaC at July 26, 2021, 7:10 a.m.

 EXAM AZ-204 TOPIC 1 QUESTION 11 DISCUSSION

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

Suggested Answer: A

Community vote distribution

A (100%)

by  [MrXBasit](#) at July 26, 2021, 2:27 p.m.

 EXAM AZ-204 TOPIC 1 QUESTION 12 DISCUSSION

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

Suggested Answer: *BD*

Community vote distribution

BD (100%)

by  [finnishr](#) at Sept. 1, 2022, 8:31 p.m.

EXAM AZ-204 TOPIC 1 QUESTION 13 DISCUSSION

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... X

i Info trash Delete

* Name
MFA required for Azure portal access

Assignments

- Users and groups i >
0 users selected
- Cloud apps i >
0 apps selected
- Conditions i >
0 conditions selected

Access controls

- Grant i >
0 controls selected
- Session i >
0 controls selected

Answer Area

The screenshot shows the configuration of a conditional access policy named "MFA required for Azure portal access". The policy includes assignments for users and groups, cloud apps, and conditions, and access controls for grants and sessions.

Suggested Answer:

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

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>

by finnshr at Sept. 1, 2022, 8:30 p.m.

 EXAM AZ-204 TOPIC 1 QUESTION 14 DISCUSSION

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.

Suggested Answer: C

Community vote distribution

C (100%)

by  MrXBasit at July 26, 2021, 2:29 p.m.

 EXAM AZ-204 TOPIC 1 QUESTION 15 DISCUSSION

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.

Suggested Answer: B

Community vote distribution

B (100%)

by  [kampatra](#) at Sept. 5, 2022, 5:56 p.m.

EXAM AZ-204 TOPIC 1 QUESTION 16 DISCUSSION

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	> 85"
	CPU Usage
	Percentage CPU
	avg Percentage CPU

--window size
--evaluation-frequency
--auto-mitigate

Answer Area

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

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

5m	> 85"
--window size	CPU Usage
--evaluation-frequency	Percentage CPU
--auto-mitigate	avg Percentage CPU

Suggested Answer:

Reference:

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

by  CellCS at April 29, 2022, 7:07 p.m.

 EXAM AZ-204 TOPIC 1 QUESTION 17 DISCUSSION

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

Suggested Answer: B

Community vote distribution

B (80%)

A (20%)

by  NStanhope at July 7, 2021, 9:55 a.m.

EXAM AZ-204 TOPIC 1 QUESTION 18 DISCUSSION

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

Suggested Answer: A

Community vote distribution

A (100%)

by  ZodiaC at July 27, 2021, 5:21 p.m.

EXAM AZ-204 TOPIC 1 QUESTION 19 DISCUSSION

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

Suggested Answer: B

Community vote distribution

B (100%)

by  ranjitklive at Aug. 4, 2021, 4:56 p.m.

 EXAM AZ-204 TOPIC 1 QUESTION 2 DISCUSSION

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

Suggested Answer:

Options

An Azure Storage account

Azure Active Directory (AD)
Identity Protection

An Azure policy

A backup policy

Answer

An Azure Key Vault

An access policy

by  Obioha at April 24, 2022, 6:21 p.m.

 EXAM AZ-204 TOPIC 1 QUESTION 20 DISCUSSION

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.

Suggested Answer: C

Community vote distribution

C (100%)

by  examTaker455 at July 18, 2021, 3:31 p.m.

 EXAM AZ-204 TOPIC 1 QUESTION 21 DISCUSSION

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.

Suggested Answer: C

Community vote distribution

C (100%)

by  Pirog at July 13, 2021, 7:44 p.m.

 EXAM AZ-204 TOPIC 1 QUESTION 22 DISCUSSION

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.

Suggested Answer: B

Community vote distribution

B (100%)

by  7ack at June 30, 2021, 8 p.m.

 EXAM AZ-204 TOPIC 1 QUESTION 23 DISCUSSION

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

Suggested Answer: B

Community vote distribution

B (94%) 6%

by  abdou1987 at July 19, 2021, 9:53 a.m.

 EXAM AZ-204 TOPIC 1 QUESTION 24 DISCUSSION

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

Suggested Answer: B

Community vote distribution

B (67%)

A (33%)

by  aradice at July 1, 2021, 1:37 a.m.

 EXAM AZ-204 TOPIC 1 QUESTION 25 DISCUSSION

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

Suggested Answer: A

Community vote distribution

A (56%)

B (44%)

by  aradice at July 1, 2021, 1:34 a.m.

 EXAM AZ-204 TOPIC 1 QUESTION 25 DISCUSSION

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

Suggested Answer: A

Community vote distribution

A (56%)

B (44%)

by  aradice at July 1, 2021, 1:34 a.m.

EXAM AZ-204 TOPIC 1 QUESTION 26 DISCUSSION

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

Suggested Answer: B

Community vote distribution

B (55%)

A (45%)

by  aradice at July 1, 2021, 1:33 a.m.

 EXAM AZ-204 TOPIC 1 QUESTION 27 DISCUSSION

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

Suggested Answer: B

Community vote distribution

B (52%)

A (48%)

by  aradice at July 1, 2021, 1:34 a.m.

 EXAM AZ-204 TOPIC 1 QUESTION 28 DISCUSSION

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.

Suggested Answer: D

Community vote distribution

D (100%)

by  7ack at June 30, 2021, 7:52 p.m.

EXAM AZ-204 TOPIC 1 QUESTION 29 DISCUSSION

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

Suggested Answer: D

Community vote distribution

D (81%) Other

by [deleted] at April 26, 2022, 1:17 p.m.

 EXAM AZ-204 TOPIC 1 QUESTION 3 DISCUSSION

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

Suggested Answer: A

Community vote distribution

A (77%)

B (23%)

by  VACAS at Aug. 31, 2022, 6:13 p.m.

 EXAM AZ-204 TOPIC 1 QUESTION 30 DISCUSSION

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 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.

Suggested Answer:

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.

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

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

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>

by  sghaha at April 28, 2022, 4:27 a.m.

EXAM AZ-204 TOPIC 1 QUESTION 31 DISCUSSION

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.

Suggested Answer: C

Community vote distribution

C (66%)

D (34%)

by  shoguns6 at July 8, 2021, 4:38 p.m.

EXAM AZ-204 TOPIC 1 QUESTION 32 DISCUSSION

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  
        }  
    }  
}
```

```

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

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

host.json

```

Suggested Answer:

```

"customHandler": { "description": {
    "languageWorker": { "path": {
        "extensions": { "worker": {
            "extensionBundle": {
                "defaultExecutablePath": "process.exe"
            }
        }
    }
}
}
}
}
}

```

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>

by  rjam at Sept. 7, 2022, 3:30 p.m.

EXAM AZ-204 TOPIC 1 QUESTION 33 DISCUSSION

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.

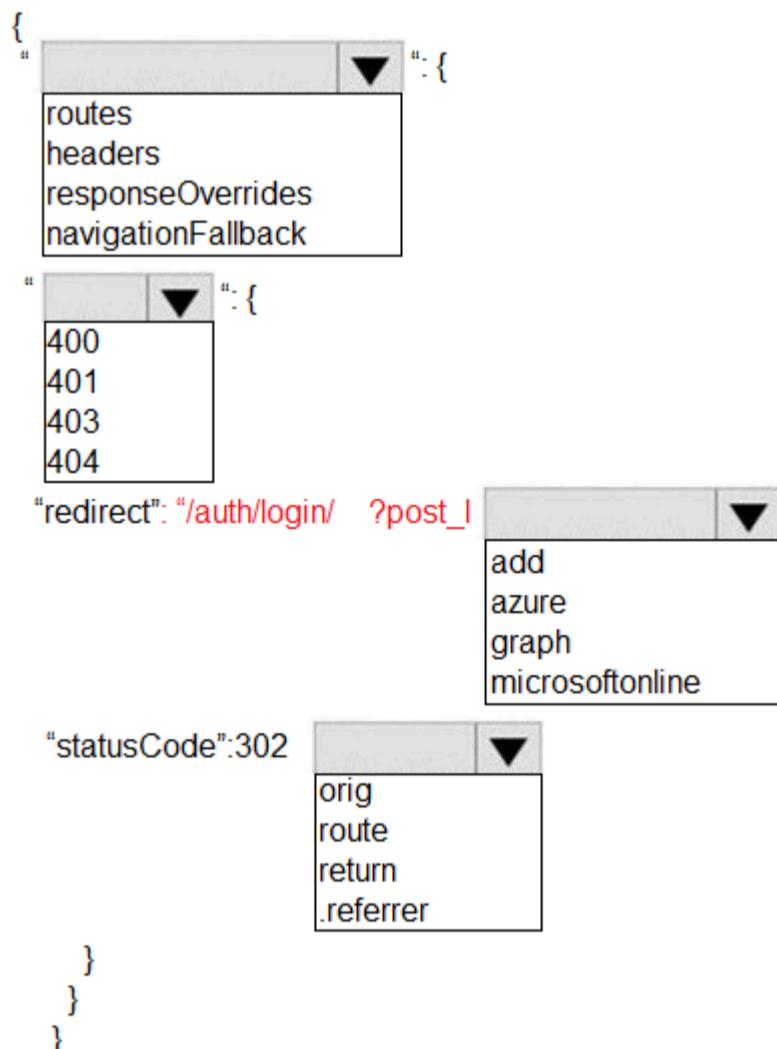
A user must be authenticated using Azure AD prior to viewing training.

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



Answer Area

```
{  
  "routes": {  
    "headers": {},  
    "responseOverrides": {  
      "statusCodes": {  
        "401": {  
          "redirect": "/auth/login/?post_login=true",  
          "statusCode": 302  
        }  
      }  
    }  
  }  
}
```

Suggested Answer:

"redirect": "/auth/login/?post_login=true"

"statusCode": 302

"add": "referrer"

"azure": {}

"graph": {}

"microsoftonline": {}

by  chettir01 at Jan. 6, 2023, 2:35 p.m.

 EXAM AZ-204 TOPIC 1 QUESTION 34 DISCUSSION

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

Answer Area

Suggested Answer:

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

by  chettir01 at Jan. 6, 2023, 2:41 p.m.

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.

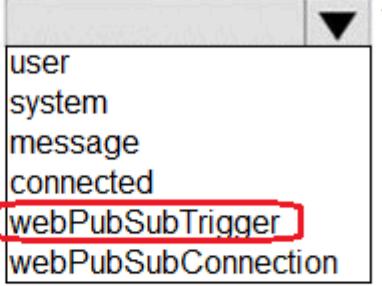
How should you configure the binding? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

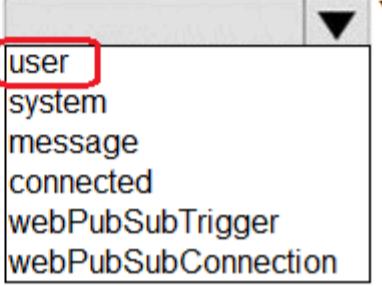
Answer Area

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

Answer Area

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

Suggested Answer:

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

by  chettir01 at Jan. 6, 2023, 2:47 p.m.

EXAM AZ-204 TOPIC 1 QUESTION 36 DISCUSSION

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	<input type="checkbox"/> Premium SSD <input type="checkbox"/> Standard SSD <input type="checkbox"/> Standard HDD
Redundancy	<input type="checkbox"/> Geo-redundant storage (GRS) <input type="checkbox"/> Zone-redundant storage (ZRS) <input type="checkbox"/> Locally-redundant storage (LRS)

Premium SSD
Standard SSD
Standard HDD

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

Answer Area

Requirement	Solution
Disk type	<input checked="" type="checkbox"/> Premium SSD <input type="checkbox"/> Standard SSD <input type="checkbox"/> Standard HDD
Redundancy	<input checked="" type="checkbox"/> Geo-redundant storage (GRS) <input type="checkbox"/> Zone-redundant storage (ZRS) <input type="checkbox"/> Locally-redundant storage (LRS)

Premium SSD
Standard SSD
Standard HDD

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

 EXAM AZ-204 TOPIC 1 QUESTION 4 DISCUSSION

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

Suggested Answer: B

Community vote distribution

B (100%)

by  jay158 at July 5, 2021, 5:47 a.m.

 EXAM AZ-204 TOPIC 1 QUESTION 5 DISCUSSION

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

Suggested Answer: B

Community vote distribution

B (81%)

D (19%)

by  ZodiaC at July 24, 2021, 3:25 p.m.

 EXAM AZ-204 TOPIC 1 QUESTION 6 DISCUSSION

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

Suggested Answer: D

Community vote distribution

D (100%)

by  Kalaisuran at July 1, 2021, 1:08 p.m.

 EXAM AZ-204 TOPIC 1 QUESTION 7 DISCUSSION

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

Suggested Answer: *B*

Community vote distribution

B (100%)

by  Kalaisuran at July 1, 2021, 1:08 p.m.

 EXAM AZ-204 TOPIC 1 QUESTION 8 DISCUSSION

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

Azure Cosmos DB
connector

SendGrid action

Consumption plan

Azure Event Hubs
binding

SendGrid binding

Answer

Options

Suggested Answer:

Azure Cosmos DB
connector

SendGrid action

Azure Event Hubs
binding

Answer

Consumption plan

SendGrid binding

by [deleted] at April 26, 2022, 12:02 p.m.

 EXAM AZ-204 TOPIC 1 QUESTION 9 DISCUSSION

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

Suggested Answer: B

Community vote distribution

B (79%) A (21%)

by  [ndh103](#) at July 2, 2021, 1:19 a.m.

EXAM AZ-204 TOPIC 10 QUESTION 1 DISCUSSION

HOTSPOT -

You need to implement the Azure Function for delivery driver profile information.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Configuration Value

Code library

- Microsoft Authentication Library (MSAL)
- Microsoft Azure Key Vault SDK
- Azure Identity library

API

- Microsoft Graph
- Azure Active Directory Graph
- Azure Key Vault

Answer Area

Configuration Value

Code library

- Microsoft Authentication Library (MSAL)
- Microsoft Azure Key Vault SDK
- Azure Identity library

Suggested Answer:

API

- Microsoft Graph
- Azure Active Directory Graph
- Azure Key Vault

Box 1: Azure Identity library -

Store delivery driver profile information in Azure Active Directory (Azure AD) by using an Azure Function called from the corporate website.

We recommend that you use a managed identity for applications deployed to Azure.

The preceding authentication scenarios are supported by the Azure Identity client library and integrated with Key Vault SDKs.

Note: What is Managed Service Identity?

Azure Key Vault avoids the need to store keys and secrets in application code or source control. However, in order to retrieve keys and secrets from Azure Key

Vault, you need to authorize a user or application with Azure Key Vault, which in its turn needs another credential. Managed Service Identity avoids the need of storing credentials for Azure Key Vault in application or environment settings by creating a Service Principal for each application or cloud service on which

Managed Service Identity is enabled. This Service Principal enables you to call a local MSI endpoint to get an access token from Azure AD using the credentials of the Service Principal. This token is then used to authenticate to an Azure Service, for example Azure Key Vault.

Box 2: Azure Key Vault -

Azure Key Vault allows you to securely access sensitive information from within your applications:

* Keys, secrets, and certificates are protected without your having to write the code yourself, and you can easily use them from your

applications.

Use Azure Key Vault to store only secrets for your application. Examples of secrets that should be stored in Key Vault include:

Client application secrets -

Connection strings -

Passwords -

Shared access keys -

SSH keys -

Reference:

<https://docs.microsoft.com/en-us/azure/key-vault/general/developers-guide> <https://integration.team/blog/retrieve-azure-key-vault-secrets-using-azure-functions-and-managed-service-identity>

by  willchenxa at Sept. 2, 2022, 5:52 a.m.

EXAM AZ-204 TOPIC 10 QUESTION 2 DISCUSSION

You need to grant access to the retail store location data for the inventory service development effort.

What should you use?

- A. Azure AD access token
- B. Azure RBAC role
- C. Shared access signature (SAS) token
- D. Azure AD ID token
- E. Azure AD refresh token

Suggested Answer: C

A shared access signature (SAS) provides secure delegated access to resources in your storage account. With a SAS, you have granular control over how a client can access your data. For example:

What resources the client may access.

What permissions they have to those resources.

How long the SAS is valid.

Note: Inventory services:

The company has contracted a third-party to develop an API for inventory processing that requires access to a specific blob within the retail store storage account for three months to include read-only access to the data.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-sas-overview>

Community vote distribution

C (100%)

by  [kampatra](#) at Sept. 19, 2022, 6:10 p.m.

EXAM AZ-204 TOPIC 10 QUESTION 3 DISCUSSION

HOTSPOT -

You need to reliably identify the delivery driver profile information.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Configuration	Value
JSON web token (JWT) type	<input type="checkbox"/> ID <input type="checkbox"/> Refresh <input type="checkbox"/> Access
Payload claim value	<input type="checkbox"/> oid <input type="checkbox"/> aud <input type="checkbox"/> idp

Answer Area

Configuration	Value
JSON web token (JWT) type	<input type="checkbox"/> ID <input checked="" type="checkbox"/> Refresh <input type="checkbox"/> Access
Payload claim value	<input type="checkbox"/> oid <input checked="" type="checkbox"/> aud <input type="checkbox"/> idp

Box 1: ID -

Scenario: Store delivery driver profile information in Azure Active Directory (Azure AD) by using an Azure Function called from the corporate website.

ID token - A JWT that contains claims that you can use to identify users in your application. This token is securely sent in HTTP requests for communication between two components of the same application or service. You can use the claims in an ID token as you see fit. They're commonly used to display account information or to make access control decisions in an application. ID tokens are signed, but they're not encrypted. When your application or API receives an ID token, it must validate the signature to prove that the token is authentic. Your application or API must also validate a few claims in the token to prove that it's valid.

Depending on the scenario requirements, the claims validated by an application can vary, but your application must perform some common claim validations in every scenario.

Box 2: Oid -

Oid - The immutable identifier for the "principal" of the request - the user or service principal whose identity has been verified. In ID tokens and app+user tokens, this is the object ID of the user. In app-only tokens, this is the object ID of the calling service principal. It can also be used to perform authorization checks safely and as a key in database tables. This ID uniquely identifies the principal across applications - two different applications signing in the same user will receive the same value in the oid claim.

Incorrect:

Aud - Identifies the intended recipient of the token. For Azure AD B2C, the audience is the application ID. Your application should validate this value and reject the token if it doesn't match. Audience is synonymous with resource.

Idp - Records the identity provider that authenticated the subject of the token. This value is identical to the value of the Issuer claim unless the user account not in the same tenant as the issuer - guests, for instance. If the claim isn't present, it means that the value of iss can be used instead. For personal accounts being used in an organizational context (for instance, a personal account invited to an Azure AD tenant), the idp claim may be 'live.com' or an STS URI containing the

Microsoft account tenant.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory-b2c/tokens-overview> <https://docs.microsoft.com/en-us/azure/active-directory/develop/access-tokens>

by  ArturKon at Sept. 21, 2022, 12:28 p.m.

 EXAM AZ-204 TOPIC 10 QUESTION 4 DISCUSSION

You need to secure the Azure Functions to meet the security requirements.

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

NOTE: Each correct selection is worth one point.

- A. Store the RSA-HSM key in Azure Key Vault with soft-delete and purge-protection features enabled.
- B. Store the RSA-HSM key in Azure Blob storage with an immutability policy applied to the container.
- C. Create a free tier Azure App Configuration instance with a new Azure AD service principal.
- D. Create a standard tier Azure App Configuration instance with an assigned Azure AD managed identity.
- E. Store the RSA-HSM key in Azure Cosmos DB. Apply the built-in policies for customer-managed keys and allowed locations.

Suggested Answer: AD

Community vote distribution

AD (100%)

by  sghaha at May 2, 2022, 3:20 p.m.

EXAM AZ-204 TOPIC 11 QUESTION 1 DISCUSSION

DRAG DROP -

You need to add markup at line AM04 to implement the ContentReviewer role.

How should you complete the markup? To answer, drag the appropriate json segments to the correct locations. Each json segment 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:

Json segments	Answer Area
User	"appRoles": [
value	{ "": [
role	"": "
Application],
allowedMemberTypes	"displayName": "ContentReviewer",
allowedAccountTypes	"id": "e1c2ade8-98f8-45fd-aa4a-6d24b512c22a",
	"isEnabled": true,
	"": "ContentReviewer"
	}
],

Suggested Answer:

Json segments	Answer Area
User	"appRoles": [
value	{ "allowedMemberTypes": [
role	"": "User"
Application],
allowedMemberTypes	"displayName": "ContentReviewer",
allowedAccountTypes	"id": "e1c2ade8-98f8-45fd-aa4a-6d24b512c22a",
	"isEnabled": true,
	"": "ContentReviewer"
	}
],

Box 1: allowedMemberTypes -

allowedMemberTypes specifies whether this app role definition can be assigned to users and groups by setting to "User", or to other applications (that are accessing this application in daemon service scenarios) by setting to "Application", or to both.

Note: The following example shows the appRoles that you can assign to users.

```
"appId": "8763f1c4-f988-489c-a51e-158e9ef97d6a",
"appRoles": [
{
  "allowedMemberTypes": [
    "User"
  ],
  "displayName": "Writer",
  "id": "d1c2ade8-98f8-45fd-aa4a-6d06b947c66f",
  "isEnabled": true,
```

```
"description": "Writers Have the ability to create tasks.",  
"value": "Writer"  
}  
,  
"availableToOtherTenants": false,
```

Box 2: User -

Scenario: In order to review content a user must be part of a ContentReviewer role.

Box 3: value -

value specifies the value which will be included in the roles claim in authentication and access tokens.

Reference:

<https://docs.microsoft.com/en-us/graph/api/resources/approle>

by  [anastakasim](#) at April 15, 2021, 8:47 a.m.

 EXAM AZ-204 TOPIC 11 QUESTION 2 DISCUSSION

HOTSPOT -

You need to add code at line AM09 to ensure that users can review content using ContentAnalysisService.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

"allowPublicClient":true
"oauth2Permissions": ["login"]
"oauth2AllowUrlPathMatching":true
"oauth2AllowIdTokenImplicitFlow":true

"oauth2AllowImplicitFlow": true
"oauth2RequiredPostResponse":true
"preAuthorizedApplications":["SPA"]
"knownClientApplications":["ContentAnalysisService"]

Answer Area

Suggested Answer:

"allowPublicClient":true
" oauth2Permissions": ["login"]
"oauth2AllowUrlPathMatching":true
"oauth2AllowIdTokenImplicitFlow":true

" oauth2AllowImplicitFlow": true
" oauth2RequiredPostResponse":true
"preAuthorizedApplications":["SPA"]
"knownClientApplications":["ContentAnalysisService"]

Box 1: "oauth2Permissions": ["login"]

oauth2Permissions specifies the collection of OAuth 2.0 permission scopes that the web API (resource) app exposes to client apps. These permission scopes may be granted to client apps during consent.

Box 2: "oauth2AllowImplicitFlow":true

For applications (Angular, Ember.js, React.js, and so on), Microsoft identity platform supports the OAuth 2.0 Implicit Grant flow.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/develop/reference-app-manifest>

 EXAM AZ-204 TOPIC 11 QUESTION 3 DISCUSSION

HOTSPOT -

You need to ensure that network security policies are met.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Technology	Value
SSL certificate	<input type="checkbox"/> Valid root certificate <input type="checkbox"/> Self-signed certificate
Proxy type	<input type="checkbox"/> nginx <input type="checkbox"/> Azure Application Gateway

Answer Area

Technology	Value
SSL certificate	<input type="checkbox"/> Valid root certificate <input type="checkbox"/> Self-signed certificate
Proxy type	<input type="checkbox"/> nginx <input type="checkbox"/> Azure Application Gateway

Box 1: Valid root certificate -

Scenario: All websites and services must use SSL from a valid root certificate authority.

Box 2: Azure Application Gateway

Scenario:

☞ Any web service accessible over the Internet must be protected from cross site scripting attacks.

☞ All Internal services must only be accessible from Internal Virtual Networks (VNets)

All parts of the system must support inbound and outbound traffic restrictions.

Azure Web Application Firewall (WAF) on Azure Application Gateway provides centralized protection of your web applications from common exploits and vulnerabilities. Web applications are increasingly targeted by malicious attacks that exploit commonly known vulnerabilities. SQL injection and cross-site scripting are among the most common attacks.

Azure Application Gateway supports autoscaling, SSL offloading, and end-to-end SSL, a web application firewall (WAF), cookie-based session affinity, URL path-based routing, multisite hosting, redirection, rewrite HTTP headers and other features.

Note: Both Nginx and Azure Application Gateway act as a reverse proxy with Layer 7 load-balancing features plus a WAF to ensure strong protection against common web vulnerabilities and exploits.

You can modify Nginx web server configuration/SSL for X-XSS protection. This helps to prevent cross-site scripting exploits by forcing the injection of HTTP headers with X-XSS protection.

Reference:

<https://docs.microsoft.com/en-us/azure/web-application-firewall/ag/ag-overview> <https://www.upguard.com/articles/10-tips-for-securing-your-nginx-deployment>

by  [mlantonis](#) at June 1, 2021, 12:40 p.m.

EXAM AZ-204 TOPIC 11 QUESTION 4 DISCUSSION

DRAG DROP -

You need to add YAML markup at line CS17 to ensure that the ContentUploadService can access Azure Storage access keys.

How should you complete the YAML markup? To answer, drag the appropriate YAML segments to the correct locations. Each YAML segment 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:

YAML segments

secret
envVar
secretValues
volumes
volumeMounts
environmentVariables

Answer Area

YAML segment :

- mountPath: /mnt/secrets
name: accesskey

YAML segment :

- name: accesskey

YAML segment :

key: TXkgZmlyc3Qgc2VjcmV0IEZPTwo=

Suggested Answer:

YAML segments

envVar
secretValues
environmentVariables

Answer Area

volumeMounts :

- mountPath: /mnt/secrets
name: accesskey

volumes :

- name: accesskey

secret :

key: TXkgZmlyc3Qgc2VjcmV0IEZPTwo=

Box 1: volumeMounts -

Example:

volumeMounts:

- mountPath: /mnt/secrets

name: secretvolume1

volumes:

- name: secretvolume1

secret:

mysecret1: TXkgZmlyc3Qgc2VjcmV0IEZPTwo=

Box 2: volumes -

Box 3: secret -

Reference:

<https://docs.microsoft.com/en-us/azure/container-instances/container-instances-volume-secret>

by  rdemontis at March 24, 2021, 4:30 p.m.

 EXAM AZ-204 TOPIC 11 QUESTION 5 DISCUSSION

HOTSPOT -

You need to add code at line AM10 of the application manifest to ensure that the requirement for manually reviewing content can be met.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
"optionalClaims": [  
    "urn:ietf:params:oauth:claim:  
        acct  
        platt  
        sid  
        tenant_ctry",  
    "urn:ietf:params:oauth:claim:  
        sid  
        upn  
        email  
        enfpolids",  
],
```

Answer Area

```
"optionalClaims": [  
    "urn:ietf:params:oauth:claim:  
        acct  
        platt  
        sid  
        tenant_ctry",  
    "urn:ietf:params:oauth:claim:  
        sid  
        upn  
        email  
        enfpolids",  
],
```

Suggested Answer:

Box 1: sid -

Sid: Session ID, used for per-session user sign-out. Personal and Azure AD accounts.

Scenario: Manual review -

To review content, the user must authenticate to the website portion of the ContentAnalysisService using their Azure AD credentials. The website is built using

React and all pages and API endpoints require authentication. In order to review content a user must be part of a ContentReviewer role.

Box 2: email -

Scenario: All completed reviews must include the reviewer's email address for auditing purposes.

EXAM AZ-204 TOPIC 12 QUESTION 1 DISCUSSION

HOTSPOT -

You need to secure the Shipping Function app.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Setting	Value
Authorization level	<input type="checkbox"/> Function <input type="checkbox"/> Anonymous <input type="checkbox"/> Admin
User claims	<input type="checkbox"/> JSON Web Token (JWT) <input type="checkbox"/> Shared Access Signature (SAS) token <input type="checkbox"/> API Key
Trigger type	<input type="checkbox"/> blob <input type="checkbox"/> HTTP <input type="checkbox"/> queue <input type="checkbox"/> timer

Answer Area

Setting	Value
Authorization level	<input checked="" type="checkbox"/> Function <input type="checkbox"/> Anonymous <input type="checkbox"/> Admin
Suggested Answer: User claims	<input checked="" type="checkbox"/> JSON Web Token (JWT) <input type="checkbox"/> Shared Access Signature (SAS) token <input type="checkbox"/> API Key
Trigger type	<input type="checkbox"/> blob <input checked="" type="checkbox"/> HTTP <input type="checkbox"/> queue <input type="checkbox"/> timer

Scenario: Shipping Function app: Implement secure function endpoints by using app-level security and include Azure Active Directory (Azure AD).

Box 1: Function -

Box 2: JSON based Token (JWT)

Azure AD uses JSON based tokens (JWTs) that contain claims

Box 3: HTTP -

How a web app delegates sign-in to Azure AD and obtains a token

User authentication happens via the browser. The OpenID protocol uses standard HTTP protocol messages.

Reference:

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

by  sghaha at May 2, 2022, 3:22 p.m.

EXAM AZ-204 TOPIC 12 QUESTION 2 DISCUSSION

You need to secure the Shipping Logic App.

What should you use?

- A. Azure App Service Environment (ASE)
- B. Integration Service Environment (ISE)
- C. VNet service endpoint
- D. Azure AD B2B integration

Suggested Answer: B

Community vote distribution

B (67%)

C (33%)

by  NKnab at July 31, 2020, 7 a.m.

 EXAM AZ-204 TOPIC 13 QUESTION 1 DISCUSSION

HOTSPOT -

You need to retrieve the database connection string.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

REST API Endpoint:

https://

cpandlkeyvault
PostgreSQLConn
80df3e46ffcd4f1cb187f79905e9a1e8

.vault.azure.net/secrets/

cpandlkeyvault
PostgreSQLConn
80df3e46ffcd4f1cb187f79905e9a1e8

Variable type to access Azure Key Vault secret values:

Environment
Session
ViewState
QueryString

Suggested Answer:

Answer Area

REST API Endpoint:

https://

cpandlkeyvault
PostgreSQLConn
80df3e46ffcd4f1cb187f79905e9a1e8

.vault.azure.net/secrets/

cpandlkeyvault
PostgreSQLConn
80df3e46ffcd4f1cb187f79905e9a1e8

Variable type to access Azure Key Vault secret values:

Environment
Session
ViewState
QueryString

Azure database connection string retrieve REST API vault.azure.net/secrets/

Box 1: cpandlkeyvault -

We specify the key vault, cpandlkeyvault.

Scenario: The database connection string is stored in Azure Key Vault with the following attributes:

Azure Key Vault name: cpandlkeyvault

Secret name: PostgreSQLConn -

Id: 80df3e46ffcd4f1cb187f79905e9a1e8

Box 2: PostgreSQLConn -

We specify the secret, PostgreSQLConn

Example, sample request:

<https://myvault.vault.azure.net/secrets/mysecretname/4387e9f3d6e14c459867679a90fd0f79?api-version=7.1>

Box 3: Querystring -

Reference:

<https://docs.microsoft.com/en-us/rest/api/keyvault/getsecret/getsecret>

EXAM AZ-204 TOPIC 13 QUESTION 2 DISCUSSION

DRAG DROP -

You need to correct the corporate website error.

Which four actions should you recommend be performed 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	Answer Area
Upload the certificate to Azure Key Vault.	
Update line SC05 of Security.cs to include error handling and then redeploy the code.	
Update line SC03 of Security.cs to include a using statement and then re-deploy the code.	
Add the certificate thumbprint to the WEBSITE_LOAD_CERTIFICATES app setting.	
Upload the certificate to source control.	
Import the certificate to Azure App Service.	
Generate a certificate.	

Actions	Answer Area
Upload the certificate to Azure Key Vault.	Generate a certificate.
Update line SC05 of Security.cs to include error handling and then redeploy the code.	Upload the certificate to Azure Key Vault.
Update line SC03 of Security.cs to include a using statement and then re-deploy the code.	
Add the certificate thumbprint to the WEBSITE_LOAD_CERTIFICATES app setting.	 Import the certificate to Azure App Service.
Upload the certificate to source control.	Update line SC05 of Security.cs to include error handling and then redeploy the code.
Import the certificate to Azure App Service.	
Generate a certificate.	

Scenario: Corporate website -

While testing the site, the following error message displays:

CryptographicException: The system cannot find the file specified.

Step 1: Generate a certificate -

Step 2: Upload the certificate to Azure Key Vault

Scenario: All SSL certificates and credentials must be stored in Azure Key Vault.

Step 3: Import the certificate to Azure App Service

Step 4: Update line SC05 of Security.cs to include error handling and then redeploy the code

Reference:

<https://docs.microsoft.com/en-us/azure/app-service/configure-ssl-certificate>

 EXAM AZ-204 TOPIC 13 QUESTION 3 DISCUSSION

HOTSPOT -

You need to configure API Management for authentication.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Setting	Value
Policy	<ul style="list-style-type: none">Check HTTP headerRestrict caller IPsLimit call rate by keyValidate JWT
Policy section	<ul style="list-style-type: none">InboundOutbound

Answer Area

Setting	Value
Policy	<ul style="list-style-type: none">Check HTTP headerRestrict caller IPsLimit call rate by keyValidate JWT
Policy section	<ul style="list-style-type: none">InboundOutbound

Box 1: Validate JWT -

The validate-jwt policy enforces existence and validity of a JWT extracted from either a specified HTTP Header or a specified query parameter.

Scenario: User authentication (see step 5 below)

The following steps detail the user authentication process:

1. The user selects Sign in in the website.
2. The browser redirects the user to the Azure Active Directory (Azure AD) sign in page.
3. The user signs in.
4. Azure AD redirects the user's session back to the web application. The URL includes an access token.
5. The web application calls an API and includes the access token in the authentication header. The application ID is sent as the audience ('aud') claim in the access token.
6. The back-end API validates the access token.

Incorrect Answers:

- ⇒ Limit call rate by key - Prevents API usage spikes by limiting call rate, on a per key basis.
- ⇒ Restrict caller IPs - Filters (allows/denies) calls from specific IP addresses and/or address ranges.
- ⇒ Check HTTP header - Enforces existence and/or value of a HTTP Header.

Box 2: Outbound -

Reference:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-access-restriction-policies>

EXAM AZ-204 TOPIC 13 QUESTION 4 DISCUSSION

You need to authenticate the user to the corporate website as indicated by the architectural diagram.

Which two values should you use? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. ID token signature
- B. ID token claims
- C. HTTP response code
- D. Azure AD endpoint URI
- E. Azure AD tenant ID

Suggested Answer: AD

Community vote distribution

AD (61%)	DE (26%)	9%
----------	----------	----

by  Kuna_Lambo at March 12, 2021, 8:13 p.m.

EXAM AZ-204 TOPIC 13 QUESTION 5 DISCUSSION

HOTSPOT -

You need to correct the Azure Logic app error message.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Setting	Value
authentication level	<input type="checkbox"/> anonymous <input type="checkbox"/> function <input type="checkbox"/> admin
managed identity	<input type="checkbox"/> system-assigned <input type="checkbox"/> user-assigned

Answer Area

Setting	Value
authentication level	<input type="checkbox"/> anonymous <input checked="" type="checkbox"/> function <input type="checkbox"/> admin
managed identity	<input type="checkbox"/> system-assigned <input type="checkbox"/> user-assigned

Scenario: You test the Logic app in a development environment. The following error message displays:

'400 Bad Request'

Troubleshooting of the error shows an HttpTrigger action to call the RequestUserApproval function.

Note: If the inbound call's request body doesn't match your schema, the trigger returns an HTTP 400 Bad Request error.

Box 1: function -

If you have an Azure function where you want to use the system-assigned identity, first enable authentication for Azure functions.

Box 2: system-assigned -

Your logic app or individual connections can use either the system-assigned identity or a single user-assigned identity, which you can share across a group of logic apps, but not both.

Reference:

<https://docs.microsoft.com/en-us/azure/logic-apps/create-managed-service-identity>

by  rqb11 at April 5, 2021, 12:57 p.m.

EXAM AZ-204 TOPIC 13 QUESTION 6 DISCUSSION

HOTSPOT -

You need to configure Azure Service Bus to Event Grid integration.

Which Azure Service Bus settings should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Setting	Value
Tier	<input type="checkbox"/>
	Basic
	Standard
	Premium
RBAC role	<input type="checkbox"/>
	Owner
	Contributor
	Azure Service Bus Data Owner
	Azure Service Bus Data Receiver

Answer Area

Setting	Value
Tier	<input type="checkbox"/>
	Basic
	Standard
	Premium
RBAC role	<input type="checkbox"/>
	Owner
	Contributor
	Azure Service Bus Data Owner
	Azure Service Bus Data Receiver

Box 1: Premium -

Service Bus can now emit events to Event Grid when there are messages in a queue or a subscription when no receivers are present. You can create Event Grid subscriptions to your Service Bus namespaces, listen to these events, and then react to the events by starting a receiver. With this feature, you can use Service Bus in reactive programming models.

To enable the feature, you need the following items:

A Service Bus Premium namespace with at least one Service Bus queue or a Service Bus topic with at least one subscription.
Contributor access to the Service Bus namespace.

Box 2: Contributor -

Reference:

<https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-to-event-grid-integration-concept>

by  Marusyk at March 14, 2021, 10:06 p.m.

EXAM AZ-204 TOPIC 14 QUESTION 1 DISCUSSION

HOTSPOT -

You need to add code at line PC26 of Processing.cs to ensure that security policies are met.

How should you complete the code that you will add at line PC26? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
var resolver = new KeyVaultKeyResolver(_keyVaultClient);
var keyBundle = await _keyVaultClient.GetKeyAsync("...", "...");
```

```
var key = keyBundle.Key;
var key = keyBundle.KeyIdentifier.Identifier;
var key = await resolver.ResolveKeyAsync("encrypt", null);
var key = await resolver.ResolveKeyAsync(keyBundle.KeyIdentifier.Identifier, CancellationToken.None);
```

```
var x = keyBundle.Managed;
var x = AuthenticationScheme.SharedKey;
var x = new BlobEncryptionPolicy(key, resolver);
var x = new DeleteRetentionPolicy {Enabled = key.Kid != null};
```

```
cloudBlobClient.AuthenticationScheme = x;
cloudBlobClient.DefaultRequestOptions.RequireEncryption = x;
cloudBlobClient.DefaultRequestOptions.EncryptionPolicy = x;
cloudBlobClient.SetServiceProperties(new ServiceProperties(deleteRetentionPolicy:x));
```

Suggested Answer:

Answer Area

```
var resolver = new KeyVaultKeyResolver(_keyVaultClient);
var keyBundle = await _keyVaultClient.GetKeyAsync("...", "...");
```

```
var key = keyBundle.Key;
var key = keyBundle.KeyIdentifier.Identifier;
var key = await resolver.ResolveKeyAsync("encrypt", null);
var key = await resolver.ResolveKeyAsync(keyBundle.KeyIdentifier.Identifier, CancellationToken.None);
```

```
var x = keyBundle.Managed;
var x = AuthenticationScheme.SharedKey;
var x = new BlobEncryptionPolicy(key, resolver);
var x = new DeleteRetentionPolicy {Enabled = key.Kid != null};
```

```
cloudBlobClient.AuthenticationScheme = x;
cloudBlobClient.DefaultRequestOptions.RequireEncryption = x;
cloudBlobClient.DefaultRequestOptions.EncryptionPolicy = x;
cloudBlobClient.SetServiceProperties(new ServiceProperties(deleteRetentionPolicy:x));
```

Box 1: var key = await Resolver.ResolveKeyAsyn(keyBundle,KeyIdentifier.CancellationToken.None);

Box 2: var x = new BlobEncryptionPolicy(key,resolver);

Example:

// We begin with cloudKey1, and a resolver capable of resolving and caching Key Vault secrets.

BlobEncryptionPolicy encryptionPolicy = new BlobEncryptionPolicy(cloudKey1, cachingResolver);

client.DefaultRequestOptions.EncryptionPolicy = encryptionPolicy;

Box 3: cloudblobClient.DefaultRequestOptions.EncryptionPolicy = x;

Reference:

<https://github.com/Azure/azure-storage-net/blob/master/Samples/GettingStarted/EncryptionSamples/KeyRotation/Program.cs>

by  wumingshi at March 26, 2021, 8:36 a.m.

 EXAM AZ-204 TOPIC 14 QUESTION 2 DISCUSSION

You need to ensure the security policies are met.

What code do you add at line CS07 of ConfigureSSE.ps1?

- A. "PermissionsToKeys create, encrypt, decrypt
- B. "PermissionsToCertificates create, encrypt, decrypt
- C. "PermissionsToCertificates wrapkey, unwrapkey, get
- D. "PermissionsToKeys wrapkey, unwrapkey, get

Suggested Answer: D

Community vote distribution

D (100%)

by  Kuna_Lambo at March 13, 2021, 4:20 p.m.

 EXAM AZ-204 TOPIC 15 QUESTION 1 DISCUSSION

You need to reduce read latency for the retail store solution.

What are two possible ways to achieve the goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Create a new composite index for the store location data queries in Azure Cosmos DB. Modify the queries to support parameterized SQL and update the Azure Function app to call the new queries.
- B. Provision an Azure Cosmos DB dedicated gateway. Update the Azure Function app connection string to use the new dedicated gateway endpoint.
- C. Configure Azure Cosmos DB consistency to session consistency. Cache session tokens in a new Azure Redis cache instance after every write. Update reads to use the session token stored in Azure Redis.
- D. Provision an Azure Cosmos DB dedicated gateway. Update blob storage to use the new dedicated gateway endpoint.
- E. Configure Azure Cosmos DB consistency to strong consistency. Increase the RUs for the container supporting store location data.

Suggested Answer: AB

Community vote distribution

AB (55%)	AC (36%)	9%
----------	----------	----

by  le129 at Sept. 1, 2022, 7:38 p.m.

 EXAM AZ-204 TOPIC 15 QUESTION 2 DISCUSSION

You need to audit the retail store sales transactions.

What are two possible ways to achieve the goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Update the retail store location data upload process to include blob index tags. Create an Azure Function to process the blob index tags and filter by store location.
- B. Process the change feed logs of the Azure Blob storage account by using an Azure Function. Specify a time range for the change feed data.
- C. Enable blob versioning for the storage account. Use an Azure Function to process a list of the blob versions per day.
- D. Process an Azure Storage blob inventory report by using an Azure Function. Create rule filters on the blob inventory report.
- E. Subscribe to blob storage events by using an Azure Function and Azure Event Grid. Filter the events by store location.

Suggested Answer: BE

Community vote distribution

BE (100%)

by  sghaha at May 2, 2022, 3:23 p.m.

EXAM AZ-204 TOPIC 16 QUESTION 1 DISCUSSION

You need to monitor ContentUploadService according to the requirements.

Which command should you use?

- A. az monitor metrics alert create > alert >g > -scopes > -condition "avg Percentage CPU > 8"
- B. az monitor metrics alert create > alert >g > -scopes > -condition "avg Percentage CPU > 800"
- C. az monitor metrics alert create > alert >g > -scopes > -condition "CPU Usage > 800"
- D. az monitor metrics alert create > alert >g > -scopes > -condition "CPU Usage > 8"

Suggested Answer: C

Community vote distribution

C (96%)	4%
---------	----

by  [robjanssen](#) at March 15, 2021, 10:16 a.m.

EXAM AZ-204 TOPIC 16 QUESTION 2 DISCUSSION

You need to investigate the http server log output to resolve the issue with the ContentUploadService.
Which command should you use first?

- A. az webapp log
- B. az ams live-output
- C. az monitor activity-log
- D. az container attach

Suggested Answer: D

Community vote distribution

D (82%) C (18%)

by  Beitrان at April 2, 2021, 5:42 p.m.

EXAM AZ-204 TOPIC 17 QUESTION 1 DISCUSSION

You need to investigate the Azure Function app error message in the development environment.

What should you do?

- A. Connect Live Metrics Stream from Application Insights to the Azure Function app and filter the metrics.
- B. Create a new Azure Log Analytics workspace and instrument the Azure Function app with Application Insights.
- C. Update the Azure Function app with extension methods from Microsoft.Extensions.Logging to log events by using the `log` instance.
- D. Add a new diagnostic setting to the Azure Function app to send logs to Log Analytics.

Suggested Answer: A

Azure Functions offers built-in integration with Azure Application Insights to monitor functions.

The following areas of Application Insights can be helpful when evaluating the behavior, performance, and errors in your functions:

Live Metrics: View metrics data as it's created in near real-time.

Failures -

Performance -

Metrics -

Reference:

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

Community vote distribution

A (67%)

C (33%)

by  JVTM at Nov. 16, 2020, 1:34 p.m.

EXAM AZ-204 TOPIC 17 QUESTION 2 DISCUSSION

HOTSPOT -

You need to configure security and compliance for the corporate website files.

Which Azure Blob storage settings should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Action	Setting
Restrict file access	<input type="checkbox"/> role-based access control (RBAC) <input type="checkbox"/> managed identity <input type="checkbox"/> shared access signature (SAS) token <input type="checkbox"/> connection string
Enable file auditing	<input type="checkbox"/> access tier <input type="checkbox"/> change feed <input type="checkbox"/> blob indexer <input type="checkbox"/> storage account type

Answer Area

Action	Setting
Restrict file access	<input checked="" type="checkbox"/> role-based access control (RBAC) <input type="checkbox"/> managed identity <input type="checkbox"/> shared access signature (SAS) token <input type="checkbox"/> connection string
Enable file auditing	<input type="checkbox"/> access tier <input type="checkbox"/> change feed <input type="checkbox"/> blob indexer <input checked="" type="checkbox"/> storage account type

Box 1: role-based access control (RBAC)

Azure Storage supports authentication and authorization with Azure AD for the Blob and Queue services via Azure role-based access control (Azure RBAC).

Scenario: File access must restrict access by IP, protocol, and Azure AD rights.

Box 2: storage account type -

Scenario: The website uses files stored in Azure Storage

Auditing of the file updates and transfers must be enabled to comply with General Data Protection Regulation (GDPR).

Creating a diagnostic setting:

1. Sign in to the Azure portal.
2. Navigate to your storage account.
3. In the Monitoring section, click Diagnostic settings (preview).

Home > Storage accounts > mystorageaccount - Diagnostic settings (preview)

mystorageaccount- Diagnostic settings (preview)

Storage account

Search (Ctrl+ /) Refresh

Subscription: Visual Studio Enterprise Resource group: my-resource-group Resource type: Storage accounts Resource: mystorageaccount

Visual Studio Enterprise > my-resource-group > mystorageaccount

Select any of the resources to view diagnostic settings.

NAME	RESOURCE TYPE	RESOURCE GROUP	DIAGNOSTICS STATUS
mystorageaccount	Storage account	my-resource-group	Disabled
blob	Storage account	my-resource-group	Disabled
queue	Storage account	my-resource-group	Disabled
table	Storage account	my-resource-group	Disabled
file	Storage account	my-resource-group	Disabled

Files Table service Queue service Queues Monitoring Alerts Metrics Diagnostic settings (preview) Advisor recommendations Monitoring (classic) Alerts (classic) Metrics (classic) Diagnostic settings (classic) Usage (classic)

The screenshot shows the Azure Storage Diagnostic Settings preview interface. On the left, there's a navigation pane with various monitoring options like Files, Table service, Queue service, etc. The 'Diagnostic settings (preview)' option is highlighted with a red box. The main area displays a table of resources with columns for Name, Resource Type, Resource Group, and Diagnostics Status. All resources listed (mystorageaccount, blob, queue, table, file) have their status set to 'Disabled'. The top navigation bar includes a search bar, refresh button, and filter dropdowns for Subscription, Resource group, Resource type, and Resource.

4. Choose file as the type of storage that you want to enable logs for.

5. Click Add diagnostic setting.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-introduction> <https://docs.microsoft.com/en-us/azure/storage/files/storage-files-monitoring>

by Kuna_Lambo at March 12, 2021, 8:58 p.m.

 EXAM AZ-204 TOPIC 18 QUESTION 1 DISCUSSION

You need to correct the RequestUserApproval Function app error.

What should you do?

- A. Update line RA13 to use the `async` keyword and return an `HttpRequest` object value.
- B. Configure the Function app to use an App Service hosting plan. Enable the Always On setting of the hosting plan.
- C. Update the function to be stateful by using Durable Functions to process the request payload.
- D. Update the `functionTimeout` property of the `host.json` project file to 15 minutes.

Suggested Answer: C

Community vote distribution

C (100%)

by  [rdemontis](#) at March 24, 2021, 2:20 p.m.

EXAM AZ-204 TOPIC 19 QUESTION 1 DISCUSSION

DRAG DROP -

You need to implement the Log policy.

How should you complete the Azure Event Grid subscription? To answer, drag the appropriate JSON segments to the correct locations. Each JSON segment may be used once, more than once, or not at all. You may need to drag the split bar between panes to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Code segment	Answer Area
All	{
WebHook	"name": "newlogs",
EventHub	"properties": {
subjectEndsWith	"topic": "/subscriptions/. . ./providers/Microsoft.EventGrid/topics/. . .",
Mictosoft.Storage	"destination": {
subjectBeginsWith	"endpointType" : " code segment ",
Microsoft.Storage.BlobCreated	"filter": {
	" code segment " : "/blobServices/default/containers/logdrop/",
	"includedEventTypes": [" code segment "] },
	"labels": [],
	"eventDeliverySchema": "EventGridSchema"

Suggested Answer:

Code segment	Answer Area
All	{
WebHook	"name": "newlogs",
EventHub	"properties": {
subjectEndsWith	"topic": "/subscriptions/. . ./providers/Microsoft.EventGrid/topics/. . .",
Mictosoft.Storage	"destination": {
subjectBeginsWith	"endpointType" : " WebHook ",
Microsoft.Storage.BlobCreated	"filter": {
	" subjectBeginsWith " : "/blobServices/default/containers/logdrop/",
	"includedEventTypes": [" Microsoft.Storage.BlobCreated "] },
	"labels": [],
	"eventDeliverySchema": "EventGridSchema"

Box 1:WebHook -

Scenario: If an anomaly is detected, an Azure Function that emails administrators is called by using an HTTP WebHook. endpointType: The type of endpoint for the subscription (webhook/HTTP, Event Hub, or queue).

Box 2: SubjectBeginsWith -

Box 3: Microsoft.Storage.BlobCreated

Scenario: Log Policy -

All Azure App Service Web Apps must write logs to Azure Blob storage. All log files should be saved to a container named logdrop. Logs must remain in the container for 15 days.

Example subscription schema -

```
{  
    "properties": {  
        "destination": {  
            "endpointType": "webhook",  
            "properties": {  
                "endpointUrl": "https://example.azurewebsites.net/api/HttpTriggerCSharp1?  
code=VXbGWce53I48Mt8wuotr0GPmyJ/nDT4hgdFj9DpBiRt38qqnnm50Fg=="  
            }  
        },  
        "filter": {  
            "includedEventTypes": [ "Microsoft.Storage.BlobCreated", "Microsoft.Storage.BlobDeleted" ],  
            "label": "LogPolicy"  
        }  
    }  
}
```

```
"subjectBeginsWith": "blobServices/default/containers/mycontainer/log",
[1]
"isSubjectCaseSensitive ": "true"
}
}
}
Reference:
https://docs.microsoft.com/en-us/azure/event-grid/subscription-creation-schema
```

by  [jokergester](#) at April 3, 2021, 2:51 p.m.

 EXAM AZ-204 TOPIC 19 QUESTION 2 DISCUSSION

You need to ensure that the solution can meet the scaling requirements for Policy Service.

Which Azure Application Insights data model should you use?

- A. an Application Insights dependency
- B. an Application Insights event
- C. an Application Insights trace
- D. an Application Insights metric

Suggested Answer: D

Community vote distribution

D (100%)

by  Kitkit at Feb. 9, 2021, 8:18 p.m.

EXAM AZ-204 TOPIC 19 QUESTION 3 DISCUSSION

DRAG DROP -

You need to implement telemetry for non-user actions.

How should you complete the Filter class? To answer, drag the appropriate code segments to the correct locations. Each code segment 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:

Code segments

/health
/status
RequestTelemetry
PageViewTelemetry
ITelemetryProcessor
ITelemetryInitializer

Answer Area

```
public class Filter : ITelemetryProcessor
{
    private readonly ITelemetryProcessor _next;
    public (Filter ITelemetryProcessor next)
    {
        _next = next;
    }
    public void Process(ITelemetry item)
    {
        var x = item as RequestTelemetry;
        if (x?.Url.AbsolutePath == "/health")
        {
            return;
        }
        _next.Process(item);
    }
}
```

Suggested Answer:

Code segments

/health
/status
RequestTelemetry
PageViewTelemetry
ITelemetryProcessor
ITelemetryInitializer

Answer Area

```
public class Filter : ITelemetryProcessor
{
    private readonly ITelemetryProcessor _next;
    public (Filter ITelemetryProcessor next)
    {
        _next = next;
    }
    public void Process(ITelemetry item)
    {
        var x = item as RequestTelemetry;
        if (x?.Url.AbsolutePath == "/health")
        {
            return;
        }
        _next.Process(item);
    }
}
```

Scenario: Exclude non-user actions from Application Insights telemetry.

Box 1: ITelemetryProcessor -

To create a filter, implement ITelemetryProcessor. This technique gives you more direct control over what is included or excluded from the telemetry stream.

Box 2: ITelemetryProcessor -

Box 3: ITelemetryProcessor -

Box 4: RequestTelemetry -

Box 5: /health -

To filter out an item, just terminate the chain.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/api-filtering-sampling>

by  Saterial at April 11, 2021, 1:06 a.m.

EXAM AZ-204 TOPIC 19 QUESTION 4 DISCUSSION

DRAG DROP -

You need to ensure that PolicyLib requirements are met.

How should you complete the code segment? To answer, drag the appropriate code segments to the correct locations. Each code segment 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:

Code segments

Process
Initialize
telemetry.Sequence
ITelemetryProcessor
ITelemetryInitializer
telemetry.Context
EventGridController.EventId.Value
((EventTelemetry)telemetry).Properties["EventId"]

Answer Area

```
public class IncludeEventId : ITelemetryInitializer
{
    public void Initialize(ITelemetry telemetry)
    {
        telemetry.Context.Properties["EventId"] =
            ((EventTelemetry)telemetry).Properties["EventId"];
    }
}
```

Suggested Answer:

Code segments

Process
Initialize
telemetry.Sequence
ITelemetryProcessor
ITelemetryInitializer
telemetry.Context
EventGridController.EventId.Value
((EventTelemetry)telemetry).Properties["EventId"]

Answer Area

```
public class IncludeEventId : ITelemetryInitializer
{
    public void Initialize(ITelemetry telemetry)
    {
        telemetry.Context.Properties["EventId"] =
            ((EventTelemetry)telemetry).Properties["EventId"];
    }
}
```

Scenario: You have a shared library named PolicyLib that contains functionality common to all ASP.NET Core web services and applications.

The PolicyLib library must:

- ☞ Exclude non-user actions from Application Insights telemetry.
- ☞ Provide methods that allow a web service to scale itself.
- ☞ Ensure that scaling actions do not disrupt application usage.

Box 1: ITelemetryInitializer -

Use telemetry initializers to define global properties that are sent with all telemetry; and to override selected behavior of the standard telemetry modules.

Box 2: Initialize -

Box 3: Telemetry.Context -

Box 4: ((EventTelemetry)telemetry).Properties["EventID"]

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/api-filtering-sampling>

by  Kuna_Lambo at March 13, 2021, 12:03 p.m.

EXAM AZ-204 TOPIC 2 QUESTION 1 DISCUSSION

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	<input type="button" value="▼"/> <table border="1"><tr><td>2</td></tr><tr><td>4</td></tr><tr><td>8</td></tr><tr><td>16</td></tr></table>	2	4	8	16
2					
4					
8					
16					
Pricing tier	<input type="button" value="▼"/> <table border="1"><tr><td>Isolated</td></tr><tr><td>Standard</td></tr><tr><td>Premium</td></tr><tr><td>Consumption</td></tr></table>	Isolated	Standard	Premium	Consumption
Isolated					
Standard					
Premium					
Consumption					

Answer Area

App service plan setting	Value				
Number of VM instances	<input type="button" value="▼"/> <table border="1"><tr><td>2</td></tr><tr><td>4</td></tr><tr><td>8</td></tr><tr><td>16</td></tr></table>	2	4	8	16
2					
4					
8					
16					
Suggested Answer:	<table border="1"><tr><td>Isolated</td></tr><tr><td>Standard</td></tr><tr><td>Premium</td></tr><tr><td>Consumption</td></tr></table>	Isolated	Standard	Premium	Consumption
Isolated					
Standard					
Premium					
Consumption					
Pricing tier	<input type="button" value="▼"/> <table border="1"><tr><td>Isolated</td></tr><tr><td>Standard</td></tr><tr><td>Premium</td></tr><tr><td>Consumption</td></tr></table>	Isolated	Standard	Premium	Consumption
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/>

by  profesorklaus at Nov. 21, 2020, 10:09 p.m.

 EXAM AZ-204 TOPIC 2 QUESTION 10 DISCUSSION

DRAG DROP -

You are developing a Docker/Go using Azure App Service Web App for Containers. You plan to run the container in an App Service on Linux.

You identify a

Docker container image to use.

None of your current resource groups reside in a location that supports Linux. You must minimize the number of resource groups required.

You need to create the application and perform an initial deployment.

Which three Azure CLI commands should you use to develop the solution? To answer, move the appropriate commands from the list of commands to the answer area and arrange them in the correct order.

Select and Place:

Azure CLI Commands

Answer Area

az group create

az group update

az webapp update

az webapp create

az appservice plan create



Azure CLI Commands

Answer Area

az group create

az group update

Suggested Answer: az webapp update

az webapp create

az appservice plan create



You can host native Linux applications in the cloud by using Azure Web Apps. To create a Web App for Containers, you must run Azure CLI commands that create a group, then a service plan, and finally the web app itself.

Step 1: az group create -

In the Cloud Shell, create a resource group with the az group create command.

Step 2: az appservice plan create

In the Cloud Shell, create an App Service plan in the resource group with the az appservice plan create command.

Step 3: az webapp create -

In the Cloud Shell, create a web app in the myAppServicePlan App Service plan with the az webapp create command. Don't forget to replace <name> with a unique app name, and <docker-ID> with your Docker ID.

Reference:

<https://docs.microsoft.com/mt-mt/azure/app-service/containers/quickstart-docker-go?view=sql-server-ver15>

EXAM AZ-204 TOPIC 2 QUESTION 11 DISCUSSION

DRAG DROP -

Fourth Coffee has an ASP.NET Core web app that runs in Docker. The app is mapped to the www.fourthcoffee.com domain.

Fourth Coffee is migrating this application to Azure.

You need to provision an App Service Web App to host this docker image and map the custom domain to the App Service web app.

A resource group named FourthCoffeePublicWebResourceGroup has been created in the WestUS region that contains an App Service Plan named

AppServiceLinuxDockerPlan.

Which order should the CLI commands be used to develop the solution? To answer, move all of the Azure CLI commands from the list of commands to the answer area and arrange them in the correct order.

Select and Place:

Azure CLI Commands

```
az webapp config container set  
--docker-custom-image-name  
$dockerHubContainerPath  
--name $appName  
--resource-group  
fourthCoffeePublicWebResourceGroup
```

```
az webapp config hostname add  
--webapp-name $appName  
--resource-group  
fourthCoffeePublicWebResourceGroup \  
--hostname $fqdn
```

```
az webapp create  
--name $appName  
--plan AppServiceLinuxDockerPlan  
--resource-group  
fourthCoffeePublicWebResourceGroup
```

```
#!/bin/bash  
appName="FourthCoffeePublicWeb$random"  
location="WestUS"  
dockerHubContainerPath="FourthCoffee/publicweb:v1"  
fqdn="http://www.fourthcoffee.com">www.fourthcoffee.com
```

Answer Area



Suggested Answer:

Azure CLI Commands

```
az webapp config container set  
--docker-custom-image-name  
$dockerHubContainerPath  
--name $appName  
--resource-group  
fourthCoffeePublicWebResourceGroup
```

```
az webapp config hostname add  
--webapp-name $appName  
--resource-group  
fourthCoffeePublicWebResourceGroup \  
--hostname $fqdn
```

```
az webapp create  
--name $appName  
--plan AppServiceLinuxDockerPlan  
--resource-group  
fourthCoffeePublicWebResourceGroup
```

```
#/bin/bash  
appName="FourthCoffeePublicWeb$random"  
location="WestUS"  
dockerHubContainerPath="FourthCoffee/publicweb:v1"  
fqdn="http://www.fourthcoffee.com">www.fourthcoffee.com
```

Answer Area

```
#/bin/bash  
appName="FourthCoffeePublicWeb$random"  
location="WestUS"  
dockerHubContainerPath="FourthCoffee/publicweb:v1"  
fqdn="http://www.fourthcoffee.com">www.fourthcoffee.com
```



```
az webapp create  
--name $appName  
--plan AppServiceLinuxDockerPlan  
--resource-group  
fourthCoffeePublicWebResourceGroup
```



```
az webapp config container set  
--docker-custom-image-name  
$dockerHubContainerPath  
--name $appName  
--resource-group  
fourthCoffeePublicWebResourceGroup
```

```
az webapp config hostname add  
--webapp-name $appName  
--resource-group  
fourthCoffeePublicWebResourceGroup \  
--hostname $fqdn
```

Step 1: #bin/bash -

The appName is used when the webapp-name is created in step 2.

Step 2: az webapp create -

Create a web app. In the Cloud Shell, create a web app in the myAppServicePlan App Service plan with the az webapp create command.

Step 3: az webapp config container set

In Create a web app, you specified an image on Docker Hub in the az webapp create command. This is good enough for a public image. To use a private image, you need to configure your Docker account ID and password in your Azure web app.

Step 4: az webapp config hostname add

The webapp-name is used when the webapp is created in step 2.

In the Cloud Shell, follow the az webapp create command with az webapp config container set.

Reference:

<https://docs.microsoft.com/en-us/azure/app-service/containers/tutorial-custom-docker-image> <https://docs.microsoft.com/en-us/azure/app-service/tutorial-custom-container?pivots=container-linux> <https://docs.microsoft.com/en-us/azure/app-service/scripts/cli-configure-custom-domain>

by GMartinez at May 19, 2022, 8:55 a.m.

EXAM AZ-204 TOPIC 2 QUESTION 12 DISCUSSION

DRAG DROP -

You are developing a serverless Java application on Azure. You create a new Azure Key Vault to work with secrets from a new Azure Functions application.

The application must meet the following requirements:

- Reference the Azure Key Vault without requiring any changes to the Java code.
- Dynamically add and remove instances of the Azure Functions host based on the number of incoming application events.
- Ensure that instances are perpetually warm to avoid any cold starts.
- Connect to a VNet.
- Authentication to the Azure Key Vault instance must be removed if the Azure Function application is deleted.

You need to grant the Azure Functions application access to the Azure Key Vault.

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	Answer Area
Create a user-assigned managed identity for the application.	
Create the Azure Functions app with a Premium plan type.	
Create an access policy in Azure Key Vault for the application identity.	>
Create an SSL certification in Azure Key Vault for the application identity.	<
Create the Azure Functions app with an App Service plan type.	
Create the Azure Functions app with a Consumption plan type.	
Create a system-assigned managed identity for the application.	

Actions	Answer Area
Create a user-assigned managed identity for the application.	Create the Azure Functions app with a Consumption plan type.
Create the Azure Functions app with a Premium plan type.	Create a user-assigned managed identity for the application.
Create an access policy in Azure Key Vault for the application identity.	Create an access policy in Azure Key Vault for the application identity.
Suggested Answer: Create an SSL certification in Azure Key Vault for the application identity.	<
Create the Azure Functions app with an App Service plan type.	<
Create the Azure Functions app with a Consumption plan type.	<
Create a system-assigned managed identity for the application.	<

Step 1: Create the Azure Functions app with a Consumption plan type.

Use the Consumption plan for serverless.

Step 2: Create a system-assigned managed identity for the application.

Create a system-assigned managed identity for your application.

Key Vault references currently only support system-assigned managed identities. User-assigned identities cannot be used.

Step 3: Create an access policy in Key Vault for the application identity.

Create an access policy in Key Vault for the application identity you created earlier. Enable the "Get" secret permission on this policy. Do not configure the

"authorized application" or applicationId settings, as this is not compatible with a managed identity.

Reference:

<https://docs.microsoft.com/en-us/azure/app-service/app-service-key-vault-references>

by  GMartinez at May 19, 2022, 9:06 a.m.

 EXAM AZ-204 TOPIC 2 QUESTION 13 DISCUSSION

You develop a website. You plan to host the website in Azure. You expect the website to experience high traffic volumes after it is published.

You must ensure that the website remains available and responsive while minimizing cost.

You need to deploy the website.

What should you do?

- A. Deploy the website to a virtual machine. Configure the virtual machine to automatically scale when the CPU load is high.
- B. Deploy the website to an App Service that uses the Shared service tier. Configure the App Service plan to automatically scale when the CPU load is high.
- C. Deploy the website to a virtual machine. Configure a Scale Set to increase the virtual machine instance count when the CPU load is high.
- D. Deploy the website to an App Service that uses the Standard service tier. Configure the App Service plan to automatically scale when the CPU load is high.

Suggested Answer: D

Community vote distribution

D (100%)

by  27close at Nov. 14, 2020, 4:33 p.m.

EXAM AZ-204 TOPIC 2 QUESTION 14 DISCUSSION

HOTSPOT -

A company is developing a Java web app. The web app code is hosted in a GitHub repository located at <https://github.com/Contoso/webapp>. The web app must be evaluated before it is moved to production. You must deploy the initial code release to a deployment slot named staging.

You need to create the web app and deploy the code.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
gitrepo=https://github.com/Contoso/webapp
webappname=businesswebapp
resourcegroupname=BusinessAppResourceGroup
az group create --location centralus --name $resourcegroupname
az webapp create --name $webappname --resource-group $resourcegroupname --sku S3
az webapp create --name $webappname --resource-group $resourcegroupname --plan $webappname
az webapp create --name $webappname --resource-group $resourcegroupname --slot staging
az webapp config --name $webappname --resource-group $resourcegroupname \
--slot staging --repo-url $gitrepo --branch master --manual-integration
```

Suggested Answer:**Answer Area**

```
gitrepo=https://github.com/Contoso/webapp
webappname=businesswebapp
resourcegroupname=BusinessAppResourceGroup

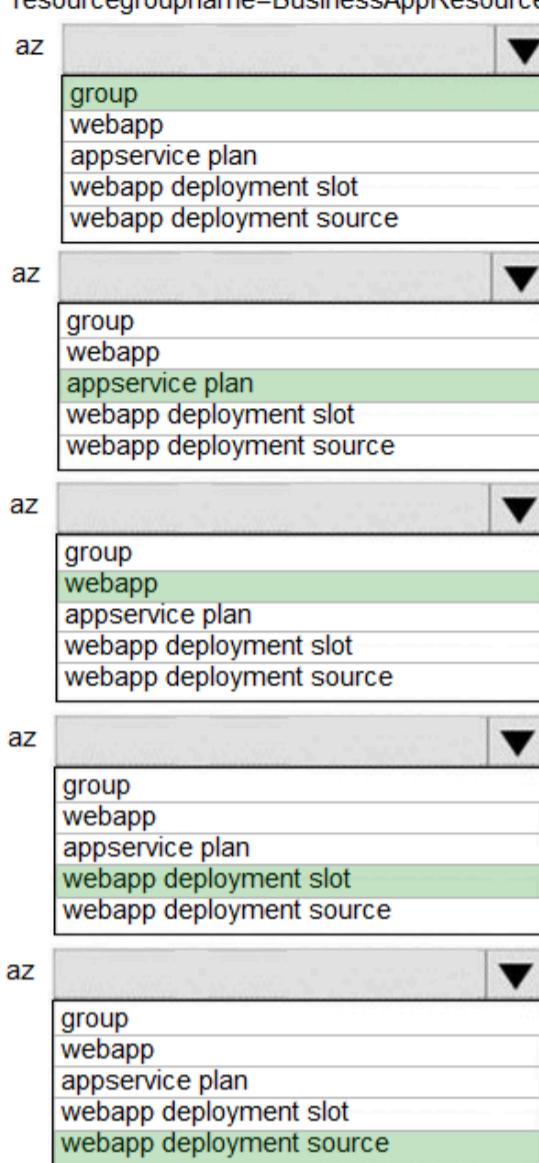
az group create --location centralus --name $resourcegroupname

az webapp create --name $webappname --resource-group $resourcegroupname --sku S3

az appservice plan create --name $webappname --resource-group $resourcegroupname --plan $webappname

az webapp deployment slot create --name $webappname --resource-group $resourcegroupname --slot staging

az webapp deployment source config --name $webappname --resource-group $resourcegroupname \
--slot staging --repo-url $gitrepo --branch master --manual-integration
```



Box 1: group -

Create a resource group.

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

Box 2: appservice plan -

```
# Create an App Service plan in STANDARD tier (minimum required by deployment slots). az appservice plan create --name $webappname --resource-group myResourceGroup --sku S1
```

Box 3: webapp -

Create a web app.

```
az webapp create --name $webappname --resource-group myResourceGroup \
--plan $webappname
```

Box 4: webapp deployment slot -

#Create a deployment slot with the name "staging".

```
az webapp deployment slot create --name $webappname --resource-group myResourceGroup \
--slot staging
```

Box 5: webapp deployment source -

Deploy sample code to "staging" slot from GitHub.

```
az webapp deployment source config --name $webappname --resource-group myResourceGroup \
--slot staging --repo-url $gitrepo --branch master --manual-integration
```

Reference:

<https://docs.microsoft.com/en-us/azure/app-service/scripts/cli-deploy-staging-environment>

EXAM AZ-204 TOPIC 2 QUESTION 15 DISCUSSION

HOTSPOT -

You have a web service that is used to pay for food deliveries. The web service uses Azure Cosmos DB as the data store.

You plan to add a new feature that allows users to set a tip amount. The new feature requires that a property named tip on the document in Cosmos DB must be present and contain a numeric value.

There are many existing websites and mobile apps that use the web service that will not be updated to set the tip property for some time.

How should you complete the trigger?

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
function ensureTip() {
    var r = 
        .value();
        .readDocument('item');
        getContext().getRequest();
        getContext().getResponse();

    var i = r.getBody();

    if (!("tip" in i)) {
        if (request.getValue("tip") === null) {
            if (isNaN(i["tip"]) || i["tip"] === null) {
                if (typeof __.pluck("tip") === 'number') {
                    i["tip"] = 0;
                }
            }
        }
        r.setBody(i);
        r.setValue(i);
        __.upsertDocument(i);
        __.replaceDocument(i);
    }
}
```

Answer Area

```
function ensureTip() {
    var r = 
        __.value();
        __.readDocument('item');
        getContext().getRequest();
        getContext().getResponse();
```

```
    var i = r.getBody();
```

Suggested Answer:

```
if (!("tip" in i)) {
    if (request.getValue("tip") == null) {
        if (isNaN(i["tip"]) || i["tip"] == null) {
```

```
            i["tip"] = 0;
        }
```

```
r.setBody(i);
r.setValue(i);
__.upsertDocument(i);
__.replaceDocument(i);
```

```
}
```

by  [lukasstart09](#) at Nov. 4, 2020, 10:16 a.m.

EXAM AZ-204 TOPIC 2 QUESTION 16 DISCUSSION

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 develop an HTTP triggered Azure Function app to process Azure Storage blob data. The app is triggered using an output binding on the blob.

The app continues to time out after four minutes. The app must process the blob data.

You need to ensure the app does not time out and processes the blob data.

Solution: Use the Durable Function async pattern to process the blob data.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: A

Community vote distribution

A (86%) 14%

by  Awry at Nov. 2, 2020, 12:32 a.m.

EXAM AZ-204 TOPIC 2 QUESTION 17 DISCUSSION

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 develop an HTTP triggered Azure Function app to process Azure Storage blob data. The app is triggered using an output binding on the blob.

The app continues to time out after four minutes. The app must process the blob data.

You need to ensure the app does not time out and processes the blob data.

Solution: Pass the HTTP trigger payload into an Azure Service Bus queue to be processed by a queue trigger function and return an immediate HTTP success response.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: A

Community vote distribution

A (63%)

B (37%)

by  msdevanms at Nov. 14, 2020, 11:35 a.m.

EXAM AZ-204 TOPIC 2 QUESTION 18 DISCUSSION

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 develop an HTTP triggered Azure Function app to process Azure Storage blob data. The app is triggered using an output binding on the blob.

The app continues to time out after four minutes. The app must process the blob data.

You need to ensure the app does not time out and processes the blob data.

Solution: Configure the app to use an App Service hosting plan and enable the Always On setting.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (83%)

A (17%)

by  [Cornholioz](#) at Nov. 27, 2020, 4:06 a.m.

EXAM AZ-204 TOPIC 2 QUESTION 19 DISCUSSION

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 develop a software as a service (SaaS) offering to manage photographs. Users upload photos to a web service which then stores the photos in Azure

Storage Blob storage. The storage account type is General-purpose V2.

When photos are uploaded, they must be processed to produce and save a mobile-friendly version of the image. The process to produce a mobile-friendly version of the image must start in less than one minute.

You need to design the process that starts the photo processing.

Solution: Move photo processing to an Azure Function triggered from the blob upload.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (54%)

A (46%)

by  [AnkanG](#) at July 26, 2020, 6:10 p.m.

EXAM AZ-204 TOPIC 2 QUESTION 2 DISCUSSION

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	Polling interval	
ScaledObject	Azure Storage connection string	
TriggerAuthentication		

Suggested Answer:

Answer Area

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

by  Leandromellor at Nov. 6, 2020, 11:08 a.m.

 EXAM AZ-204 TOPIC 2 QUESTION 20 DISCUSSION

You are developing an application that uses Azure Blob storage.

The application must read the transaction logs of all the changes that occur to the blobs and the blob metadata in the storage account for auditing purposes. The changes must be in the order in which they occurred, include only create, update, delete, and copy operations and be retained for compliance reasons.

You need to process the transaction logs asynchronously.

What should you do?

- A. Process all Azure Blob storage events by using Azure Event Grid with a subscriber Azure Function app.
- B. Enable the change feed on the storage account and process all changes for available events.
- C. Process all Azure Storage Analytics logs for successful blob events.
- D. Use the Azure Monitor HTTP Data Collector API and scan the request body for successful blob events.

Suggested Answer: B

Community vote distribution

B (100%)

by  Ummara at July 28, 2020, 10:38 a.m.

EXAM AZ-204 TOPIC 2 QUESTION 21 DISCUSSION

DRAG DROP -

You plan to create a Docker image that runs an ASP.NET Core application named ContosoApp. You have a setup script named setupScript.ps1 and a series of application files including ContosoApp.dll.

You need to create a Dockerfile document that meets the following requirements:

- Call setupScripts.ps1 when the container is built.
- Run ContosoApp.dll when the container starts.

The Dockerfile document must be created in the same folder where ContosoApp.dll and setupScript.ps1 are stored.

Which five commands should you use to develop the solution? To answer, move the appropriate commands from the list of commands to the answer area and arrange them in the correct order.

Select and Place:

Commands

```
FROM microsoft/aspnetcore:latest  
WORKDIR /apps/ContosoApp  
CMD ["dotnet", "ContosoApp.dll"]  
COPY ./ .  
RUN powershell ./setupScript.ps1
```

Answer Area

Answer Area

```
CMD ["dotnet", "ContosoApp.dll"]  
FROM microsoft/aspnetcore:latest  
WORKDIR /apps/ContosoApp  
COPY ./ .  
RUN powershell ./setupScript.ps1
```

Suggested Answer:

Commands

```
FROM microsoft/aspnetcore:latest  
WORKDIR /apps/ContosoApp  
CMD ["dotnet", "ContosoApp.dll"]  
COPY ./ .  
RUN powershell ./setupScript.ps1
```

Box 1: CMD [..]

Cmd starts a new instance of the command interpreter, Cmd.exe.

Syntax: CMD <string>

Specifies the command you want to carry out.

Box 2: FROM microsoft/aspnetcore-build:latest

Box 3: WORKDIR /apps/ContosoApp -

Bxo 4: COPY ./ .

Box 5: RUN powershell ./setupScript.ps1

by  agueda at March 13, 2021, 1:02 a.m.

 EXAM AZ-204 TOPIC 2 QUESTION 22 DISCUSSION

You are developing an Azure Function App that processes images that are uploaded to an Azure Blob container. Images must be processed as quickly as possible after they are uploaded, and the solution must minimize latency. You create code to process images when the Function App is triggered. You need to configure the Function App. What should you do?

- A. Use an App Service plan. Configure the Function App to use an Azure Blob Storage input trigger.
- B. Use a Consumption plan. Configure the Function App to use an Azure Blob Storage trigger.
- C. Use a Consumption plan. Configure the Function App to use a Timer trigger.
- D. Use an App Service plan. Configure the Function App to use an Azure Blob Storage trigger.
- E. Use a Consumption plan. Configure the Function App to use an Azure Blob Storage input trigger.

Suggested Answer: D

Community vote distribution

D (92%) 8%

by  pac1311 at Feb. 8, 2021, 3:30 p.m.

EXAM AZ-204 TOPIC 2 QUESTION 23 DISCUSSION

HOTSPOT -

You are configuring a new development environment for a Java application.

The environment requires a Virtual Machine Scale Set (VMSS), several storage accounts, and networking components.

The VMSS must not be created until the storage accounts have been successfully created and an associated load balancer and virtual network is configured.

How should you complete the Azure Resource Manager template? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
{  
    . . .  
    "resources": [  
        {  
            "apiVersion": "2016-01-01",  
            "type": "Microsoft.Storage/storageAccounts",  
            "name": "[concat(  
                . . .  
                (), 'storage', uniqueString(resourceGroup().id))]",  
                . . .  
                copy  
                copyIndex  
                priority  
                dependsOn  
            "location": "[resourceGroup().location]",  
            . . .  
            "sku": {  
                "name": "Standard_LRS"  
            },  
            "kind": "Storage",  
            "properties": {},  
            "copy": {  
                . . .  
                copy  
                copyIndex  
                priority  
                dependsOn  
            }  
            "name": "storagesetup",  
            "count": 3  
        }  
    ],  
    {  
        "apiVersion": "2015-06-15",  
        "type": "Microsoft.Compute/virtualMachines",  
        "name": "[concat('VM', uniqueString(resourceGroup().id))]",  
        "dependsOn": [  
            . . .  
            copy  
            copyIndex  
            priority  
            dependsOn  
        ]  
        "[variables('loadBalancerName')]",  
        "[variables('virtualNetworkName')]",  
        "storagesetup",  
        ],  
        . . .  
    }  
],  
"outputs": {}  
}
```

Suggested Answer:**Answer Area**

```
{  
  . . .  
  "resources": [  
    {  
      "apiVersion": "2016-01-01",  
      "type": "Microsoft.Storage/storageAccounts",  
      "name": "[concat( (), 'storage', uniqueString(resourceGroup().id))]",  
      "copy": [ copy, copyIndex, priority, dependsOn ]  
      "location": "[resourceGroup().location]",  
      . . .  
      "sku": {  
        "name": "Standard_LRS"  
      },  
      "kind": "Storage",  
      "properties": {},  
      "copy": [ copy, copyIndex, priority, dependsOn ]  
      "name": "storagesetup",  
      "count": 3  
    }  
  ],  
  {  
    "apiVersion": "2015-06-15",  
    "type": "Microsoft.Compute/virtualMachines",  
    "name": "[concat('VM', uniqueString(resourceGroup().id))]",  
    "copy": [ copy, copyIndex, priority, dependsOn ]  
    "[variables('loadBalancerName')]",  
    "[variables('virtualNetworkName')]",  
    "storagesetup",  
    ],  
    . . .  
  }  
],  
"outputs": {}  
}
```

Box 1: copyIndex -

Notice that the name of each resource includes the copyIndex() function, which returns the current iteration in the loop. copyIndex() is zero-based.

Box 2: copy -

By adding the copy element to the resources section of your template, you can dynamically set the number of resources to deploy.

Box 3: dependsOn -

Example:

```
"type": "Microsoft.Compute/virtualMachineScaleSets",  
"apiVersion": "2020-06-01",  
"name": "[variables('namingInfix')]",  
"location": "[parameters('location')]",  
"sku": {  
  "name": "[parameters('vmSku')]",  
  "tier": "Standard",  
  "capacity": "[parameters('instanceCount')]"  
},  
"dependsOn": [  
  "[resourceld('Microsoft.Network/loadBalancers', variables('loadBalancerName'))]",
```

"[resourceId('Microsoft.Network/virtualNetworks', variables('virtualNetworkName'))]"

],

Reference:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/copy-resources> <https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/quick-create-template-windows>

by  [cloudlabadm](#) at *March 12, 2021, 9 a.m.*

EXAM AZ-204 TOPIC 2 QUESTION 24 DISCUSSION

HOTSPOT -

You are developing an Azure Function App by using Visual Studio. The app will process orders input by an Azure Web App. The web app places the order information into Azure Queue Storage.

You need to review the Azure Function App code shown below.

```
public static class OrderProcessor
{
    [FunctionName("ProcessOrders")]
    public static void ProcessOrders([QueueTrigger("incoming-orders")]CloudQueueMessage myQueueItem, [Table("Orders")]ICollector<Order> tableBindings, TraceWriter log)
    {
        log.Info($"Processing Order: {myQueueItem.Id}");
        log.Info($"Queue Insertion Time: {myQueueItem.InsertionTime}");
        log.Info($"Queue Expiration Time: {myQueueItem.ExpirationTime}");
        tableBindings.Add(JsonConvert.DeserializeObject<Order>(myQueueItem.AsString));
    }
    [FunctionName("ProcessOrders-Poison")]
    public static void ProcessFailedOrders([QueueTrigger("incoming-orders-poison")]CloudQueueMessage myQueueItem, TraceWriter log)
    {
        log.Error($"Failed to process order: {myQueueItem.AsString}");
        ...
    }
}
```

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Yes No

The code will log the time that the order was processed from the queue.

When the ProcessOrders function fails, the function will retry up to five times for a given order, including the first try.

When there are multiple orders in the queue, a batch of orders will be retrieved from the queue and the ProcessOrders function will run multiple instances concurrently to process the orders.

The ProcessOrders function will output the order to an Orders table in Azure Table Storage.

Suggested Answer:

Answer Area

Yes No

The code will log the time that the order was processed from the queue.

When the ProcessOrders function fails, the function will retry up to five times for a given order, including the first try.

When there are multiple orders in the queue, a batch of orders will be retrieved from the queue and the ProcessOrders function will run multiple instances concurrently to process the orders.

The ProcessOrders function will output the order to an Orders table in Azure Table Storage.

Box 1: No -

ExpirationTime - The time that the message expires.

InsertionTime - The time that the message was added to the queue.

Box 2: Yes -

maxDequeueCount - The number of times to try processing a message before moving it to the poison queue. Default value is 5.

Box 3: Yes -

When there are multiple queue messages waiting, the queue trigger retrieves a batch of messages and invokes function instances

concurrently to process them.

By default, the batch size is 16. When the number being processed gets down to 8, the runtime gets another batch and starts processing those messages. So the maximum number of concurrent messages being processed per function on one virtual machine (VM) is 24.

Box 4: Yes -

Reference:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-bindings-storage-queue>

by  Kuna_Lambo at March 11, 2021, 8:16 p.m.

 EXAM AZ-204 TOPIC 2 QUESTION 25 DISCUSSION

DRAG DROP -

You are developing a solution for a hospital to support the following use cases:

- ⇒ The most recent patient status details must be retrieved even if multiple users in different locations have updated the patient record.
- ⇒ Patient health monitoring data retrieved must be the current version or the prior version.
- ⇒ After a patient is discharged and all charges have been assessed, the patient billing record contains the final charges.

You provision a Cosmos DB NoSQL database and set the default consistency level for the database account to Strong. You set the value for Indexing Mode to

Consistent.

You need to minimize latency and any impact to the availability of the solution. You must override the default consistency level at the query level to meet the required consistency guarantees for the scenarios.

Which consistency levels should you implement? To answer, drag the appropriate consistency levels to the correct requirements. Each consistency level 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:

Consistency levels		Answer Area
Strong	Bounded Staleness	Return the most recent patient status.
Consistent Prefix	Eventual	Return health monitoring data that is no less than one version behind.
		After patient is discharged and all charges are assessed, retrieve the correct billing data with the final charges.

Suggested Answer:

Consistency levels		Answer Area
Strong	Bounded Staleness	Return the most recent patient status.
Consistent Prefix	Eventual	Return health monitoring data that is no less than one version behind.
		After patient is discharged and all charges are assessed, retrieve the correct billing data with the final charges.

Box 1: Strong -

Strong: Strong consistency offers a linearizability guarantee. The reads are guaranteed to return the most recent committed version of an item. A client never sees an uncommitted or partial write. Users are always guaranteed to read the latest committed write.

Box 2: Bounded staleness -

Bounded staleness: The reads are guaranteed to honor the consistent-prefix guarantee. The reads might lag behind writes by at most "K" versions (that is

"updates") of an item or by "t" time interval. When you choose bounded staleness, the "staleness" can be configured in two ways:

The number of versions (K) of the item

The time interval (t) by which the reads might lag behind the writes

Box 3: Eventual -

Eventual: There's no ordering guarantee for reads. In the absence of any further writes, the replicas eventually converge.

Incorrect Answers:

Consistent prefix: Updates that are returned contain some prefix of all the updates, with no gaps. Consistent prefix guarantees that reads never see out-of-order writes.

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/consistency-levels>

 EXAM AZ-204 TOPIC 2 QUESTION 26 DISCUSSION

HOTSPOT -

You are configuring a development environment for your team. You deploy the latest Visual Studio image from the Azure Marketplace to your Azure subscription.

The development environment requires several software development kits (SDKs) and third-party components to support application development across the organization. You install and customize the deployed virtual machine (VM) for your development team. The customized VM must be saved to allow provisioning of a new team member development environment.

You need to save the customized VM for future provisioning.

Which tools or services should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Action	Tool or service
Generalize the VM.	Azure PowerShell Visual Studio command prompt Azure Migrate Azure Backup
Store images.	Azure Blob Storage Azure Data Lake Storage Azure File Storage Azure Table Storage

Suggested Answer:

Answer Area

Action	Tool or service
Generalize the VM.	Azure PowerShell Visual Studio command prompt Azure Migrate Azure Backup
Store images.	Azure Blob Storage Azure Data Lake Storage Azure File Storage Azure Table Storage

Box 1: Azure Powershell -

Creating an image directly from the VM ensures that the image includes all of the disks associated with the VM, including the OS disk and any data disks.

Before you begin, make sure that you have the latest version of the Azure PowerShell module.

You use Sysprep to generalize the virtual machine, then use Azure PowerShell to create the image.

Box 2: Azure Blob Storage -

You can store images in Azure Blob Storage.

Reference:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/capture-image-resource#create-an-image-of-a-vm-using-powershell>

 EXAM AZ-204 TOPIC 2 QUESTION 27 DISCUSSION

You are preparing to deploy a website to an Azure Web App from a GitHub repository. The website includes static content generated by a script.

You plan to use the Azure Web App continuous deployment feature.

You need to run the static generation script before the website starts serving traffic.

What are two possible ways to achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Add the path to the static content generation tool to WEBSITE_RUN_FROM_PACKAGE setting in the host.json file.
- B. Add a PreBuild target in the websites csproj project file that runs the static content generation script.
- C. Create a file named run.cmd in the folder /run that calls a script which generates the static content and deploys the website.
- D. Create a file named .deployment in the root of the repository that calls a script which generates the static content and deploys the website.

Suggested Answer: BD

Community vote distribution

BD (86%)	9%
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by  [rolandcha](#) at Feb. 5, 2021, 4:31 p.m.

EXAM AZ-204 TOPIC 2 QUESTION 28 DISCUSSION

DRAG DROP -

You are developing an application to use Azure Blob storage. You have configured Azure Blob storage to include change feeds.

A copy of your storage account must be created in another region. Data must be copied from the current storage account to the new storage account directly between the storage servers.

You need to create a copy of the storage account in another region and copy the data.

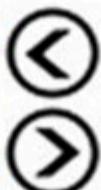
In which order should you perform the actions? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Actions

Answer Area

Use AZCopy to copy the data to the new storage account.



Deploy the template to create a new storage account in the target region.

Export a Resource Manager template.

Create a new template deployment.

Modify the template by changing the storage account name and region.



Suggested Answer:

Actions

Answer Area

Use AZCopy to copy the data to the new storage account.

Create a new template deployment.

Deploy the template to create a new storage account in the target region.

Export a Resource Manager template.

Export a Resource Manager template.

Modify the template by changing the storage account name and region.

Create a new template deployment.

Deploy the template to create a new storage account in the target region.

Modify the template by changing the storage account name and region.

Use AZCopy to copy the data to the new storage account.

To move a storage account, create a copy of your storage account in another region. Then, move your data to that account by using AzCopy, or another tool of your choice.

The steps are:

- ⇒ Export a template.
- ⇒ Modify the template by adding the target region and storage account name.
- ⇒ Deploy the template to create the new storage account.
- ⇒ Configure the new storage account.
- ⇒ Move data to the new storage account.
- ⇒ Delete the resources in the source region.

Note: You must enable the change feed on your storage account to begin capturing and recording changes. You can enable and disable changes by using Azure

Resource Manager templates on Portal or Powershell.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-account-move> <https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-change-feed>

by  dineshkm06tnj at Nov. 7, 2020, 9:59 p.m.

EXAM AZ-204 TOPIC 2 QUESTION 29 DISCUSSION

DRAG DROP -

You are preparing to deploy an Azure virtual machine (VM)-based application.

The VMs that run the application have the following requirements:

When a VM is provisioned the firewall must be automatically configured before it can access Azure resources.

Supporting services must be installed by using an Azure PowerShell script that is stored in Azure Storage.

You need to ensure that the requirements are met.

Which features should you use? To answer, drag the appropriate features to the correct requirements. Each feature 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:

Features	Answer Area
Run Command	Requirement Firewall configuration
Serial console	Requirement Supporting services script
Hybrid Runbook Worker	
Custom Script Extension	

Suggested Answer:

Features	Answer Area
	Requirement Firewall configuration
Serial console	Requirement Supporting services script
Custom Script Extension	

Reference:

<https://docs.microsoft.com/en-us/azure/automation/automation-hybrid-runbook-worker> <https://docs.microsoft.com/en-us/azure/virtual-machines/windows/run-command>

by  agueda at March 13, 2021, 2:05 a.m.

EXAM AZ-204 TOPIC 2 QUESTION 3 DISCUSSION

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
```

Suggested Answer:

Answer Area

```
az group create --location westeurope --name myResourceGroup
az webapp --name $webappname --resource-group myResourceGroup --sku FREE
az appservice plan create
az webapp deployment
az group delete

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>

by  [venki21](#) at Nov. 19, 2020, 3:48 p.m.

EXAM AZ-204 TOPIC 2 QUESTION 30 DISCUSSION

HOTSPOT -

A company is developing a Node.js web app. The web app code is hosted in a GitHub repository located at <https://github.com/TailSpinToys/webapp>.

The web app must be reviewed before it is moved to production. You must deploy the initial code release to a deployment slot named review. You need to create the web app and deploy the code.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
$gitrepo="https://github.com/TailSpinToys/webapp"  
$webappname="TailSpinToysWeb"  
$location="WestUS2"
```

New-AzWebAppSlot
New-AzWebApp
New-AzAppServicePlan
New-AzResourceGroup

-Name myResourceGroup -Location \$location

New-AzWebAppSlot
New-AzWebApp
New-AzAppServicePlan
New-AzResourceGroup

-Name \$webappname -Location \$location -ResourceGroupName myResourceGroup -Tier Standard

New-AzWebAppSlot
New-AzWebApp
New-AzAppServicePlan
New-AzResourceGroup

-Name \$webappname -Location \$location -AppServicePlan \$webappname -ResourceGroupName myResourceGroup

New-AzWebAppSlot
New-AzWebApp
New-AzAppServicePlan
New-AzResourceGroup

-Name \$webappname -ResourceGroupName myResourceGroup -Slot review

New-AzWebAppSlot
New-AzWebApp
New-AzAppServicePlan
New-AzResourceGroup

```
$PropertiesObject = @{repoUrl = "$gitrepo";branch = "master";}  
Set-AzResource -PropertyObject $PropertiesObject -ResourceGroupName myResourceGroup -ResourceType  
Microsoft.Web/sites/slots/sourcecontrols -ResourceName $webappname/review/web -ApiVersion 2015-08-01 -Force  
Switch-AzWebAppSlot -Name $webappname -ResourceGroupName myResourceGroup  
-SourceSlotName review -DestinationSlotName production
```

Suggested Answer:

Answer Area

```
$gitrepo="https://github.com/TailSpinToys/webapp"  
$webappname="TailSpinToysWeb"  
$location="WestUS2"
```

New-AzWebAppSlot
New-AzWebApp
New-AzAppServicePlan
New-AzResourceGroup

-Name myResourceGroup -Location \$location

New-AzWebAppSlot
New-AzWebApp
New-AzAppServicePlan
New-AzResourceGroup

-Name \$webappname -Location \$location -ResourceGroupName myResourceGroup -Tier Standard

New-AzWebAppSlot
New-AzWebApp
New-AzAppServicePlan
New-AzResourceGroup

-Name \$webappname -Location \$location -AppServicePlan \$webappname -ResourceGroupName myResourceGroup

New-AzWebAppSlot
New-AzWebApp
New-AzAppServicePlan
New-AzResourceGroup

-Name \$webappname -ResourceGroupName myResourceGroup -Slot review

New-AzWebAppSlot
New-AzWebApp
New-AzAppServicePlan
New-AzResourceGroup

```
$PropertiesObject = @{repoUrl = "$gitrepo";branch = "master";}  
Set-AzResource -PropertyObject $PropertiesObject -ResourceGroupName myResourceGroup -ResourceType  
Microsoft.Web/sites/slots/sourcecontrols -ResourceName $webappname/review/web -ApiVersion 2015-08-01 -Force  
Switch-AzWebAppSlot -Name $webappname -ResourceGroupName myResourceGroup  
-SourceSlotName review -DestinationSlotName production
```

Box 1: New-AzResourceGroup -

The New-AzResourceGroup cmdlet creates an Azure resource group.

Box 2: New-AzAppServicePlan -

The New-AzAppServicePlan cmdlet creates an Azure App Service plan in a given location

Box 3: New-AzWebApp -

The New-AzWebApp cmdlet creates an Azure Web App in a given a resource group

Box 4: New-AzWebAppSlot -

The New-AzWebAppSlot cmdlet creates an Azure Web App slot.

Reference:

<https://docs.microsoft.com/en-us/powershell/module/az.resources/new-azresourcegroup?view=azps-2.3.2> <https://docs.microsoft.com/en-us/powershell/module/az.websites/new-azappserviceplan?view=azps-2.3.2> <https://docs.microsoft.com/en-us/powershell/module/az.websites/new-azwebapp?view=azps-2.3.2> <https://docs.microsoft.com/en-us/powershell/module/az.websites/new-azwebappslot?view=azps-2.3.2>

by  AndresMza at March 11, 2021, 5:59 p.m.

EXAM AZ-204 TOPIC 2 QUESTION 31 DISCUSSION

HOTSPOT -

You are developing an application that needs access to an Azure virtual machine (VM).

The access lifecycle for the application must be associated with the VM service instance.

You need to enable managed identity for the VM.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
$vm = Get-AzVM -ResourceGroupName "ContosoRG" -Name "ContosoVM"
```

```
Update-AzVM -ResourceGroupName "ContosoRG" -VM $vm
```

-AssignIdentity:	▼
-IdentityId:	▼

\$SystemAssigned	▼
\$UserAssigned	▼

Suggested Answer:

Answer Area

```
$vm = Get-AzVM -ResourceGroupName "ContosoRG" -Name "ContosoVM"
```

```
Update-AzVM -ResourceGroupName "ContosoRG" -VM $vm
```

-AssignIdentity:	▼
-IdentityId:	▼

\$SystemAssigned	▼
\$UserAssigned	▼

Box 1: -IdentityType -

Enable system-assigned managed identity on an existing Azure VM:

To enable a system-assigned managed identity, use the -IdentityType switch on the Update-AzVM cmdlet (see below).

Box 2: \$SystemAssigned -

```
$vm = Get-AzVM -ResourceGroupName myResourceGroup -Name myVM
```

```
Update-AzVM -ResourceGroupName myResourceGroup -VM $vm -IdentityType SystemAssigned
```

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/qs-configure-powershell-windows-vm>

by  agueda at March 13, 2021, 2:17 a.m.

EXAM AZ-204 TOPIC 2 QUESTION 32 DISCUSSION

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 develop a software as a service (SaaS) offering to manage photographs. Users upload photos to a web service which then stores the photos in Azure

Storage Blob storage. The storage account type is General-purpose V2.

When photos are uploaded, they must be processed to produce and save a mobile-friendly version of the image. The process to produce a mobile-friendly version of the image must start in less than one minute.

You need to design the process that starts the photo processing.

Solution: Create an Azure Function app that uses the Consumption hosting model and that is triggered from the blob upload.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  AndresMza at March 11, 2021, 6:12 p.m.

EXAM AZ-204 TOPIC 2 QUESTION 33 DISCUSSION

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 develop and deploy an Azure App Service API app to a Windows-hosted deployment slot named Development. You create additional deployment slots named Testing and Production. You enable auto swap on the Production deployment slot.

You need to ensure that scripts run and resources are available before a swap operation occurs.

Solution: Update the app with a method named statuscheck to run the scripts. Update the app settings for the app. Set the WEBSITE_SWAP_WARMUP_PING_PATH and WEBSITE_SWAP_WARMUP_PING_STATUSES with a path to the new method and appropriate response codes.

Does the solution meet the goal?

A. No

B. Yes

Suggested Answer: B

Community vote distribution

B (82%)

A (18%)

by  [Carlous](#) at April 3, 2021, 5:52 p.m.

EXAM AZ-204 TOPIC 2 QUESTION 34 DISCUSSION

HOTSPOT -

You create the following PowerShell script:

```
$source = New-AzScheduledQueryRuleSource -Query 'Heartbeat | where TimeGenerated > ago(1h)' -DataSourceId "contoso"
$schedule = New-AzScheduledQueryRuleSchedule -FrequencyInMinutes 60 -TimeWindowInMinutes 60
$triggerCondition = New-AzScheduledQueryRuleTriggerCondition -ThresholdOperator "LessThan" -Threshold 5
$aznsActionGroup = New-AzScheduledQueryRuleAznsActionGroup -ActionGroup "contoso" -EmailSubject "Custom email subject"
-CustomWebhookPayload "{ \"alert\": \"#alertrulename\", \"IncludeSearchResults\": true }"
$alertingAction = New-AzScheduledQueryRuleAlertingAction -AznsAction $aznsActionGroup -Severity "3" -Trigger $triggerCondition
New-AzScheduledQueryRule -ResourceGroupName "contoso" -Location "eastus" -Action $alertingAction -Enabled $true
-Description "Alert description" -Schedule $schedule -Source $source -Name "Alert Name"
```

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
------------	-----	----

A log alert is created that sends an email when the CPU percentage is above 60 percent for five minutes.

A log alert is created that sends an email when the number of virtual machine heartbeats in the past hour is less than five.

The log alert is scheduled to run every two hours.

Answer Area

Statements	Yes	No
------------	-----	----

Suggested Answer: A log alert is created that sends an email when the CPU percentage is above 60 percent for five minutes.

A log alert is created that sends an email when the number of virtual machine heartbeats in the past hour is less than five.

The log alert is scheduled to run every two hours.

Box 1: No -

The AzScheduledQueryRuleSource is Heartbeat, not CPU.

Box 2: Yes -

The AzScheduledQueryRuleSource is Heartbeat!

Note: New-AzScheduledQueryRuleTriggerCondition creates an object of type Trigger Condition. This object is to be passed to the command that creates Alerting Action object.

Box 3: No -

The schedule is 60 minutes, not two hours.

-FrequencyInMinutes: The alert frequency.

-TimeWindowInMinutes: The alert time window

The New-AzAscheduledQueryRuleSchedule command creates an object of type Schedule. This object is to be passed to the command that

creates Log Alert

Rule.

Reference:

<https://docs.microsoft.com/en-us/powershell/module/az.monitor/new-azscheduledqueryrule> <https://docs.microsoft.com/en-us/powershell/module/az.monitor/new-azscheduledqueryruletriggercondition>

by  [mlantonis](#) at May 31, 2021, 6:42 p.m.

 EXAM AZ-204 TOPIC 2 QUESTION 35 DISCUSSION

DRAG DROP -

You are developing an Azure Function app.

The app must meet the following requirements:

- Enable developers to write the functions by using the Rust language.
- Declaratively connect to an Azure Blob Storage account.

You need to implement the app.

Which Azure Function app features should you use? To answer, drag the appropriate features to the correct requirements. Each feature 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:

Features	Answer Area	
Custom handler		
Extension bundle	Enable developers to write the functions by using the Rust language.	Feature
Trigger	Declaratively connect to an Azure Blob Storage account.	Feature
Runtime		
Policy		
Hosting plan		

Suggested Answer:

Features	Answer Area	
Extension bundle	Enable developers to write the functions by using the Rust language.	Custom handler
Runtime	Declaratively connect to an Azure Blob Storage account.	Trigger
Policy		
Hosting plan		

Box 1: Custom handler -

Custom handlers can be used to create functions in any language or runtime by running an HTTP server process, for example Go or Rust.

Box 2: Trigger -

Functions are invoked by a trigger and can have exactly one. In addition to invoking the function, certain triggers also serve as bindings. You may also define multiple bindings in addition to the trigger. Bindings provide a declarative way to connect data to your code.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-functions/create-first-function-vs-code-other> <https://docs.microsoft.com/en-us/dotnet/architecture/serverless/azure-functions>

EXAM AZ-204 TOPIC 2 QUESTION 36 DISCUSSION

HOTSPOT -

You are developing an ASP.NET Core web application. You plan to deploy the application to Azure Web App for Containers.

The application needs to store runtime diagnostic data that must be persisted across application restarts. You have the following code:

```
public void SaveDiagData(string data)
{
    var path = Environment.GetEnvironmentVariable("DIAGDATA");
    File.WriteAllText(Path.Combine(path, "data"), data);
}
```

You need to configure the application settings so that diagnostic data is stored as required.

How should you configure the web app's settings? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

App setting	Value
LOCALAPPDATA	true
WEBSITE_LOCALCACHE_ENABLED	
DOTNET_HOSTING_OPTIMIZATION_CACHE	
WEBSITES_ENABLE_APP_SERVICE_STORAGE	
DIAGDATA	/home /local D:\home D:\local

Suggested Answer:

Answer Area

App setting	Value
LOCALAPPDATA	true
WEBSITE_LOCALCACHE_ENABLED	
DOTNET_HOSTING_OPTIMIZATION_CACHE	
WEBSITES_ENABLE_APP_SERVICE_STORAGE	
DIAGDATA	/home /local D:\home D:\local

Box 1: If WEBSITES_ENABLE_APP_SERVICE_STORAGE

If WEBSITES_ENABLE_APP_SERVICE_STORAGE setting is unspecified or set to true, the /home/ directory will be shared across scale instances, and files written will persist across restarts

Box 2: /home -

Reference:

<https://docs.microsoft.com/en-us/azure/app-service/containers/app-service-linux-faq>

 EXAM AZ-204 TOPIC 2 QUESTION 37 DISCUSSION

You are developing a web app that is protected by Azure Web Application Firewall (WAF). All traffic to the web app is routed through an Azure Application

Gateway instance that is used by multiple web apps. The web app address is contoso.azurewebsites.net.

All traffic must be secured with SSL. The Azure Application Gateway instance is used by multiple web apps.

You need to configure the Azure Application Gateway for the web app.

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

NOTE: Each correct selection is worth one point.

- A. In the Azure Application Gateway's HTTP setting, enable the Use for App service setting.
- B. Convert the web app to run in an Azure App service environment (ASE).
- C. Add an authentication certificate for contoso.azurewebsites.net to the Azure Application Gateway.
- D. In the Azure Application Gateway's HTTP setting, set the value of the Override backend path option to contoso22.azurewebsites.net.

Suggested Answer: AC

Community vote distribution

AC (62%)

AD (38%)

by  GCMan at Nov. 2, 2020, 9:54 p.m.

EXAM AZ-204 TOPIC 2 QUESTION 38 DISCUSSION

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 develop a software as a service (SaaS) offering to manage photographs. Users upload photos to a web service which then stores the photos in Azure Storage Blob storage. The storage account type is General-purpose V2.

When photos are uploaded, they must be processed to produce and save a mobile-friendly version of the image. The process to produce a mobile-friendly version of the image must start in less than one minute.

You need to design the process that starts the photo processing.

Solution: Use the Azure Blob Storage change feed to trigger photo processing.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  Amit_kk at July 31, 2021, 4:15 p.m.

EXAM AZ-204 TOPIC 2 QUESTION 39 DISCUSSION

You are developing a web application that runs as an Azure Web App. The web application stores data in Azure SQL Database and stores files in an Azure Storage account. The web application makes HTTP requests to external services as part of normal operations. The web application is instrumented with Application Insights. The external services are OpenTelemetry compliant. You need to ensure that the customer ID of the signed in user is associated with all operations throughout the overall system. What should you do?

- A. Add the customer ID for the signed in user to the CorrelationContext in the web application
- B. On the current SpanContext, set the Traceld to the customer ID for the signed in user
- C. Set the header Ocp-Apim-Trace to the customer ID for the signed in user
- D. Create a new SpanContext with the TraceFlags value set to the customer ID for the signed in user

Suggested Answer: A

Community vote distribution

A (86%) 14%

by  nt_ar at April 25, 2022, 1:01 a.m.

EXAM AZ-204 TOPIC 2 QUESTION 4 DISCUSSION

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 develop a software as a service (SaaS) offering to manage photographs. Users upload photos to a web service which then stores the photos in Azure Storage Blob storage. The storage account type is General-purpose V2.

When photos are uploaded, they must be processed to produce and save a mobile-friendly version of the image. The process to produce a mobile-friendly version of the image must start in less than one minute.

You need to design the process that starts the photo processing.

Solution: Trigger the photo processing from Blob storage events.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (55%)

A (45%)

by [deleted] at June 27, 2020, 6:36 p.m.

EXAM AZ-204 TOPIC 2 QUESTION 40 DISCUSSION

HOTSPOT -

You are developing an Azure Function App. You develop code by using a language that is not supported by the Azure Function App host. The code language supports HTTP primitives.

You must deploy the code to a production Azure Function App environment.

You need to configure the app for deployment.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Configuration parameter	Configuration value
Publish	<input type="checkbox"/> Code <input type="checkbox"/> Docker Container
Runtime stack	<input type="checkbox"/> Node.js <input type="checkbox"/> Python <input type="checkbox"/> PowerShell Core <input type="checkbox"/> Custom Handler
Version	<input type="checkbox"/> 14 LTS <input type="checkbox"/> 7.0 <input type="checkbox"/> custom

Answer Area

Configuration parameter	Configuration value
Publish	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> ▼</div>
	Code
	Docker Container
Runtime stack	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> ▼</div>
Suggested Answer:	Node.js
	Python
	PowerShell Core
	Custom Handler
Version	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> ▼</div>
	14 LTS
	7.0
	custom

Box 1: Docker container -

A custom handler can be deployed to every Azure Functions hosting option. If your handler requires operating system or platform dependencies (such as a language runtime), you may need to use a custom container. You can create and deploy your code to Azure Functions as a custom Docker container.

Box 2: PowerShell core -

When creating a function app in Azure for custom handlers, we recommend you select .NET Core as the stack. A "Custom" stack for custom handlers will be added in the future.

PowerShell Core (PSC) is based on the new .NET Core runtime.

Box 3-70 -

On Windows: The Azure Az PowerShell module is also supported for use with PowerShell 5.1 on Windows.

On Linux: PowerShell 7.0.6 LTS, PowerShell 7.1.3, or higher is the recommended version of PowerShell for use with the Azure Az PowerShell module on all platforms.

Reference

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-create-function-linux-custom-image> <https://docs.microsoft.com/en-us/powershell/azure/install-az-ps?view=azps-7.1.0>

by SoftSolv at April 26, 2022 6:17 p.m.

EXAM AZ-204 TOPIC 2 QUESTION 41 DISCUSSION

DRAG DROP -

You provision virtual machines (VMs) as development environments.

One VM does not start. The VM is stuck in a Windows update process. You attach the OS disk for the affected VM to a recovery VM.

You need to correct the issue.

In which order should you perform the actions? 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

Answer Area

Run the following command at an elevated command prompt:

```
dism /image:\ /get-packages > c:\temp\Patch.txt
```



Run the following command at an elevated command prompt:

```
dism /Image:<Attached OS disks>:\ /Remove  
Package /PackageName:<package name to delete>
```

Detach the OS disk and recreate the VM

Open C:\temp\Patch.txt file and locate the update that is in a pending state

Suggested Answer:

Actions

Answer Area

Run the following command at an elevated command prompt:

```
dism /image:\ /get-packages > c:\temp\Patch.txt
```



Open C:\temp\Patch.txt file and locate the update that is in a pending state

Run the following command at an elevated command prompt:

```
dism /Image:<Attached OS disks>:\ /Remove  
Package /PackageName:<package name to delete>
```

Detach the OS disk and recreate the VM

Remove the update that causes the problem

1. Take a snapshot of the OS disk of the affected VM as a backup.
2. Attach the OS disk to a recovery VM.
3. Once the OS disk is attached on the recovery VM, run diskmgmt.msc to open Disk Management, and ensure the attached disk is ONLINE.
4. (Step 1) Open an elevated command prompt instance (Run as administrator). Run the following command to get the list of the update packages that are on the attached OS disk: `dism /image:<Attached OS disk>:\ /get-packages > c:\temp\Patch_level`
5. (Step 2) Open the C:\temp\Patch_level.txt file, and then read it from the bottom up. Locate the update that's in Install Pending or Uninstall Pending state.
6. Remove the update that caused the problem:
`dism /Image:<Attached OS disk>:\ /Remove-Package /PackageName:<PACK`

7. (Step 4) Detach the OS disk and recreate the VM. Then check whether the issue is resolved.

Reference:

<https://docs.microsoft.com/en-us/troubleshoot/azure/virtual-machines/troubleshoot-stuck-updating-boot-error>

EXAM AZ-204 TOPIC 2 QUESTION 42 DISCUSSION

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 develop an HTTP triggered Azure Function app to process Azure Storage blob data. The app is triggered using an output binding on the blob.

The app continues to time out after four minutes. The app must process the blob data.

You need to ensure the app does not time out and processes the blob data.

Solution: Update the functionTimeout property of the host.json project file to 10 minutes.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  sghaha at April 28, 2022, 3:48 p.m.

EXAM AZ-204 TOPIC 2 QUESTION 43 DISCUSSION

HOTSPOT -

You are developing an Azure Durable Function based application that processes a list of input values. The application is monitored using a console application that retrieves JSON data from an Azure Function diagnostic endpoint.

During processing a single instance of invalid input does not cause the function to fail. Invalid input must be available to the monitoring application.

You need to implement the Azure Durable Function and the monitoring console application.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
[FunctionName("App")]
public static async Task<List<string>> RunOrchestrator(
    [OrchestrationTrigger] IDurableOrchestrationContext context) {
    EntityId[] input = . . .
    int errIndex =. . .

    context.SetOutput(input[errIndex]);
    context.SetCustomStatus(input[errIndex]);
    context.SignalEntity(input[errIndex], "error");
    await context.CallEntityAsync(input[errIndex], "error");
}

using (var client = new HttpClient())
{
    while (true)
    {
        var response = await client.GetAsync(". . .");
        response.EnsureSuccessStatusCode();
        var json = await response.Content.ReadAsStringAsync();
        dynamic result = JsonConvert.DeserializeObject(json);
        if (result.runtimeStatus == "Failed")
        {
            return result;
        }
    }
}
```

Failed
Awaited
Listening
Completed

input
output
runtimeStatus
customStatus

Answer Area

```
[FunctionName("App")]
public static async Task<List<string>> RunOrchestrator(
    [OrchestrationTrigger] IDurableOrchestrationContext context) {
    EntityId[] input = . . .
    int errIndex = . . .

    context.SetOutput(input[errIndex])
    context.SetCustomStatus(input[errIndex])
    context.SignalEntity(input[errIndex], "error")
    await context.CallEntityAsync(input[errIndex], "error")
}

using (var client = new HttpClient())
{
    while (true)
    {
        var response = await client.GetAsync(" . . .");
        response.EnsureSuccessStatusCode();
        var json = await response.Content.ReadAsStringAsync();
        dynamic result = JsonConvert.DeserializeObject(json);
        if (result.runtimeStatus == " . . .")
        {
            return result.
        }
    }
}
```

Box 1: await context.CallEntityAsync(input[errindex],"error")

Orchestration signals and calls an entity

Orchestrator functions can access entities by using APIs on the orchestration trigger binding.

Example:

```
[FunctionName("CounterOrchestration")]
public static async Task Run(
    [OrchestrationTrigger] IDurableOrchestrationContext context)
{
    var entityId = new EntityId(nameof(Counter), "myCounter");
    // Two-way call to the entity which returns a value - awaits the response int currentValue = await context.CallEntityAsync<int>(entityId,
    "Get");
```

Box 2: Failed -

During processing a single instance of invalid input does not cause the function to fail.

Note: RuntimeStatus: One of the following values:

Failed: The instance failed with an error.

Completed: The instance has completed normally.

Terminated: The instance was stopped abruptly.

Pending: The instance has been scheduled but has not yet started running.

Running: The instance has started running.

ContinuedAsNew: The instance has restarted itself with a new history. This state is a transient state.

Box 3: Input -

Invalid input must be available to the monitoring application.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-functions/durable/durable-functions-entities> <https://docs.microsoft.com/en-us/azure/azure-functions/durable/durable-functions-instance-management>

by  RochaG2 at Aug. 31, 2022, 7:35 p.m.

EXAM AZ-204 TOPIC 2 QUESTION 44 DISCUSSION

You are developing an Azure Durable Function to manage an online ordering process.

The process must call an external API to gather product discount information.

You need to implement the Azure Durable Function.

Which Azure Durable Function types should you use? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Orchestrator

B. Entity

C. Client

D. Activity

Suggested Answer: AD

Community vote distribution

AD (95%)

5%

by  finnishr at Sept. 6, 2022, 9:41 a.m.

EXAM AZ-204 TOPIC 2 QUESTION 45 DISCUSSION

DRAG DROP -

You are authoring a set of nested Azure Resource Manager templates to deploy multiple Azure resources.

The templates must be tested before deployment and must follow recommended practices.

You need to validate and test the templates before deployment.

Which tools should you use? To answer, drag the appropriate tools to the correct requirements. Each tool 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:

Tools	Answer Area	Requirement	Tool
Parameter file		Determine whether the templates follow recommended practices.	Tool
Template function			Tool
Azure Resource Manager test toolkit			
User-defined function		Test and validate changes that templates will make to the environment.	Tool
What-if operation			
Azure Deployment Manager			

Suggested Answer:

Tools	Answer Area	Requirement	Tool
Parameter file		Determine whether the templates follow recommended practices.	Azure Resource Manager test toolkit
Template function			
Azure Resource Manager test toolkit			
User-defined function		Test and validate changes that templates will make to the environment.	What-if operation
What-if operation			
Azure Deployment Manager			

Box 1: Azure Resource Manager test toolkit

Use ARM template test toolkit -

The Azure Resource Manager template (ARM template) test toolkit checks whether your template uses recommended practices. When your template isn't compliant with recommended practices, it returns a list of warnings with the suggested changes. By using the test toolkit, you can learn how to avoid common problems in template development.

Box 2: What-if operation -

ARM template deployment what-if operation

Before deploying an Azure Resource Manager template (ARM template), you can preview the changes that will happen. Azure Resource Manager provides the what-if operation to let you see how resources will change if you deploy the template. The what-if operation doesn't make any changes to existing resources.

Instead, it predicts the changes if the specified template is deployed.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/test-toolkit> <https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/deploy-what-if>

by  Billabongs at Sept. 1, 2022, 7:28 p.m.

 EXAM AZ-204 TOPIC 2 QUESTION 46 DISCUSSION

You develop Azure Durable Functions to manage vehicle loans.

The loan process includes multiple actions that must be run in a specified order. One of the actions includes a customer credit check process, which may require multiple days to process.

You need to implement Azure Durable Functions for the loan process.

Which Azure Durable Functions type should you use?

- A. orchestrator
- B. client
- C. entity
- D. activity

Suggested Answer: A

Community vote distribution

A (100%)

by  imanonion at Jan. 8, 2023, 2:38 a.m.

EXAM AZ-204 TOPIC 2 QUESTION 47 DISCUSSION

HOTSPOT

You are developing an Azure Function app.

All functions in the app meet the following requirements:

- Run until either a successful run or until 10 run attempts occur.
- Ensure that there are at least 20 seconds between attempts for up to 15 minutes.

You need to configure the host.json file.

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

NOTE: Each correct selection is worth one point.

Answer Area

```
{  
  "retry": {  
    "strategy": "exponentialBackoff",  
    "maxRetryCount": 10,  
    "minimumInterval": "00:00:20",  
    "maximumInterval": "00:15:00"  
  }  
}
```

Answer Area

```
{  
  "": {  
    "retry",  
    "healthMonitor",  
    "singleton"  
  },  
  "strategy": "",  
  "": {  
    "exponentialBackoff",  
    "counterThreshold",  
    "fixedDelay"  
  },  
  "": 10,  
  "": {  
    "maxRetryCount",  
    "healthCheckInterval",  
    "healthCheckThreshold"  
  },  
  "minimumInterval": "00:00:20",  
  "maximumInterval": "00:15:00"  
}  
}
```

by  chettir01 at Jan. 6, 2023, 4:59 p.m.

 EXAM AZ-204 TOPIC 2 QUESTION 48 DISCUSSION

You develop Azure Web Apps for a commercial diving company. Regulations require that all divers fill out a health questionnaire every 15 days after each diving job starts.

You need to configure the Azure Web Apps so that the instance count scales up when divers are filling out the questionnaire and scales down after they are complete.

You need to configure autoscaling.

What are two possible auto scaling configurations to achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Recurrence profile
- B. CPU usage-based autoscaling
- C. Fixed date profile
- D. Predictive autoscaling

Suggested Answer: BD

Community vote distribution

BD (67%)	AC (21%)	10%
----------	----------	-----

by  imanonion at Jan. 8, 2023, 3 a.m.

EXAM AZ-204 TOPIC 2 QUESTION 49 DISCUSSION

HOTSPOT

You are developing an online game that allows players to vote for their favorite photo that illustrates a word. The game is built by using Azure Functions and uses durable entities to track the vote count.

The voting window is 30 seconds. You must minimize latency.

You need to implement the Azure Function for voting.

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

Answer Area

```
[FunctionName("Vote")]
public static async Task<HttpResponseMessage> Run(
    [HttpTrigger("POST", Route = "pic/{id}")] HttpRequestMessage req,
    [DurableClient] IDurableEntityClient c,
    string id)
{
    var eid = new EntityId("pic", id);
    await c.
        (eid, "vote");
    return req.CreateResponse(HttpStatusCode.OK);
}
```

Answer Area

```
[FunctionName("Vote")]
public static async Task<HttpResponseMessage> Run(
    [HttpTrigger("POST", Route = "pic/{id}")] HttpRequestMessage req,
    IDurableEntityClient c,
    string id)
{
    var eid = new EntityId("pic", id);
    await c.SignalEntity(eid, "vote");
    return req.CreateResponse(HttpStatusCode.OK);
}
```

Suggested Answer:

by  notedo at April 18, 2023, 6:49 p.m.

EXAM AZ-204 TOPIC 2 QUESTION 5 DISCUSSION

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 develop and deploy an Azure App Service API app to a Windows-hosted deployment slot named Development. You create additional deployment slots named Testing and Production. You enable auto swap on the Production deployment slot.

You need to ensure that scripts run and resources are available before a swap operation occurs.

Solution: Update the web.config file to include the applicationInitialization configuration element. Specify custom initialization actions to run the scripts.

Does the solution meet the goal?

A. No

B. Yes

Suggested Answer: B

Community vote distribution

B (78%)

A (22%)

by  GMartinez at May 19, 2022, 8:25 a.m.

EXAM AZ-204 TOPIC 2 QUESTION 50 DISCUSSION

HOTSPOT

You have an App Service plan named asp1 based on the Free pricing tier.

You plan to use asp1 to implement an Azure Function app with a queue trigger. Your solution must minimize cost.

You need to identify the configuration options that will meet the requirements.

Which value should you configure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Configuration option	Value
Azure App Service feature	<input type="checkbox"/> Always On <input type="checkbox"/> Managed identity <input type="checkbox"/> Continuous deployment
Azure App Service pricing tier	<input type="checkbox"/> Basic <input type="checkbox"/> Shared <input type="checkbox"/> Standard

Answer Area

Configuration option	Value
Azure App Service feature	<input type="checkbox"/> Always On <input checked="" type="checkbox"/> Managed identity <input type="checkbox"/> Continuous deployment
Suggested Answer:	
Azure App Service pricing tier	<input checked="" type="checkbox"/> Basic <input type="checkbox"/> Shared <input type="checkbox"/> Standard

by Roel1 at July 7, 2023, 6:16 p.m.

EXAM AZ-204 TOPIC 2 QUESTION 51 DISCUSSION

DRAG DROP

You are developing several microservices to run on Azure Container Apps.

The microservices must allow HTTPS access by using a custom domain.

You need to configure the custom domain in Azure Container Apps.

In which order should you perform the actions? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

Actions

Validate the custom domain name.

Enable ingress.

Bind the certificate.

Add DNS records to the domain provider.

Add the custom domain name.

Answer Area



Answer Area

Enable ingress.

Add the custom domain name.

Validate the custom domain name.

Bind the certificate.

Add DNS records to the domain provider.

Suggested Answer:

by Roel1 at July 7, 2023, 6:18 p.m.

 EXAM AZ-204 TOPIC 2 QUESTION 52 DISCUSSION

You are developing several microservices to run on Azure Container Apps. External HTTP ingress traffic has been enabled for the microservices.

The microservices must be deployed to the same virtual network and write logs to the same Log Analytics workspace.

You need to deploy the microservices.

What should you do?

- A. Enable single revision mode.
- B. Use a separate environment for each container.
- C. Use a private container registry image and single image for all containers.
- D. Use a single environment for all containers.
- E. Enable multiple revision mode.

Suggested Answer: D

Community vote distribution

D (100%)

by  MikeM27 at July 9, 2023, 10:08 a.m.

EXAM AZ-204 TOPIC 2 QUESTION 53 DISCUSSION

HOTSPOT

You are developing several microservices to run on Azure Container Apps. External HTTP ingress traffic has been enabled for the microservices.

A deployed microservice must be updated to allow users to test new features. You have the following requirements:

- Enable and maintain a single URL for the updated microservice to provide to test users.
- Update the microservice that corresponds to the current microservice version.

You need to configure Azure Container Apps.

Which features should you configure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Requirement	Feature
Single URL for test users	<input type="checkbox"/> Revision label <input type="checkbox"/> Revision mode <input type="checkbox"/> Container image <input type="checkbox"/> Container registry
Current microservice activation	<input type="checkbox"/> Revision label <input type="checkbox"/> Revision mode <input type="checkbox"/> Container image <input type="checkbox"/> Container registry

Answer Area

Requirement	Feature
Single URL for test users	<input checked="" type="checkbox"/> Revision label <input type="checkbox"/> Revision mode <input type="checkbox"/> Container image <input type="checkbox"/> Container registry
Current microservice activation	<input checked="" type="checkbox"/> Revision label <input checked="" type="checkbox"/> Revision mode <input type="checkbox"/> Container image <input type="checkbox"/> Container registry

by  Mpho7 at July 30, 2023, 10:17 p.m.

EXAM AZ-204 TOPIC 2 QUESTION 54 DISCUSSION

HOTSPOT

You plan to develop an Azure Functions app with an HTTP trigger.

The app must support the following requirements:

- Event-driven scaling
- Ability to use custom Linux images for function execution

You need to identify the app's hosting plan and the maximum amount of time that the app function can take to respond to incoming requests.

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

NOTE: Each correct selection is worth one point.

Answer Area

Configuration setting	Value
Hosting plan	<input type="checkbox"/> Consumption <input type="checkbox"/> Dedicated <input checked="" type="checkbox"/> Premium
Timeout value	<input type="checkbox"/> 230 seconds <input type="checkbox"/> 10 minutes <input checked="" type="checkbox"/> unlimited

Answer Area

Configuration setting	Value
Hosting plan	<input type="checkbox"/> Consumption <input type="checkbox"/> Dedicated <input checked="" type="checkbox"/> Premium
Timeout value	<input checked="" type="checkbox"/> 230 seconds <input type="checkbox"/> 10 minutes <input type="checkbox"/> unlimited

Suggested Answer:

by  Ciupaz at Nov. 3, 2023, 12:51 p.m.

 EXAM AZ-204 TOPIC 2 QUESTION 55 DISCUSSION

HOTSPOT

You develop a Python application for image rendering. The application uses GPU resources to optimize rendering processes.

You have the following requirements:

- The application must be deployed to a Linux container.
- The container must be stopped when the image rendering is complete.
- The solution must minimize cost.

You need to deploy the application to Azure.

Answer Area

Environment configuration	Configuration value
Compute target	Azure Container Instances Azure Kubernetes Service Azure Container Apps Azure App Service
Container termination	Restart policy Environment variable System-assigned Managed identity User-assigned Managed identity

Answer Area

Environment configuration	Configuration value
Compute target	Azure Container Instances Azure Kubernetes Service Azure Container Apps Azure App Service
Container termination	Restart policy Environment variable System-assigned Managed identity User-assigned Managed identity

Suggested Answer:

by  junkz at Nov. 5, 2023, 4:57 a.m.

 EXAM AZ-204 TOPIC 2 QUESTION 56 DISCUSSION

HOTSPOT

You plan to develop an Azure Functions app with an Azure Blob Storage trigger. The app will be used infrequently, with a limited duration of individual executions.

The app must meet the following requirements:

- Event-driven scaling
- Support for deployment slots
- Minimize costs

You need to identify the hosting plan and the maximum duration when executing the app.

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

NOTE: Each correct selection is worth one point.

Answer Area

Configuration setting	Value
Hosting plan	<input type="button" value="▼"/> Consumption Dedicated Premium
Maximum execution time	<input type="button" value="▼"/> 230 seconds 10 minutes unlimited

Answer Area

Configuration setting	Value
Hosting plan	<input type="button" value="▼"/> Consumption Dedicated Premium
Maximum execution time	<input type="button" value="▼"/> 230 seconds 10 minutes unlimited

Suggested Answer:

by  Ciupaz at Nov. 3, 2023, 12:57 p.m.

 EXAM AZ-204 TOPIC 2 QUESTION 57 DISCUSSION

You are developing an ASP.NET Core app hosted in Azure App Service.

The app requires custom claims to be returned from Microsoft Entra ID for user authorization. The claims must be removed when the app registration is removed.

You need to include the custom claims in the user access token.

What should you do?

- A. Require the `https://graph.microsoft.com/.default` scope during authentication.
- B. Configure the app to use the OAuth 2.0 authorization code flow.
- C. Implement custom middleware to retrieve role information from Azure AD.
- D. Add the groups to the `groupMembershipClaims` attribute in the app manifest.
- E. Add the roles to the `appRoles` attribute in the app manifest.

Suggested Answer: E

Community vote distribution

E (100%)

by  [Swekker](#) at Jan. 5, 2024, 1:06 p.m.

 EXAM AZ-204 TOPIC 2 QUESTION 58 DISCUSSION

You are developing a microservice to run on Azure Container Apps for a company. External HTTP ingress traffic has been enabled.

The company requires that updates to the microservice must not cause downtime.

You need to deploy an update to the microservices.

What should you do?

- A. Enable single revision mode.
- B. Use multiple environments for each container.
- C. Use a private container registry and single image for all containers.
- D. Use a single environment for all containers.
- E. Enable multiple revision mode.

Suggested Answer: A

Community vote distribution

A (72%)

E (28%)

by  Ciupaz at Jan. 6, 2024, 6:50 p.m.

EXAM AZ-204 TOPIC 2 QUESTION 59 DISCUSSION

HOTSPOT

A company uses Azure Container Apps. A container app named App1 resides in a resource group named RG1.

The company requires testing of updates to App1.

You enable multiple revision modes on App1.

You need to ensure traffic is routed to each revision of App1.

How should you complete the code segment?

NOTE: Each correct selection is worth one point.

Answer Area

az

container
containerapp
network
resource

app
connection
ingress
revision

traffic set \

```
--name App1 \
--resource-group RG1 \
--revision-weight <REVISION_1>=80 <REVISION_2>=20
```

Answer Area

Suggested Answer:

az

container
containerapp
network
resource

app
connection
ingress
revision

traffic set \

```
--name App1 \
--resource-group RG1 \
--revision-weight <REVISION_1>=80 <REVISION_2>=20
```

EXAM AZ-204 TOPIC 2 QUESTION 6 DISCUSSION

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 develop and deploy an Azure App Service API app to a Windows-hosted deployment slot named Development. You create additional deployment slots named Testing and Production. You enable auto swap on the Production deployment slot.

You need to ensure that scripts run and resources are available before a swap operation occurs.

Solution: Enable auto swap for the Testing slot. Deploy the app to the Testing slot.

Does the solution meet the goal?

A. No

B. Yes

Suggested Answer: A

Community vote distribution

A (71%)

B (29%)

by  GMartinez at May 19, 2022, 8:20 a.m.

EXAM AZ-204 TOPIC 2 QUESTION 60 DISCUSSION

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 deploy an Azure Container Apps app and disable ingress on the container app.

Users report that they are unable to access the container app. You investigate and observe that the app has scaled to 0 instances.

You need to resolve the issue with the container app.

Solution: Enable ingress, create an HTTP scale rule, and apply the rule to the container app.

Does the solution meet the goal?

- A. Yes
- B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  manopeydakon at Jan. 9, 2024, 11:20 a.m.

EXAM AZ-204 TOPIC 2 QUESTION 61 DISCUSSION

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 deploy an Azure Container Apps app and disable ingress on the container app.

Users report that they are unable to access the container app. You investigate and observe that the app has scaled to 0 instances.

You need to resolve the issue with the container app.

Solution: Enable ingress, create a custom scale rule, and apply the rule to the container app.

Does the solution meet the goal?

- A. Yes
- B. No

Suggested Answer: B

Community vote distribution

B (64%)

A (36%)

by  Ciupaz at Jan. 6, 2024, 6:55 p.m.

EXAM AZ-204 TOPIC 2 QUESTION 62 DISCUSSION

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 deploy an Azure Container Apps app and disable ingress on the container app.

Users report that they are unable to access the container app. You investigate and observe that the app has scaled to 0 instances.

You need to resolve the issue with the container app.

Solution: Enable ingress and configure the minimum replicas to 1 for the container app.

Does the solution meet the goal?

- A. Yes
- B. No

Suggested Answer: A

Community vote distribution

A (86%)	14%
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by  Ciupaz at Jan. 7, 2024, 8:33 a.m.

EXAM AZ-204 TOPIC 2 QUESTION 63 DISCUSSION

HOTSPOT

Case study

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. When you are ready to answer a question, click the Question button to return to the question.

Background

Munson's Pickles and Preserves Farm is an agricultural cooperative corporation based in Washington, US, with farms located across the United States. The company supports agricultural production resources by distributing seeds fertilizers, chemicals, fuel, and farm machinery to the farms.

Current Environment

The company is migrating all applications from an on-premises datacenter to Microsoft Azure. Applications support distributors, farmers, and internal company staff.

Corporate website

- The company hosts a public website located at <http://www.munsonspicklesandpreservesfarm.com>. The site supports farmers and distributors who request agricultural production resources.

Farms

- The company created a new customer tenant in the Microsoft Entra admin center to support authentication and authorization for applications.

Distributors

- Distributors integrate their applications with data that is accessible by using APIs hosted at <http://www.munsonspicklesandpreservesfarm.com/api> to receive and update resource data.

Requirements

The application components must meet the following requirements:

Corporate website

- The site must be migrated to Azure App Service.
- Costs must be minimized when hosting in Azure.
- Applications must automatically scale independent of the compute resources.
- All code changes must be validated by internal staff before release to production.
- File transfer speeds must improve, and webpage-load performance must increase.
- All site settings must be centrally stored, secured without using secrets, and encrypted at rest and in transit.
- A queue-based load leveling pattern must be implemented by using Azure Service Bus queues to support high volumes of website agricultural production resource requests.

Farms

- Farmers must authenticate to applications by using Microsoft Entra ID.

Distributors

- The company must track a custom telemetry value with each API call and monitor performance of all APIs.
- API telemetry values must be charted to evaluate variations and trends for resource data.

Internal staff

- App and API updates must be validated before release to production.
- Staff must be able to select a link to direct them back to the production app when validating an app or API update.
- Staff profile photos and email must be displayed on the website once they authenticate to applications by using their Microsoft Entra ID.

Security

- All web communications must be secured by using TLS/HTTPS.
- Web content must be restricted by country/region to support corporate compliance standards.
- The principle of least privilege must be applied when providing any user rights or process access rights.
- Managed identities for Azure resources must be used to authenticate services that support Microsoft Entra ID authentication.

Issues

Corporate website

- Farmers report HTTP 503 errors at the same time as internal staff report that CPU and memory usage are high.

- Distributors report HTTP 502 errors at the same time as internal staff report that average response times and networking traffic are high.
- Internal staff report webpage load sizes are large and take a long time to load.
- Developers receive authentication errors to Service Bus when they debug locally.

Distributors

- Many API telemetry values are sent in a short period of time. Telemetry traffic, data costs, and storage costs must be reduced while preserving a statistically correct analysis of the data points sent by the APIs.

You need to configure App Service to support the corporate website migration.

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

NOTE: Each correct selection is worth one point.

Azure App Service configuration

Configuration setting	Configuration value
App Service plan	<div style="border: 1px solid #ccc; padding: 5px; width: fit-content;"> Basic Standard Premium Isolated </div>
Code change validation feature	<div style="border: 1px solid #ccc; padding: 5px; width: fit-content;"> Deployment slot Custom container Domain certificate Deployment credentials </div>

Azure App Service configuration

Configuration setting	Configuration value
App Service plan	<div style="border: 1px solid #ccc; padding: 5px; width: fit-content;"> <input checked="" type="checkbox"/> Basic Standard Premium Isolated </div>
Suggested Answer:	
Code change validation feature	<div style="border: 1px solid #ccc; padding: 5px; width: fit-content;"> <input checked="" type="checkbox"/> Deployment slot Custom container Domain certificate Deployment credentials </div>

by  priomkhan at Jan. 5, 2024, 10:15 p.m.

EXAM AZ-204 TOPIC 2 QUESTION 64 DISCUSSION

DRAG DROP

You have an Azure Cosmos DB for NoSQL API account named account1 and a database named db1. An application named app1 will access db1 to perform read and write operations.

You plan to modify the consistency levels for read and write operations performed by app1 on db1.

You must enforce the consistency level on a per-operation basis whenever possible.

You need to configure the consistency level for read and write operations.

Which locations should you configure? To answer, move the appropriate locations to the correct operations. You may use each location once, more than once, or not at all. You may need to move the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Locations to configure operations

db1
app1
account1

Locations to configure operations

Operation	Location
Read	<input type="text"/>
Write	<input type="text"/>

Locations to configure operations

Operation	Location
Suggested Answer: Read	<input type="text"/> app1
Write	<input type="text"/> account1

by  fc61c73 at Oct. 21, 2024, 11:38 a.m.

HOTSPOT

You are creating an Azure Functions app project in your local development environment by using Azure Functions Core Tools.

You must create the project in either Python or C# without using a template.

You need to specify the command and its parameter required to create the Azure Functions app project.

Which command and parameter should you specify? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Core Tools syntax elements

Syntax element Value

Command

func new
func imt
func azure

Parameter

--language
--worker-runtime
--target-framework

Core Tools syntax elements

Syntax element Value

Command

func new
func imt
func azure

Suggested Answer:

Parameter

--language
--worker-runtime
--target-framework

 EXAM AZ-204 TOPIC 2 QUESTION 66 DISCUSSION

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 App Service plan named APSPlan1 set to the Basic B1 pricing tier. APSPlan1 contains an App Service web app named WebApp1.

You plan to enable schedule-based autoscaling for APSPlan1.

You need to minimize the cost of running WebApp1.

Solution: Scale down ASPPlan1 to the Shared pricing tier.

Does the solution meet the goal?

- A. Yes
- B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  Mattt at Nov. 6, 2024, 9:44 a.m.

EXAM AZ-204 TOPIC 2 QUESTION 67 DISCUSSION

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 App Service plan named APSPlan1 set to the Basic B1 pricing tier. APSPlan1 contains an App Service web app named WebApp1.

You plan to enable schedule-based autoscaling for APSPlan1.

You need to minimize the cost of running WebApp1.

Solution: Scale out APSPlan1.

Does the solution meet the goal?

- A. Yes
- B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  Mattt at Nov. 6, 2024, 9:46 a.m.

EXAM AZ-204 TOPIC 2 QUESTION 68 DISCUSSION

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 App Service plan named APSPlan1 set to the Basic B1 pricing tier. APSPlan1 contains an App Service web app named WebApp1.

You plan to enable schedule-based autoscaling for APSPlan1.

You need to minimize the cost of running WebApp1.

Solution: Scale up ASPPlan1 to the Premium V2 pricing tier.

Does the solution meet the goal?

- A. Yes
- B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  _tharindus at Oct. 15, 2024, 1:56 p.m.

EXAM AZ-204 TOPIC 2 QUESTION 69 DISCUSSION

HOTSPOT

You have an Azure Functions app using the Consumption hosting plan for a company. The app contains the following functions:

Function Name	Trigger type
f1	HTTP
f2	Timer
f3	Azure Queues

You plan to enable dynamic concurrency on the app. The company requires that each function has its concurrency level managed separately.

You need to configure the app for dynamic concurrency.

Which file or function names should you use? To answer, select the appropriate values in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Requirement	File or Function Name
File name	<input type="text"/> function.json host.json local.settings.json
Function name	<input type="text"/> f1 f2 f3

Answer Area

Requirement	File or Function Name
File name	<input type="text"/> function.json host.json local.settings.json
Function name	<input type="text"/> f1 f2 f3

by  Mattt at Nov. 6, 2024, 9:56 a.m.

EXAM AZ-204 TOPIC 2 QUESTION 7 DISCUSSION

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 develop and deploy an Azure App Service API app to a Windows-hosted deployment slot named Development. You create additional deployment slots named Testing and Production. You enable auto swap on the Production deployment slot.

You need to ensure that scripts run and resources are available before a swap operation occurs.

Solution: Disable auto swap. Update the app with a method named statuscheck to run the scripts. Re-enable auto swap and deploy the app to the Production slot.

Does the solution meet the goal?

A. No

B. Yes

Suggested Answer: A

Community vote distribution

A (78%)

B (22%)

by  GMartinez at May 19, 2022, 8:25 a.m.

EXAM AZ-204 TOPIC 2 QUESTION 71 DISCUSSION

DRAG DROP

You have two Azure Container Registry (ACR) instances: ACR01 and ACR02.

You plan to implement a containerized application named APP1 that will use a base image named BASE1. The image for APP1 will be stored in ACR01. The image BASE1 will be stored in ACR02.

You need to automate the planned implementation by using a sequence of five Azure command-line interface (Azure CLI) commands. Your solution must ensure that the APP1 image stored in ACR01 will be automatically updated when the BASE1 image is updated.

In which order should you perform the actions? To answer, move all container build automation options from the list of container build automations to the answer area and arrange them in the correct order.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Container build automation

az acr task credential add

az role assignment create

az acr build

az acr task run

az acr task create

Answer Area

1.

2.

3.

4.

5.



Answer Area

1. az acr build

2. az acr task create

Suggested Answer: 3. az role assignment create

4. az acr task credential add

5. az acr task run

EXAM AZ-204 TOPIC 2 QUESTION 8 DISCUSSION

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 develop a software as a service (SaaS) offering to manage photographs. Users upload photos to a web service which then stores the photos in Azure

Storage Blob storage. The storage account type is General-purpose V2.

When photos are uploaded, they must be processed to produce and save a mobile-friendly version of the image. The process to produce a mobile-friendly version of the image must start in less than one minute.

You need to design the process that starts the photo processing.

Solution: Convert the Azure Storage account to a BlockBlobStorage storage account.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (92%) 8%

by  Justing_Gao at July 21, 2020, 7 a.m.

EXAM AZ-204 TOPIC 2 QUESTION 9 DISCUSSION

HOTSPOT -

You are developing an Azure Web App. You configure TLS mutual authentication for the web app.

You need to validate the client certificate in the web app. To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Property	Value
Client certificate location	<input type="checkbox"/> HTTP request header <input type="checkbox"/> Client cookie <input type="checkbox"/> HTTP message body <input type="checkbox"/> URL query string
Encoding type	<input type="checkbox"/> HTML <input type="checkbox"/> URL <input type="checkbox"/> Unicode <input type="checkbox"/> Base64

Answer Area

Property	Value
Client certificate location	<input checked="" type="checkbox"/> HTTP request header <input type="checkbox"/> Client cookie <input type="checkbox"/> HTTP message body <input type="checkbox"/> URL query string
Encoding type	<input type="checkbox"/> HTML <input type="checkbox"/> URL <input type="checkbox"/> Unicode <input checked="" type="checkbox"/> Base64

Accessing the client certificate from App Service.

If you are using ASP.NET and configure your app to use client certificate authentication, the certificate will be available through the `HttpRequest.ClientCertificate` property. For other application stacks, the client cert will be available in your app through a base64 encoded value in the "X-ARR-ClientCert" request header. Your application can create a certificate from this value and then use it for authentication and authorization purposes in your application.

Reference:

<https://docs.microsoft.com/en-us/azure/app-service/app-service-web-configure-tls-mutual-auth>

by 27close at Nov. 14, 2020, 12:20 p.m.

 EXAM AZ-204 TOPIC 20 QUESTION 1 DISCUSSION

You need to ensure receipt processing occurs correctly.

What should you do?

- A. Use blob properties to prevent concurrency problems
- B. Use blob SnapshotTime to prevent concurrency problems
- C. Use blob metadata to prevent concurrency problems
- D. Use blob leases to prevent concurrency problems

Suggested Answer: *D*

Community vote distribution

D (92%)	8%
---------	----

by  [inputoutput](#) at *March 14, 2021, 5:55 p.m.*

 EXAM AZ-204 TOPIC 20 QUESTION 2 DISCUSSION

You need to resolve the capacity issue.

What should you do?

- A. Convert the trigger on the Azure Function to an Azure Blob storage trigger
- B. Ensure that the consumption plan is configured correctly to allow scaling
- C. Move the Azure Function to a dedicated App Service Plan
- D. Update the loop starting on line PC09 to process items in parallel

Suggested Answer: D

Community vote distribution

D (100%)

by  aperez1979 at March 31, 2021, 7:07 p.m.

 EXAM AZ-204 TOPIC 20 QUESTION 3 DISCUSSION

You need to resolve the log capacity issue.

What should you do?

- A. Create an Application Insights Telemetry Filter
- B. Change the minimum log level in the host.json file for the function
- C. Implement Application Insights Sampling
- D. Set a LogCategoryFilter during startup

Suggested Answer: C

Community vote distribution

B (50%)

C (50%)

by  aperez1979 at March 25, 2021, 7:19 p.m.

EXAM AZ-204 TOPIC 21 QUESTION 1 DISCUSSION

HOTSPOT -

You need to implement event routing for retail store location data.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Event data Configuration

Source

- Azure Blob Storage
- Azure Event Grid
- Azure Service Bus
- Azure Event Hub

Receiver

- Azure Event Grid
- Azure Event Hub
- Azure Service Bus
- Azure Blob Storage

Handler

- Azure Function App
- Azure Logic App
- Azure Event Grid
- Azure Blob Storage

Answer Area

Event data Configuration

Source

- Azure Blob Storage
- Azure Event Grid
- Azure Service Bus
- Azure Event Hub

Receiver

- Suggested Answer:
- Azure Event Grid
 - Azure Event Hub
 - Azure Service Bus
 - Azure Blob Storage

Handler

- Azure Function App
- Azure Logic App
- Azure Event Grid
- Azure Blob Storage

Azure event publishers and event handlers are at the core of the Event Grid routing-service. Event Grid listens to Azure event publishers, such as Blog Storage, then reacts by routing specific events to Azure event handlers, such as WebHooks. You can easily control this entire process at a granular level through event subscriptions and event filters.

Box 2: Azure Event Grid -

Azure Event Grid is a highly scalable event-routing service that listens for specific system events, then reacts to them according to your precise specifications. In the past, event handling has relied largely on polling – a high latency, low-efficiency approach that can prove prohibitively expensive at scale.

Box 3: Azure Logic App -

Event Grid's supported event handlers currently include Event Hubs, WebHooks, Logic Apps, Azure Functions, Azure Automation and Microsoft Flow.

Reference:

<https://www.appliedi.net/blog/using-azure-event-grid-for-highly-scalable-event-routing>

by  le129 at Sept. 1, 2022, 8:32 p.m.

 EXAM AZ-204 TOPIC 22 QUESTION 1 DISCUSSION

You need to troubleshoot the order workflow.

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

NOTE: Each correct selection is worth one point.

- A. Review the API connections.
- B. Review the activity log.
- C. Review the run history.
- D. Review the trigger history.

Suggested Answer: CD

Community vote distribution

CD (67%)

BD (33%)

by  7ack at June 30, 2021, 6:54 p.m.

EXAM AZ-204 TOPIC 22 QUESTION 2 DISCUSSION

HOTSPOT -

You need to update the order workflow to address the issue when calling the Printer API App.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
"print_label": {  
    "type": "Http",  
    "inputs": {  
        "method": "POST",  
        "uri": "https://www.cohowinery.com/printer/printlabel",  
        "retryPolicy": {  
            "type": "dropdown",  
            "options": ["default", "none", "fixed", "exponential"]  
        },  
        "interval": "dropdown",  
        "options": ["PT10S", "PT30S", "PT60S", "PT1D"]  
    },  
    "count": "dropdown",  
    "options": [5, 10, 60]  
}
```

Suggested Answer:

Answer Area

```
"print_label": {
    "type": "Http",
    "inputs": {
        "method": "POST",
        "uri": "https://www.cohowinery.com/printer/printlabel",
        "retryPolicy": {
            "type": "fixed",
            "interval": "PT60S",
            "count": 5
        }
    }
}
```

The screenshot shows three dropdown menus from a Power Automate configuration screen. The first dropdown, 'retryPolicy.type', has options 'default', 'none', 'fixed' (which is selected and highlighted in green), and 'exponential'. The second dropdown, 'interval', has options 'PT10S', 'PT30S', 'PT60S' (selected and highlighted in green), and 'PT1D'. The third dropdown, 'count', has options '5' (selected and highlighted in green), '10', and '60'.

Box 1: fixed -

The 'Default' policy does 4 exponential retries and from my experience the interval times are often too short in situations.

Box 2: PT60S -

We could set a fixed interval, e.g. 5 retries every 60 seconds (PT60S).

PT60S is 60 seconds.

Scenario: Calls to the Printer API App fail periodically due to printer communication timeouts.

Printer communication timeouts occur after 10 seconds. The label printer must only receive up to 5 attempts within one minute.

Box 3: 5 -

Reference:

<https://michalsacewicz.com/error-handling-in-power-automate/>

by koreshulya at June 30, 2021, 8:46 p.m.

 EXAM AZ-204 TOPIC 23 QUESTION 1 DISCUSSION

DRAG DROP -

You need to support the message processing for the ocean transport workflow.

Which four 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

Answer Area

Link the Logic App to the integration account.



Add partners, schemas, certificates, maps, and agreements.



Update the Logic App to use the partners, schemas, certificates, maps, and agreements.

Create a custom connector for the Logic App.

Link the custom connector to the Logic App.

Create an integration account in the Azure portal.

Suggested Answer:

Actions

Answer Area

Link the Logic App to the integration account.

Create an integration account in the Azure portal.

Add partners, schemas, certificates, maps, and agreements.

Link the Logic App to the integration account.

Update the Logic App to use the partners, schemas, certificates, maps, and agreements.

Add partners, schemas, certificates, maps, and agreements.

Create a custom connector for the Logic App.

Create a custom connector for the Logic App.

Link the custom connector to the Logic App.

Create an integration account in the Azure portal.

Step 1: Create an integration account in the Azure portal

You can define custom metadata for artifacts in integration accounts and get that metadata during runtime for your logic app to use. For example, you can provide metadata for artifacts, such as partners, agreements, schemas, and maps - all store metadata using key-value pairs.

Step 2: Link the Logic App to the integration account

A logic app that's linked to the integration account and artifact metadata you want to use.

Step 3: Add partners, schemas, certificates, maps, and agreements

Step 4: Create a custom connector for the Logic App.

Reference:

<https://docs.microsoft.com/bs-latn-ba/azure/logic-apps/logic-apps-enterprise-integration-metadata>

by sghaha at May 5, 2022, 2:07 p.m.

EXAM AZ-204 TOPIC 23 QUESTION 2 DISCUSSION

You need to support the requirements for the Shipping Logic App.

What should you use?

- A. Azure Active Directory Application Proxy
- B. Site-to-Site (S2S) VPN connection
- C. On-premises Data Gateway
- D. Point-to-Site (P2S) VPN connection

Suggested Answer: C

Before you can connect to on-premises data sources from Azure Logic Apps, download and install the on-premises data gateway on a local computer. The gateway works as a bridge that provides quick data transfer and encryption between data sources on premises (not in the cloud) and your logic apps.

The gateway supports BizTalk Server 2016.

Note: Microsoft have now fully incorporated the Azure BizTalk Services capabilities into Logic Apps and Azure App Service Hybrid Connections.

Logic Apps Enterprise Integration pack bring some of the enterprise B2B capabilities like AS2 and X12, EDI standards support

Scenario: The Shipping Logic app must meet the following requirements:

- ⇒ Support the ocean transport and inland transport workflows by using a Logic App.
- ⇒ Support industry-standard protocol X12 message format for various messages including vessel content details and arrival notices.
- ⇒ Secure resources to the corporate VNet and use dedicated storage resources with a fixed costing model.
- ⇒ Maintain on-premises connectivity to support legacy applications and final BizTalk migrations.

Reference:

<https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-gateway-install>

Community vote distribution

C (100%)

by  programmingbot at July 28, 2020, 8:14 p.m.

EXAM AZ-204 TOPIC 24 QUESTION 1 DISCUSSION

HOTSPOT -

You need to configure the integration for Azure Service Bus and Azure Event Grid.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

az	eventgrid servicebus	event-subscription topic queue	create --source-resource-id \$topicid --name \$name --
endpoint-type	webhook eventhub servicebusqueue	--endpoint \$endpoint	

Suggested Answer:

Answer Area

az	eventgrid servicebus	event-subscription topic queue	create --source-resource-id \$topicid --name \$name --
endpoint-type	webhook eventhub servicebusqueue	--endpoint \$endpoint	

Box 1: eventgrid -

To create event subscription use: az eventgrid event-subscription create

Box 2: event-subscription -

Box 3: servicebusqueue -

Scenario: Azure Service Bus and Azure Event Grid

Azure Event Grid must use Azure Service Bus for queue-based load leveling.

Events in Azure Event Grid must be routed directly to Service Bus queues for use in buffering.

Events from Azure Service Bus and other Azure services must continue to be routed to Azure Event Grid for processing.

Reference:

https://docs.microsoft.com/en-us/cli/azure/eventgrid/event-subscription?view=azure-cli-latest#az_eventgrid_event_subscription_create

by  malay1232489 at March 21, 2021, 4:13 a.m.

 EXAM AZ-204 TOPIC 24 QUESTION 2 DISCUSSION

You need to ensure that all messages from Azure Event Grid are processed.

What should you use?

- A. Azure Event Grid topic
- B. Azure Service Bus topic
- C. Azure Service Bus queue
- D. Azure Storage queue
- E. Azure Logic App custom connector

Suggested Answer: C

Community vote distribution

C (100%)

by  cbn at Feb. 9, 2021, 9:49 a.m.

EXAM AZ-204 TOPIC 25 QUESTION 1 DISCUSSION

DRAG DROP -

You need to add code at line EG15 in EventGridController.cs to ensure that the Log policy applies to all services.

How should you complete the code? To answer, drag the appropriate code segments to the correct locations. Each code segment 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:

Code segments	Answer Area
topic	<pre>if { @event["data"]["code segment"].ToString() == "code segment"</pre>
status	<pre>&&</pre>
eventType	<pre>@event["data"]["code segment"].ToString() == "Microsoft.Web/sites/write"</pre>
Succeeded	<pre>)</pre>
operationName	
resourceProvider	

Suggested Answer:

Code segments	Answer Area
topic	<pre>if { @event["data"]["status"].ToString() == "Succeeded"</pre>
status	<pre>&&</pre>
eventType	<pre>@event["data"]["operationName"].ToString() == "Microsoft.Web/sites/write"</pre>
Succeeded	<pre>)</pre>
operationName	
resourceProvider	

Scenario, Log policy: All Azure App Service Web Apps must write logs to Azure Blob storage.

Box 1: Status -

Box 2: Succeeded -

Box 3: operationName -

Microsoft.Web/sites/write is resource provider operation. It creates a new Web App or updates an existing one.

Reference:

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

by  MrZoom at March 31, 2021, 10:03 a.m.

EXAM AZ-204 TOPIC 25 QUESTION 2 DISCUSSION

HOTSPOT -

You need to insert code at line LE03 of LoginEvent.cs to ensure that all authentication events are processed correctly.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

public string	(get; set;)
id	
eventType	
dataVersion	
metadataVersion	

public string	(get; set;)
id	
eventType	
dataVersion	
metadataVersion	

public string	(get; set;)
id	
eventType	
dataVersion	
metadataVersion	

Answer Area

public string	(get; set;)
id	
eventType	
dataVersion	
metadataVersion	

public string	(get; set;)
id	
eventType	
dataVersion	
metadataVersion	

public string	(get; set;)
id	
eventType	
dataVersion	
metadataVersion	

Box 1: id -

id is a unique identifier for the event.

Box 2: eventType -

eventType is one of the registered event types for this event source.

Box 3: dataVersion -

dataVersion is the schema version of the data object. The publisher defines the schema version.

Scenario: Authentication events are used to monitor users signing in and signing out. All authentication events must be processed by Policy service. Sign outs must be processed as quickly as possible.

The following example shows the properties that are used by all event publishers:

```
[  
 {  
 "topic": string,  
 "subject": string,  
 "id": string,  
 "eventType": string,  
 "eventTime": string,  
 "data":{  
 object-unique-to-each-publisher  
 },  
 "dataVersion": string,  
 "metadataVersion": string  
 }  
 ]
```

Reference:

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

by  Mike_St at March 12, 2021, 10:32 p.m.

EXAM AZ-204 TOPIC 25 QUESTION 3 DISCUSSION

HOTSPOT -

You need to implement the Log policy.

How should you complete the EnsureLogging method in EventGridController.cs? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
var client = new WebSiteManagementClient(. . .);
var id = ParseResourceID(resource);
var appSettings = new StringDictionary(name: "properties",
    properties: new Dictionary<string, string> {
        {"DIAGNOSTICS_AZUREBLOBCONTAINERSASURL", BlobStoreAccountSAS(""),
            logs
            logdrop
        },
        {"DIAGNOSTICS_AZUREBLOBRETENTIONINDAYS", "15"} // Box 2
    }
}); // Box 1
client.WebApps. // Box 3
    UploadLoggingSettings
    UpdateApplicationSetting
    id.resourceGroup,
    id.name, appSettings);
```

Suggested Answer:

Answer Area

```
var client = new WebSiteManagementClient(. . .);
var id = ParseResourceID(resource);
var appSettings = new StringDictionary(name: "properties",
    properties: new Dictionary<string, string> {
        {"DIAGNOSTICS_AZUREBLOBCONTAINERSASURL", BlobStoreAccountSAS(""),
            logs
            logdrop
        },
        {"DIAGNOSTICS_AZUREBLOBRETENTIONINDAYS", "15"} // Box 2
    }
}); // Box 1
client.WebApps. // Box 3
    UploadLoggingSettings
    UpdateApplicationSetting
    id.resourceGroup,
    id.name, appSettings);
```

Box 1: logdrop -

All log files should be saved to a container named logdrop.

Box 2: 15 -

Logs must remain in the container for 15 days.

Box 3: UpdateApplicationSettings

All Azure App Service Web Apps must write logs to Azure Blob storage.

Reference:

<https://blog.hompus.nl/2017/05/29/adding-application-logging-blob-to-a-azure-web-app-service-using-powershell/>

 EXAM AZ-204 TOPIC 26 QUESTION 1 DISCUSSION

You need to resolve a notification latency issue.

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

NOTE: Each correct selection is worth one point.

- A. Set Always On to true.
- B. Ensure that the Azure Function is using an App Service plan.
- C. Set Always On to false.
- D. Ensure that the Azure Function is set to use a consumption plan.

Suggested Answer: AB

Community vote distribution

AB (100%)

by  andsol at March 5, 2021, 7:53 p.m.

EXAM AZ-204 TOPIC 27 QUESTION 1 DISCUSSION

HOTSPOT -

You need to ensure that validation testing is triggered per the requirements.

How should you complete the code segment? To answer, select the appropriate values in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
var event = getEvent();
if (event.eventType === 'ImagePushed'
    && event.data.target === 'contentanalysisservice'
    && event.data.contains('contosoimages'))
{
    startValidationTesting();
}
```

Answer Area

```
var event = getEvent();
if (event.eventType === 'RepositoryUpdated'
    && event.data.target === 'contentanalysisservice'
    && event.data.contains('contosoimages'))
{
    startValidationTesting();
}
```

Suggested Answer:

Box 1: RepositoryUpdated -

When a new version of the ContentAnalysisService is available the previous seven days of content must be processed with the new version to verify that the new version does not significantly deviate from the old version.

Box 2: service -

Box 3: imageCollection -

Reference:

<https://docs.microsoft.com/en-us/azure/devops/notifications/oob-supported-event-types>

by  halmosi at March 11, 2021, 9:32 p.m.

 EXAM AZ-204 TOPIC 27 QUESTION 2 DISCUSSION

You need to deploy the CheckUserContent Azure Function. The solution must meet the security and cost requirements. Which hosting model should you use?

- A. Premium plan
- B. App Service plan
- C. Consumption plan

Suggested Answer: *B*

Community vote distribution

B (100%)

by  [Jurgen1234](#) at June 30, 2021, 3:30 p.m.

EXAM AZ-204 TOPIC 28 QUESTION 1 DISCUSSION

DRAG DROP -

You need to deploy a new version of the LabelMaker application to ACR.

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

Log in to the registry and push image.

Create an alias of the image with a new build number.

Create an alias of the image with the fully qualified path to the registry.

Download the image to your local computer.

Build a new application image by using dockerfile.

Answer area

Suggested Answer:

Actions

Create an alias of the image with a new build number.

Download the image to your local computer.

Answer area

Build a new application image by using dockerfile.

Create an alias of the image with the fully qualified path to the registry.

Log in to the registry and push image.

Step 1: Build a new application image by using dockerfile

Step 2: Create an alias if the image with the fully qualified path to the registry

Before you can push the image to a private registry, you've to ensure a proper image name. This can be achieved using the docker tag command. For demonstration purpose, we'll use Docker's hello world image, rename it and push it to ACR.

```
# pulls hello-world from the public docker hub
```

```
$ docker pull hello-world
```

```
# tag the image in order to be able to push it to a private registry
```

```
$ docker tag hello-world <REGISTRY_NAME>/hello-world
```

```
# push the image
```

```
$ docker push <REGISTRY_NAME>/hello-world
```

Step 3: Log in to the registry and push image

In order to push images to the newly created ACR instance, you need to login to ACR form the Docker CLI. Once logged in, you can push any existing docker image to your ACR instance.

Scenario:

Coho Winery plans to move the application to Azure and continue to support label creation.

LabelMaker app -

Azure Monitor Container Health must be used to monitor the performance of workloads that are deployed to Kubernetes environments and hosted on Azure

Kubernetes Service (AKS).

You must use Azure Container Registry to publish images that support the AKS deployment.

Reference:

<https://thorsten-hans.com/how-to-use-a-private-azure-container-registry-with-kubernetes-9b86e67b93b6> <https://docs.microsoft.com/en-us/azure/container-registry/container-registry-tutorial-quick-task>

by  jay158 at July 9, 2021, 6:25 a.m.

 EXAM AZ-204 TOPIC 28 QUESTION 2 DISCUSSION

You need to access data from the user claim object in the e-commerce web app.

What should you do first?

- A. Write custom code to make a Microsoft Graph API call from the e-commerce web app.
- B. Assign the Contributor RBAC role to the e-commerce web app by using the Resource Manager create role assignment API.
- C. Update the e-commerce web app to read the HTTP request header values.
- D. Using the Azure CLI, enable Cross-origin resource sharing (CORS) from the e-commerce checkout API to the e-commerce web app.

Suggested Answer: C

Community vote distribution

C (100%)

by  j888 at Aug. 6, 2021, 2:05 a.m.

EXAM AZ-204 TOPIC 29 QUESTION 1 DISCUSSION

HOTSPOT -

You need to implement the retail store location Azure Function.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Configuration Value

Binding

▼
Blob storage
Azure Cosmos DB
Event Grid
HTTP

Binding Direction

▼
Input
Output

Trigger

▼
Blob storage
Azure Cosmos DB
Event Grid
HTTP

Answer Area

Configuration	Value
Binding	<div style="border: 1px solid black; padding: 5px; width: fit-content;"><div style="border-bottom: 1px solid black; padding-bottom: 2px;"></div><div>Blob storage</div><div>Azure Cosmos DB</div><div>Event Grid</div><div style="background-color: #90EE90;">HTTP</div></div>
Binding Direction	<div style="border: 1px solid black; padding: 5px; width: fit-content;"><div style="border-bottom: 1px solid black; padding-bottom: 2px;"></div><div style="background-color: #90EE90;">Input</div><div>Output</div></div>
Trigger	<div style="border: 1px solid black; padding: 5px; width: fit-content;"><div style="border-bottom: 1px solid black; padding-bottom: 2px;"></div><div style="background-color: #90EE90;">Blob storage</div><div>Azure Cosmos DB</div><div>Event Grid</div><div style="background-color: #90EE90;">HTTP</div></div>

Suggested Answer:

Scenario: Retail store locations: Azure Functions must process data immediately when data is uploaded to Blob storage.

Box 1: HTTP -

Binding configuration example: https://<storage_account_name>.blob.core.windows.net

Box 2: Input -

Read blob storage data in a function: Input binding

Box 3: Blob storage -

The Blob storage trigger starts a function when a new or updated blob is detected.

Azure Functions integrates with Azure Storage via triggers and bindings. Integrating with Blob storage allows you to build functions that react to changes in blob data as well as read and write values.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-bindings-storage-blob-trigger>

by  [andrvelich](#) at April 30, 2022, 6:49 a.m.

 EXAM AZ-204 TOPIC 29 QUESTION 2 DISCUSSION

HOTSPOT -

You need to implement the corporate website.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Azure Configuration

Plan

Free
Standard
Premium
Isolated

Service

App Service Web App
App Service Static Web App
Azure Function App
Azure Blob Storage

Answer Area

Azure Configuration

Plan

Free
Standard
Premium
Isolated

Suggested Answer:

Service

App Service Web App
App Service Static Web App
Azure Function App
Azure Blob Storage

Box 1: Standard -

Below is a high-level comparison of the features as per the pricing tier for the App Service Plan.

SKUs	FREE	SHARED	BASIC	STANDARD	Premium	ISOLATED*
Limits						
Apps	10	100	Unlimited	Unlimited	Unlimited	Unlimited
Disk space	1 GB	1 GB	10 GB	50 GB	250 GB	
Max instances			Up to 3	Up to 10	Up to 20	
SLA			99.95%	99.95%	99.95%	
App Deployment						
Continuous Deployment	Available	Available	Available	Available	Available	Available
Deployment Slots			Available	Available	Available	
Development Tools						
Clone App				Available	Available	
Site Extensions	Available	Available	Available	Available	Available	Available
Testing in Production			Available	Available	Available	

Note: Corporate website -

The company provides a public website located at <http://www.vanarsdelltd.com>. The website consists of a React JavaScript user interface, HTML, CSS, image assets, and several APIs hosted in Azure Functions.

Corporate website requirements:

- ⇒ Secure the website by using SSL.
- ⇒ Minimize costs for data storage and hosting.
- ⇒ Implement native GitHub workflows for continuous integration and continuous deployment (CI/CD).
- ⇒ Distribute the website content globally for local use.
- ⇒ Implement monitoring by using Application Insights and availability web tests including SSL certificate validity and custom header value verification.
- ⇒ The website must have 99.95 percent uptime.

Box 2: App Service Web App -

A Web App is a web application that is hosted in an App Service. The App Service is the managed service in Azure that enables you to deploy a web application and make it available to your customers on the Internet in a very short amount of time.

Incorrect:

A Static Web Application is any web application that can be delivered directly to an end user's browser without any server-side alteration of the HTML, CSS, or JavaScript content.

Reference:

<https://azure-training.com/2018/12/27/understanding-app-services-app-service-plan-and-ase/> <https://docs.microsoft.com/en-us/azure/app-service/overview>

EXAM AZ-204 TOPIC 3 QUESTION 1 DISCUSSION

HOTSPOT -

You are developing a solution that uses the Azure Storage Client library for .NET. You have the following code: (Line numbers are included for reference only.)

```
01 CloudBlockBlob src = null;
02 try
03 {
04     src = container.ListBlobs().OfType<CloudBlockBlob>().FirstOrDefault();
05     var id = await src.AcquireLeaseAsync(null);
06     var dst = container.GetBlockBlobReference(src.Name);
07     string cpid = await dst.StartCopyAsync(src);
08     await dst.FetchAttributeAsync();
09     return id;
10 }
11 catch (Exception e)
12 {
13     throw;
14 }
15 finally
16 {
17     if (src != null)
18         await src.FetchAttributesAsync();
19     if (src.Properties.LeaseState != LeaseState.Available)
20         await src.BreakLeaseAsync(new TimeSpan(0));
21 }
```

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statement	Yes	No
The code creates an infinite lease	<input type="radio"/>	<input type="radio"/>
The code at line 06 always creates a new blob	<input type="radio"/>	<input type="radio"/>
The finally block releases the lease	<input type="radio"/>	<input type="radio"/>

Answer Area

Suggested Answer:	Statement	Yes	No
	The code creates an infinite lease	<input checked="" type="radio"/>	<input type="radio"/>
	The code at line 06 always creates a new blob	<input type="radio"/>	<input checked="" type="radio"/>
	The finally block releases the lease	<input checked="" type="radio"/>	<input type="radio"/>

Box 1: Yes -

AcquireLeaseAsync does not specify leaseTime.

leaseTime is a TimeSpan representing the span of time for which to acquire the lease, which will be rounded down to seconds. If null, an infinite lease will be acquired. If not null, this must be 15 to 60 seconds.

Box 2: No -

The GetBlockBlobReference method just gets a reference to a block blob in this container.

Box 3: Yes -

The BreakLeaseAsync method initiates an asynchronous operation that breaks the current lease on this container.

Reference:

<https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.storage.blob.cloudblobcontainer.acquireleaseasync>

<https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.storage.blob.cloudblobcontainer.getblockblobreference>

by  [Figa](#) at Nov. 20, 2020, 3:26 p.m.

 EXAM AZ-204 TOPIC 3 QUESTION 10 DISCUSSION

You develop Azure solutions.

You must connect to a No-SQL globally-distributed database by using the .NET API.

You need to create an object to configure and execute requests in the database.

Which code segment should you use?

- A. new Container(EndpointUri, PrimaryKey);
- B. new Database(EndpointUri, PrimaryKey);
- C. new CosmosClient(EndpointUri, PrimaryKey);

Suggested Answer: C

Community vote distribution

C (100%)

by  [Mr2302682](#) at Aug. 15, 2020, 12:54 p.m.

 EXAM AZ-204 TOPIC 3 QUESTION 11 DISCUSSION

You have an existing Azure storage account that stores large volumes of data across multiple containers.

You need to copy all data from the existing storage account to a new storage account. The copy process must meet the following requirements:

- Automate data movement.
- Minimize user input required to perform the operation.
- Ensure that the data movement process is recoverable.

What should you use?

- A. AzCopy
- B. Azure Storage Explorer
- C. Azure portal
- D. .NET Storage Client Library

Suggested Answer: A

Community vote distribution

A (100%)

by  Tom87 at April 4, 2021, 9:20 p.m.

EXAM AZ-204 TOPIC 3 QUESTION 12 DISCUSSION

DRAG DROP -

You are developing a web service that will run on Azure virtual machines that use Azure Storage. You configure all virtual machines to use managed identities.

You have the following requirements:

- Secret-based authentication mechanisms are not permitted for accessing an Azure Storage account.
- Must use only Azure Instance Metadata Service endpoints.

You need to write code to retrieve an access token to access Azure Storage. To answer, drag the appropriate code segments to the correct locations. Each code segment may be used 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:

Code segment 1

`http://localhost:50342/oauth2/token`
`http://169.254.169.254:50432/oauth2/token`
`http://localhost/metadata/identity/oauth2/token`
`http://169.254.169.254/metadata/identity/oauth2/token`

Answer Area

```
var url = " Code segment 1 " ;  
var queryString = "...";  
var client = new HttpClient();  
var response = await client.GetAsync(url + queryString);  
var payload = await response.Content.ReadAsStringAsync();  
  
return Code segment 2
```

Code segment 2

`XDocument.Parse(payload);`
`new MultipartContent(payload);`
`new NetworkCredential("Azure", payload);`
`JsonConvert.DeserializeObject<Dictionary<string, string>>(payload);`

Suggested Answer:

Code segment 1

`http://localhost:50342/oauth2/token`
`http://169.254.169.254:50432/oauth2/token`
`http://localhost/metadata/identity/oauth2/token`

Answer Area

```
var url = " http://169.254.169.254/metadata/identity/oauth2/token " ;  
var queryString = "...";  
var client = new HttpClient();  
var response = await client.GetAsync(url + queryString);  
var payload = await response.Content.ReadAsStringAsync();  
  
return JsonConvert.DeserializeObject<Dictionary<string, string>>(payload);
```

Code segment 2

`XDocument.Parse(payload);`
`new MultipartContent(payload);`
`new NetworkCredential("Azure", payload);`

Azure Instance Metadata Service endpoints "/oauth2/token"

Box 1: `http://169.254.169.254/metadata/identity/oauth2/token`

Sample request using the Azure Instance Metadata Service (IMDS) endpoint (recommended):

GET '`http://169.254.169.254/metadata/identity/oauth2/token?api-version=2018-02-01&resource=https://management.azure.com/`' HTTP/1.1

Metadata: true

Box 2: `JsonConvert.DeserializeObject<Dictionary<string, string>>(payload);`

Deserialized token response; returning access code.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/how-to-use-vm-token>

<https://docs.microsoft.com/en-us/azure/service-fabric/how-to-managed-identity-service-fabric-app-code>

EXAM AZ-204 TOPIC 3 QUESTION 13 DISCUSSION

DRAG DROP -

You are developing a new page for a website that uses Azure Cosmos DB for data storage. The feature uses documents that have the following format:

```
{  
    "name": "John",  
    "city" : "Seattle"  
}
```

You must display data for the new page in a specific order. You create the following query for the page:

```
SELECT*  
FROM People p  
ORDER BY p.name, p.city DESC
```

You need to configure a Cosmos DB policy to support the query.

How should you configure the policy? To answer, drag the appropriate JSON segments to the correct locations. Each JSON segment 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:

JSON segments	Answer Area
orderBy	{
sortOrder	"automatic": true,
ascending	"ngMode": "Consistent",
descending	"includedPaths": [
compositeIndexes	{ "path": "/**" }], "excludedPaths": [], " ": [[
	{ "path": "/name", "order": "descending" }, { "path": "/city", "order": " " }]]

Suggested Answer:

JSON segments	Answer Area
orderBy	{
sortOrder	"automatic": true,
ascending	"ngMode": "Consistent",
descending	"includedPaths": [
compositeIndexes	{ "path": "/**" }], "excludedPaths": [], " compositeIndexes": [[{ "path": "/name", "order": "descending" }, { "path": "/city", "order": " descending" }]]

Box 1: compositeIndexes -

You can order by multiple properties. A query that orders by multiple properties requires a composite index.

Box 2: descending -

Example: Composite index defined for (name ASC, age ASC):

It is optional to specify the order. If not specified, the order is ascending.

```
{  
    "automatic":true,  
    "indexingMode":"Consistent",  
    "includedPaths": [  
        {  
            "path":"/**"  
        }  
    ],  
    "excludedPaths":[],  
    "compositeIndexes": [  
        [  
            {  
                "path":"/name",  
            },  
            {  
                "path":"/age",  
            }  
        ]  
    ]  
}
```

EXAM AZ-204 TOPIC 3 QUESTION 14 DISCUSSION

HOTSPOT -

You are building a traffic monitoring system that monitors traffic along six highways. The system produces time series analysis-based reports for each highway.

Data from traffic sensors are stored in Azure Event Hub.

Traffic data is consumed by four departments. Each department has an Azure Web App that displays the time series-based reports and contains a WebJob that processes the incoming data from Event Hub. All Web Apps run on App Service Plans with three instances.

Data throughput must be maximized. Latency must be minimized.

You need to implement the Azure Event Hub.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Setting	Value
Number of partitions	<input type="button" value="▼"/>
3	
4	
6	
12	

Setting	Value
Partition Key	<input type="button" value="▼"/>
Highway	
Department	
Timestamp	
VM name	

Answer Area

Setting	Value
Number of partitions	<input type="button" value="▼"/>
Suggested Answer:	<input type="button" value="▼"/>
3	
4	
6	
12	

Setting	Value
Partition Key	<input type="button" value="▼"/>
Highway	
Department	
Timestamp	
VM name	

Box 1: 6 -

The number of partitions is specified at creation and must be between 2 and 32.

There are 6 highways.

Box 2: Highway -

Reference:

<https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-features>

by  robertob at Nov. 11, 2020, 1:16 a.m.

EXAM AZ-204 TOPIC 3 QUESTION 15 DISCUSSION

DRAG DROP -

You are developing a microservices solution. You plan to deploy the solution to a multinode Azure Kubernetes Service (AKS) cluster.

You need to deploy a solution that includes the following features:

- reverse proxy capabilities
- configurable traffic routing
- TLS termination with a custom certificate

Which components should you use? To answer, drag the appropriate components to the correct requirements. Each component 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

Components	Action	Component
Helm		
Draft	Deploy solution.	
Brigade	View cluster and external IP addressing.	
KubeCtl	Implement a single, public IP endpoint that is routed to multiple microservices.	
Ingress Controller		
CoreDNS		
Virtual Kubelet		

Answer Area

Components	Action	Component
Helm		
Draft	Deploy solution.	Helm
Brigade	View cluster and external IP addressing.	KubeCtl
KubeCtl	Implement a single, public IP endpoint that is routed to multiple microservices.	Ingress Controller
Ingress Controller		
CoreDNS		
Virtual Kubelet		

Box 1: Helm -

To create the ingress controller, use Helm to install nginx-ingress.

Box 2: kubectl -

To find the cluster IP address of a Kubernetes pod, use the kubectl get pod command on your local machine, with the option -o wide .

Box 3: Ingress Controller -

An ingress controller is a piece of software that provides reverse proxy, configurable traffic routing, and TLS termination for Kubernetes services. Kubernetes ingress resources are used to configure the ingress rules and routes for individual Kubernetes services.

Incorrect Answers:

Virtual Kubelet: Virtual Kubelet is an open-source Kubernetes kubelet implementation that masquerades as a kubelet. This allows Kubernetes nodes to be backed by Virtual Kubelet providers such as serverless cloud container platforms.

CoreDNS: CoreDNS is a flexible, extensible DNS server that can serve as the Kubernetes cluster DNS. Like Kubernetes, the CoreDNS project is hosted by the

CNCF.

Reference:

<https://docs.microsoft.com/en-us/bs-cyrl-ba/azure/aks/ingress-basic> <https://www.digitalocean.com/community/tutorials/how-to-inspect-kubernetes-networking>

by  Leandromellor at Nov. 10, 2020, 9:59 a.m.

EXAM AZ-204 TOPIC 3 QUESTION 16 DISCUSSION

DRAG DROP -

You are implementing an order processing system. A point of sale application publishes orders to topics in an Azure Service Bus queue. The Label property for the topic includes the following data:

Property	Description
ShipLocation	the country/region where the order will be shipped
CorrelationId	a priority value for the order
Quantity	a user-defined field that stores the quantity of items in an order
AuditedAt	a user-defined field that records the date an order is audited

The system has the following requirements for subscriptions:

Subscription type	Comments
FutureOrders	This subscription is reserved for future use and must not receive any orders
HighPriorityOrders	Handle all high priority orders and international orders
InternationalOrders	Handle orders where the country/region is not United States
HighQuantityOrders	Handle only orders with quantities greater than 100 units
AllOrders	This subscription is used for auditing purposes. This subscription must receive every single order. AllOrders has an Action defined that updates the AuditedAt property to include the date and time it was received by the subscription.

You need to implement filtering and maximize throughput while evaluating filters.

Which filter types should you implement? To answer, drag the appropriate filter types to the correct subscriptions. Each filter 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:

Filter types	Answer Area
SQLFilter	Subscription: FutureOrders Filter type: filter type
CorrelationFilter	Subscription: HighPriorityOrders Filter type: filter type
No Filter	Subscription: InternationalOrders Filter type: filter type
	Subscription: HighQuantityOrders Filter type: filter type
	Subscription: AllOrders Filter type: filter type

Filter types	Answer Area
Suggested Answer: SQLFilter CorrelationFilter No Filter	Subscription: FutureOrders Filter type: SQLFilter
	Subscription: HighPriorityOrders Filter type: CorrelationFilter
	Subscription: InternationalOrders Filter type: SQLFilter
	Subscription: HighQuantityOrders Filter type: SQLFilter
	Subscription: AllOrders Filter type: No Filter

FutureOrders: SQLFilter -

HighPriorityOrders: CorrelationFilter

CorrelationID only -

InternationalOrders: SQLFilter -

Country NOT USA requires an SQL Filter

HighQuantityOrders: SQLFilter -

Need to use relational operators so an SQL Filter is needed.

AllOrders: No Filter -

SQL Filter: SQL Filters - A SqlFilter holds a SQL-like conditional expression that is evaluated in the broker against the arriving messages' user-defined properties and system properties. All system properties must be prefixed with sys. in the conditional expression. The SQL-language subset for filter conditions tests for the existence of properties (EXISTS), as well as for null-values (IS NULL), logical NOT/AND/OR, relational operators, simple numeric arithmetic, and simple text pattern matching with LIKE.

Correlation Filters - A CorrelationFilter holds a set of conditions that are matched against one or more of an arriving message's user and system properties. A common use is to match against the CorrelationId property, but the application can also choose to match against ContentType, Label, MessageId, ReplyTo,

ReplyToSessionId, SessionId, To, and any user-defined properties. A match exists when an arriving message's value for a property is equal to the value specified in the correlation filter. For string expressions, the comparison is case-sensitive. When specifying multiple match properties, the filter combines them as a logical

AND condition, meaning for the filter to match, all conditions must match.

Boolean filters - The TrueFilter and FalseFilter either cause all arriving messages (true) or none of the arriving messages (false) to be selected for the subscription.

Reference:

<https://docs.microsoft.com/en-us/azure/service-bus-messaging/topic-filters>

by  jishnujrk at Nov. 15, 2020, 1:04 p.m.

EXAM AZ-204 TOPIC 3 QUESTION 17 DISCUSSION

DRAG DROP -

Your company has several websites that use a company logo image. You use Azure Content Delivery Network (CDN) to store the static image. You need to determine the correct process of how the CDN and the Point of Presence (POP) server will distribute the image and list the items in the correct order.

In which order do the actions occur? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Actions

If no edge servers in the POP have the image in cache, the POP requests the file from the origin server.

A user requests the image from the CDN URL. The DNS routes the request to the best performing POP location.

Subsequent requests for the file may be directed to the same POP using the CDN logo image URL. The POP edge server returns the file from cache if the TTL has not expired.

The origin server returns the logo image to an edge server in the POP. An edge server in the POP caches the logo image and returns the image to the client.

Answer Area



Actions

If no edge servers in the POP have the image in cache, the POP requests the file from the origin server.

A user requests the image from the CDN URL. The DNS routes the request to the best performing POP location.

Subsequent requests for the file may be directed to the same POP using the CDN logo image URL. The POP edge server returns the file from cache if the TTL has not expired.

The origin server returns the logo image to an edge server in the POP. An edge server in the POP caches the logo image and returns the image to the client.

Answer Area

A user requests the image from the CDN URL. The DNS routes the request to the best performing POP location.

If no edge servers in the POP have the image in cache, the POP requests the file from the origin server.

The origin server returns the logo image to an edge server in the POP. An edge server in the POP caches the logo image and returns the image to the client.

Subsequent requests for the file may be directed to the same POP using the CDN logo image URL. The POP edge server returns the file from cache if the TTL has not expired.

Suggested Answer:

Step 1: A user requests the image..

A user requests a file (also called an asset) by using a URL with a special domain name, such as <endpoint name>.azureedge.net. This name can be an endpoint hostname or a custom domain. The DNS routes the request to the best performing POP location, which is usually the POP that is geographically closest to the user.

Step 2: If no edge servers in the POP have the..

If no edge servers in the POP have the file in their cache, the POP requests the file from the origin server. The origin server can be an Azure Web App, Azure

Cloud Service, Azure Storage account, or any publicly accessible web server.

Step 3: The origin server returns the..

The origin server returns the file to an edge server in the POP.

An edge server in the POP caches the file and returns the file to the original requestor (Alice). The file remains cached on the edge server in the POP until the time-to-live (TTL) specified by its HTTP headers expires. If the origin server didn't specify a TTL, the default TTL is seven days.

Step 4: Subsequent requests for..

Additional users can then request the same file by using the same URL that the original user used, and can also be directed to the same POP.

If the TTL for the file hasn't expired, the POP edge server returns the file directly from the cache. This process results in a faster, more responsive user experience.

Reference:

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

by  Ash111 at Nov. 17, 2020, 9:20 p.m.

 EXAM AZ-204 TOPIC 3 QUESTION 18 DISCUSSION

You are developing an Azure Cosmos DB solution by using the Azure Cosmos DB SQL API. The data includes millions of documents. Each document may contain hundreds of properties.

The properties of the documents do not contain distinct values for partitioning. Azure Cosmos DB must scale individual containers in the database to meet the performance needs of the application by spreading the workload evenly across all partitions over time.

You need to select a partition key.

Which two partition keys can you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. a single property value that does not appear frequently in the documents
- B. a value containing the collection name
- C. a single property value that appears frequently in the documents
- D. a concatenation of multiple property values with a random suffix appended
- E. a hash suffix appended to a property value

Suggested Answer: DE

Community vote distribution

DE (93%)

7%

by  TEMPKAKAM at Nov. 19, 2020, 10:57 a.m.

EXAM AZ-204 TOPIC 3 QUESTION 19 DISCUSSION

HOTSPOT -

You are developing an Azure-hosted e-commerce web application. The application will use Azure Cosmos DB to store sales orders. You are using the latest SDK to manage the sales orders in the database.

You create a new Azure Cosmos DB instance. You include a valid endpoint and valid authorization key to an appSettings.json file in the code project.

You are evaluating the following application code: (Line number are included for reference only.)

```
01 using System;
02 using System.Threading.Tasks;
03 using Microsoft.Azure.Cosmos;
04 using Microsoft.Extensions.Configuration;
05 using Newtonsoft.Json;
06 namespace SalesOrders
07 {
08     public class SalesOrder
09     {
10         ...
11     }
12     internal class ManageSalesOrders
13     {
14         private static async Task GenerateSalesOrders()
15         {
16             IConfigurationRoot configuration = new ConfigurationBuilder().AddJsonFile("appSettings.json").Build();
17             string endpoint = configuration["EndPointUrl"];
18             string authKey = configuration["AuthorizationKey"];
19             using CosmosClient client = new CosmosClient(endpoint, authKey);
20             Database database = null;
21             using (await client.GetDatabase("SalesOrders").DeleteStreamAsync()) { }
22             database = await client.CreateDatabaseIfNotExistsAsync("SalesOrders");
23             Container container1 = await database.CreateContainerAsync(id: "Container1", partitionKeyPath: "/AccountNumber");
24             Container container2 = await database.CreateContainerAsync(id: "Container2", partitionKeyPath: "/AccountNumber");
25             SalesOrder salesOrder1 = new SalesOrder() { AccountNumber = "123456" };
26             await container1.CreateItemAsync(salesOrder1, new PartitionKey(salesOrder1.AccountNumber));
27             SalesOrder salesOrder2 = new SalesOrder() { AccountNumber = "654321" };
28             await container1.CreateItemAsync(salesOrder2, new PartitionKey(salesOrder2.AccountNumber));
29             SalesOrder salesOrder3 = new SalesOrder() { AccountNumber = "109876" };
30             await container2.CreateItemAsync(salesOrder3, new PartitionKey(salesOrder3.AccountNumber));
31             _ = await database.CreateUserAsync("User1");
32             User user1 = database.GetUser("User1");
33             _ = await user1.ReadAsync();
34         }
35     }
36 }
```

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
A database named SalesOrders is created. The database will include two containers.	<input type="radio"/>	<input type="radio"/>
Container1 will contain two items.	<input type="radio"/>	<input type="radio"/>
Container2 will contain one item.	<input type="radio"/>	<input type="radio"/>

Answer Area

	Statements	Yes	No
Suggested Answer:	A database named SalesOrders is created. The database will include two containers.	<input checked="" type="radio"/>	<input type="radio"/>
	Container1 will contain two items.	<input checked="" type="radio"/>	<input type="radio"/>
	Container2 will contain one item.	<input checked="" type="radio"/>	<input type="radio"/>

Box 1: Yes -

The `createDatabaseIfNotExistsAsync` method checks if a database exists, and if it doesn't, create it.

The `Database.CreateContainerAsync` method creates a container as an asynchronous operation in the Azure Cosmos service.

Box 2: Yes -

The `CosmosContainer.CreateItemAsync` method creates an item as an asynchronous operation in the Azure Cosmos service.

Box 3: Yes -

Reference:

<https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.cosmos.cosmosclient.createdatabaseifnotexistsasync>

<https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.cosmos.database.createcontainerasync> <https://docs.microsoft.com/en-us/dotnet/api/azure.cosmos.cosmoscontainer.createitemasync>

by  [mlantonis](#) at May 31, 2021, 7 p.m.

 EXAM AZ-204 TOPIC 3 QUESTION 2 DISCUSSION

You are building a website that uses Azure Blob storage for data storage. You configure Azure Blob storage lifecycle to move all blobs to the archive tier after 30 days.

Customers have requested a service-level agreement (SLA) for viewing data older than 30 days.

You need to document the minimum SLA for data recovery.

Which SLA should you use?

- A. at least two days
- B. between one and 15 hours
- C. at least one day
- D. between zero and 60 minutes

Suggested Answer: B

Community vote distribution

B (92%)	8%
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by  homimi6115 at Nov. 18, 2020, 11:29 p.m.

EXAM AZ-204 TOPIC 3 QUESTION 20 DISCUSSION

DRAG DROP -

You develop an Azure solution that uses Cosmos DB.

The current Cosmos DB container must be replicated and must use a partition key that is optimized for queries.

You need to implement a change feed processor solution.

Which change feed processor components should you use? To answer, drag the appropriate components to the correct requirements. Each component 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 the content.

NOTE: Each correct selection is worth one point.

Select and Place:

Components	Answer Area	Requirement	Component
Host		Store the data from which the change feed is generated.	Component
Delegate		Coordinate processing of the change feed across multiple workers.	Component
Lease container		Use the change feed processor to listen for changes.	Component
Monitored container		Handle each batch of changes.	Component

Suggested Answer:

Components	Answer Area	Requirement	Component
		Store the data from which the change feed is generated.	Monitored container
		Coordinate processing of the change feed across multiple workers.	Lease container
		Use the change feed processor to listen for changes.	Host
		Handle each batch of changes.	Delegate

Box 1: The monitored container -

The monitored container has the data from which the change feed is generated. Any inserts and updates to the monitored container are reflected in the change feed of the container.

Box 2: The lease container -

The lease container acts as a state storage and coordinates processing the change feed across multiple workers. The lease container can be stored in the same account as the monitored container or in a separate account.

Box 3: The host: A host is an application instance that uses the change feed processor to listen for changes. Multiple instances with the same lease configuration can run in parallel, but each instance should have a different instance name.

Box 4: The delegate -

The delegate is the code that defines what you, the developer, want to do with each batch of changes that the change feed processor reads.

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/change-feed-processor>

EXAM AZ-204 TOPIC 3 QUESTION 21 DISCUSSION

HOTSPOT -

You are developing a web application that will use Azure Storage. Older data will be less frequently used than more recent data.

You need to configure data storage for the application. You have the following requirements:

- Retain copies of data for five years.
- Minimize costs associated with storing data that is over one year old.
- Implement Zone Redundant Storage for application data.

What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Requirement	Solution
Configure an Azure Storage account	<ul style="list-style-type: none"><input type="checkbox"/> Implement Blob Storage<input type="checkbox"/> Implement Azure Cosmos DB<input type="checkbox"/> Implement Storage (general purpose v1)<input type="checkbox"/> Implement StorageV2 (general purpose v2)
Configure data retention	<ul style="list-style-type: none"><input type="checkbox"/> Snapshot blobs and move them to the archive tier<input type="checkbox"/> Set a lifecycle management policy to move blobs to the cool tier<input type="checkbox"/> Use AzCopy to copy the data to an on-premises device for backup<input type="checkbox"/> Set a lifecycle management policy to move blobs to the archive tier

Suggested Answer:

Answer Area

Requirement	Solution
Configure an Azure Storage account	<ul style="list-style-type: none"><input type="checkbox"/> Implement Blob Storage<input type="checkbox"/> Implement Azure Cosmos DB<input type="checkbox"/> Implement Storage (general purpose v1)<input type="checkbox"/> Implement StorageV2 (general purpose v2)
Configure data retention	<ul style="list-style-type: none"><input type="checkbox"/> Snapshot blobs and move them to the archive tier<input type="checkbox"/> Set a lifecycle management policy to move blobs to the cool tier<input type="checkbox"/> Use AzCopy to copy the data to an on-premises device for backup<input type="checkbox"/> Set a lifecycle management policy to move blobs to the archive tier

Reference:

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers> <https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy?toc=/azure/storage/blobs/toc.json>

EXAM AZ-204 TOPIC 3 QUESTION 22 DISCUSSION

HOTSPOT -

A company develops a series of mobile games. All games use a single leaderboard service.

You have the following requirements:

- Code must be scalable and allow for growth.
- Each record must consist of a playerId, gameId, score, and time played.
- When users reach a new high score, the system will save the new score using the SaveScore function below.

Each game is assigned an Id based on the series title.

You plan to store customer information in Azure Cosmos DB. The following data already exists in the database:

PartitionKey	RowKey	Email
Harp	Walter	wharp@contoso.com
Smith	Steve	ssmith@contoso.com
Smith	Jeff	jsmith@contoso.com

You develop the following code to save scores in the data store. (Line numbers are included for reference only.)

```
01 public void SaveScore(string gameId, string playerId, int score, long timePlayed)
02 {
03     CloudStorageAccount storageAccount = CloudStorageAccount.Parse(connectionString);
04     CloudTableClient tableClient = storageAccount.CreateCloudTableClient();
05     CloudTable table = tableClient.GetTableReference("scoreTable");
06     table.CreateIfNotExists();
07     var scoreRecord = new PlayerScore(gameId, playerId, score, timePlayed);
08     TableOperation insertOperation = TableOperation.Insert(scoreRecord);
09     table.Execute(insertOperation);
10 }
```

You develop the following code to query the database. (Line numbers are included for reference only.)

```
01 CloudTableClient tableClient = account.CreateCloudTableClient();
02 CloudTable table = tableClient.GetTableReference("people");
03 TableQuery<CustomerEntity> query = new TableQuery<CustomerEntity>()
04     .Where(TableQuery.CombineFilters(
05         TableQuery.GenerateFilterCondition("PartitionKey", QueryComparisons.Equal, "Smith"),
06         TableOperators.And,
07         TableQuery.GenerateFilterCondition("Email", QueryComparisons.Equal, "ssmith@contoso.com")
08     ));
09 await table.ExecuteQuerySegmentedAsync<CustomerEntity>(query, null);
```

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
SaveScore will work with Cosmos DB.	<input type="radio"/>	<input type="radio"/>
SaveScore will update and replace a record if one already exists with the same playerId and gameId.	<input type="radio"/>	<input type="radio"/>
Leader board data for the game will be automatically partitioned using gameId.	<input type="radio"/>	<input type="radio"/>
SaveScore will store the values for the gameId and playerId parameters in the database.	<input type="radio"/>	<input type="radio"/>

Answer Area

Statements	Yes	No
SaveScore will work with Cosmos DB.	<input checked="" type="radio"/>	<input type="radio"/>
Suggested Answer: SaveScore will update and replace a record if one already exists with the same playerId and gameId.	<input type="radio"/>	<input checked="" type="radio"/>
Leader board data for the game will be automatically partitioned using gameId.	<input type="radio"/>	<input checked="" type="radio"/>
SaveScore will store the values for the gameId and playerId parameters in the database.	<input checked="" type="radio"/>	<input type="radio"/>

Box 1: Yes -

Create a table.

A CloudTableClient object lets you get reference objects for tables and entities. The following code creates a CloudTableClient object and uses it to create a new

CloudTable object, which represents a table

```
// Retrieve storage account from connection-string.
```

```
CloudStorageAccount storageAccount =
```

```
CloudStorageAccount.parse(storageConnectionString);
```

```
// Create the table client.
```

```
CloudTableClient tableClient = storageAccount.createCloudTableClient();
```

```
// Create the table if it doesn't exist.
```

```
String tableName = "people";
```

```
CloudTable cloudTable = tableClient.getTableReference(tableName); cloudTable.createIfNotExists();
```

Box 2: No -

New records are inserted with TableOperation.insert. Old records are not updated.

To update old records TableOperation.insertOrReplace should be used instead.

Box 3: No -

Box 4: Yes -

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/table-storage-how-to-use-java>

by  BogdanG at April 26, 2022, 9:54 a.m.

 EXAM AZ-204 TOPIC 3 QUESTION 23 DISCUSSION

You develop and deploy a web application to Azure App Service. The application accesses data stored in an Azure Storage account. The account contains several containers with several blobs with large amounts of data. You deploy all Azure resources to a single region. You need to move the Azure Storage account to the new region. You must copy all data to the new region.

What should you do first?

- A. Export the Azure Storage account Azure Resource Manager template
- B. Initiate a storage account failover
- C. Configure object replication for all blobs
- D. Use the AzCopy command line tool
- E. Create a new Azure Storage account in the current region
- F. Create a new subscription in the current region

Suggested Answer: A

Community vote distribution

A (100%)

by  BogdanG at April 26, 2022, 9:56 a.m.

EXAM AZ-204 TOPIC 3 QUESTION 24 DISCUSSION

HOTSPOT -

You are developing an application to collect the following telemetry data for delivery drivers: first name, last name, package count, item id, and current location coordinates. The app will store the data in Azure Cosmos DB.

You need to configure Azure Cosmos DB to query the data.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Configuration Parameter	Value
Azure Cosmos DB API	<input type="checkbox"/> Gremlin <input type="checkbox"/> Table API <input checked="" type="checkbox"/> Core (SQL)
Azure Cosmos DB partition key	<input type="checkbox"/> first name <input type="checkbox"/> last name <input type="checkbox"/> package count <input type="checkbox"/> item id

Answer Area

Configuration Parameter	Value
Azure Cosmos DB API	<div style="border: 1px solid black; padding: 5px; width: fit-content;">▼</div>
Suggested Answer:	<div style="border: 1px solid black; padding: 5px; width: fit-content; background-color: #e0f2e0;"><p>Gremlin</p><p>Table API</p><p>Core (SQL)</p></div>

Azure Cosmos DB partition key	<div style="border: 1px solid black; padding: 5px; width: fit-content;">▼</div>
	<div style="border: 1px solid black; padding: 5px; width: fit-content; background-color: #e0f2e0;"><p>first name</p><p>last name</p><p>package count</p><p>item id</p></div>

Box 1: Core (SQL)

Core(SQL) API stores data in document format. It offers the best end-to-end experience as we have full control over the interface, service, and the SDK client libraries. SQL API supports analytics and offers performance isolation between operational and analytical workloads.

Box 2: item id -

item id is a unique identifier and is suitable for the partition key.

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/choose-api>

<https://docs.microsoft.com/en-us/azure/cosmos-db/partitioning-overview>

by  sghaha at April 28, 2022, 4:25 p.m.

EXAM AZ-204 TOPIC 3 QUESTION 25 DISCUSSION

DRAG DROP -

You are implementing an Azure solution that uses Azure Cosmos DB and the latest Azure Cosmos DB SDK. You add a change feed processor to a new container instance.

You attempt to read a batch of 100 documents. The process fails when reading one of the documents. The solution must monitor the progress of the change feed processor instance on the new container as the change feed is read. You must prevent the change feed processor from retrying the entire batch when one document cannot be read.

You need to implement the change feed processor to read the documents.

Which features should you use? To answer, drag the appropriate features to the cored requirements. Each feature 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 cored selection is worth one point.

Select and Place:

Features	Answer Area	Requirement	Feature
Change feed estimator		Monitor the progress of the change feed processor	
Dead-letter queue		Prevent the change feed processor from retrying the entire batch when one document cannot be read	
Deployment unit			
Lease container			

Suggested Answer:

Features	Answer Area	Requirement	Feature
Change feed estimator		Monitor the progress of the change feed processor	Change feed estimator
Dead-letter queue		Prevent the change feed processor from retrying the entire batch when one document cannot be read	Dead-letter queue
Deployment unit			
Lease container			

Box 1: Change feed estimator -

You can use the change feed estimator to monitor the progress of your change feed processor instances as they read the change feed or use the life cycle notifications to detect underlying failures.

Box 2: Dead-letter queue -

To prevent your change feed processor from getting "stuck" continuously retrying the same batch of changes, you should add logic in your delegate code to write documents, upon exception, to a dead-letter queue. This design ensures that you can keep track of unprocessed changes while still being able to continue to process future changes. The dead-letter queue might be another Cosmos container. The exact data store does not matter, simply that the unprocessed changes are persisted.

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/sql/change-feed-processor>

EXAM AZ-204 TOPIC 3 QUESTION 26 DISCUSSION

HOTSPOT -

You are developing an application that uses a premium block blob storage account. The application will process a large volume of transactions daily. You enable

Blob storage versioning.

You are optimizing costs by automating Azure Blob Storage access tiers. You apply the following policy rules to the storage account. (Line numbers are included for reference only.)

```
01 {
02   "rules" : [
03     {
04       "name" : "versionRule",
05       "enabled" : true,
06       "type" : "Lifecycle",
07       "definition" : {
08         "actions" : {
09           "version" : {
10             "tierToCool" : {
11               "daysAfterCreationGreaterThanOrEqual" : 60
12             },
13             "delete" : {
14               "daysAfterCreationGreaterThanOrEqual" : 365
15             }
16           }
17         },
18         "filters" : {
19           "blobTypes" : [ "blockBlob" ], "prefixMatch" : [ "transactions" ]
20         }
21       }
22     }
23   ]
24 }
```

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
Block blobs prefixed with transactions will transition blobs that have not been modified in over 60 days to cool storage, and delete blobs not modified in 365 days	<input type="radio"/>	<input type="radio"/>
Blobs are moved to cool storage if they have not been accessed for 60 days	<input type="radio"/>	<input type="radio"/>
The policy rule tiers previous versions within a container named transactions that are 60 days or older to the cool tier and deletes previous versions that are 365 days or older	<input type="radio"/>	<input type="radio"/>
Blobs will automatically be tiered from cool back to hot if accessed again after being tiered to cool	<input type="radio"/>	<input type="radio"/>

Suggested Answer:

Answer Area

Statements	Yes	No
Block blobs prefixed with transactions will transition blobs that have not been modified in over 60 days to cool storage, and delete blobs not modified in 365 days	<input type="radio"/>	<input checked="" type="radio"/>
Blobs are moved to cool storage if they have not been accessed for 60 days	<input type="radio"/>	<input checked="" type="radio"/>
The policy rule tiers previous versions within a container named transactions that are 60 days or older to the cool tier and deletes previous versions that are 365 days or older	<input checked="" type="radio"/>	<input type="radio"/>
Blobs will automatically be tiered from cool back to hot if accessed again after being tiered to cool	<input checked="" type="radio"/>	<input type="radio"/>

Box 1: No -

Would be true if daysAfterModificationGreaterThan was used, but here daysAfterCreationGreaterThan

Box 2: No -

Would need to use the daysAfterLastAccessTimeGreaterThan predicate.

Box 3: Yes -

Box 4: Yes -

With the lifecycle management policy, you can:

Transition blobs from cool to hot immediately when they are accessed, to optimize for performance.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/blobs/lifecycle-management-overview>

by  Dani_ac7 at Sept. 1, 2022, 9 p.m.

 EXAM AZ-204 TOPIC 3 QUESTION 27 DISCUSSION

An organization deploys Azure Cosmos DB.

You need to ensure that the index is updated as items are created, updated, or deleted.

What should you do?

- A. Set the indexing mode to Lazy.
- B. Set the value of the automatic property of the indexing policy to False.
- C. Set the value of the EnableScanInQuery option to True.
- D. Set the indexing mode to Consistent.

Suggested Answer: *D*

Community vote distribution

D (100%)

by  [finnishr](#) at Sept. 2, 2022, 3:29 p.m.

EXAM AZ-204 TOPIC 3 QUESTION 28 DISCUSSION

You are developing a .Net web application that stores data in Azure Cosmos DB. The application must use the Core API and allow millions of reads and writes.

The Azure Cosmos DB account has been created with multiple write regions enabled. The application has been deployed to the East US2 and Central US regions.

You need to update the application to support multi-region writes.

What are two possible ways to achieve this goal? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Update the ConnectionPolicy class for the Cosmos client and populate the PreferredLocations property based on the geo-proximity of the application.
- B. Update Azure Cosmos DB to use the Strong consistency level. Add indexed properties to the container to indicate region.
- C. Update the ConnectionPolicy class for the Cosmos client and set the UseMultipleWriteLocations property to true.
- D. Create and deploy a custom conflict resolution policy.
- E. Update Azure Cosmos DB to use the Session consistency level. Send the SessionToken property value from the FeedResponse object of the write action to the end-user by using a cookie.

Suggested Answer: AC

Community vote distribution

AC (82%)

CD (18%)

by  Dani_ac7 at Sept. 1, 2022, 9:04 p.m.

 EXAM AZ-204 TOPIC 3 QUESTION 29 DISCUSSION

HOTSPOT -

You are developing a solution to store documents in Azure Blob storage. Customers upload documents to multiple containers. Documents consist of PDF, CSV,

Microsoft Office format and plain text files.

The solution must process millions of documents across hundreds of containers. The solution must meet the following requirements:

- Documents must be categorized by a customer identifier as they are uploaded to the storage account.
- Allow filtering by the customer identifier.
- Allow searching of information contained within a document
- Minimize costs.

You create and configure a standard general-purpose v2 storage account to support the solution.

You need to implement the solution.

What should you implement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Requirement

Search and filter by customer identifier

Solution

	▼
Azure Cognitive Search	
Azure Blob index tags	
Azure Blob inventory policy	
Azure Blob metadata	

Search information inside documents

	▼
Azure Cognitive Search	
Azure Blob index tags	
Azure Blob inventory policy	
Azure Blob metadata	

Suggested Answer:

Answer Area

Requirement

Search and filter by customer identifier

Solution

Azure Cognitive Search
Azure Blob index tags
Azure Blob inventory policy
Azure Blob metadata

Search information inside documents

Azure Cognitive Search
Azure Blob index tags
Azure Blob inventory policy
Azure Blob metadata

Box 1: Azure Blob index tags -

As datasets get larger, finding a specific object in a sea of data can be difficult. Blob index tags provide data management and discovery capabilities by using key-value index tag attributes. You can categorize and find objects within a single container or across all containers in your storage account. As data requirements change, objects can be dynamically categorized by updating their index tags. Objects can remain in-place with their current container organization.

Box 2: Azure Cognitive Search -

Only index tags are automatically indexed and made searchable by the native Blob Storage service. Metadata can't be natively indexed or searched. You must use a separate service such as Azure Search.

Azure Cognitive Search is the only cloud search service with built-in AI capabilities that enrich all types of information to help you identify and explore relevant content at scale. Use cognitive skills for vision, language, and speech, or use custom machine learning models to uncover insights from all types of content.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-manage-find-blobs> <https://azure.microsoft.com/en-us/services/search/>

by  jeanfmc at Sept. 2, 2022, 12:29 p.m.

EXAM AZ-204 TOPIC 3 QUESTION 3 DISCUSSION

HOTSPOT -

You are developing a ticket reservation system for an airline.

The storage solution for the application must meet the following requirements:

- Ensure at least 99.99% availability and provide low latency.
- Accept reservations even when localized network outages or other unforeseen failures occur.
- Process reservations in the exact sequence as reservations are submitted to minimize overbooking or selling the same seat to multiple travelers.
- Allow simultaneous and out-of-order reservations with a maximum five-second tolerance window.

You provision a resource group named `airlineResourceGroup` in the Azure South-Central US region.

You need to provision a SQL API Cosmos DB account to support the app.

How should you complete the Azure CLI commands? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
resourceGroupName= 'airlineResourceGroup'  
name= 'docdb-airline-reservations'  
databaseName= 'docdb-tickets-database'  
collectionName= 'docdb-tickets-collection'  
consistencyLevel=
```

Strong
Eventual
ConsistentPrefix
BoundedStaleness

```
az cosmosdb create \  
--name $name \  
  
--enable-virtual-network true \  
--enable-automatic-failover true \  
--kind 'GlobalDocumentDB' \  
--kind 'MongoDB' \  
  
--resource-group $resourceGroupName \  
--max-interval 5 \  
  
--locations 'southcentralus'
```

```
--locations 'eastus'  
--locations 'southcentralus=0 eastus=1 westus=2'  
--locations 'southcentralus=0'  
--default-consistency-level = $consistencylevel
```

Answer Area

```
resourceGroupName='airlineResourceGroup'  
name='docdb-airline-reservations'  
databaseName='docdb-tickets-database'  
collectionName='docdb-tickets-collection'  
consistencyLevel=
```

Strong
Eventual
ConsistentPrefix
BoundedStaleness

```
az cosmosdb create \  
--name $name \  
  
--enable-virtual-network true \  
--enable-automatic-failover true \  
--kind 'GlobalDocumentDB' \  
--kind 'MongoDB' \  
  
--resource-group $resourceGroupName \  
--max-interval 5 \  
  
--locations 'southcentralus' \  
--locations 'eastus' \  
--locations 'southcentralus=0 eastus=1 westus=2' \  
--locations 'southcentralus=0'
```

Box 1: BoundedStaleness -

Bounded staleness: The reads are guaranteed to honor the consistent-prefix guarantee. The reads might lag behind writes by at most "K" versions (that is, "updates") of an item or by "T" time interval. In other words, when you choose bounded staleness, the "staleness" can be configured in two ways:

The number of versions (K) of the item

The time interval (T) by which the reads might lag behind the writes

Incorrect Answers:

Strong -

Strong consistency offers a linearizability guarantee. Linearizability refers to serving requests concurrently. The reads are guaranteed to return the most recent committed version of an item. A client never sees an uncommitted or partial write. Users are always guaranteed to read the latest committed write.

Box 2: --enable-automatic-failover true\

For multi-region Cosmos accounts that are configured with a single-write region, enable automatic-failover by using Azure CLI or Azure portal. After you enable automatic failover, whenever there is a regional disaster, Cosmos DB will automatically failover your account.

Question: Accept reservations event when localized network outages or other unforeseen failures occur.

Box 3: --locations'southcentralus=0 eastus=1 westus=2

Need multi-region.

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/consistency-levels> <https://github.com/MicrosoftDocs/azure-docs/blob/master/articles/cosmos-db/manage-with-cli.md>

EXAM AZ-204 TOPIC 3 QUESTION 30 DISCUSSION

HOTSPOT -

You are developing a web application by using the Azure SDK. The web application accesses data in a zone-redundant Block Blob Storage storage account.

The application must determine whether the data has changed since the application last read the data. Update operations must use the latest data changes when writing data to the storage account.

You need to implement the update operations.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Code evaluation	Value
HTTP Header value	<input type="checkbox"/> ETag <input type="checkbox"/> Last Modified <input type="checkbox"/> VersionId
Conditional header	<input type="checkbox"/> If-Match <input type="checkbox"/> If-Modified-Since <input type="checkbox"/> If-None-Match

Answer Area

Code evaluation	Value
HTTP Header value	<input type="checkbox"/> ETag <input checked="" type="checkbox"/> Last Modified <input type="checkbox"/> VersionId
Conditional header	<input type="checkbox"/> If-Match <input checked="" type="checkbox"/> If-Modified-Since <input type="checkbox"/> If-None-Match

Box 1: Last Modified -

The Last-Modified response HTTP header contains a date and time when the origin server believes the resource was last modified. It is used as a validator to determine if the resource is the same as the previously stored one. Less accurate than an ETag header, it is a fallback mechanism.

Box 2: If-Modified-Since -

Conditional Header If-Modified-Since:

A DateTime value. Specify this header to perform the operation only if the resource has been modified since the specified time.

Incorrect:

Not ETag/If-Match -

Conditional Header If-Match:

An ETag value. Specify this header to perform the operation only if the resource's ETag matches the value specified. For versions 2011-08-18 and newer, the

ETag can be specified in quotes.

Reference:

<https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Last-Modified> <https://docs.microsoft.com/en-us/rest/api/storageservices/specifying-conditional-headers-for-blob-service-operations>

by  [finnishr](#) at Sept. 2, 2022, 3:41 p.m.

EXAM AZ-204 TOPIC 3 QUESTION 31 DISCUSSION

HOTSPOT -

An organization deploys a blob storage account. Users take multiple snapshots of the blob storage account over time.

You need to delete all snapshots of the blob storage account. You must not delete the blob storage account itself.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
Delete (Azure.Storage.Blobs.Models.DeleteSnapshotsOption  
snapshotsOption = Azure.Storage.Blobs.Models. . 

|                       |
|-----------------------|
| DeleteIfExists        |
| DeleteSnapshotsOption |
| WithSnapshot          |
| WithSnapshotCore      |



|                  |
|------------------|
| IncludeSnapshots |
| None             |
| OnlySnapshots    |


```

Suggested Answer:

Answer Area

```
Delete (Azure.Storage.Blobs.Models.DeleteSnapshotsOption  
snapshotsOption = Azure.Storage.Blobs.Models. . 

|                       |
|-----------------------|
| DeleteIfExists        |
| DeleteSnapshotsOption |
| WithSnapshot          |
| WithSnapshotCore      |



|                  |
|------------------|
| IncludeSnapshots |
| None             |
| OnlySnapshots    |


```

Box 1: DeleteSnapshotsOption -

Sample code in powershell:

```
//dont forget to add the include snapshots :)  
await batchClient.DeleteBlobsAsync(listofURIforBlobs,  
Azure.Storage.Blobs.Models.DeleteSnapshotsOption.IncludeSnapshots);
```

Sample code in .Net:

```
// Create a batch with three deletes  
BlobBatchClient batchClient = service.GetBlobBatchClient();  
BlobBatch batch = batchClient.CreateBatch();  
batch.DeleteBlob(foo.Uri, DeleteSnapshotsOption.IncludeSnapshots); batch.DeleteBlob(bar.Uri, DeleteSnapshotsOption.OnlySnapshots);  
batch.DeleteBlob(baz.Uri);  
// Submit the batch  
batchClient.SubmitBatch(batch);
```

Box 2: OnlySnapshots -

Reference:

<https://docs.microsoft.com/en-us/dotnet/api/overview/azure/storage.blobs.batch-readme>

<https://stackoverflow.com/questions/39471212/programmatically-delete-azure-blob-storage-objects-in-bulks>

by  finnishr at Sept. 2, 2022, 3:45 p.m.

EXAM AZ-204 TOPIC 3 QUESTION 32 DISCUSSION

HOTSPOT -

An organization deploys a blob storage account. Users take multiple snapshots of the blob storage account over time.

You need to delete all snapshots of the blob storage account. You must not delete the blob storage account itself.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

<code>delete_blob (</code>	<input type="text"/>	<code>)</code>
<input type="text"/>	=	<input type="text"/>
<code>delete_container</code>	<input type="text"/>	<code>)</code>
<code>delete_snapshots</code>	<input type="text"/>	
<code>snapshot_blob</code>	<input type="text"/>	
<code>snapshots_present</code>	<input type="text"/>	

Suggested Answer:

Answer Area

<code>delete_blob (</code>	<input type="text"/>	<code>)</code>
<input type="text"/>	=	<input type="text"/>
<code>delete_container</code>	<input type="text"/>	
<code>delete_snapshots</code>	<input type="text"/>	
<code>snapshot_blob</code>	<input type="text"/>	
<code>snapshots_present</code>	<input type="text"/>	

Box 1: `delete_snapshots` -

```
# Delete only the snapshot (blob itself is retained)
blob_client.delete_blob(delete_snapshots="only")
```

Box 2: `only` -

Reference:

https://github.com/Azure/azure-sdk-for-python/blob/main/sdk/storage/azure-storage-blob/samples/blob_samples_common.py

by  [kampatra](#) at Sept. 13, 2022, 6:08 p.m.

 EXAM AZ-204 TOPIC 3 QUESTION 33 DISCUSSION

HOTSPOT

You are developing an application that monitors data added to an Azure Blob storage account.

You need to process each change made to the storage account.

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

NOTE: Each correct selection is worth one point.

Answer Area

```
var changeFeedClient = new BlobServiceClient("...").GetChangeFeedClient();
var x = default(string);
while (true)
{
    var changeFeed = changeFeedClient.
        GetChanges()
        GetChangesAsync()
        GetChanges(x).AsPages()
        GetChanges(x).GetEnumerator()

    foreach (var c in changeFeed)
    {
        x = c.
            ContinuationToken
            GetRawResponse().ReasonPhrase
            Values.Max(x => x.EventTime).ToString()
            Values.Min(x => x.EventTime).ToString()

        ProcessChanges(c.Values);
    }
}
```

Answer Area

```
var changeFeedClient = new BlobServiceClient("...").GetChangeFeedClient();
var x = default(string);
while (true)
{
    var changeFeed = changeFeedClient.
        GetChanges()
        GetChangesAsync()
        GetChanges(x).AsPages()
        GetChanges(x).GetEnumerator()
```

Suggested Answer:

```
foreach (var c in changeFeed)
{
    x = c.
        ContinuationToken
        GetRawResponse().ReasonPhrase
        Values.Max(x => x.EventTime).ToString()
        Values.Min(x => x.EventTime).ToString()

    ProcessChanges(c.Values);
}
```

by chettir01 at Jan. 8, 2023, 9:40 p.m.

EXAM AZ-204 TOPIC 3 QUESTION 34 DISCUSSION

HOTSPOT

You develop an application that sells AI generated images based on user input. You recently started a marketing campaign that displays unique ads every second day.

Sales data is stored in Azure Cosmos DB with the date of each sale being stored in a property named 'whenFinished'.

The marketing department requires a view that shows the number of sales for each unique ad.

You need to implement the query for the view.

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

NOTE: Each correct selection is worth one point.

SELECT

max(c.whenFinished)
sum(c.whenFinished)
count(c.whenFinished)

DateTimeBin(c.whenFinished, 'day', 2)
DateTimePart(c.whenFinished, 'day', 2)
DateTimeBin(c.whenFinished, 'hour', 12)
DateTimePart(c.whenFinished, 'hour', 12)

FROM c

group by

DateTimeBin(c.whenFinished, 'day', 2)
DateTimePart(c.whenFinished, 'day', 2)
DateTimeBin(c.whenFinished, 'hour', 12)
DateTimePart(c.whenFinished, 'hour', 12)

SELECT

max(c.whenFinished)
sum(c.whenFinished)
count(c.whenFinished)

DateTimeBin(c.whenFinished, 'day', 2)
DateTimePart(c.whenFinished, 'day', 2)
DateTimeBin(c.whenFinished, 'hour', 12)
DateTimePart(c.whenFinished, 'hour', 12)

Suggested Answer:

FROM c

group by

DateTimeBin(c.whenFinished, 'day', 2)
DateTimePart(c.whenFinished, 'day', 2)
DateTimeBin(c.whenFinished, 'hour', 12)
DateTimePart(c.whenFinished, 'hour', 12)

EXAM AZ-204 TOPIC 3 QUESTION 35 DISCUSSION

HOTSPOT

You implement an Azure solution to include Azure Cosmos DB, the latest Azure Cosmos DB SDK, and the Core (SQL) API. You also implement a change feed processor on a new container instance by using the Azure Functions trigger for Azure Cosmos DB.

A large batch of documents continues to fail when reading one of the documents in the batch. The same batch of documents is continuously retried by the triggered function and a new batch of documents must be read.

You need to implement the change feed processor to read the documents.

Which feature should you implement? To answer, select the appropriate features in the answer area.

NOTE: Each correct selection is worth one point.

Requirement

Read a new batch of documents while keeping track of the failing batch of documents.

Handle errors in the change feed processor.

Feature

- Lease container
- Dead-letter queue
- Life-cycle notifications
- Change feed estimator

- Lease container
- Dead-letter queue
- Life-cycle notifications
- Change feed estimator

Requirement

Read a new batch of documents while keeping track of the failing batch of documents.

Suggested Answer:

Handle errors in the change feed processor.

Feature

- Lease container
- Dead-letter queue
- Life-cycle notifications
- Change feed estimator

- Dead-letter queue
- Lease container
- Life-cycle notifications
- Change feed estimator

by  imanonion at Jan. 9, 2023, 3:18 p.m.

EXAM AZ-204 TOPIC 3 QUESTION 36 DISCUSSION

You are developing an application to store business-critical data in Azure Blob storage.

The application must meet the following requirements:

- Data must not be modified or deleted for a user-specified interval.
- Data must be protected from overwrites and deletes.
- Data must be written once and allowed to be read many times.

You need to protect the data in the Azure Blob storage account.

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

NOTE: Each correct selection is worth one point.

- A. Configure a time-based retention policy for the storage account.
- B. Create an account shared-access signature (SAS).
- C. Enable the blob change feed for the storage account.
- D. Enable version-level immutability support for the storage account.
- E. Enable point-in-time restore for containers in the storage account.
- F. Create a service shared-access signature (SAS).

Suggested Answer: AD

Community vote distribution

AD (86%)	7%
----------	----

by  linhbg at Jan. 8, 2023, 3:24 p.m.

 EXAM AZ-204 TOPIC 3 QUESTION 37 DISCUSSION

You are updating an application that stores data on Azure and uses Azure Cosmos DB for storage. The application stores data in multiple documents associated with a single username.

The application requires the ability to update multiple documents for a username in a single ACID operation.

You need to configure Azure Cosmos DB.

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

NOTE: Each correct selection is worth one point.

- A. Create a collection sharded on username to store documents.
- B. Configure Azure Cosmos DB to use the Gremlin API.
- C. Create an unsharded collection to store documents.
- D. Configure Azure Cosmos DB to use the MongoDB API.

Suggested Answer: CD

Community vote distribution

CD (100%)

by  imanonion at Jan. 9, 2023, 3:39 p.m.

 EXAM AZ-204 TOPIC 3 QUESTION 38 DISCUSSION

You develop Azure solutions.

You must connect to a No-SQL globally-distributed database by using the .NET API.

You need to create an object to configure and execute requests in the database.

Which code segment should you use?

A. database_name = 'MyDatabase'

```
database = client.create_database_if_not_exists(id=database_name)
```

B. client = CosmosClient(endpoint, key)

C. container_name = 'MyContainer'

```
container = database.create_container_if_not_exists(
```

```
id=container_name, partition_key=PartitionKey(path="/lastName"), offer_throughput=400 )
```

Suggested Answer: B

Community vote distribution

B (100%)

by  [Nhiendo](#) at Jan. 7, 2023, 2:22 p.m.

 EXAM AZ-204 TOPIC 3 QUESTION 39 DISCUSSION

You develop a web application that provides access to legal documents that are stored on Azure Blob Storage with version-level immutability policies. Documents are protected with both time-based policies and legal hold policies. All time-based retention policies have the AllowProtectedAppendWrites property enabled.

You have a requirement to prevent the user from attempting to perform operations that would fail only when a legal hold is in effect and when all other policies are expired.

You need to meet the requirement.

Which two operations should you prevent? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. adding data to documents
- B. deleting documents
- C. creating documents
- D. overwriting existing documents

Suggested Answer: *BD*

Community vote distribution

BD (100%)

by  [halfway](#) at April 18, 2023, 12:07 p.m.

EXAM AZ-204 TOPIC 3 QUESTION 4 DISCUSSION

HOTSPOT -

You are preparing to deploy a Python website to an Azure Web App using a container. The solution will use multiple containers in the same container group. The

Dockerfile that builds the container is as follows:

```
FROM python:3
ADD website.py
CMD [ "python", "./website.py"]
```

You build a container by using the following command. The Azure Container Registry instance named images is a private registry.

```
docker build -t images.azurecr.io/website:v1.0.0
```

The user name and password for the registry is admin.

The Web App must always run the same version of the website regardless of future builds.

You need to create an Azure Web App to run the website.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
az configure --defaults web=website
az configure --defaults group=website
az appservice plan create --name websitePlan
```

--sku SHARED
--tags container
--sku B1 --hyper-v
--sku B1 --is-linux

```
az webapp create --plan websitePlan
```

--deployment-source-url images.azurecr.io/website:v1.0.0
--deployment-source-url images.azurecr.io/website:latest
--deployment-container-image-name images.azurecr.io/website:v1.0.0
--deployment-container-image-name images.azurecr.io/website:latest

```
az webapp config
```

set --python-version 2.7 --generic-configurations user=admin password=admin
set --python-version 3.6 --generic-configurations user=admin password=admin
container set --docker-registry-server-url https://images.azurecr.io -u admin -p admin
container set --docker-registry-server-url https://images.azurecr.io/website -u admin -p admin

Suggested Answer:

Answer Area

```
az configure --defaults web=website
az configure --defaults group=website
az appservice plan create --name websitePlan
az webapp create --plan websitePlan
az webapp config
```

```
--sku SHARED
--tags container
--sku B1 --hyper-v
--sku B1 --is-linux

--deployment-source-url images.azurecr.io/website:v1.0.0
--deployment-source-url images.azurecr.io/website:latest
--deployment-container-image-name images.azurecr.io/website:v1.0.0
--deployment-container-image-name images.azurecr.io/website:latest

set --python-version 2.7 --generic-configurations user=admin password=admin
set --python-version 3.6 --generic-configurations user=admin password=admin
container set --docker-registry-server-url https://images.azurecr.io -u admin -p admin
container set --docker-registry-server-url https://images.azurecr.io/website -u admin -p admin
```

Box 1: --SKU B1 --hyper-v -

-hyper-v

Host web app on Windows container.

Box 2: --deployment-source-url images.azurecr.io/website:v1.0.0

--deployment-source-url -u

Git repository URL to link with manual integration.

The Web App must always run the same version of the website regardless of future builds.

Incorrect:

--deployment-container-image-name -

Linux only. Container image name from Docker Hub, e.g. publisher/image-name:tag.

Box 3: az webapp config container set -url https://images.azurecr.io -u admin -p admin az webapp config container set

Set a web app container's settings.

Parameter: --docker-registry-server-url -

The container registry server url.

The Azure Container Registry instance named images is a private registry.

Example:

```
az webapp config container set --docker-registry-server-url https://{{azure-container-registry-name}}.azurecr.io
```

Reference:

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

by  [jokergester](#) at April 2, 2021, 10:14 p.m.

 EXAM AZ-204 TOPIC 3 QUESTION 40 DISCUSSION

HOTSPOT

You provisioned an Azure Cosmos DB for NoSQL account named account1 with the default consistency level.

You plan to configure the consistency level on a per request basis. The level needs to be set for consistent prefix for read and write operations to account1.

You need to identify the resulting consistency level for read and write operations.

Which levels should you configure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Operation type	Resulting consistency level
Read operations	<input type="checkbox"/> strong <input type="checkbox"/> session <input checked="" type="checkbox"/> consistent prefix
Write operations	<input type="checkbox"/> strong <input type="checkbox"/> session <input checked="" type="checkbox"/> consistent prefix

Answer Area

Operation type	Resulting consistency level
Read operations	<input type="checkbox"/> strong <input type="checkbox"/> session <input checked="" type="checkbox"/> consistent prefix
Suggested Answer: Write operations	<input type="checkbox"/> strong <input checked="" type="checkbox"/> session <input type="checkbox"/> consistent prefix

by  adilkhan at April 18, 2023, 1:48 p.m.

EXAM AZ-204 TOPIC 3 QUESTION 41 DISCUSSION

DRAG DROP

You are developing an application to store millions of images in Azure blob storage. The images are uploaded to an Azure blob storage container named companyimages contained in an Azure blob storage account named companymedia. The stored images are uploaded with multiple blob index tags across multiple blobs in the container.

You must find all blobs whose tags match a search expression in the container. The search expression must evaluate an index tag named status with a value of final.

You need to construct the GET method request URI.

How should you complete the URI? To answer, drag the appropriate parameters to the correct request URI targets. Each parameter 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.

Parameters	Answer Area
Status='Final'	<input type="text"/>
Status<='Final'	<input type="text"/>
companymedia	<input type="text"/>
companyimages	<input type="text"/>

Answer Area

`https:// .blob.core.windows.net/ ?restype=container&comp=blobs&where=`

Suggested Answer:

`https:// .blob.core.windows.net/ ?restype=container&comp=blobs&where= Status='Final'`

by  adilkhan at April 18, 2023, 1:37 p.m.

EXAM AZ-204 TOPIC 3 QUESTION 42 DISCUSSION

HOTSPOT

You develop two Python scripts to process data.

The Python scripts must be deployed to two, separate Linux containers running in an Azure Container Instance container group. The containers must access external data by using the Server Message Block (SMB) protocol. Containers in the container group must run only once.

You need to configure the Azure Container Instance.

Which configuration value 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

External data volume

Secret
Empty directory
Cloned git repo
Azure file share

Container restart policy

Never
Always
OnFailure

Answer Area

Configuration Setting Configuration Value

External data volume

Secret
Empty directory
Cloned git repo
Azure file share

Suggested Answer:

Never
Always
OnFailure

EXAM AZ-204 TOPIC 3 QUESTION 43 DISCUSSION

HOTSPOT

You are developing a static website hosted on Azure Blob Storage. You create a storage account and enable static website hosting.

The website must support the following requirements:

- Custom domain name
- Custom header values for all responses
- Custom SSL certificate

You need to implement the static website.

What should you configure? To answer, select the appropriate values in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Requirement	Configuration Value
Custom domain name	<input type="checkbox"/> Blob index tags <input type="checkbox"/> Azure Content Delivery Network (CDN) <input type="checkbox"/> Cross-Origin Resource Sharing (CORS) <input type="checkbox"/> Azure Storage Service Encryption (SSE)
Custom header values	<input type="checkbox"/> Blob index tags <input type="checkbox"/> Azure Content Delivery Network (CDN) <input type="checkbox"/> Cross-Origin Resource Sharing (CORS) <input type="checkbox"/> Azure Storage Service Encryption (SSE)
Custom SSL certificate	<input type="checkbox"/> Blob index tags <input type="checkbox"/> Azure Content Delivery Network (CDN) <input type="checkbox"/> Cross-Origin Resource Sharing (CORS) <input type="checkbox"/> Azure Storage Service Encryption (SSE)

Answer Area

Requirement	Configuration Value
Custom domain name	<ul style="list-style-type: none">Blob index tagsAzure Content Delivery Network (CDN)Cross-Origin Resource Sharing (CORS)Azure Storage Service Encryption (SSE)
Suggested Answer: Custom header values	<ul style="list-style-type: none">Blob index tagsAzure Content Delivery Network (CDN)Cross-Origin Resource Sharing (CORS)Azure Storage Service Encryption (SSE)
Custom SSL certificate	<ul style="list-style-type: none">Blob index tagsAzure Content Delivery Network (CDN)Cross-Origin Resource Sharing (CORS)Azure Storage Service Encryption (SSE)

by  AbidooKing at July 6, 2023, 2:30 p.m.

 EXAM AZ-204 TOPIC 3 QUESTION 44 DISCUSSION

You are developing an inventory tracking solution. The solution includes an Azure Function app containing multiple functions triggered by Azure Cosmos DB. You plan to deploy the solution to multiple Azure regions.

The solution must meet the following requirements:

- Item results from Azure Cosmos DS must return the most recent committed version of an item.
- Items written to Azure Cosmos DB must provide ordering guarantees.

You need to configure the consistency level for the Azure Cosmos DB deployments.

Which consistency level should you use?

- A. consistent prefix
- B. eventual
- C. bounded staleness
- D. strong
- E. session

Suggested Answer: D

Community vote distribution

D (83%)

C (17%)

by  [75daltonic](#) at July 7, 2023, 10:30 a.m.

EXAM AZ-204 TOPIC 3 QUESTION 45 DISCUSSION

HOTSPOT

You are developing an application that runs in several customer Azure Kubernetes Service clusters. Within each cluster, a pod runs that collects performance data to be analyzed later. A large amount of data is collected so saving latency must be minimized.

The performance data must be stored so that pod restarts do not impact the stored data. Write latency should be minimized.

You need to configure blob storage.

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

NOTE: Each correct selection is worth one point.

Answer Area

```
apiVersion: storage.k8s.io/v1
```

```
kind:
```

PodStorage
StorageClass
PersistentVolume
PersistentVolumeClaim

```
metadata:
```

```
  name: data-store
```

```
provisioner: kubernetes.io/
```

azure-disk
azure-file
portworx-volume
scaleio

```
parameters:
```

```
  skuName: Premium_LRS
```

```
  reclaimPolicy:
```

local
retain
delete

Answer Area

```
apiVersion: storage.k8s.io/v1
kind: PodStorage
```

Suggested Answer: PersistentVolume
PersistentVolumeClaim

metadata:

name: data-store

provisioner: kubernetes.io/

```
azure-disk
azure-file
portworx-volume
scaleio
```

parameters:

skuName: Premium_LRS

reclaimPolicy:

```
local
retain
delete
```

by [deleted] at July 10, 2023, 7:37 a.m.

EXAM AZ-204 TOPIC 3 QUESTION 46 DISCUSSION

HOTSPOT

Case study

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. When you are ready to answer a question, click the Question button to return to the question.

Background

VanArsdel, Ltd. is a global office supply company. The company is based in Canada and has retail store locations across the world. The company is developing several cloud-based solutions to support their stores, distributors, suppliers, and delivery services.

Current environment

Corporate website

The company provides a public website located at <http://www.vanarsdelltd.com>. The website consists of a React JavaScript user interface, HTML, CSS, image assets, and several APIs hosted in Azure Functions.

Retail Store Locations

The company supports thousands of store locations globally. Store locations send data every hour to an Azure Blob storage account to support inventory, purchasing and delivery services. Each record includes a location identifier and sales transaction information.

Requirements

The application components must meet the following requirements:

Corporate website

- Secure the website by using SSL.
- Minimize costs for data storage and hosting.
- Implement native GitHub workflows for continuous integration and continuous deployment (CI/CD).
- Distribute the website content globally for local use.
- Implement monitoring by using Application Insights and availability web tests including SSL certificate validity and custom header value verification.
- The website must have 99.95 percent uptime.

Retail store locations

- Azure Functions must process data immediately when data is uploaded to Blob storage. Azure Functions must update Azure Cosmos DB by using native SQL language queries.
- Audit store sale transaction information nightly to validate data, process sales financials, and reconcile inventory.

Delivery services

- Store service telemetry data in Azure Cosmos DB by using an Azure Function. Data must include an item id, the delivery vehicle license plate, vehicle package capacity, and current vehicle location coordinates.
- Store delivery driver profile information in Azure Active Directory (Azure AD) by using an Azure Function called from the corporate website.

Inventory services

The company has contracted a third-party to develop an API for inventory processing that requires access to a specific blob within the retail store storage account for three months to include read-only access to the data.

Security

- All Azure Functions must centralize management and distribution of configuration data for different environments and geographies, encrypted by using a company-provided RSA-HSM key.
- Authentication and authorization must use Azure AD and services must use managed identities where possible.

Issues

Retail Store Locations

- You must perform a point-in-time restoration of the retail store location data due to an unexpected and accidental deletion of data.
- Azure Cosmos DB queries from the Azure Function exhibit high Request Unit (RU) usage and contain multiple, complex queries that exhibit

high point read latency for large items as the function app is scaling.

You need to implement the delivery service telemetry data.

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

NOTE: Each correct selection is worth one point.

Answer Area

Azure Cosmos DB Value

API	<input type="checkbox"/>
	Core (SQL)
	Gremlin
	Table
	MongoDB

Partition Key	<input type="checkbox"/>
	Item id
	Vehicle license plate
	Vehicle package capacity
	Vehicle location coordinates

Answer Area

Azure Cosmos DB Value

API	<input type="checkbox"/>
Suggested Answer:	<input checked="" type="checkbox"/> Core (SQL)
	Gremlin
	Table
	MongoDB

Partition Key	<input type="checkbox"/>
	Item id
	<input checked="" type="checkbox"/> Vehicle license plate
	Vehicle package capacity
	Vehicle location coordinates

by  WH16 at Aug. 7, 2023, 5:31 p.m.

 EXAM AZ-204 TOPIC 3 QUESTION 47 DISCUSSION

You create and publish a new Azure App Service web app.

User authentication and authorization must use Azure Active Directory (Azure AD).

You need to configure authentication and authorization.

What should you do first?

- A. Add an identity provider.
- B. Map an existing custom DNS name.
- C. Create and configure a new app setting.
- D. Add a private certificate.
- E. Create and configure a managed identity.

Suggested Answer: A

Community vote distribution

A (90%)	10%
---------	-----

by  lyggwtwtczxnhznebw at July 30, 2023, 8:31 p.m.

EXAM AZ-204 TOPIC 3 QUESTION 48 DISCUSSION

DRAG DROP

You have an Azure Cosmos DB for NoSQL account.

You plan to develop two apps named App1 and App2 that will use the change feed functionality to track changes to containers. App1 will use the pull model and App2 will use the push model.

You need to choose the method to track the most recently processed change in App1 and App2.

Which component should you use? To answer, drag the appropriate components to the correct apps. Each component 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.

Components	Answer Area	
	App	Component
Lease container	App1	
Integrated cache	App1	
Continuation token	App2	

Answer Area		
Suggested Answer:	App	Component
	App1	Continuation token
	App2	Lease container

by  mario_no_code at July 27, 2023, 5:30 p.m.

 EXAM AZ-204 TOPIC 3 QUESTION 49 DISCUSSION

You have a Linux container-based console application that uploads image files from customer sites all over the world. A back-end system that runs on Azure virtual machines processes the images by using the Azure Blobs API.

You are not permitted to make changes to the application.

Some customer sites only have phone-based internet connections.

You need to configure the console application to access the images.

What should you use?

- A. Azure BlobFuse
- B. Azure Disks
- C. Azure Storage Network File System (NFS) 3.0 support
- D. Azure Files

Suggested Answer: A

Community vote distribution

A (100%)

by  dasunl at Nov. 3, 2023, 1:46 p.m.

EXAM AZ-204 TOPIC 3 QUESTION 5 DISCUSSION

HOTSPOT -

You are developing a back-end Azure App Service that scales based on the number of messages contained in a Service Bus queue.

A rule already exists to scale up the App Service when the average queue length of unprocessed and valid queue messages is greater than 1000.

You need to add a new rule that will continuously scale down the App Service as long as the scale up condition is not met.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Scale rule x

Metric source

▼

- Storage queue
- Service Bus queue
- Current resource
- Storage queue (classic)

Resource type

Service Bus Namespaces ▼

Resource

MessageQueue1103 ▼

* Queues

itemqueue ▼

Criteria

* Metric name

▼

- Message Count
- Active Message Count

1 minute time grain

* Time grain statistic ●

▼

- Total
- Maximum
- Average
- Count

* Operator

▼

Answer Area

Scale rule

x

Metric source

Storage queue
Service Bus queue
Current resource
Storage queue (classic)

Resource type

Service Bus Namespaces

Resource

MessageQueue1103

* Queues

itemqueue

Suggested Answer:

Criteria

* Metric name

Message Count
Active Message Count

1 minute time grain

* Time grain statistic ⓘ

Total
Maximum
Average
Count

* Operator

Box 1: Service bus queue -

You are developing a back-end Azure App Service that scales based on the number of messages contained in a Service Bus queue.

Box 2: ActiveMessage Count -

ActiveMessageCount: Messages in the queue or subscription that are in the active state and ready for delivery.

Box 3: Count -

Box 4: Less than or equal to -

You need to add a new rule that will continuously scale down the App Service as long as the scale up condition is not met.

Box 5: Decrease count by

by Mike_St at March 15, 2021, 1:33 p.m.

EXAM AZ-204 TOPIC 3 QUESTION 50 DISCUSSION

DRAG DROP

You are developing several microservices named serviceA, serviceB, and serviceC. You deploy the microservices to a new Azure Container Apps environment.

You have the following requirements:

- The microservices must persist data to storage.
- serviceA must persist data only visible to the current container and the storage must be restricted to the amount of disk space available in the container.
- serviceB must persist data for the lifetime of the replica and allow multiple containers in the replica to mount the same storage location.
- serviceC must persist data beyond the lifetime of the replica while allowing multiple containers to access the storage and enable per object permissions.

You need to configure storage for each microservice.

Which storage type should you use? To answer, drag the appropriate storage types to the correct microservices. Each storage 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.

Storage types

Azure Blob Storage

Azure Files storage

Ephemeral volume

Container file system

Answer Area

Microservice

serviceA

serviceB

serviceC

Storage type

Answer Area

Suggested Answer: Microservice

serviceA

serviceA

serviceB

serviceC

Storage type

Container file system

Ephemeral volume

Azure Files storage

EXAM AZ-204 TOPIC 3 QUESTION 51 DISCUSSION

DRAG DROP

You are developing a web service that will run on Azure virtual machines that use Azure Storage. You configure all virtual machines to use managed identities.

You have the following requirements:

- Secret-based authentication mechanisms are not permitted for accessing an Azure Storage account.
- Must use only Azure Instance Metadata Service endpoints.

You need to write code to retrieve an access token to access Azure Storage. To answer, drag the appropriate code segments to the correct locations. Each code segment may be used 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.

Code segment 1

```
http://localhost:50342/oauth2/token  
http://169.254.169.254:50432/oauth2/token  
http://localhost/metadata/identity/oauth2/token  
http://169.254.169.254/metadata/identity/oauth2/token
```

Code segment 2

```
import xml.etree.ElementTree as e  
e.parse(response.read())  
  
import csv  
csv.DictReader(response.read())  
  
import yaml  
return yaml.load(response.read())  
  
import json  
return json.loads(response.read())
```

Answer Area

```
import urllib.request  
url = "http://169.254.169.254/metadata/identity/oauth2/token" Code segment 1  
queryString = ""  
response = urllib.request.urlopen(url + queryString)  
Code segment 2
```

Suggested Answer:

```
Answer Area  
import urllib.request  
url = "http://169.254.169.254/metadata/identity/oauth2/token" -  
queryString = ""  
response = urllib.request.urlopen(url + queryString)  
import json  
return json.loads(response.read())
```

by  manopeydakon at Jan. 16, 2024, 12:34 p.m.

EXAM AZ-204 TOPIC 3 QUESTION 52 DISCUSSION

HOTSPOT

You are developing an Azure Function app.

The Azure Function app must enable a WebHook to read an image from Azure Blob Storage and create a new Azure Cosmos DB document.

You need to implement the Azure Function app.

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

NOTE: Each correct selection is worth one point.

Answer Area

Trigger	Input binding	Output binding
HTTP Timer Blob Storage Azure Cosmos DB	HTTP Timer Blob Storage Azure Cosmos DB	HTTP Timer Blob Storage Azure Cosmos DB

Answer Area

Suggested Answer:	Trigger	Input binding	Output binding
	HTTP Timer Blob Storage Azure Cosmos DB	HTTP Timer Blob Storage Azure Cosmos DB	HTTP Timer Blob Storage Azure Cosmos DB

 EXAM AZ-204 TOPIC 3 QUESTION 53 DISCUSSION

You create an Azure Cosmos DB for NoSQL database.

You plan to use the Azure Cosmos DB .NET SDK v3 API for NoSQL to upload the following files:

File Name	File Size
File1	1MB
File2	2MB
File3	3MB
File4	4MB
File5	5MB

You receive the following error message when uploading the files: "413 Entity too large".

You need to determine which files you can upload to the Azure Cosmos DB for NoSQL database.

Which files can you upload?

- A. File1, File2, File3, File4, and File5
- B. File1 and File2 only
- C. File1, File2, and File3 only
- D. File1, File2, File3, and File4 only
- E. File1 only

Suggested Answer: B

Community vote distribution

B (95%) 5%

by  Jedi at Jan. 6, 2024, 1:54 p.m.

 EXAM AZ-204 TOPIC 3 QUESTION 54 DISCUSSION

You are developing an app to store globally distributed data in several Azure Blob Storage containers. Each container hosts multiple blobs where each instance of the app will store the data. You enable versioning and soft delete for the blobs.

App testing and incorrect code have frequently corrupted data. Development of the app must allow data to be restored to a previous day for testing.

You need to configure the storage account to support point-in-time restore.

What should you do?

- A. Enable the change feed on the storage account to begin capturing and recording changes.
- B. Configure object replication and specify replication rules.
- C. Create a snapshot of the blob in the hot tier.
- D. Configure an immutability policy that is scoped to a blob version.

Suggested Answer: A

Community vote distribution

A (100%)

by  [mahomes15](#) at Oct. 16, 2024, 9:13 a.m.

 EXAM AZ-204 TOPIC 3 QUESTION 55 DISCUSSION

A company uses an Azure Blob Storage for archiving.

The company requires that data in the Blob Storage is only in the archive tier.

You need to ensure data copied to the Blob Storage is moved to the archive tier.

What should you do?

- A. Use a Put Block List operation with a request header of x-ms-immutability-policy-mode.
- B. Create a lifecycle policy with an action of tierToArchive and configure daysAfterModificationGreaterThan for 0.
- C. Use a Put Blob operation with a request header of x-ms-immutability-policy-until-date.
- D. Create a lifecycle policy with an action of tierToArchive and configure a filter for blobIndexMatch.

Suggested Answer: *B*

Community vote distribution

B (100%)

by  [overhill](#) at Nov. 1, 2024, 10:40 a.m.

EXAM AZ-204 TOPIC 3 QUESTION 56 DISCUSSION

HOTSPOT

You have the following data lifecycle management policy:

```
{  
    "rules": [  
        {  
            "enabled": true,  
            "name": "Policy1",  
            "type": "Lifecycle",  
            "definition": {  
                "actions": {  
                    "baseBlob": {  
                        "tierToArchive": {  
                            "daysAfterModificationGreaterThan": 0  
                        }  
                    }  
                },  
                "filters": {  
                    "blobIndexMatch": [  
                        {  
                            "name": "Customer",  
                            "op": "==",  
                            "value": "Adatum"  
                        }  
                    ]  
                }  
            }  
        }  
    ]  
}
```

You plan to implement an Azure Blob Storage account and apply to it Policy1. The solution should maximize resiliency and performance.

You need to configure the account to support the policy.

Which redundancy option and storage account type should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Storage account configuration

Configuration setting	Value
Redundancy	<input type="button" value="▼"/> ZRS RA-GRS RA-GZRS
Account type	<input type="button" value="▼"/> premium page blob premium block blob general-purpose v2

Answer Area

Storage account configuration

Suggested Answer:

Configuration setting	Value
Redundancy	<input type="button" value="▼"/> ZRS RA-GRS RA-GZRS
Account type	<input type="button" value="▼"/> premium page blob premium block blob general-purpose v2

by  c75314a at Oct. 16, 2024, 11:29 a.m.

EXAM AZ-204 TOPIC 3 QUESTION 57 DISCUSSION

HOTSPOT

You have an Azure Cosmos DB for NoSQL API account named account1. Multiple instances of an on-premises application named app1 read data from account1.

You plan to implement integrated cache for connections from the instances of app to account1.

You need to set the connection mode and maximum consistency level of app1.

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

NOTE: Each correct selection is worth one point.

Answer Area

Connectivity mode and consistency level settings

Configuration setting	Value
Connectivity mode	<input type="checkbox"/> direct mode <input type="checkbox"/> gateway mode using standard gateway <input type="checkbox"/> gateway mode using dedicated gateway
Consistency level	<input type="checkbox"/> strong <input type="checkbox"/> session <input type="checkbox"/> eventual

Answer Area

Connectivity mode and consistency level settings

Suggested Answer:

Configuration setting	Value
Connectivity mode	<input type="checkbox"/> direct mode <input checked="" type="checkbox"/> gateway mode using standard gateway <input checked="" type="checkbox"/> gateway mode using dedicated gateway
Consistency level	<input type="checkbox"/> strong <input checked="" type="checkbox"/> session <input type="checkbox"/> eventual

by  c75314a at Oct. 16, 2024, 11:55 a.m.

 EXAM AZ-204 TOPIC 3 QUESTION 58 DISCUSSION

You are developing a Cosmos DB solution that will be deployed to multiple Azure regions.

Your solution must meet the following requirements:

- Read operations will never receive write operations that are out of order.
- Maximize concurrency of read operations in all regions.

You need to choose the consistency level for the solution.

Which consistency level should you use?

- A. session
- B. eventual
- C. bounded staleness
- D. consistent prefix

Suggested Answer: D

Community vote distribution

D (53%) C (47%)

by  ns4098 at Oct. 16, 2024, 10:31 a.m.

 EXAM AZ-204 TOPIC 3 QUESTION 59 DISCUSSION

You have an Azure Queue Storage named queue1.

You plan to develop code that will process messages in queue1.

You need to implement a queue operation to set the visibility timeout value of individual messages in queue1.

Which two operations can you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Peek at a message in the queue.
- B. Delete a message in the queue.
- C. Add a message to the queue.
- D. Update a message in the queue.
- E. Receive a message from the queue.

Suggested Answer: DE

Community vote distribution

DE (100%)

by  ns4098 at Oct. 16, 2024, 10:07 a.m.

EXAM AZ-204 TOPIC 3 QUESTION 6 DISCUSSION

DRAG DROP -

You have an application that uses Azure Blob storage.

You need to update the metadata of the blobs.

Which three methods should you use to develop the solution? To answer, move the appropriate methods from the list of methods to the answer area and arrange them in the correct order.

Select and Place:

Methods

Metadata.Add
SetMetadataAsync
FetchAttributesAsync
UploadFileStream
SetPropertiesAsync

Answer Area

Methods

Suggested Answer:

FetchAttributesAsync
UploadFileStream

Answer Area

Metadata.Add
SetMetadataAsync
SetPropertiesAsync

Metadata.Add example:

```
// Add metadata to the dictionary by calling the Add method  
metadata.Add("docType", "textDocuments");
```

SetMetadataAsync example:

```
// Set the blob's metadata.
```

```
await blob.SetMetadataAsync(metadata);
```

```
// Set the blob's properties.
```

```
await blob.SetPropertiesAsync();
```

Reference:

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

by  Kuna_Lambo at March 16, 2021, 9:33 p.m.

EXAM AZ-204 TOPIC 3 QUESTION 61 DISCUSSION

HOTSPOT

A company has an Azure Cosmos DB for NoSQL account. The account is configured for session consistency. Data is written to a single Azure region and data can be read from three Azure regions.

An application that will access the Azure Cosmos DB for NoSQL container data using an SDK has the following requirements:

- Reads from the application must return the most recent committed version of an item from any Azure region.
- The container items should not automatically be deleted.

You need to implement the changes to the Azure Cosmos DB for NoSQL account.

What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Requirement

Reads must return the most recent committed version of an item.

Change

Change the consistency level by using the SDK.
Change the default consistency level on the account.
Configure the integrated cache on the account.
Configure the account to write data to multiple Azure regions.

Items should not automatically be deleted.

Change the Time to Live (TTL) property on items to 0.
Change the Time to Live (TTL) property on items to -1.
Configure a resource lock on the account.
Configure a resource lock on the container.

Answer Area

Requirement

Reads must return the most recent committed version of an item.

Change

Change the consistency level by using the SDK.
Change the default consistency level on the account.
Configure the integrated cache on the account.
Configure the account to write data to multiple Azure regions.

Suggested Answer:

Items should not automatically be deleted.

Change the Time to Live (TTL) property on items to 0.
Change the Time to Live (TTL) property on items to -1.
Configure a resource lock on the account.
Configure a resource lock on the container.

by  alvingeo at Oct. 30, 2024, 1:25 p.m.

EXAM AZ-204 TOPIC 3 QUESTION 62 DISCUSSION

HOTSPOT

You are developing an application that monitors data added to an Azure Blob storage account.

You need to process each change made to the storage account.

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

NOTE: Each correct selection is worth one point.

Answer Area

```
cf = ChangeFeedClient("", "")  
x = None  
while True:  
    change_feed = cf.  
        ▾  
        cf.list(x)  
        by_page(x)  
        ItemPaged(cf.list(x))  
        list_changes(x).by_page()  
  
    for c in change_feed:  
        ProcessChanges(c)  
    x = change_feed.  
        ▾  
        get_next  
        extract_data  
        _page_iterator  
        continuation token
```

Answer Area

```
cf = ChangeFeedClient("", "")  
x = None  
while True:  
    change_feed = cf.  
        ▾  
        cf.list(x)  
        by_page(x)  
        ItemPaged(cf.list(x))  
        list_changes(x).by_page()
```

Suggested Answer:

```
for c in change_feed:  
    ProcessChanges(c)
```

```
x = change_feed.  
        ▾  
        get_next  
        extract_data  
        _page_iterator  
        continuation token
```

 EXAM AZ-204 TOPIC 3 QUESTION 63 DISCUSSION

You manage an Azure Cosmos DB for a NoSQL API account named account1. The account contains a database named db1, which contains a container named container1. You configure account1 with a session consistency level.

You plan to develop an application named App1 that will access container1. Individual instances of App1 must perform reads and writes. App1 must allow multiple nodes to participate in the same session.

You need to configure an object to share the session token between the nodes.

Which object should you use?

- A. Document response
- B. Request options
- C. Feed options
- D. Connection policy

Suggested Answer: A

Community vote distribution

B (67%)

A (33%)

by  passme847 at Oct. 19, 2024, 7:28 a.m.

EXAM AZ-204 TOPIC 3 QUESTION 64 DISCUSSION

DRAG DROP

Case study

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. When you are ready to answer a question, click the Question button to return to the question.

Background

Fourth Coffee is a global coffeehouse chain and coffee company recognized as one of the world's most influential coffee brands. The company is renowned for its specialty coffee beverages, including a wide range of espresso-based drinks, teas, and other beverages. Fourth Coffee operates thousands of stores worldwide.

Current environment

The company is developing cloud-native applications hosted in Azure.

Corporate website

The company hosts a public website located at <http://www.fourthcoffee.com/>. The website is used to place orders as well as view and update inventory items.

Inventory items

In addition to its core coffee offerings, Fourth Coffee recently expanded its menu to include inventory items such as lunch items, snacks, and merchandise. Corporate team members constantly update inventory. Users can customize items. Corporate team members configure inventory items and associated images on the website.

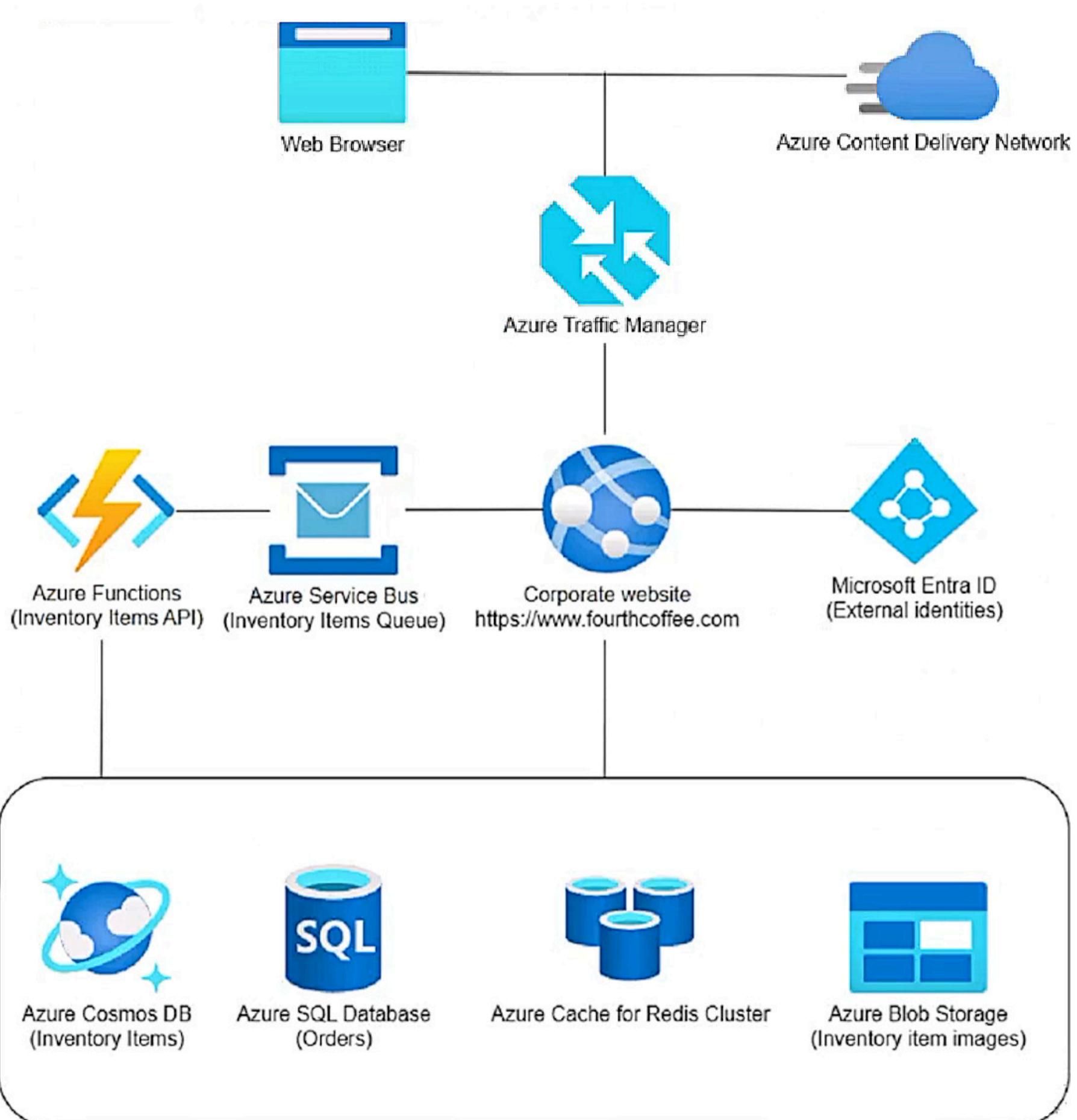
Orders

-
Associates in the store serve customized beverages and items to customers. Orders are placed on the website for pickup.

The application components process data as follows:

1. Azure Traffic Manager routes a user order request to the corporate website hosted in Azure App Service.
2. Azure Content Delivery Network serves static images and content to the user.
3. The user signs in to the application through a Microsoft Entra ID for customers tenant.
4. Users search for items and place an order on the website as item images are pulled from Azure Blob Storage.
5. Item customizations are placed in an Azure Service Bus queue message.
6. Azure Functions processes item customizations and saves the customized items to Azure Cosmos DB.
7. The website saves order details to Azure SQL Database.
8. SQL Database query results are cached in Azure Cache for Redis to improve performance.

The application consists of the following Azure services:



The application components must meet the following requirements:

- Azure Cosmos DB development must use a native API that receives the latest updates and stores data in a document format.
- Costs must be minimized for all Azure services.
- Developers must test Azure Blob Storage integrations locally before deployment to Azure. Testing must support the latest versions of the Azure Storage APIs.

Corporate website

- User authentication and authorization must allow one-time passcode sign-in methods and social identity providers (Google or Facebook).
- Static web content must be stored closest to end users to reduce network latency.

Inventory items

- Customized items read from Azure Cosmos DB must maximize throughput while ensuring data is accurate for the current user on the website.
- Processing of inventory item updates must automatically scale and enable updates across an entire Azure Cosmos DB container.
- Inventory items must be processed in the order they were placed in the queue.
- Inventory item images must be stored as JPEG files in their native format to include exchangeable image file format (data) stored with the blob data upon upload of the image file.
- The Inventory Items API must securely access the Azure Cosmos DB data.

Orders

- Orders must receive inventory item changes automatically after inventory items are updated or saved.

Issues

- Developers are storing the Azure Cosmos DB credentials in an insecure clear text manner within the Inventory Items API code.
- Production Azure Cache for Redis maintenance has negatively affected application performance.

You need to store inventory item images.

Which Azure Blob Storage feature should you use? To answer, move the appropriate Azure Blob Storage features to the correct requirements. You may use each Azure Blob Storage feature once, more than once, or not at all. You may need to move the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Answer Area

Azure Blob Storage features

Index tags
System properties
Change feed
User-defined metadata

Azure Blob Storage requirements

Requirement

Store images in native format

Azure Blob Storage feature

Store image Exif data

Azure Blob Storage requirements

Suggested Answer:	Requirement	Azure Blob Storage feature
	Store images in native format	Index tags
	Store image Exif data	User-defined metadata

by  tracknamepending at Oct. 24, 2024, 5:49 p.m.

 EXAM AZ-204 TOPIC 3 QUESTION 66 DISCUSSION

You have an Azure Queue Storage account that contains a queue named queue1.

You plan to use Azure SDK for .NET to develop a solution that uses queue1.

You need to author C# code that will return an approximate number of messages in queue1. Your solution must minimize the development effort.

Which method should you use in your code?

- A. GetProperties method of the QueueClient class
- B. GetProperties method of the QueueServiceClient class
- C. PeekMessages method of the QueueClient class
- D. GetStatistics method of the QueueServiceClient class

Suggested Answer: A

Community vote distribution

A (100%)

by  GrzegorzZima at Dec. 26, 2024, 8:34 p.m.

 EXAM AZ-204 TOPIC 3 QUESTION 67 DISCUSSION

You manage an Azure Storage account named storage1.

You plan to load 1 million blobs into storage1.

You must assign key-value pairs to blobs so that both keys and their values are automatically indexed and searchable by using the built-in services of storage1.

You need to run the command to assign key-value pairs.

Which command should you run?

- A. Update -AzStorageBobServiceProperty
- B. Set-AzStorageBlobTag
- C. az storage blob service-properties update
- D. Set-AzStorageBlobContent

Suggested Answer: *B*

Community vote distribution

B (100%)

by  c01efe8 at Dec. 31, 2024, 4:34 a.m.

EXAM AZ-204 TOPIC 3 QUESTION 7 DISCUSSION

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 are developing an Azure solution to collect point-of-sale (POS) device data from 2,000 stores located throughout the world. A single device can produce

2 megabytes (MB) of data every 24 hours. Each store location has one to five devices that send data.

You must store the device data in Azure Blob storage. Device data must be correlated based on a device identifier. Additional stores are expected to open in the future.

You need to implement a solution to receive the device data.

Solution: Provision an Azure Event Grid. Configure the machine identifier as the partition key and enable capture.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  [Dinima](#) at March 13, 2021, 3:37 p.m.

 EXAM AZ-204 TOPIC 3 QUESTION 8 DISCUSSION

You develop Azure solutions.

A .NET application needs to receive a message each time an Azure virtual machine finishes processing data. The messages must NOT persist after being processed by the receiving application.

You need to implement the .NET object that will receive the messages.

Which object should you use?

- A. QueueClient
- B. SubscriptionClient
- C. TopicClient
- D. CloudQueueClient

Suggested Answer: A

Community vote distribution

A (87%) 13%

by  aperez1979 at March 13, 2021, 7:18 p.m.

EXAM AZ-204 TOPIC 3 QUESTION 9 DISCUSSION

DRAG DROP -

You are maintaining an existing application that uses an Azure Blob GPv1 Premium storage account. Data older than three months is rarely used.

Data newer than three months must be available immediately. Data older than a year must be saved but does not need to be available immediately.

You need to configure the account to support a lifecycle management rule that moves blob data to archive storage for data not modified in the last year.

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	Answer Area
Upgrade the storage account to GPv2	
Create a new GPv2 Standard account and set its default access tier level to cool	 
Change the storage account access tier from hot to cool	 
Copy the data to be archived to a Standard GPv2 storage account and then delete the data from the original storage account	

Actions	Answer Area
	Upgrade the storage account to GPv2
Create a new GPv2 Standard account and set its default access tier level to cool	 
	Copy the data to be archived to a Standard GPv2 storage account and then delete the data from the original storage account
	Change the storage account access tier from hot to cool

Step 1: Upgrade the storage account to GPv2

Object storage data tiering between hot, cool, and archive is supported in Blob Storage and General Purpose v2 (GPv2) accounts. General Purpose v1 (GPv1) accounts don't support tiering.

You can easily convert your existing GPv1 or Blob Storage accounts to GPv2 accounts through the Azure portal.

Step 2: Copy the data to be archived to a Standard GPv2 storage account and then delete the data from the original storage account

Step 3: Change the storage account access tier from hot to cool

Note: Hot - Optimized for storing data that is accessed frequently.

Cool - Optimized for storing data that is infrequently accessed and stored for at least 30 days.

Archive - Optimized for storing data that is rarely accessed and stored for at least 180 days with flexible latency requirements, on the order of hours.

Only the hot and cool access tiers can be set at the account level. The archive access tier can only be set at the blob level.

Reference:

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

by  [Marusyk](#) at March 14, 2021, 1:21 a.m.

 EXAM AZ-204 TOPIC 30 QUESTION 1 DISCUSSION

You need to implement a solution to resolve the retail store location data issue.

Which three Azure Blob features should you enable? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Soft delete
- B. Change feed
- C. Snapshots
- D. Versioning
- E. Object replication
- F. Immutability

Suggested Answer: ABD

Community vote distribution

ABD (100%)

by  [andrvelich](#) at April 30, 2022, 6:56 a.m.

EXAM AZ-204 TOPIC 31 QUESTION 1 DISCUSSION

You need to store the user agreements.

Where should you store the agreement after it is completed?

- A. Azure Storage queue
- B. Azure Event Hub
- C. Azure Service Bus topic
- D. Azure Event Grid topic

Suggested Answer: B

Community vote distribution

B (67%)

A (33%)

by  perry230 at June 9, 2020, 7:52 p.m.

EXAM AZ-204 TOPIC 31 QUESTION 2 DISCUSSION

HOTSPOT -

You need to implement the bindings for the CheckUserContent function.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
public static class CheckUserContent
{
    [FunctionName("CheckUserContent")]
    public static void Run(
        [QueueTrigger("userContent")] string content,
        [BlobTrigger("userContent/{name}")] Stream output)
    {
        ...
    }
}
```

Answer Area

```
public static class CheckUserContent
{
    [FunctionName("CheckUserContent")]
    public static void Run(
        [QueueTrigger("userContent")] string content,
        [BlobTrigger("userContent/{name}")] Stream output)
    {
        ...
    }
}
```

Suggested Answer:

Box 1: [BlobTrigger(..)]

Box 2: [Blob(..)]

Azure Blob storage output binding for Azure Functions. The output binding allows you to modify and delete blob storage data in an Azure

Function.

The attribute's constructor takes the path to the blob and a FileAccess parameter indicating read or write, as shown in the following example:

```
[FunctionName("ResizeImage")]
public static void Run(
[BlobTrigger("sample-images/{name}")] Stream image,
[Blob("sample-images-md/{name}", FileAccess.Write)] Stream imageSmall)
{
...
}
```

Scenario: You must create an Azure Function named CheckUserContent to perform the content checks.

The company's data science group built ContentAnalysisService which accepts user generated content as a string and returns a probable value for inappropriate content. Any values over a specific threshold must be reviewed by an employee of Contoso, Ltd.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-bindings-storage-blob-output>

by  [kwaazaar](#) at April 8, 2021, 1:38 p.m.

 EXAM AZ-204 TOPIC 31 QUESTION 3 DISCUSSION

You need to configure the ContentUploadService deployment.

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

NOTE: Each correct selection is worth one point.

- A. Add the following markup to line CS23: type: Private
- B. Add the following markup to line CS24: osType: Windows
- C. Add the following markup to line CS24: osType: Linux
- D. Add the following markup to line CS23: type: Public

Suggested Answer: A

Community vote distribution

A (54%) C (46%)

by  Mo_Mo_01 at April 1, 2021, 4:56 p.m.

EXAM AZ-204 TOPIC 32 QUESTION 1 DISCUSSION

HOTSPOT -

You need to configure the Account Kind, Replication, and Access tier options for the corporate website's Azure Storage account.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Create storage account

Basics Networking Advanced Tags Review + create

Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below.

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *

Visual Studio Enterprise

Resource group *

(New) cplcorporatesite

[Create new](#)

Instance details

The default deployment model is Resource Manager, which supports the latest Azure features. You may choose to deploy using the classic deployment model instead. [Choose classic deployment model](#)

Storage account name ⓘ *

corporatewebsitecontent



Location *

(US) East US



Performance ⓘ

Standard Premium

Account kind ⓘ

StorageV2 (general purpose v2)
Storage (general purpose v1)
BlobStorage

Replication ⓘ

Locally-redundant storage (LRS)
Zone-redundant storage (ZRS)
Geo-redundant storage (GRS)
Read-access geo-redundant storage (RA-GRS)
Geo-zone-redundant storage (GZRS)
Read-access geo-zone-redundant storage (RA-GZRS)

Access tier (default) ⓘ

Cool Hot

Suggested Answer:

Create storage account

Basics Networking Advanced Tags Review + create

Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below.

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *	Visual Studio Enterprise
Resource group *	(New) cplcorporatesite
	Create new

Instance details

The default deployment model is Resource Manager, which supports the latest Azure features. You may choose to deploy using the classic deployment model instead. [Choose classic deployment model](#)

Storage account name ⓘ *	corporatewebsitecontent						
Location *	(US) East US						
Performance ⓘ	<input checked="" type="radio"/> Standard <input type="radio"/> Premium						
Account kind ⓘ	<table><tr><td>StorageV2 (general purpose v2)</td></tr><tr><td>Storage (general purpose v1)</td></tr><tr><td>BlobStorage</td></tr></table>	StorageV2 (general purpose v2)	Storage (general purpose v1)	BlobStorage			
StorageV2 (general purpose v2)							
Storage (general purpose v1)							
BlobStorage							
Replication ⓘ	<table><tr><td>Locally-redundant storage (LRS)</td></tr><tr><td>Zone-redundant storage (ZRS)</td></tr><tr><td>Geo-redundant storage (GRS)</td></tr><tr><td>Read-access geo-redundant storage (RA-GRS)</td></tr><tr><td>Geo-zone-redundant storage (GZRS)</td></tr><tr><td>Read-access geo-zone-redundant storage (RA-GZRS)</td></tr></table>	Locally-redundant storage (LRS)	Zone-redundant storage (ZRS)	Geo-redundant storage (GRS)	Read-access geo-redundant storage (RA-GRS)	Geo-zone-redundant storage (GZRS)	Read-access geo-zone-redundant storage (RA-GZRS)
Locally-redundant storage (LRS)							
Zone-redundant storage (ZRS)							
Geo-redundant storage (GRS)							
Read-access geo-redundant storage (RA-GRS)							
Geo-zone-redundant storage (GZRS)							
Read-access geo-zone-redundant storage (RA-GZRS)							
Access tier (default) ⓘ	<table><tr><td><input type="radio"/> Cool</td></tr><tr><td><input type="radio"/> Hot</td></tr></table>	<input type="radio"/> Cool	<input type="radio"/> Hot				
<input type="radio"/> Cool							
<input type="radio"/> Hot							

Account Kind: StorageV2 (general-purpose v2)

Scenario: Azure Storage blob will be used (refer to the exhibit). Data storage costs must be minimized.

General-purpose v2 accounts: Basic storage account type for blobs, files, queues, and tables. Recommended for most scenarios using Azure Storage.

Incorrect Answers:

☞ BlockBlobStorage accounts: Storage accounts with premium performance characteristics for block blobs and append blobs.

Recommended for scenarios with high transaction rates, or scenarios that use smaller objects or require consistently low storage latency.

☞ General-purpose v1 accounts: Legacy account type for blobs, files, queues, and tables. Use general-purpose v2 accounts instead when possible.

Replication: Geo-redundant Storage

Scenario: Data must be replicated to a secondary region and three availability zones.

Geo-redundant storage (GRS) copies your data synchronously three times within a single physical location in the primary region using LRS.

It then copies your data asynchronously to a single physical location in the secondary region.

Incorrect Answers:

Geo-zone-redundant storage (GZRS), but it would be more costly.

Access tier: Cool -

Data storage costs must be minimized.

Note: Azure storage offers different access tiers, which allow you to store blob object data in the most cost-effective manner. The available access tiers include:

Hot - Optimized for storing data that is accessed frequently.

Cool - Optimized for storing data that is infrequently accessed and stored for at least 30 days.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview>

<https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy>

by  [Paolo93](#) at *July 4, 2021, 11:34 a.m.*

EXAM AZ-204 TOPIC 4 QUESTION 1 DISCUSSION

You are developing a Java application that uses Cassandra to store key and value data. You plan to use a new Azure Cosmos DB resource and the Cassandra API in the application. You create an Azure Active Directory (Azure AD) group named Cosmos DB Creators to enable provisioning of Azure Cosmos accounts, databases, and containers.

The Azure AD group must not be able to access the keys that are required to access the data.
You need to restrict access to the Azure AD group.

Which role-based access control should you use?

- A. DocumentDB Accounts Contributor
- B. Cosmos Backup Operator
- C. Cosmos DB Operator
- D. Cosmos DB Account Reader

Suggested Answer: C

Community vote distribution

C (91%)	9%
---------	----

by  RaviKS at Dec. 24, 2020, 8:10 a.m.

EXAM AZ-204 TOPIC 4 QUESTION 10 DISCUSSION

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 are developing a medical records document management website. The website is used to store scanned copies of patient intake forms. If the stored intake forms are downloaded from storage by a third party, the contents of the forms must not be compromised.

You need to store the intake forms according to the requirements.

Solution:

1. Create an Azure Key Vault key named skey.
2. Encrypt the intake forms using the public key portion of skey.
3. Store the encrypted data in Azure Blob storage.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: A

Community vote distribution

A (90%)	10%
---------	-----

by  pac1311 at Feb. 10, 2021, 8:18 a.m.

EXAM AZ-204 TOPIC 4 QUESTION 11 DISCUSSION

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 are developing a medical records document management website. The website is used to store scanned copies of patient intake forms. If the stored intake forms are downloaded from storage by a third party, the contents of the forms must not be compromised.

You need to store the intake forms according to the requirements.

Solution:

1. Create an Azure Cosmos DB database with Storage Service Encryption enabled.
2. Store the intake forms in the Azure Cosmos DB database.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (83%)	A (17%)
---------	---------

by  Drgn at Feb. 6, 2021, 1:34 a.m.

 EXAM AZ-204 TOPIC 4 QUESTION 12 DISCUSSION

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 are developing a medical records document management website. The website is used to store scanned copies of patient intake forms. If the stored intake forms are downloaded from storage by a third party, the contents of the forms must not be compromised.

You need to store the intake forms according to the requirements.

Solution: Store the intake forms as Azure Key Vault secrets.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  [jokergester](#) at April 3, 2021, 12:20 a.m.

EXAM AZ-204 TOPIC 4 QUESTION 13 DISCUSSION

HOTSPOT -

You plan to deploy a new application to a Linux virtual machine (VM) that is hosted in Azure.

The entire VM must be secured at rest by using industry-standard encryption technology to address organizational security and compliance requirements.

You need to configure Azure Disk Encryption for the VM.

How should you complete the Azure CLI commands? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

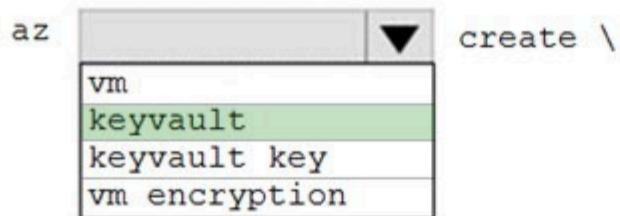
Hot Area:

Answer Area

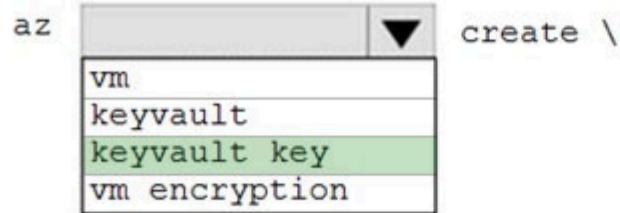
```
az provider register -n Microsoft.KeyVault  
resourcegroup="myResourceGroup"  
az group create --name $resourcegroup --location westus  
keyvault_name=myvaultname$RANDOM  
  
az [▼] create \  
  vm  
  keyvault  
  keyvault key  
  vm encryption  
  
  --name $keyvault_name \  
  --resource-group $resourcegroup \  
  --location eastus \  
  --enabled-for-disk-encryption True  
  
az [▼] create \  
  vm  
  keyvault  
  keyvault key  
  vm encryption  
  
  --vault-name $keyvault_name \  
  --name Name1 \  
  --protection software  
  
az [▼] create \  
  vm  
  keyvault  
  keyvault key  
  vm encryption  
  
  --resource-group $resourcegroup \  
  --name Name2 \  
  --image Canonical:UbuntuServer:16.04-LTS:latest \  
  --admin-username azureuser \  
  --generate-ssh-keys \  
  --data-disk-sizes-gb 5  
  
az [▼] enable\  
  vm  
  keyvault  
  keyvault key  
  vm encryption  
  
  --resource-group $resourcegroup \  
  --name Name2 \  
  --disk-encryption-keyvault $keyvault_name \  
  --key-encryption-key Name1 \  
  --volume-type [▼]  
    all  
    data  
    os
```

Answer Area

```
az provider register -n Microsoft.KeyVault  
resourcegroup="myResourceGroup"  
az group create --name $resourcegroup --location westus  
keyvault_name=myvaultname$RANDOM
```



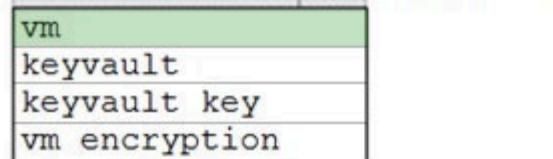
```
--name $keyvault_name \  
--resource-group $resourcegroup \  
--location eastus \  
--enabled-for-disk-encryption True
```



```
--vault-name $keyvault_name \  
--name Name1 \  
--protection software
```

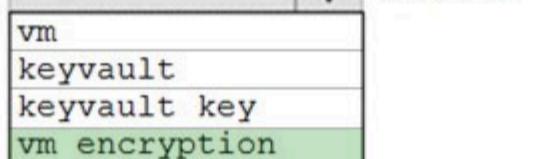
Suggested Answer:

```
az provider register -n Microsoft.KeyVault
```

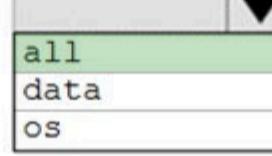


```
--resource-group $resourcegroup \  
--name Name2 \  
--image Canonical:UbuntuServer:16.04-LTS:latest \  
--admin-username azureuser \  
--generate-ssh-keys \  
--data-disk-sizes-gb 5
```

```
az vm create \
```



```
--resource-group $resourcegroup \  
--name Name2 \  
--disk-encryption-keyvault $keyvault_name \  
--key-encryption-key Name1 \  
--volume-type
```



Box 1: keyvault -

Create an Azure Key Vault with az keyvault create and enable the Key Vault for use with disk encryption. Specify a unique Key Vault name for keyvault_name as follows: keyvault_name=myvaultname\$RANDOM az keyvault create \

```
--name $keyvault_name \  
--resource-group $resourcegroup \  
--location eastus \  
--enabled-for-disk-encryption True
```

Box 2: keyvault key -

The Azure platform needs to be granted access to request the cryptographic keys when the VM boots to decrypt the virtual disks. Create a

cryptographic key in your Key Vault with az keyvault key create. The following example creates a key named myKey: az keyvault key create \

```
--vault-name $keyvault_name \  
--name myKey \  
--protection software
```

Box 3: vm -

Create a VM with az vm create. Only certain marketplace images support disk encryption. The following example creates a VM named myVM using an Ubuntu

16.04 LTS image:

```
az vm create \
--resource-group $resourcegroup \
--name myVM \
--image Canonical:UbuntuServer:16.04-LTS:latest \
--admin-username azureuser \
--generate-ssh-keys \
```

Box 4: vm encryption -

Encrypt your VM with az vm encryption enable:

```
az vm encryption enable \
--resource-group $resourcegroup \
--name myVM \
--disk-encryption-keyvault $keyvault_name \
--key-encryption-key myKey \
--volume-type all
```

Note: seems to an error in the question. Should have enable instead of create.

Box 5: all -

Encrypt both data and operating system.

Reference:

<https://docs.microsoft.com/en-us/azure/virtual-machines/linux/disk-encryption-cli-quickstart>

by  Tom87 at April 10, 2021, 5:47 p.m.

 EXAM AZ-204 TOPIC 4 QUESTION 14 DISCUSSION

Your company is developing an Azure API hosted in Azure.

You need to implement authentication for the Azure API to access other Azure resources. You have the following requirements:

- All API calls must be authenticated.
- Callers to the API must not send credentials to the API.

Which authentication mechanism should you use?

- A. Basic
- B. Anonymous
- C. Managed identity
- D. Client certificate

Suggested Answer: C

Community vote distribution

C (100%)

by  MrZoom at March 24, 2021, 12:23 p.m.

EXAM AZ-204 TOPIC 4 QUESTION 15 DISCUSSION

DRAG DROP -

You are developing an application. You have an Azure user account that has access to two subscriptions.

You need to retrieve a storage account key secret from Azure Key Vault.

In which order should you arrange the PowerShell commands to develop the solution? To answer, move all commands from the list of commands to the answer area and arrange them in the correct order.

Select and Place:

Powershell commands

```
$secretvalue = ConvertTo-SecureString  
$storAcctkey -AsPlainText  
-Force  
    Set-AzKeyVaultSecret -VaultName  
$vaultName -Name $secretName  
-SecretValue $secretvalue
```

```
Get-AzStorageAccountKey -  
ResourceGroupName $resGroup -Name  
$storAcct
```

```
Set-AzContext -SubscriptionId  
$subscriptionID
```

```
Get-AzKeyVaultSecret -VaultName  
$vaultName
```

```
Get-AzSubscription
```

Answer Area



Suggested Answer:

Powershell commands

```
$secretvalue = ConvertTo-SecureString  
$storAcctkey -AsPlainText  
-Force  
    Set-AzKeyVaultSecret -VaultName  
$vaultName -Name $secretName  
-SecretValue $secretvalue
```

```
Get-AzStorageAccountKey -  
ResourceGroupName $resGroup -Name  
$storAcct
```

```
Set-AzContext -SubscriptionId  
$subscriptionID
```

```
Get-AzKeyVaultSecret -VaultName  
$vaultName
```

```
Get-AzSubscription
```

Answer Area

```
Get-AzSubscription
```

```
Set-AzContext -SubscriptionId  
$subscriptionID
```

```
Get-AzStorageAccountKey -  
ResourceGroupName $resGroup -Name  
$storAcct
```

```
$secretvalue = ConvertTo-SecureString  
$storAcctkey -AsPlainText  
-Force  
    Set-AzKeyVaultSecret -VaultName  
$vaultName -Name $secretName  
-SecretValue $secretvalue
```

```
Get-AzKeyVaultSecret -VaultName  
$vaultName
```

Step 1: Get-AzSubscription -

If you have multiple subscriptions, you might have to specify the one that was used to create your key vault. Enter the following to see the subscriptions for your account:

Get-AzSubscription -

Step 2: Set-AzContext -SubscriptionId

To specify the subscription that's associated with the key vault you'll be logging, enter:

Set-AzContext -SubscriptionId <subscriptionID>

Step 3: Get-AzStorageAccountKey -

You must get that storage account key.

Step 4: \$secretvalue = ConvertTo-SecureString <storageAccountKey> -AsPlainText -Force

Set-AzKeyVaultSecret -VaultName <vaultName> -Name <secretName> -SecretValue \$secretvalue

After retrieving your secret (in this case, your storage account key), you must convert that key to a secure string, and then create a secret with that value in your key vault.

Step 5: Get-AzKeyVaultSecret -

Next, get the URI for the secret you created. You'll need this URI in a later step to call the key vault and retrieve your secret. Run the following PowerShell command and make note of the ID value, which is the secret's URI:

Get-AzKeyVaultSecret -VaultName <vaultName>

Reference:

<https://docs.microsoft.com/en-us/bs-latn-ba/Azure/key-vault/key-vault-key-rotation-log-monitoring>

by  iiiihhhh at Dec. 7, 2020, 5:31 p.m.

 EXAM AZ-204 TOPIC 4 QUESTION 16 DISCUSSION

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 develop Azure solutions.

You must grant a virtual machine (VM) access to specific resource groups in Azure Resource Manager.

You need to obtain an Azure Resource Manager access token.

Solution: Use an X.509 certificate to authenticate the VM with Azure Resource Manager.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  [Dirk](#) at Aug. 19, 2020, 8:56 a.m.

 EXAM AZ-204 TOPIC 4 QUESTION 17 DISCUSSION

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 develop Azure solutions.

You must grant a virtual machine (VM) access to specific resource groups in Azure Resource Manager.

You need to obtain an Azure Resource Manager access token.

Solution: Use the Reader role-based access control (RBAC) role to authenticate the VM with Azure Resource Manager.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (80%)

A (20%)

by  [Dirk](#) at Aug. 19, 2020, 8:57 a.m.

EXAM AZ-204 TOPIC 4 QUESTION 18 DISCUSSION

HOTSPOT -

You are building a website that is used to review restaurants. The website will use an Azure CDN to improve performance and add functionality to requests.

You build and deploy a mobile app for Apple iPhones. Whenever a user accesses the website from an iPhone, the user must be redirected to the app store.

You need to implement an Azure CDN rule that ensures that iPhone users are redirected to the app store.

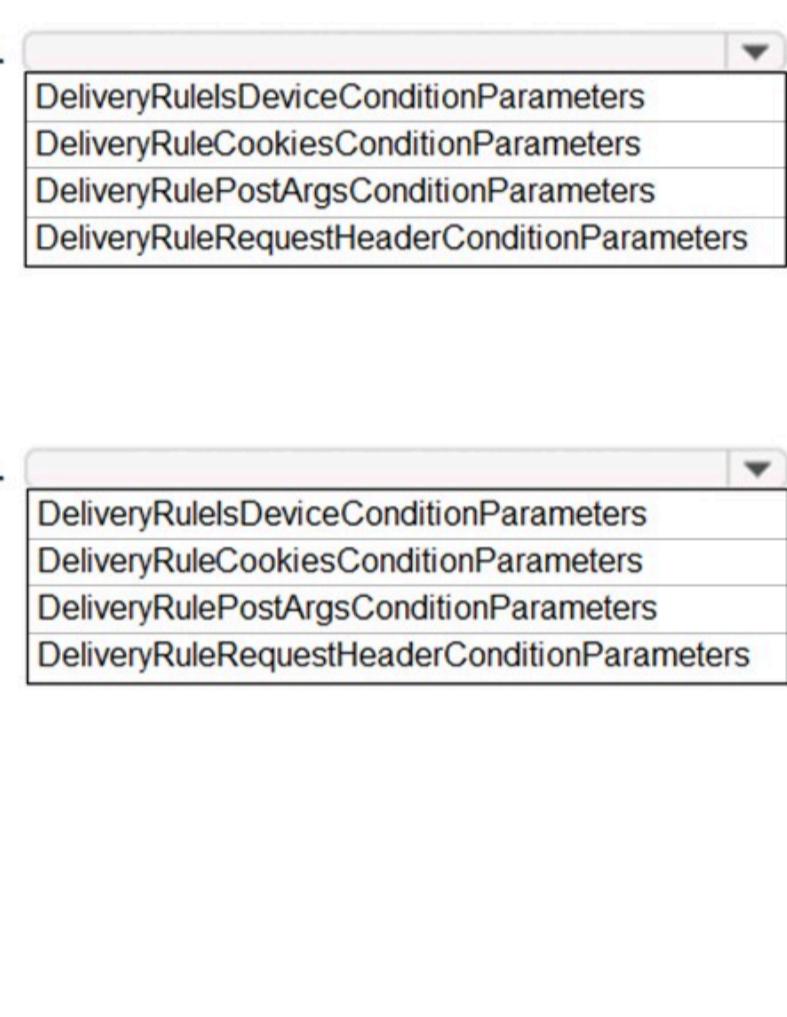
How should you complete the Azure Resource Manager template? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

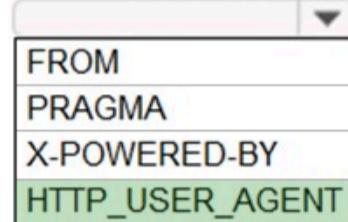
```
"conditions": [ {
    "name": "IsDevice",
    "parameters": {
        "@odata.type": "#Microsoft.Azure.Cdn.Models."
    },
    "operator": "Equal",
    "matchValues": [ "iOS", "Mobile", "iPhone", "Desktop" ],
},
{
    "name": "RequestHeader",
    "parameters": {
        "@odata.type": "#Microsoft.Azure.Cdn.Models."
    },
    "operator": "Contains",
    "selector": "HTTP_USER_AGENT",
    "matchValues": [ "iOS", "Mobile", "iPhone", "Desktop" ]
}]
```



The screenshot shows the 'conditions' section of an Azure Resource Manager template. It contains two conditions: 'IsDevice' and 'RequestHeader'. The 'IsDevice' condition has 'matchValues' set to 'iOS', 'Mobile', 'iPhone', and 'Desktop'. The 'RequestHeader' condition has 'selector' set to 'HTTP_USER_AGENT' and 'matchValues' set to 'iOS', 'Mobile', 'iPhone', and 'Desktop'. Two dropdown menus are open, one for each 'matchValues' list, showing the options: 'iOS', 'Mobile', 'iPhone', and 'Desktop'. A tooltip for the 'RequestHeader' condition says 'DeliveryRuleRequestHeaderConditionParameters'.

Suggested Answer:

Answer Area

```
"conditions": [ {
    "name": "IsDevice",
    "parameters": {
        "@odata.type": "#Microsoft.Azure.Cdn.Models."
    },
    "operator": "Equal",
    "matchValues": [ " "
        
    ]
},
{
    "name": "RequestHeader",
    "parameters": {
        "@odata.type": "#Microsoft.Azure.Cdn.Models."
    },
    "operator": "Contains",
    "selector": " "
        
    "
},
{
    "name": "IsDevice",
    "parameters": {
        "@odata.type": "#Microsoft.Azure.Cdn.Models."
    },
    "operator": "Equal",
    "matchValues": [ " "
        
    ]
}
]
```

Box 1: iOS -

Azure AD Conditional Access supports the following device platforms:

- Android
- iOS
- Windows Phone
- Windows

macOS

.

Box 2: DeliveryRuleIsDeviceConditionParameters

The DeliveryRuleIsDeviceCondition defines the IsDevice condition for the delivery rule. parameters defines the parameters for the condition.

Box 3: HTTP_USER_AGENT -

Incorrect Answers:

- The Pragma HTTP/1.0 general header is an implementation-specific header that may have various effects along the request-response chain. It is used for backwards compatibility with HTTP/1.0 caches.
- "X-Powered-By" is a common non-standard HTTP response header (most headers prefixed with an 'X' are non-standard).

Box 4: DeliveryRuleRequestHeaderConditionParameters

DeliveryRuleRequestHeaderCondition defines the RequestHeader condition for the delivery rule. parameters defines the parameters for the condition.

Box 5: iOS -

The Require approved client app requirement only supports the iOS and Android for device platform condition.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/conditional-access/concept-conditional-access-conditions>

<https://docs.microsoft.com/en-us/azure/active-directory/conditional-access/concept-conditional-access-grant>

EXAM AZ-204 TOPIC 4 QUESTION 19 DISCUSSION

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 are developing a website that will run as an Azure Web App. Users will authenticate by using their Azure Active Directory (Azure AD) credentials.

You plan to assign users one of the following permission levels for the website: admin, normal, and reader. A user's Azure AD group membership must be used to determine the permission level.

You need to configure authorization.

Solution:

- Configure and use Integrated Windows Authentication in the website.
- In the website, query Microsoft Graph API to load the groups to which the user is a member.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (80%)	A (20%)
---------	---------

by  [jokergester](#) at April 3, 2021, 12:35 a.m.

EXAM AZ-204 TOPIC 4 QUESTION 2 DISCUSSION

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 are developing a website that will run as an Azure Web App. Users will authenticate by using their Azure Active Directory (Azure AD) credentials.

You plan to assign users one of the following permission levels for the website: admin, normal, and reader. A user's Azure AD group membership must be used to determine the permission level.

You need to configure authorization.

Solution: Configure the Azure Web App for the website to allow only authenticated requests and require Azure AD log on.

Does the solution meet the goal?

- A. Yes
- B. No

Suggested Answer: B

Community vote distribution

B (83%) A (17%)

by  fadikh at March 3, 2021, 10:05 a.m.

EXAM AZ-204 TOPIC 4 QUESTION 20 DISCUSSION

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 develop Azure solutions.

You must grant a virtual machine (VM) access to specific resource groups in Azure Resource Manager.

You need to obtain an Azure Resource Manager access token.

Solution: Run the Invoke-RestMethod cmdlet to make a request to the local managed identity for Azure resources endpoint.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: A

Community vote distribution

A (92%) 8%

by  [Dirk](#) at Aug. 19, 2020, 8:58 a.m.

EXAM AZ-204 TOPIC 4 QUESTION 21 DISCUSSION

HOTSPOT -

You are building a website to access project data related to teams within your organization. The website does not allow anonymous access. Authentication is performed using an Azure Active Directory (Azure AD) app named internal.

The website has the following authentication requirements:

- Azure AD users must be able to login to the website.
- Personalization of the website must be based on membership in Active Directory groups.

You need to configure the application's manifest to meet the authentication requirements.

How should you configure the manifest? To answer, select the appropriate configuration in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
{  
    ...  
    "appId": "d61126e3-089b-4adb-b721-d5023213df7d",  
    "displayName": "internal",  
    "optionalClaims": ["All"],  
    "groupMembershipClaims": ["groupMembershipClaims"]  
    "allowPublicClient": true  
    "oauth2Permissions": ["requiredResourceAccess"]  
    "requiredResourceAccess": [{"resourceId": "resourceId", "scope": "scope"}]  
    "oauth2AllowImplicitFlow": true  
    ...  
}
```

Answer Area

```
{  
    ...  
    "appId": "d61126e3-089b-4adb-b721-d5023213df7d",  
    "displayName": "internal",  
    "optionalClaims": ["All"],  
    "groupMembershipClaims": ["groupMembershipClaims"]  
    "allowPublicClient": true  
    "oauth2Permissions": ["requiredResourceAccess"]  
    "requiredResourceAccess": [{"resourceId": "resourceId", "scope": "scope"}]  
    "oauth2AllowImplicitFlow": true  
    ...  
}
```

Suggested Answer:

Box 1: groupMembershipClaims -

Scenario: Personalization of the website must be based on membership in Active Directory groups.

Group claims can also be configured in the Optional Claims section of the Application Manifest.

Enable group membership claims by changing the groupMembershipClaim

The valid values are:

- "All"
- "SecurityGroup"
- "DistributionList"
- "DirectoryRole"

Box 2: oauth2Permissions -

Scenario: Azure AD users must be able to login to the website. oauth2Permissions specifies the collection of OAuth 2.0 permission scopes that the web API (resource) app exposes to client apps. These permission scopes may be granted to client apps during consent.

Incorrect Answers:

oauth2AllowImplicitFlow. oauth2AllowImplicitFlow specifies whether this web app can request OAuth2.0 implicit flow access tokens. The default is false. This flag is used for browser-based apps, like Javascript single-page apps.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-fed-group-claims>

by  AakashNeedsEmAll at Nov. 5, 2020, 9:04 a.m.

 EXAM AZ-204 TOPIC 4 QUESTION 22 DISCUSSION

You develop an app that allows users to upload photos and videos to Azure storage. The app uses a storage REST API call to upload the media to a blob storage account named Account1. You have blob storage containers named Container1 and Container2.

Uploading of videos occurs on an irregular basis.

You need to copy specific blobs from Container1 to Container2 when a new video is uploaded.

What should you do?

- A. Copy blobs to Container2 by using the Put Blob operation of the Blob Service REST API
- B. Create an Event Grid topic that uses the Start-AzureStorageBlobCopy cmdlet
- C. Use AzCopy with the Snapshot switch to copy blobs to Container2
- D. Download the blob to a virtual machine and then upload the blob to Container2

Suggested Answer: B

Community vote distribution

B (100%)

by  Secure01 at Nov. 24, 2020, 11:40 p.m.

 EXAM AZ-204 TOPIC 4 QUESTION 23 DISCUSSION

You are developing an ASP.NET Core website that uses Azure FrontDoor. The website is used to build custom weather data sets for researchers. Data sets are downloaded by users as Comma Separated Value (CSV) files. The data is refreshed every 10 hours.

Specific files must be purged from the FrontDoor cache based upon Response Header values.

You need to purge individual assets from the Front Door cache.

Which type of cache purge should you use?

- A. single path
- B. wildcard
- C. root domain

Suggested Answer: A

Community vote distribution

A (92%) 8%

by  Tealon at Dec. 13, 2020, 4:02 p.m.

EXAM AZ-204 TOPIC 4 QUESTION 24 DISCUSSION

Your company is developing an Azure API.

You need to implement authentication for the Azure API. You have the following requirements:

All API calls must be secure.

- - ⇒ Callers to the API must not send credentials to the API.

Which authentication mechanism should you use?

- A. Basic
- B. Anonymous
- C. Managed identity
- D. Client certificate

Suggested Answer: C

Community vote distribution

C (69%)

D (31%)

by  [MasDen](#) at Nov. 4, 2020, 10:07 a.m.

 EXAM AZ-204 TOPIC 4 QUESTION 25 DISCUSSION

You are a developer for a SaaS company that offers many web services.

All web services for the company must meet the following requirements:

Use API Management to access the services

Use OpenID Connect for authentication

Prevent anonymous usage

A recent security audit found that several web services can be called without any authentication.

Which API Management policy should you implement?

- A. jsonp
- B. authentication-certificate
- C. check-header
- D. validate-jwt

Suggested Answer: D

Community vote distribution

D (100%)

by  [Cornholioz](#) at Nov. 27, 2020, 11:31 p.m.

EXAM AZ-204 TOPIC 4 QUESTION 26 DISCUSSION

DRAG DROP -

Contoso, Ltd. provides an API to customers by using Azure API Management (APIM). The API authorizes users with a JWT token.

You must implement response caching for the APIM gateway. The caching mechanism must detect the user ID of the client that accesses data for a given location and cache the response for that user ID.

You need to add the following policies to the policies file:

- a set-variable policy to store the detected user identity
- a cache-lookup-value policy
- a cache-store-value policy
- a find-and-replace policy to update the response body with the user profile information

To which policy section should you add the policies? To answer, drag the appropriate sections to the correct policies. Each section 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

Policy section	Policy	Policy section
	Set-variable	
Inbound	Cache-lookup-value	
Outbound	Cache-store-value	
	Find-and-replace	

Answer Area

Suggested Answer:	Policy section	Policy	Policy section
		Set-variable	Inbound
	Inbound	Cache-lookup-value	Inbound
	Outbound	Cache-store-value	Outbound
		Find-and-replace	Outbound

Box 1: Inbound.

A set-variable policy to store the detected user identity.

Example:

```
<policies>
<inbound>
<!-- How you determine user identity is application dependent -->
<set-variable
name="enduserid"
value="@{context.Request.Headers.GetValueOrDefault("Authorization","").Split(' ')[1].AsJwt()?.Subject}" />
```

Box 2: Inbound -

A cache-lookup-value policy -

Example:

```
<inbound>
<base />
<cache-lookup vary-by-developer="true | false" vary-by-developer-groups="true | false" downstream-caching-type="none | private | public"
must-revalidate="true | false">
<vary-by-query-parameter>parameter name</vary-by-query-parameter> <!-- optional, can be repeated several times -->
</cache-lookup>
</inbound>
```

Box 3: Outbound -

A cache-store-value policy.

Example:

```
<outbound>
<base />
<cache-store duration="3600" />
</outbound>
```

Box 4: Outbound -

A find-and-replace policy to update the response body with the user profile information.

Example:

```
<outbound>
<!-- Update response body with user profile-->
<find-and-replace
from="$UserProfile$"
to="@((string)context.Variables["UserProfile"])" />
<base />
</outbound>
```

Reference:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-caching-policies> <https://docs.microsoft.com/en-us/azure/api-management/api-management-sample-cache-by-key>

by  Ave at Nov. 5, 2020, 6:25 p.m.

EXAM AZ-204 TOPIC 4 QUESTION 27 DISCUSSION

DRAG DROP -

You are developing an Azure solution.

You need to develop code to access a secret stored in Azure Key Vault.

How should you complete the code segment? To answer, drag the appropriate code segments to the correct location. Each code segment 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:

Code segments	Answer Area
DefaultAzureCredential	<code>string var1 = Environment.GetEnvironmentVariable("KEY_VAULT_URI");</code>
ClientSecretCredential	<code>var var2 = new</code> Code segment <code>(new Uri(var1), new</code> Code segment <code>());</code>
CloudClients	
SecretClient	

Suggested Answer:

Code segments	Answer Area
	<code>string var1 = Environment.GetEnvironmentVariable("KEY_VAULT_URI");</code>
ClientSecretCredential	<code>var var2 = new</code> SecretClient <code>(new Uri(var1), new</code> DefaultAzureCredential <code>());</code>
CloudClients	

Box 1: SecretClient -

Box 2: DefaultAzureCredential -

In below example, the name of your key vault is expanded to the key vault URI, in the format "https://<your-key-vault-name>.vault.azure.net". This example is using 'DefaultAzureCredential()' class from Azure Identity Library, which allows to use the same code across different environments with different options to provide identity.

```
string keyVaultName = Environment.GetEnvironmentVariable("KEY_VAULT_NAME");
var kvUri = "https://" + keyVaultName + ".vault.azure.net";
var client = new SecretClient(new Uri(kvUri), new DefaultAzureCredential());
```

Reference:

<https://docs.microsoft.com/en-us/azure/key-vault/secrets/quick-create-net>

by  mlantonis at May 31, 2021, 7:19 p.m.

 EXAM AZ-204 TOPIC 4 QUESTION 28 DISCUSSION

You are developing an Azure App Service REST API.

The API must be called by an Azure App Service web app. The API must retrieve and update user profile information stored in Azure Active Directory (Azure AD).

You need to configure the API to make the updates.

Which two tools should you use? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Microsoft Graph API
- B. Microsoft Authentication Library (MSAL)
- C. Azure API Management
- D. Microsoft Azure Security Center
- E. Microsoft Azure Key Vault SDK

Suggested Answer: AB

Community vote distribution

AB (100%)

by  mlantonis at May 31, 2021, 7:24 p.m.

 EXAM AZ-204 TOPIC 4 QUESTION 29 DISCUSSION

You develop a REST API. You implement a user delegation SAS token to communicate with Azure Blob storage.

The token is compromised.

You need to revoke the token.

What are two possible ways to achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Revoke the delegation key.
- B. Delete the stored access policy.
- C. Regenerate the account key.
- D. Remove the role assignment for the security principle.

Suggested Answer: AD

Community vote distribution

AD (95%)

5%

by  mlantonis at May 31, 2021, 7:29 p.m.

EXAM AZ-204 TOPIC 4 QUESTION 3 DISCUSSION

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 are developing a website that will run as an Azure Web App. Users will authenticate by using their Azure Active Directory (Azure AD) credentials.

You plan to assign users one of the following permission levels for the website: admin, normal, and reader. A user's Azure AD group membership must be used to determine the permission level.

You need to configure authorization.

Solution:

- Create a new Azure AD application. In the application's manifest, set value of the groupMembershipClaims option to All.
- In the website, use the value of the groups claim from the JWT for the user to determine permissions.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: A

Community vote distribution

A (100%)

by  [Marusyk](#) at March 4, 2021, 10:04 p.m.

 EXAM AZ-204 TOPIC 4 QUESTION 30 DISCUSSION

DRAG DROP -

You are developing an Azure-hosted application that must use an on-premises hardware security module (HSM) key.

The key must be transferred to your existing Azure Key Vault by using the Bring Your Own Key (BYOK) process.

You need to securely transfer the key to Azure Key Vault.

Which four 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

Generate a key transfer blob file by using the HSM vendor-provided tool.

Generate a Key Exchange Key (KEK).

Create a custom policy definition in Azure Policy.

Run the `az keyvault key import` command.

Run the `az keyvault key restore` command.

Retrieve the Key Exchange Key (KEK) public key.

Answer Area

Suggested Answer:

Actions

Create a custom policy definition in Azure Policy.

Run the `az keyvault key restore` command.

Answer Area

Generate a Key Exchange Key (KEK).

Retrieve the Key Exchange Key (KEK) public key.

Generate a key transfer blob file by using the HSM vendor-provided tool.

Run the `az keyvault key import` command.

To perform a key transfer, a user performs following steps:

- ⇒ Generate KEK.
- ⇒ Retrieve the public key of the KEK.
- ⇒ Using HSM vendor provided BYOK tool - Import the KEK into the target HSM and exports the Target Key protected by the KEK.
- ⇒ Import the protected Target Key to Azure Key Vault.

Step 1: Generate a Key Exchange Key (KEK).

Step 2: Retrieve the Key Exchange Key (KEK) public key.

Step 3: Generate a key transfer blob file by using the HSM vendor-provided tool.

Generate key transfer blob using HSM vendor provided BYOK tool

Step 4: Run the `az keyvault key import` command

Upload key transfer blob to import HSM-key.

Customer will transfer the Key Transfer Blob ("byok" file) to an online workstation and then run a `az keyvault key import` command to import this blob as a new HSM-backed key into Key Vault.

HSM-backed key into Key Vault.

To import an RSA key use this command:

`az keyvault key import`

Reference:

<https://docs.microsoft.com/en-us/azure/key-vault/keys/byok-specification>

by  aradice at June 30, 2021, 7:21 p.m.

EXAM AZ-204 TOPIC 4 QUESTION 31 DISCUSSION

You develop and deploy an Azure Logic app that calls an Azure Function app. The Azure Function app includes an OpenAPI (Swagger) definition and uses an Azure Blob storage account. All resources are secured by using Azure Active Directory (Azure AD). The Azure Logic app must securely access the Azure Blob storage account. Azure AD resources must remain if the Azure Logic app is deleted. You need to secure the Azure Logic app.

What should you do?

- A. Create a user-assigned managed identity and assign role-based access controls.
- B. Create an Azure AD custom role and assign the role to the Azure Blob storage account.
- C. Create an Azure Key Vault and issue a client certificate.
- D. Create a system-assigned managed identity and issue a client certificate.
- E. Create an Azure AD custom role and assign role-based access controls.

Suggested Answer: A

Community vote distribution

A (100%)

by  aradice at June 30, 2021, 7:21 p.m.

EXAM AZ-204 TOPIC 4 QUESTION 32 DISCUSSION

HOTSPOT -

You are developing an application that uses a premium block blob storage account. You are optimizing costs by automating Azure Blob Storage access tiers.

You apply the following policy rules to the storage account. You must determine the implications of applying the rules to the data. (Line numbers are included for reference only.)

```
01 {
02   "rules": [
03     {
04       "name": "agingDataRule",
05       "enabled": true,
06       "type": "Lifecycle",
07       "definition": {
08         "filters": [
09           "blobTypes": [ "blockBlob" ],
10           "prefixMatch": [ "container1/salesorders", "container2/inventory" ]
11         ],
12         "actions": {
13           "baseBlob": {
14             "tierToCool": { "daysAfterModificationGreaterThan": 60 },
15             "tierToArchive": { "daysAfterModificationGreaterThan": 120 }
16           }
17         }
18       }
19     },
20     {
21       "enabled": true,
22       "name": "lastAccessedDataRule",
23       "type": "Lifecycle",
24       "definition": {
25         "actions": {
26           "baseBlob": {
27             "enableAutoTierToHotFromCool": true,
28             "tierToCool": {
29               "daysAfterLastAccessTimeGreaterThan": 30
30             }
31           }
32         },
33         "filters": [
34           "blobTypes": [ "blockBlob" ]
35         }
36       }
37     },
38     {
39       "rules": [
40         {
41           "name": "expirationDataRule",
42           "enabled": true,
43           "type": "Lifecycle",
44           "definition": {
45             "filters": [
46               "blobTypes": [ "blockBlob" ]
47             ],
48             "actions": {
49               "baseBlob": {
50                 "delete": { "daysAfterModificationGreaterThan": 730 }
51               }
52             }
53           }
54         }
55       ]
56     }
57   ]
58 }
```

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Yes No

Block blobs prefixed with container1/salesorders or container2/inventory which have not been modified in over 60 days are moved to cool storage. Blobs that have not been modified in 120 days are moved to the archive tier.

Blobs are moved to cool storage if they have not been accessed for 30 days.

Blobs will automatically be tiered from cool back to hot if accessed again after being tiered to cool.

All block blobs older than 730 days will be deleted.

Suggested Answer:

Answer Area

Yes No

Block blobs prefixed with container1/salesorders or container2/inventory which have not been modified in over 60 days are moved to cool storage. Blobs that have not been modified in 120 days are moved to the archive tier.

Blobs are moved to cool storage if they have not been accessed for 30 days.

Blobs will automatically be tiered from cool back to hot if accessed again after being tiered to cool.

All block blobs older than 730 days will be deleted.

Box 1: Yes -

```
"rules": [
  {
    "name": "agingDataRule",
    "enabled": true,
    "type": "Lifecycle",
    "definition": {
      "filters": {
        "blobTypes": [ "blockBlob" ],
        "prefixMatch": [ "container1/salesorders", "container2/inventory" ]
      },
      "actions": {
        "baseBlob": {
          "tierToCool": { "daysAfterModificationGreaterThan": 60 },
          "tierToArchive": { "daysAfterModificationGreaterThan": 120 }
        }
      }
    }
]
```

Box 2: Yes -

```
"enabled": true,
"name": "lastAccessedDataRule",
"type": "Lifecycle",
"definition": {
  "actions": {
    "baseBlob": {
      "enableAutoTierToHotFromCool": true,
      "tierToCool": {
        "daysAfterLastAccessTimeGreaterThan": 30
      }
    }
}
```

Box 3: Yes -

Box 4: Yes -

```
"rules": [
  {
    "name": "expirationDataRule",
    "enabled": true,
    "type": "Lifecycle",
    "definition": {
      "filters": {
        "blobTypes": [ "blockBlob" ]
      },
      "actions": {
        "baseBlob": {
          "delete": { "daysAfterModificationGreaterThan": 730 }
        }
      }
    }
]
```

by  Drazz04 at June 30, 2021, 12:48 p.m.

EXAM AZ-204 TOPIC 4 QUESTION 33 DISCUSSION

You are developing a solution that will use a multi-partitioned Azure Cosmos DB database. You plan to use the latest Azure Cosmos DB SDK for development.

The solution must meet the following requirements:

- Send insert and update operations to an Azure Blob storage account.
- Process changes to all partitions immediately.
- Allow parallelization of change processing.

You need to process the Azure Cosmos DB operations.

What are two possible ways to achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Create an Azure App Service API and implement the change feed estimator of the SDK. Scale the API by using multiple Azure App Service instances.
- B. Create a background job in an Azure Kubernetes Service and implement the change feed feature of the SDK.
- C. Create an Azure Function to use a trigger for Azure Cosmos DB. Configure the trigger to connect to the container.
- D. Create an Azure Function that uses a FeedIterator object that processes the change feed by using the pull model on the container. Use a FeedRange object to parallelize the processing of the change feed across multiple functions.

Suggested Answer: CD

Community vote distribution

CD (50%) D (20%) A (15%) Other

by  aradice at June 30, 2021, 7:38 p.m.

EXAM AZ-204 TOPIC 4 QUESTION 34 DISCUSSION

HOTSPOT -

You have an Azure Web app that uses Cosmos DB as a data store. You create a CosmosDB container by running the following PowerShell script:

```
$resourceGroupName = "testResourceGroup"  
$accountName = "testCosmosAccount"  
$databaseName = "testDatabase"  
$containerName = "testContainer"  
$partitionKeyPath = "/EmployeeId"  
$autoscaleMaxThroughput = 5000
```

```
New-AzCosmosDBSqlContainer -  
-ResourceGroupName $resourceGroupName  
-AccountName $accountName  
-DatabaseName $databaseName  
-Name $containerName  
-PartitionKeyKind Hash  
-PartitionKeyPath $partitionKeyPath  
-AutoscaleMaxThroughput $autoscaleMaxThroughput
```

You create the following queries that target the container:

```
SELECT * FROM c WHERE c.EmployeeId > '12345'
```

```
SELECT * FROM c WHERE c.UserId = '12345'
```

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Yes No

The minimum throughput for the container is 400 R/Us.

The first query statement is an in-partition query.

The second query statement is a cross-partition query.

Suggested Answer:

Answer Area

Yes No

The minimum throughput for the container is 400 R/Us.

The first query statement is an in-partition query.

The second query statement is a cross-partition query.

Box 1: No -

You set the highest, or maximum RU/s Tmax you don't want the system to exceed. The system automatically scales the throughput T such that $0.1 * Tmax \leq T \leq Tmax$.

In this example we have autoscaleMaxThroughput = 5000, so the minimum throughput for the container is 500 R/Us.

Box 2: No -

First query: `SELECT * FROM c WHERE c.EmployeeId > '12345'`

Here's a query that has a range filter on the partition key and won't be scoped to a single physical partition. In order to be an in-partition query, the query must have an equality filter that includes the partition key:

```
SELECT * FROM c WHERE c.Deviceld > 'XMS-0001'
```

Box 3: Yes -

Example of In-partition query:

Consider the below query with an equality filter on Deviceld. If we run this query on a container partitioned on Deviceld, this query will filter to a single physical partition.

```
SELECT * FROM c WHERE c.Deviceld = 'XMS-0001'
```

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/how-to-choose-offer> <https://docs.microsoft.com/en-us/azure/cosmos-db/how-to-query-container>

by  txbka at June 30, 2021, 2:36 p.m.

EXAM AZ-204 TOPIC 4 QUESTION 35 DISCUSSION

HOTSPOT -

You are developing a web application that makes calls to the Microsoft Graph API. You register the application in the Azure portal and upload a valid X509 certificate.

You create an appsettings.json file containing the certificate name, client identifier for the application, and the tenant identifier of the Azure Active Directory (Azure AD).

You create a method named ReadCertificate to return the X509 certificate by name.

You need to implement code that acquires a token by using the certificate.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
AuthenticationConfig config = AuthenticationConfig.ReadFromJsonFile("appsettings.json");
X509Certificate2 certificate = ReadCertificate(config.CertificateName);
var app = ConfidentialClientApplicationBuilder  
GetAccountAsync()  
GetAccountsAsync()  
ConfidentialClientApplication
          .Create(config.ClientId)
          .WithCertificate(certificate)
          .WithAuthority(new Uri(config.Authority))
          .Build();
string[] scopes = new string[] { $"{config.ApiUrl}.default" };
AuthenticationResult result = await app.AcquireTokenForClient(scopes  
app  
config)
                                         .ExecuteAsync();
```

Suggested Answer:

Answer Area

```
AuthenticationConfig config = AuthenticationConfig.ReadFromJsonFile("appsettings.json");
X509Certificate2 certificate = ReadCertificate(config.CertificateName);
var app = ConfidentialClientApplicationBuilder
          .Create(config.ClientId)
          .WithCertificate(certificate)
          .WithAuthority(new Uri(config.Authority))
          .Build();
string[] scopes = new string[] { $"{config.ApiUrl}.default" };
AuthenticationResult result = await app.AcquireTokenForClient(scopes  
app  
config)
                                         .ExecuteAsync();
```

Box 1: ConfidentialClientApplicationBuilder

Here's the code to instantiate the confidential client application with a client secret: app =

```
ConfidentialClientApplicationBuilder.Create(config.ClientId)
    .WithClientSecret(config.ClientSecret)
    .WithAuthority(new Uri(config.Authority))
    .Build();
```

Box 2: scopes -

After you've constructed a confidential client application, you can acquire a token for the app by calling AcquireTokenForClient, passing the scope, and optionally forcing a refresh of the token.

```
Sample code: result = await app.AcquireTokenForClient(scopes)
    .ExecuteAsync();
```

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/develop/scenario-daemon-app-configuration> <https://docs.microsoft.com/en-us/azure/active-directory/develop/scenario-daemon-acquire-token>

by  aradice at June 30, 2021, 8:01 p.m.

EXAM AZ-204 TOPIC 4 QUESTION 36 DISCUSSION

HOTSPOT -

You develop a containerized application. You plan to deploy the application to a new Azure Container instance by using a third-party continuous integration and continuous delivery (CI/CD) utility.

The deployment must be unattended and include all application assets. The third-party utility must only be able to push and pull images from the registry. The authentication must be managed by Azure Active Directory (Azure AD). The solution must use the principle of least privilege. You need to ensure that the third-party utility can access the registry.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Authentication	Option
Registry authentication method	<div style="border: 1px solid #ccc; padding: 5px;"><input type="checkbox"/> Service principal <input type="checkbox"/> Individual identity <input type="checkbox"/> Repository-scoped access token <input type="checkbox"/> Managed identity for Azure resources</div>
RBAC role	<div style="border: 1px solid #ccc; padding: 5px;"><input type="checkbox"/> AcrPull <input type="checkbox"/> Owner <input type="checkbox"/> AcrPush <input type="checkbox"/> Contributor</div>

Answer Area

Authentication	Option
Registry authentication method	<div style="border: 1px solid #ccc; padding: 5px;"><input checked="" type="checkbox"/> Service principal <input type="checkbox"/> Individual identity <input type="checkbox"/> Repository-scoped access token <input type="checkbox"/> Managed identity for Azure resources</div>
Suggested Answer: RBAC role	<div style="border: 1px solid #ccc; padding: 5px;"><input type="checkbox"/> AcrPull <input type="checkbox"/> Owner <input checked="" type="checkbox"/> AcrPush <input type="checkbox"/> Contributor</div>

Box 1: Service principal -

Applications and container orchestrators can perform unattended, or "headless," authentication by using an Azure Active Directory (Azure AD) service principal.

Incorrect Answers:

- ☞ Individual AD identity does not support unattended push/pull
- ☞ Repository-scoped access token is not integrated with AD identity
- ☞ Managed identity for Azure resources is used to authenticate to an Azure container registry from another Azure resource.

Box 2: AcrPush -

AcrPush provides pull/push permissions only and meets the principle of least privilege.

Incorrect Answers:

AcrPull only allows pull permissions it does not allow push permissions.

▪

☞ Owner and Contributor allow pull/push permissions but does not meet the principle of least privilege.

Reference:

<https://docs.microsoft.com/en-us/azure/container-registry/container-registry-authentication?tabs=azure-cli> <https://docs.microsoft.com/en-us/azure/container-registry/container-registry-roles?tabs=azure-cli>

by  sghaha at April 29, 2022, 5:34 a.m.

 EXAM AZ-204 TOPIC 4 QUESTION 37 DISCUSSION

You deploy an Azure App Service web app. You create an app registration for the app in Azure Active Directory (Azure AD) and Twitter. The app must authenticate users and must use SSL for all communications. The app must use Twitter as the identity provider. You need to validate the Azure AD request in the app code. What should you validate?

- A. ID token header
- B. ID token signature
- C. HTTP response code
- D. Tenant ID

Suggested Answer: B

Community vote distribution

B (93%) 7%

by  sghaha at April 29, 2022, 5:34 a.m.

 EXAM AZ-204 TOPIC 4 QUESTION 38 DISCUSSION

A development team is creating a new REST API. The API will store data in Azure Blob storage. You plan to deploy the API to Azure App Service.

Developers must access the Azure Blob storage account to develop the API for the next two months. The Azure Blob storage account must not be accessible by the developers after the two-month time period.

You need to grant developers access to the Azure Blob storage account.

What should you do?

- A. Generate a shared access signature (SAS) for the Azure Blob storage account and provide the SAS to all developers.
- B. Create and apply a new lifecycle management policy to include a last accessed date value. Apply the policy to the Azure Blob storage account.
- C. Provide all developers with the access key for the Azure Blob storage account. Update the API to include the Coordinated Universal Time (UTC) timestamp for the request header.
- D. Grant all developers access to the Azure Blob storage account by assigning role-based access control (RBAC) roles.

Suggested Answer: A

Community vote distribution

A (100%)

by  sghaha at April 29, 2022, 5:35 a.m.

EXAM AZ-204 TOPIC 4 QUESTION 39 DISCUSSION

DRAG DROP -

You develop a web application.

You need to register the application with an active Azure Active Directory (Azure AD) tenant.

Which three actions should you perform in sequence? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Actions

Answer Area

Select **Manifest** from the middle-tier service registration.

In Enterprise Applications, select **New application**.

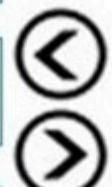
Add a Cryptographic key.

Create a new application and provide the name, account type, and redirect URI.

Select the Azure AD instance.

Use an access token to access the secure resource.

In App Registrations, select **New registration**.



Suggested Answer:

Actions

Answer Area

Select **Manifest** from the middle-tier service registration.

In App Registrations, select **New registration**.

In Enterprise Applications, select **New application**.

Select the Azure AD instance.

Add a Cryptographic key.

Create a new application and provide the name, account type, and redirect URI.



Select the Azure AD instance.

Use an access token to access the secure resource.

In App Registrations, select **New registration**.

1. Sign in to the Azure portal using either a work or school account or a personal Microsoft account.
2. If your account gives you access to more than one tenant, select your account in the upper right corner. Set your portal session to the Azure AD tenant that you want.
3. Search for and select Azure Active Directory. Under Manage, select App registrations.
4. Select New registration. (Step 1)
5. In Register an application, enter a meaningful application name to display to users.
6. Specify who can use the application. Select the Azure AD instance. (Step 2)
7. Under Redirect URI (optional), select the type of app you're building: Web or Public client (mobile & desktop). Then enter the redirect URI, or reply URL, for your application. (Step 3)
8. When finished, select Register.

by  Komat at Nov. 13, 2020, 10:26 p.m.

EXAM AZ-204 TOPIC 4 QUESTION 4 DISCUSSION

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 are developing a website that will run as an Azure Web App. Users will authenticate by using their Azure Active Directory (Azure AD) credentials.

You plan to assign users one of the following permission levels for the website: admin, normal, and reader. A user's Azure AD group membership must be used to determine the permission level.

You need to configure authorization.

Solution:

- ☞ Create a new Azure AD application. In the application's manifest, define application roles that match the required permission levels for the application.
- ☞ Assign the appropriate Azure AD group to each role. In the website, use the value of the roles claim from the JWT for the user to determine permissions.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: A

Community vote distribution

A (59%) B (41%)

by  Adrian1405 at Dec. 9, 2020, 7:04 a.m.

 EXAM AZ-204 TOPIC 4 QUESTION 40 DISCUSSION

You have a new Azure subscription. You are developing an internal website for employees to view sensitive data. The website uses Azure Active Directory (Azure AD) for authentication.

You need to implement multifactor authentication for the website.

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

NOTE: Each correct selection is worth one point.

- A. Configure the website to use Azure AD B2C.
- B. In Azure AD, create a new conditional access policy.
- C. Upgrade to Azure AD Premium.
- D. In Azure AD, enable application proxy.
- E. In Azure AD conditional access, enable the baseline policy.

Suggested Answer: BC

Community vote distribution

BC (100%)

by  Codenoob at Sept. 12, 2020, 11:33 a.m.

EXAM AZ-204 TOPIC 4 QUESTION 41 DISCUSSION

DRAG DROP -

An organization plans to deploy Azure storage services.

You need to configure shared access signature (SAS) for granting access to Azure Storage.

Which SAS types should you use? To answer, drag the appropriate SAS types to the correct requirements. Each SAS 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:

SAS types

Account-level

Service-level

User delegation

Answer Area

Requirement

Delegate access to resources in one or more of the storage services

Delegate access to a resource in a single storage service

Secure a resource by using Azure AD credentials

SAS type

Suggested Answer:

SAS types

Account-level

Service-level

User delegation

Answer Area

Requirement

Delegate access to resources in one or more of the storage services

Delegate access to a resource in a single storage service

Secure a resource by using Azure AD credentials

SAS type

Account-level

Service-level

User delegation

Reference:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-sas-overview>

by  SoftSol at April 27, 2022, 11:21 a.m.

EXAM AZ-204 TOPIC 4 QUESTION 42 DISCUSSION

HOTSPOT -

You are developing an ASP.NET Core app that includes feature flags which are managed by Azure App Configuration. You create an Azure App Configuration store named AppFeatureflagStore as shown in the exhibit:

Key	Label	State	Description	Last modified	...
Export	Export	Off	Ability to export data.	6/11/2020, 9:13:26

You must be able to use the feature in the app by using the following markup:

```
<feature name="Export">
<li class="nav-item">
    <a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-action="Export">Export Data</a>
</li>
</feature>
```

You need to update the app to use the feature flag.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Code section	Value
Controller attribute	<input type="checkbox"/> FeatureGate <input type="checkbox"/> Route <input type="checkbox"/> ServiceFilter <input type="checkbox"/> TypeFilter
Startup method	<input type="checkbox"/> AddAzureAppConfiguration <input type="checkbox"/> AddControllersWithViews <input type="checkbox"/> AddUserSecrets
AppConfig endpoint setting	<input type="checkbox"/> https://appfeatureflagstore.azure.net <input type="checkbox"/> https://appfeatureflagstore.vault.azure.net <input type="checkbox"/> https://export.azure.net <input type="checkbox"/> https://export.vault.azure.net

Suggested Answer:

Answer Area

Code section	Value
Controller attribute	<div style="border: 1px solid black; padding: 5px;"><p>FeatureGate</p><p>Route</p><p>ServiceFilter</p><p>TypeFilter</p></div>
Startup method	<div style="border: 1px solid black; padding: 5px;"><p>AddAzureAppConfiguration</p><p>AddControllersWithViews</p><p>AddUserSecrets</p></div>
AppConfig endpoint setting	<div style="border: 1px solid black; padding: 5px;"><p>https://appfeatureflagstore_azconfig_io</p><p>https://appfeatureflagstore_vault_azure_net</p><p>https://export_azconfig_io</p><p>https://export_vault_azure_net</p></div>

Box 1: FeatureGate -

You can use the FeatureGate attribute to control whether a whole controller class or a specific action is enabled.

Box 2: AddAzureAppConfiguration -

The extension method AddAzureAppConfiguration is used to add the Azure App Configuration Provider.

Box 3: [https://appfeatureflagstore_azconfig.io](https://appfeatureflagstore_azconfig_io)

You need to request the access token with resource=<https://<yourstorename>.azconfig.io>

Reference:

<https://docs.microsoft.com/en-us/azure/azure-app-configuration/use-feature-flags-dotnet-core>

<https://csharp.christiannagel.com/2020/05/19/azureappconfiguration/> <https://stackoverflow.com/questions/61899063/how-to-use-azure-app-configuration-rest-api>

by  sghaha at April 29, 2022, 5:36 a.m.

EXAM AZ-204 TOPIC 4 QUESTION 43 DISCUSSION

HOTSPOT -

You have a single page application (SPA) web application that manages information based on data returned by Microsoft Graph from another company's Azure Active Directory (Azure AD) instance.

Users must be able to authenticate and access Microsoft Graph by using their own company's Azure AD instance.

You need to configure the application manifest for the app registration.

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

NOTE: Each correct selection is worth one point.

Hot Area:

```
{  
  "oauth2AllowImplicitFlow": 

|       |
|-------|
| add   |
| false |
| spa   |
| true  |

,  
  "addIns": [ {  
    "orgRestrictions": "",  
    "availableToOtherTenants": "",  
    "requiredResourceAccess": ""  
  },  
  {"  
    "resourceAppId": "00000003-0000-0000-c000-000000000000",  
    "resourceAccess": [ {  
      "id": "24a6cdd6-fab1-4aaf-91b8-3cc8225e90d0",  
      "type": "Scope"  
    } ] } ],  
  "signInAudience": 

|                                    |
|------------------------------------|
| All                                |
| AzureADMyOrg                       |
| AzureADMultipleOrgs                |
| AzureADandPersonalMicrosoftAccount |

  
}
```

Suggested Answer:

```
{  
  "oauth2AllowImplicitFlow": 

|       |
|-------|
| ▼     |
| add   |
| false |
| spa   |
| true  |

,  
  "": [ {  
    "addIns"  
    "orgRestrictions"  
    "availableToOtherTenants"  
    "requiredResourceAccess"  
  }]  
}  
  "resourceAppId": "00000003-0000-0000-c000-000000000000",  
  "resourceAccess": [  
    {  
      "id" : "24a6cdd6-fab1-4aaf-91b8-3cc8225e90d0",  
      "type": "Scope"  
    }]  
],  
  "signInAudience": "

|                                    |
|------------------------------------|
| ▼                                  |
| All                                |
| AzureADMyOrg                       |
| AzureADMultipleOrgs                |
| AzureADandPersonalMicrosoftAccount |

"  
}  
}
```

Box 1: true -

The oauth2AllowImplicitFlow attribute specifies whether this web app can request OAuth2.0 implicit flow access tokens. The default is false. This flag is used for browser-based apps, like JavaScript single-page apps.

In implicit flow, the app receives tokens directly from the Azure Active Directory (Azure AD) authorize endpoint, without any server-to-server exchange. All authentication logic and session handling is done entirely in the JavaScript client with either a page redirect or a pop-up box.

Box 2: requiredResourceAccess -

With dynamic consent, requiredResourceAccess drives the admin consent experience and the user consent experience for users who are using static consent.

However, this parameter doesn't drive the user consent experience for the general case. resourceAppId is the unique identifier for the resource that the app requires access to. This value should be equal to the appId declared on the target resource app. resourceAccess is an array that lists the OAuth2.0 permission scopes and app roles that the app requires from the specified resource. Contains the id and type values of the specified resources.

Example:

```
"requiredResourceAccess": [  
  {  
    "resourceAppId": "00000002-0000-0000-c000-000000000000",  
    "resourceAccess": [  
      {  
        "id": "311a71cc-e848-46a1-bdf8-97ff7156d8e6",  
        "type": "Scope"  
      }  
    ]  
  }  
]
```

Incorrect Answers:

- ☞ The legacy attribute availableToOtherTenants is no longer supported.
- ☞ The addIns attribute defines custom behavior that a consuming service can use to call an app in specific contexts. For example, applications that can render file streams may set the addIns property for its "FileHandler" functionality. This parameter will let services like Microsoft 365 call the application in the context of a document the user is working on.

Example:

```
"addIns": [
{
"id": "968A844F-7A47-430C-9163-07AE7C31D407",
"type": "FileHandler",
"properties": [
{
"key": "version",
"value": "2"
}
]
}
],
```

Box 3: AzureADMyOrg -

The signInAudience attribute specifies what Microsoft accounts are supported for the current application. Supported values are:

- ⇒ AzureADMyOrg - Users with a Microsoft work or school account in my organization's Azure AD tenant (for example, single tenant)
- ⇒ AzureADMultipleOrgs - Users with a Microsoft work or school account in any organization's Azure AD tenant (for example, multi-tenant)
- ⇒ AzureADandPersonalMicrosoftAccount - Users with a personal Microsoft account, or a work or school account in any organization's Azure AD tenant

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/develop/reference-app-manifest> <https://docs.microsoft.com/en-us/azure/active-directory/develop/v2-oauth2-implicit-grant-flow>

by  sghaha at April 29, 2022, 5:36 a.m.

 EXAM AZ-204 TOPIC 4 QUESTION 44 DISCUSSION

You manage a data processing application that receives requests from an Azure Storage queue.

You need to manage access to the queue. You have the following requirements:

- Provide other applications access to the Azure queue.
- Ensure that you can revoke access to the queue without having to regenerate the storage account keys.
- Specify access at the queue level and not at the storage account level.

Which type of shared access signature (SAS) should you use?

- A. Service SAS with a stored access policy
- B. Account SAS
- C. User Delegation SAS
- D. Service SAS with ad hoc SAS

Suggested Answer: A

Community vote distribution

A (100%)

by  sghaha at April 29, 2022, 6:26 a.m.

EXAM AZ-204 TOPIC 4 QUESTION 45 DISCUSSION

HOTSPOT -

You are developing an application to store and retrieve data in Azure Blob storage. The application will be hosted in an on-premises virtual machine (VM). The

VM is connected to Azure by using a Site-to-Site VPN gateway connection. The application is secured by using Azure Active Directory (Azure AD) credentials.

The application must be granted access to the Azure Blob storage account with a start time, expiry time, and read permissions. The Azure Blob storage account access must use the Azure AD credentials of the application to secure data access. Data access must be able to be revoked if the client application security is breached.

You need to secure the application access to Azure Blob storage.

Which security features should you use? To answer select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Component	Security Feature
Application (Client)	<ul style="list-style-type: none">Storage Account Access KeySystem-assigned Managed IdentityShared access signature (SAS) token
Azure Storage (Server)	<ul style="list-style-type: none">Stored Access PolicyUser-assigned Managed IdentityCross-Origin Resource Sharing (CORS)

Suggested Answer:

Answer Area

Component

Application (Client)

Security Feature

▼
Storage Account Access Key
System-assigned Managed Identity
Shared access signature (SAS) token

Azure Storage (Server)

▼
Stored Access Policy
User-assigned Managed Identity
Cross-Origin Resource Sharing (CORS)

Box 1: Shared access signature (SAS) token

When your application design requires shared access signatures for access to Blob storage, use Azure AD credentials to create a user delegation SAS when possible for superior security.

Box 2: Stored access policy -

Stored access policies give you the option to revoke permissions for a service SAS without having to regenerate the storage account keys. A shared access signature can take one of the following two forms:

☞ Service SAS with stored access policy. A stored access policy is defined on a resource container, which can be a blob container, table, queue, or file share.

The stored access policy can be used to manage constraints for one or more service shared access signatures. When you associate a service SAS with a stored access policy, the SAS inherits the constraints — the start time, expiry time, and permissions — defined for the stored access policy.

☞ Ad hoc SAS.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-sas-overview>

by  eazy_breezy_jeezy at April 29, 2022, 2:27 a.m.

EXAM AZ-204 TOPIC 4 QUESTION 46 DISCUSSION

You are building a web application that uses the Microsoft identity platform for user authentication.

You are implementing user identification for the web application.

You need to retrieve a claim to uniquely identify a user.

Which claim type should you use?

- A. aud
- B. nonce
- C. oid
- D. idp

Suggested Answer: C

Community vote distribution

C (100%)

by  finnishr at Sept. 3, 2022, 10:52 a.m.

 EXAM AZ-204 TOPIC 4 QUESTION 47 DISCUSSION

You are developing an Azure Function that calls external APIs by providing an access token for the API. The access token is stored in a secret named token in an Azure Key Vault named mykeyvault.

You need to ensure the Azure Function can access to the token. Which value should you store in the Azure Function App configuration?

- A. KeyVault:mykeyvault;Secret:token
- B. App:Settings:Secret:mykeyvault:token
- C. AZUREKVCNNSTR_ https://mykeyveult.vault.ezure.net/secrets/token/
- D. @Microsoft.KeyVault(SecretUri=https://mykeyvault.vault.azure.net/secrets/token/)

Suggested Answer: D

Community vote distribution

D (90%) 10%

by  lorenazzo at Sept. 8, 2022, 5:20 p.m.

 EXAM AZ-204 TOPIC 4 QUESTION 48 DISCUSSION

A company maintains multiple web and mobile applications. Each application uses custom in-house identity providers as well as social identity providers.

You need to implement single sign-on (SSO) for all the applications.

What should you do?

- A. Use Azure Active Directory B2C (Azure AD B2C) with custom policies.
- B. Use Azure Active Directory B2B (Azure AD B2B) and enable external collaboration.
- C. Use Azure Active Directory B2C (Azure AD B2C) with user flows.
- D. Use Azure Active Directory B2B (Azure AD B2B).

Suggested Answer: A

Community vote distribution

A (78%)

C (22%)

by  [jeanfmc](#) at Sept. 3, 2022, 8:49 p.m.

EXAM AZ-204 TOPIC 4 QUESTION 49 DISCUSSION

You develop a Python application for image rendering that uses GPU resources to optimize rendering processes. You deploy the application to an Azure Container Instances (ACI) Linux container.

The application requires a secret value to be passed when the container is started. The value must only be accessed from within the container.

You need to pass the secret value.

What are two possible ways to achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Create an environment variable Set the secureValue property to the secret value.
- B. Add the secret value to the container image. Use a managed identity.
- C. Add the secret value to the application code Set the container startup command.
- D. Add the secret value to an Azure Blob storage account. Generate a SAS token.
- E. Mount a secret volume containing the secret value in a secrets file.

Suggested Answer: AE

Community vote distribution

AE (100%)

by  lorenazzzo at Sept. 8, 2022, 6:53 p.m.

EXAM AZ-204 TOPIC 4 QUESTION 5 DISCUSSION

DRAG DROP -

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

The application must allow recovery of an accidental deletion of the key vault or key vault objects. Key vault objects must be retained for 90 days after deletion.

You need to protect the key vault and key vault objects.

Which Azure Key Vault feature should you use? To answer, drag the appropriate features to the correct actions. Each feature 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:

Features	Answer Area	Action	Feature
Access policy		Enable retention period and accidental deletion.	Feature
Purge protection		Enforce retention period and accidental deletion.	Feature

Suggested Answer:

Features	Answer Area	Action	Feature
Access policy		Enable retention period and accidental deletion.	Soft delete
Purge protection		Enforce retention period and accidental deletion.	Purge protection

Box 1: Soft delete -

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.

Box 2: Purge protection -

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.

Reference:

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

by  andsol at March 15, 2021, 8:42 p.m.

 EXAM AZ-204 TOPIC 4 QUESTION 50 DISCUSSION

You are developing a user portal for a company.

You need to create a report for the portal that lists information about employees who are subject matter experts for a specific topic. You must ensure that administrators have full control and consent over the data.

Which technology should you use?

- A. Microsoft Graph data connect
- B. Microsoft Graph API
- C. Microsoft Graph connectors

Suggested Answer: A

Community vote distribution

A (70%)

B (30%)

by  lorenazzo at Sept. 9, 2022, 7:12 p.m.

EXAM AZ-204 TOPIC 4 QUESTION 51 DISCUSSION

HOTSPOT -

You are a developer building a web site using a web app. The web site stores configuration data in Azure App Configuration.

Access to Azure App Configuration has been configured to use the identity of the web app for authentication. Security requirements specify that no other authentication systems must be used.

You need to load configuration data from Azure App Configuration.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
Host .CreateDefaultBuilder(args)
    .ConfigureWebHostDefaults(wb =>
{
    wb.ConfigureAppConfiguration((hc, config) =>
    {
        var settings = config.Build();
        config. (options =>
AddAzureKeyVault
DefaultAzureCredential
ChainedTokenCredential
ManagedIdentityCredential
AddAzureAppConfiguration
options.Connect(new Uri(settings["AppConfig:Endpoint"]),
            new (AddAzureKeyVault
DefaultAzureCredential
ChainedTokenCredential
ManagedIdentityCredential
AddAzureAppConfiguration
))));
    });
});
```

Answer Area

```
Host .CreateDefaultBuilder(args)
    .ConfigureWebHostDefaults(wb =>
{
    wb.ConfigureAppConfiguration((hc, config) =>
    {
        var settings = config.Build();
        config. (options =>
            AddAzureKeyVault
            DefaultAzureCredential
            ChainedTokenCredential
            ManagedIdentityCredential
            AddAzureAppConfiguration
            options.Connect(new Uri(settings["AppConfig:Endpoint"]),
                new ()());
            AddAzureKeyVault
            DefaultAzureCredential
            ChainedTokenCredential
            ManagedIdentityCredential
            AddAzureAppConfiguration
        );
    });
})
```

Suggested Answer:

Box 1: AddAzureAppConfiguration -

Load data from App Configuration, code example:

```
public static IHostBuilder CreateHostBuilder(string[] args) =>
    Host.CreateDefaultBuilder(args)
        .ConfigureWebHostDefaults(webBuilder =>
            webBuilder.ConfigureAppConfiguration((hostingContext, config) =>
{
    var settings = config.Build();
    config.AddAzureAppConfiguration(options =>
{
    Etc.
```

Box 2: ManagedIdentityCredential

Use managed identities to access App Configuration

If you want to use a user-assigned managed identity, be sure to specify the clientId when creating the ManagedIdentityCredential.

```
config.AddAzureAppConfiguration(options =>
{
    options.Connect(new Uri(settings["AppConfig:Endpoint"]), new ManagedIdentityCredential("<your_clientId>"))
});
```

Full code sample:

```
public static IHostBuilder CreateHostBuilder(string[] args) =>
    Host.CreateDefaultBuilder(args)
        .ConfigureWebHostDefaults(webBuilder =>
            webBuilder.ConfigureAppConfiguration((hostingContext, config) =>
{
    var settings = config.Build();
    config.AddAzureAppConfiguration(options =>
        options.Connect(new Uri(settings["AppConfig:Endpoint"]), new ManagedIdentityCredential()));
});
```

.UseStartup<Startup>();

Reference:

<https://docs.microsoft.com/en-us/azure/azure-app-configuration/howto-integrate-azure-managed-service-identity?tabs=core5x&pivots=framework-dotnet>

EXAM AZ-204 TOPIC 4 QUESTION 52 DISCUSSION

HOTSPOT -

You are building an application that stores sensitive customer data in Azure Blob storage. The data must be encrypted with a key that is unique for each customer.

If the encryption key has been corrupted it must not be used for encryption.

You need to ensure that the blob is encrypted.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
Uri blobUri = ... ; TokenCredential c = ...
byte[] key = ...; string verify = ...
var x = new
    AesManaged(key)
    AsnEncodedData(key)
    CustomerProvidedKey(key)
    BlobContainerEncryptionScopeOptions { DefaultEncryptionScope = key }

if (
    x.IV == verify
    x.RawData == verify
    x.Encryption == verify
    x.PreventEncryptionScopeOverride == verify
) {
    var o = new BlobClientOptions()
    {
        = x
        Version
        Transport
        EncryptionScope
        CustomerProvidedKey
    };
    var blobClient = new BlobClient(blobUri, c, o);
}
```

Answer Area

```
Uri blobUri = ... ; TokenCredential c = ...
byte[] key = ...; string verify = ...
var x = new
    AesManaged(key)
    AsnEncodedData(key)
    CustomerProvidedKey(key)
    BlobContainerEncryptionScopeOptions { DefaultEncryptionScope = key }

if (
    x.IV == verify
    x.RawData == verify
    x.Encryption == verify
    x.PreventEncryptionScopeOverride == verify
) {
    var o = new BlobClientOptions()
    {
        = x
        Version
        Transport
        EncryptionScope
        CustomerProvidedKey
    };
    var blobClient = new BlobClient(blobUri, c, o);
}
```

Suggested Answer:

Box 1: CustomerProvidedKey(key)

The data must be encrypted with a key that is unique for each customer.

Sample code:

```
async static Task UploadBlobWithClientKey(Uri blobUri,  
Stream data,  
byte[] key,  
string keySha256)  
{  
    // Create a new customer-provided key.  
    // Key must be AES-256.  
    var cpk = new CustomerProvidedKey(key);
```

Box 2: Encryption -

CustomerProvidedKey.EncryptionKey Property

Sample code continued:

```
// Check the key's encryption hash.  
if (cpk.EncryptionKeyHash != keySha256)  
{  
    throw new InvalidOperationException("The encryption key is corrupted.");  
}
```

Box 3: CustomerProvidedKey -

Sample code continued:

// Specify the customer-provided key on the options for the client.

```
BlobClientOptions options = new BlobClientOptions()  
{
```

CustomerProvidedKey = cpk -

};

// Create the client object with options specified.

```
BlobClient blobClient = new BlobClient(  
blobUri,  
new DefaultAzureCredential(),  
options);
```

Incorrect:

* Version - Gets the BlobClientOptions.ServiceVersion of the service API used when making requests.

Transport - The HttpPipelineTransport to be used for this client.

Reference:

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

by  willchenxa at Sept. 1, 2022, 11:21 a.m.

EXAM AZ-204 TOPIC 4 QUESTION 53 DISCUSSION

HOTSPOT

You are developing a web application that uses the Microsoft Identity platform for user and resource authentication. The web application called several REST APIs.

You are implementing various authentication and authorization flows for the web application.

You need to validate the claims in the authentication token.

Which token type should you use? To answer, select the appropriate options in the answer area.

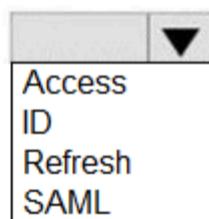
NOTE: Each correct selection is worth one point.

Answer Area

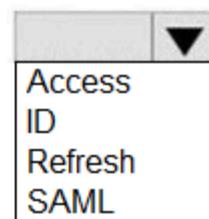
Requirement

Token type

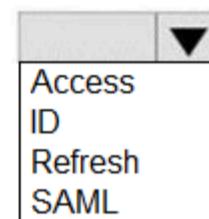
Identify users for the application by using a JWT token that contains claims.



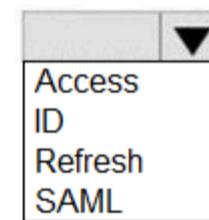
Identify the permissions granted to APIs by using a JWT token that contains claims.



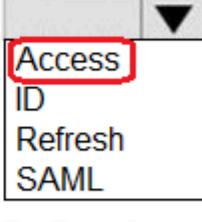
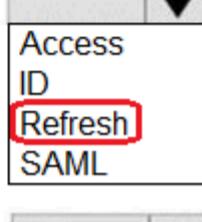
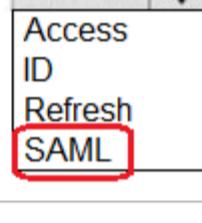
Provide the web application with long-term access to resources on behalf of users without requiring interaction with those users.



Provide XML representations of claims that can be consumed by applications that use WS-Federation.



Answer Area

Requirement	Token type
Identify users for the application by using a JWT token that contains claims.	
Identify the permissions granted to APIs by using a JWT token that contains claims.	
Suggested Answer:	
Provide the web application with long-term access to resources on behalf of users without requiring interaction with those users.	
Provide XML representations of claims that can be consumed by applications that use WS-Federation.	

by  g2000 at Jan. 14, 2023, 10:01 p.m.

EXAM AZ-204 TOPIC 4 QUESTION 54 DISCUSSION

HOTSPOT

You are developing a content management application for technical manuals. The application is deployed as an Azure Static Web app.

Authenticated users can view pages under/manuals but only contributors can access the page /manuals/new.html.

You need to configure the routing for the web app.

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

NOTE: Each correct selection is worth one point.

Answer Area

```
"routes": [
  {
    "route": "/manuals*",
    "allowedRoles": ["contributors", "authenticated"]
  },
  {
    "route": "/manuals/new.html",
    "allowedRoles": []
  }
]
```

Answer Area

```
"routes": [
{
  "route": "/manuals*",
  "allowedRoles": ["contributors", "authenticated"]
},
{
  "route": "/manuals*",
  "allowedRoles": ["contributors", "authenticated"]
}]
```

Suggested Answer:

```
{
  "route": "/manuals*",
  "allowedRoles": ["contributors", "authenticated"]
}
```

by  2fa at Jan. 10, 2023, 9:10 a.m.

 EXAM AZ-204 TOPIC 4 QUESTION 55 DISCUSSION

You are developing a web application that uses the Microsoft identity platform for user and resource authentication. The web application calls several REST APIs.

A REST API call must read the user's calendar. The web application requires permission to send an email as the user.

You need to authorize the web application and the API.

Which parameter should you use?

- A. tenant
- B. code_challenge
- C. state
- D. client_id
- E. scope

Suggested Answer: E

Community vote distribution

E (100%)

by  g2000 at Jan. 14, 2023, 10:09 p.m.

EXAM AZ-204 TOPIC 4 QUESTION 56 DISCUSSION

HOTSPOT

You develop and deploy a web app to Azure App service. The web app allows users to authenticate by using social identity providers through the Azure B2C service. All user profile information is stored in Azure B2C.

You must update the web app to display common user properties from Azure B2C to include the following information:

- Email address
- Job title
- First name
- Last name
- Office location

You need to implement the user properties in the web app.

Which code library and API should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Requirement	Value
API to access user properties	<input type="checkbox"/> Microsoft Graph <input type="checkbox"/> Azure AD Graph <input type="checkbox"/> Azure Key Vault <input type="checkbox"/> Azure AD entitlement management
Code library to interface to Azure AD B2C	<input type="checkbox"/> Microsoft Authentication Library (MSAL) <input type="checkbox"/> Microsoft Azure Key Vault SDK <input type="checkbox"/> Azure Identity library

Requirement	Value
API to access user properties	<input checked="" type="checkbox"/> Microsoft Graph <input type="checkbox"/> Azure AD Graph <input type="checkbox"/> Azure Key Vault <input type="checkbox"/> Azure AD entitlement management
Suggested Answer:	<input checked="" type="checkbox"/> Microsoft Authentication Library (MSAL) <input type="checkbox"/> Microsoft Azure Key Vault SDK <input type="checkbox"/> Azure Identity library

by  g2000 at Jan. 14, 2023, 10:19 p.m.

EXAM AZ-204 TOPIC 4 QUESTION 57 DISCUSSION

HOTSPOT

You develop and deploy the following staticwebapp.config.json file to the app_location value specified in the workflow file of an Azure Static Web app:

```
{  
  "routes": [  
    {  
      "route": "/api/*",  
      "methods": ["GET"],  
      "allowedRoles": ["registeredusers"]  
    },  
    {  
      "route": "/api/*",  
      "methods": ["PUT", "POST", "PATCH", "DELETE"],  
      "allowedRoles": ["administrator"]  
    },  
    {  
      "route": "/login",  
      "rewrite": "./.auth/login/github"  
    },  
    {  
      "route": "./.auth/login/twitter",  
      "statusCode": 404  
    },  
    {  
      "route": "/logout",  
      "redirect": "./.auth/logout"  
    }  
  ],  
  "navigationFallback": {  
    "rewrite": "index.html",  
    "exclude": ["/images/*.{png,jpg,gif}", "/css/**"]  
  },  
  "responseOverrides": {  
    "400": {  
      "rewrite": "/invalid-invitation-error.html"  
    },  
    "401": {  
      "redirect": "./.auth/login/aad",  
      "statusCode": 302  
    },  
    "403": {  
      "rewrite": "/forbidden.html"  
    },  
    "404": {  
      "rewrite": "/404.html"  
    }  
  },  
  "mimeType": {  
    ".json": "text/json"  
  }  
}
```

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

NOTE: Each correct selection is worth one point.

Answer Area

Statements

Yes No

Unauthenticated users are challenged to authenticate with GitHub.

A non-existent file in the /images/ folder will generate a 404 response code.

HTTP GET method requests from authenticated users in the role named **registeredusers** are sent to the API folder.

Authenticated users that are not in the role named **registeredusers** and unauthenticated users are served a 401 HTTP error when accessing the API folder.

Answer Area

Statements

Yes No

Unauthenticated users are challenged to authenticate with GitHub.

A non-existent file in the /images/ folder will generate a 404 response code.

Suggested Answer: HTTP GET method requests from authenticated users in the role named **registeredusers** are sent to the API folder.

Authenticated users that are not in the role named **registeredusers** and unauthenticated users are served a 401 HTTP error when accessing the API folder.

by  whiteblack at Jan. 11, 2023, 7:57 a.m.

 EXAM AZ-204 TOPIC 4 QUESTION 58 DISCUSSION

You develop and deploy an Azure App Service web app named App1. You create a new Azure Key Vault named Vault1. You import several API keys, passwords, certificates, and cryptographic keys into Vault1.

You need to grant App1 access to Vault1 and automatically rotate credentials. Credentials must not be stored in code.

What should you do?

- A. Enable App Service authentication for App1. Assign a custom RBAC role to Vault1.
- B. Add a TLS/SSL binding to App1.
- C. Upload a self-signed client certificate to Vault1. Update App1 to use the client certificate.
- D. Assign a managed identity to App1.

Suggested Answer: D

Community vote distribution

D (100%)

by  alexein74 at Jan. 25, 2023, 4:24 p.m.

 EXAM AZ-204 TOPIC 4 QUESTION 59 DISCUSSION

You are developing a Java application to be deployed in Azure. The application stores sensitive data in Azure Cosmos DB.

You need to configure Always Encrypted to encrypt the sensitive data inside the application.

What should you do first?

- A. Create a new container to include an encryption policy with the JSON properties to be encrypted.
- B. Create a customer-managed key (CMK) and store the key in a new Azure Key Vault instance.
- C. Create a data encryption key (DEK) by using the Azure Cosmos DB SDK and store the key in Azure Cosmos DB.
- D. Create an Azure AD managed identity and assign the identity to a new Azure Key Vault instance.

Suggested Answer: *B*

Community vote distribution

B (100%)

by  [Samueleghagh](#) at Jan. 12, 2023, 1:18 p.m.

 EXAM AZ-204 TOPIC 4 QUESTION 6 DISCUSSION

You provide an Azure API Management managed web service to clients. The back-end web service implements HTTP Strict Transport Security (HSTS).

Every request to the backend service must include a valid HTTP authorization header.

You need to configure the Azure API Management instance with an authentication policy.

Which two policies can you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Basic Authentication
- B. Digest Authentication
- C. Certificate Authentication
- D. OAuth Client Credential Grant

Suggested Answer: AC

Community vote distribution

AC (60%)

AD (40%)

by  Nielson at Feb. 4, 2021, 8:52 a.m.

EXAM AZ-204 TOPIC 4 QUESTION 60 DISCUSSION

HOTSPOT

You develop a web app that interacts with Azure Active Directory (Azure AD) groups by using Microsoft Graph.

You build a web page that shows all Azure AD groups that are not of the type 'Unified'.

You need to build the Microsoft Graph query for the page.

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

NOTE: Each correct selection is worth one point.

Answer Area

`https://graph.microsoft.com/v1.0/groups?`

filter
search
contain

=
`groupTypes/any(s:s ne 'Unified')
not groupTypes/contains('Unified')
not groupTypes/any(s:s eq 'Unified')
groupTypes/contains('Unified') eq false`

`&$`

`$top=true
$count=true
$filter=nested
$consistencylevel=eventual`

Answer Area

`https://graph.microsoft.com/v1.0/groups?`

filter
search
contain

=
`groupTypes/any(s:s ne 'Unified')
not groupTypes/contains('Unified')
not groupTypes/any(s:s eq 'Unified')
groupTypes/contains('Unified') eq false`

Suggested Answer:

`&$`

`$top=true
$count=true
$filter=nested
$consistencylevel=eventual`

by  g2000 at Jan. 15, 2023, 3:09 a.m.

EXAM AZ-204 TOPIC 4 QUESTION 61 DISCUSSION

DRAG DROP

You are developing an Azure solution.

You need to develop code to access a secret stored in Azure Key Vault.

How should you complete the code segment? To answer, drag the appropriate code segments to the correct location. Each code segment 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.

Code segments

DefaultAzureCredential

ClientSecretCredential

CloudClients

SecretClient

Answer area

```
def get_secret():

    var1 = os.environ.get("KEY_VAULT_URI")

    var2 = [REDACTED] (var1, [REDACTED]())

    var3 = var2.get_secret("secret" )

    return "secret value {}" .format(var3.value)
```

Answer area

```
def get_secret():

    var1 = os.environ.get("KEY_VAULT_URI")

    var2 = SecretClient [REDACTED] {var1, DefaultAzureCredential ()}

    var3 = var2.get_secret("secret" )

    return "secret value {}" .format(var3.value)
```

by  g2000 at Jan. 15, 2023, 3:32 a.m.

EXAM AZ-204 TOPIC 4 QUESTION 62 DISCUSSION

HOTSPOT

You are a developer building a web site using a web app. The web site stores configuration data in Azure App Configuration.

Access to Azure App Configuration has been configured to use the identity of the web app for authentication. Security requirements specify that no other authentication systems must be used.

You need to load configuration data from Azure App Configuration.

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

NOTE: Each correct selection is worth one point.

```
from azure.identity import [▼]
    DefaultAzureCredential
    ChainedTokenCredential
    ManagedIdentityCredential
    AddAzureAppConfiguration

from azure.app.configuration import [▼]
    DefaultAzureCredential
    ChainedTokenCredential
    ManagedIdentityCredential
    AddAzureAppConfiguration

credential = [▼] ()  
    DefaultAzureCredential
    ChainedTokenCredential
    ManagedIdentityCredential
    AddAzureAppConfiguration

client = [▼] (base_url="...", credential=credential)
    DefaultAzureCredential
    ChainedTokenCredential
    ManagedIdentityCredential
    AddAzureAppConfiguration
```

```
from azure.identity import [▼]
    DefaultAzureCredential
    ChainedTokenCredential
    ManagedIdentityCredential
    AddAzureAppConfiguration
```

```
from azure.app.configuration import [▼]
    DefaultAzureCredential
    ChainedTokenCredential
    ManagedIdentityCredential
    AddAzureAppConfiguration
```

Suggested Answer:

```
credential = [▼] ()  
    DefaultAzureCredential  
    ChainedTokenCredential  
    ManagedIdentityCredential  
    AddAzureAppConfiguration

client = [▼] (base_url="...", credential=credential)
    DefaultAzureCredential  
    ChainedTokenCredential  
    ManagedIdentityCredential  
    AddAzureAppConfiguration
```


EXAM AZ-204 TOPIC 4 QUESTION 63 DISCUSSION

You are developing several microservices to deploy to a new Azure Kubernetes Service cluster. The microservices manage data stored in Azure Cosmos DB and Azure Blob storage. The data is secured by using customer-managed keys stored in Azure Key Vault.

You must automate key rotation for all Azure Key Vault keys and allow for manual key rotation. Keys must rotate every three months. Notifications of expiring keys must be sent before key expiry.

You need to configure key rotation and enable key expiry notifications.

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

NOTE: Each correct selection is worth one point.

- A. Create and configure a new Azure Event Grid instance.
- B. Configure Azure Key Vault alerts.
- C. Create and assign an Azure Key Vault access policy.
- D. Create and configure a key rotation policy during key creation.

Suggested Answer: AD

Community vote distribution

AD (70%)	BD (28%)	3%
----------	----------	----

by  [halfway](#) at April 19, 2023, 2:12 p.m.

 EXAM AZ-204 TOPIC 4 QUESTION 64 DISCUSSION

You are developing a web application that uses the Microsoft identity platform to authenticate users and resources. The web application calls several REST APIs.

The APIs require an access token from the Microsoft identity platform.

You need to request a token.

Which three properties should you use? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Redirect URI/URL
- B. Application ID
- C. Application name
- D. Application secret
- E. Supported account type

Suggested Answer: ABD

Community vote distribution

ABD (100%)

by  Steffexx at July 7, 2023, 11:24 a.m.

HOTSPOT

You are developing an application that uses Azure Storage to store customer data. The data must only be decrypted by the customer and the customer must be provided a script to rotate keys.

You need to provide a script to rotate keys to the customer.

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

```
$h = $(az keyvault show --hsm-name ... --query "properties.hsmUri"  
$x = az keyvault list-versions --name ""  
key  
secret  
recover  
certificate  
--vault-name "" --query "[0].kid"  
az storage account update  
--name ... \  
--resource-group ... \  
--encryption-key-name ... \  
--encryption-key-version $x \  
--encryption-key-source Microsoft.Secret  
Microsoft.Storage  
Microsoft.Keyvault  
Microsoft.Certificate  
--encryption-key-vault $h
```

Answer Area

```
$h = $(az keyvault show --hsm-name ... --query "properties.hsmUri"  
$x = az keyvault key list-versions --name ""  
az storage account update  
--name ... \  
--resource-group ... \  
--encryption-key-name ... \  
--encryption-key-version $x \  
--encryption-key-source Microsoft.KeyVault  
--encryption-key-vault $h
```

by  CloudlessCloud at July 14, 2023, 8:41 p.m.

 EXAM AZ-204 TOPIC 4 QUESTION 66 DISCUSSION

You are developing several Azure API Management (APIM) hosted APIs.

You must transform the APIs to hide private backend information and obscure the technology stack used to implement the backend processing.

You need to protect all APIs.

What should you do?

- A. Configure and apply a new inbound policy scoped to a product.
- B. Configure and apply a new outbound policy scoped to the operation.
- C. Configure and apply a new outbound policy scoped to global.
- D. Configure and apply a new backend policy scoped to global.

Suggested Answer: C

Community vote distribution

C (73%)	B (27%)
---------	---------

by  Firo at July 31, 2023, 7:20 a.m.

 EXAM AZ-204 TOPIC 4 QUESTION 67 DISCUSSION

HOTSPOT

You are developing an Azure Function App named App1. You also plan to use cross-origin requests (CORS).

You have the following requirements:

- App1 functions must securely access an Azure Blob Storage account.
- Access to the Azure Blob Storage account must not require the provisioning or rotation of secrets.
- JavaScript code running in a browser on an external host must not be allowed to interact with the function.

You need to implement App1.

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

NOTE: Each correct selection is worth one point.

Answer Area

Requirement	Configuration value
Azure Blob Storage access	<input type="checkbox"/> Client secret credentials <input type="checkbox"/> User-assigned managed identity <input type="checkbox"/> System-assigned managed identity
Disallow access from other domains	<input type="checkbox"/> Configure CORS allowed origins to * <input type="checkbox"/> Configure CORS allowed origins to none <input type="checkbox"/> Configure CORS allowed origins to disable

Answer Area

Requirement	Configuration value
Azure Blob Storage access	<input type="checkbox"/> Client secret credentials <input type="checkbox"/> User-assigned managed identity <input checked="" type="checkbox"/> System-assigned managed identity
Disallow access from other domains	<input type="checkbox"/> Configure CORS allowed origins to * <input checked="" type="checkbox"/> Configure CORS allowed origins to none <input type="checkbox"/> Configure CORS allowed origins to disable

EXAM AZ-204 TOPIC 4 QUESTION 68 DISCUSSION

HOTSPOT

You develop a containerized application. The application must be deployed to an existing Azure Kubernetes Service (AKS) cluster from an Azure Container Registry (ACR) instance. You use the Azure command-line interface (Azure CLI) to deploy the application image to AKS.

Images must be pulled from the registry. You must be able to view all registries within the current Azure subscription. Authentication must be managed by Microsoft Entra ID and removed when the registry is deleted. The solution must use the principle of least privilege.

You need to configure authentication to the registry.

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

NOTE: Each correct selection is worth one point.

Answer Area

Authentication

Registry authentication method

Configuration Value

Service principal
Repository-scoped access token
User-assigned managed identity
System-assigned managed identity

Registry Azure role-based access control (Azure RBAC) role

Reader
AcrPush
AcrPull
Contributor

Answer Area

Authentication

Registry authentication method

Configuration Value

Service principal
Repository-scoped access token
User-assigned managed identity
System-assigned managed identity

Suggested Answer:

Registry Azure role-based access control (Azure RBAC) role

Reader
AcrPush
AcrPull
Contributor

EXAM AZ-204 TOPIC 4 QUESTION 69 DISCUSSION

Case study -

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study -

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. When you are ready to answer a question, click the Question button to return to the question.

Background -

Munson's Pickles and Preserves Farm is an agricultural cooperative corporation based in Washington, US, with farms located across the United States. The company supports agricultural production resources by distributing seeds fertilizers, chemicals, fuel, and farm machinery to the farms.

Current Environment -

The company is migrating all applications from an on-premises datacenter to Microsoft Azure. Applications support distributors, farmers, and internal company staff.

Corporate website -

- The company hosts a public website located at <http://www.munsonspicklesandpreservesfarm.com>. The site supports farmers and distributors who request agricultural production resources.

Farms -

- The company created a new customer tenant in the Microsoft Entra admin center to support authentication and authorization for applications.

Distributors -

- Distributors integrate their applications with data that is accessible by using APIs hosted at <http://www.munsonspicklesandpreservesfarm.com/api> to receive and update resource data.

Requirements -

The application components must meet the following requirements:

Corporate website -

- The site must be migrated to Azure App Service.
- Costs must be minimized when hosting in Azure.
- Applications must automatically scale independent of the compute resources.
- All code changes must be validated by internal staff before release to production.
- File transfer speeds must improve, and webpage-load performance must increase.
- All site settings must be centrally stored, secured without using secrets, and encrypted at rest and in transit.
- A queue-based load leveling pattern must be implemented by using Azure Service Bus queues to support high volumes of website agricultural production resource requests.

Farms -

- Farmers must authenticate to applications by using Microsoft Entra ID.

Distributors -

- The company must track a custom telemetry value with each API call and monitor performance of all APIs.
- API telemetry values must be charted to evaluate variations and trends for resource data.

Internal staff -

- App and API updates must be validated before release to production.
- Staff must be able to select a link to direct them back to the production app when validating an app or API update.
- Staff profile photos and email must be displayed on the website once they authenticate to applications by using their Microsoft Entra ID.

Security -

- All web communications must be secured by using TLS/HTTPS.
- Web content must be restricted by country/region to support corporate compliance standards.
- The principle of least privilege must be applied when providing any user rights or process access rights.
- Managed identities for Azure resources must be used to authenticate services that support Microsoft Entra ID authentication.

Issues -

Corporate website -

- Farmers report HTTP 503 errors at the same time as internal staff report that CPU and memory usage are high.
- Distributors report HTTP 502 errors at the same time as internal staff report that average response times and networking traffic are high.
- Internal staff report webpage load sizes are large and take a long time to load.
- Developers receive authentication errors to Service Bus when they debug locally.

Distributors -

- Many API telemetry values are sent in a short period of time. Telemetry traffic, data costs, and storage costs must be reduced while preserving a statistically correct analysis of the data points sent by the APIs.

You need to implement farmer authentication.

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

NOTE: Each correct selection is worth one point.

- A. Add the shared access signature (SAS) token to the app.
- B. Create a shared access signature (SAS) token.

- C. Create a user flow.
- D. Add the app to the user flow.
- E. Register the app in Microsoft Entra ID.

Suggested Answer: CDE

Community vote distribution

CDE (100%)

by  Ciupaz at Jan. 6, 2024, 9:41 a.m.

EXAM AZ-204 TOPIC 4 QUESTION 7 DISCUSSION

DRAG DROP -

You are developing an ASP.NET Core website that can be used to manage photographs which are stored in Azure Blob Storage containers.

Users of the website authenticate by using their Azure Active Directory (Azure AD) credentials.

You implement role-based access control (RBAC) role permissions on the containers that store photographs. You assign users to RBAC roles.

You need to configure the website's Azure AD Application so that user's permissions can be used with the Azure Blob containers.

How should you configure the application? To answer, drag the appropriate setting to the correct location. Each setting can 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:

Settings	Answer Area	API	Permission	Type
client_id		Azure Storage	Setting	Setting
profile		Microsoft Graph	User.Read	Setting
delegated				
application				
user_impersonation				

Suggested Answer:

Settings	Answer Area	API	Permission	Type
client_id		Azure Storage	user_impersonation	delegated
profile		Microsoft Graph	User.Read	delegated
delegated				
application				
user_impersonation				

Box 1: user_impersonation -

Box 2: delegated -

Example:

1. Select the API permissions section
2. Click the Add a permission button and then:
Ensure that the My APIs tab is selected
3. In the list of APIs, select the API TodoListService-aspnetcore.
4. In the Delegated permissions section, ensure that the right permissions are checked: user_impersonation.
5. Select the Add permissions button.

Box 3: delegated -

Example -

1. Select the API permissions section
2. Click the Add a permission button and then,
Ensure that the Microsoft APIs tab is selected
3. In the Commonly used Microsoft APIs section, click on Microsoft Graph
4. In the Delegated permissions section, ensure that the right permissions are checked: User.Read. Use the search box if necessary.
5. Select the Add permissions button

Reference:

<https://docs.microsoft.com/en-us/samples/azure-samples/active-directory-dotnet-webapp-webapi-openidconnect-aspnetcore/calling-a-web-api-in-an-aspnet-core-web-application-using-azure-ad/>

EXAM AZ-204 TOPIC 4 QUESTION 71 DISCUSSION

HOTSPOT

Case study

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To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

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To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. When you are ready to answer a question, click the Question button to return to the question.

Background

Munson's Pickles and Preserves Farm is an agricultural cooperative corporation based in Washington, US, with farms located across the United States. The company supports agricultural production resources by distributing seeds fertilizers, chemicals, fuel, and farm machinery to the farms.

Current Environment

The company is migrating all applications from an on-premises datacenter to Microsoft Azure. Applications support distributors, farmers, and internal company staff.

Corporate website

- The company hosts a public website located at <http://www.munsonspicklesandpreservesfarm.com>. The site supports farmers and distributors who request agricultural production resources.

Farms

- The company created a new customer tenant in the Microsoft Entra admin center to support authentication and authorization for applications.

Distributors

- Distributors integrate their applications with data that is accessible by using APIs hosted at <http://www.munsonspicklesandpreservesfarm.com/api> to receive and update resource data.

Requirements

The application components must meet the following requirements:

Corporate website

- The site must be migrated to Azure App Service.
- Costs must be minimized when hosting in Azure.
- Applications must automatically scale independent of the compute resources.
- All code changes must be validated by internal staff before release to production.
- File transfer speeds must improve, and webpage-load performance must increase.
- All site settings must be centrally stored, secured without using secrets, and encrypted at rest and in transit.
- A queue-based load leveling pattern must be implemented by using Azure Service Bus queues to support high volumes of website agricultural production resource requests.

Farms

- Farmers must authenticate to applications by using Microsoft Entra ID.

Distributors

- The company must track a custom telemetry value with each API call and monitor performance of all APIs.
- API telemetry values must be charted to evaluate variations and trends for resource data.

Internal staff

- App and API updates must be validated before release to production.
- Staff must be able to select a link to direct them back to the production app when validating an app or API update.
- Staff profile photos and email must be displayed on the website once they authenticate to applications by using their Microsoft Entra ID.

Security

- All web communications must be secured by using TLS/HTTPS.
- Web content must be restricted by country/region to support corporate compliance standards.
- The principle of least privilege must be applied when providing any user rights or process access rights.
- Managed identities for Azure resources must be used to authenticate services that support Microsoft Entra ID authentication.

Issues

Corporate website

- Farmers report HTTP 503 errors at the same time as internal staff report that CPU and memory usage are high.

- Distributors report HTTP 502 errors at the same time as internal staff report that average response times and networking traffic are high.
- Internal staff report webpage load sizes are large and take a long time to load.
- Developers receive authentication errors to Service Bus when they debug locally.

Distributors

- Many API telemetry values are sent in a short period of time. Telemetry traffic, data costs, and storage costs must be reduced while preserving a statistically correct analysis of the data points sent by the APIs.

You need to display the profile photo and email for signed-in internal staff on the website.

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

NOTE: Each correct selection is worth one point.

Microsoft Graph configuration

Configuration setting	Configuration value
Endpoint	<input type="text"/> /v1.0/me /v1.0/me/people/?\$search=me /v1.0/users?\$select=profilePhoto,mail
Permission	<input type="text"/> User.Read User.Export.All User.ReadWrite User.ManageIdentities.All

Microsoft Graph configuration

Configuration setting	Configuration value
Endpoint	<input type="text"/> /v1.0/me /v1.0/me/people/?\$search=me /v1.0/users?\$select=profilePhoto,mail
Suggested Answer:	<input type="text"/> User.Read User.Export.All User.ReadWrite User.ManageIdentities.All

 EXAM AZ-204 TOPIC 4 QUESTION 73 DISCUSSION

You are developing an application that uses keys stored in Azure Key Vault.

You need to enforce a specific cryptographic algorithm and key size for keys stored in the vault.

What should you use?

- A. Secret versioning
- B. Azure Policy
- C. Key Vault Firewall
- D. Access policies

Suggested Answer: *B*

Community vote distribution

B (100%)

by  Ciupaz at Jan. 6, 2024, 9:07 a.m.

EXAM AZ-204 TOPIC 4 QUESTION 74 DISCUSSION

HOTSPOT

A company has an Azure storage static website with a custom domain name.

The company informs you that unauthorized users from a different country/region are accessing the website. The company provides the following requirements for the static website:

- Unauthorized users must not be able to access the website.
- Users must be able to access the website using the HTTPS protocol.

You need to implement the changes to the static website.

What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Requirement

Prevent access from unauthorized users.

Solution

Configure a firewall rule on the storage account.
Configure the public access level of the web container to Blob.
Configure the storage account to use Microsoft Entra ID authentication.
Configure the AllowBlobPublicAccess property for the storage account to False.

Require HTTPS access to the website.

Enable Azure Content Delivery Network on the storage account.
Configure the storage account to require secure transfer.
Configure Azure Traffic Manager for incoming traffic to the website.

Answer Area

Requirement

Prevent access from unauthorized users.

Solution

Configure a firewall rule on the storage account.
Configure the public access level of the web container to Blob.
Configure the storage account to use Microsoft Entra ID authentication.
Configure the AllowBlobPublicAccess property for the storage account to False.

Suggested Answer:

Require HTTPS access to the website.

Enable Azure Content Delivery Network on the storage account.
Configure the storage account to require secure transfer.
Configure Azure Traffic Manager for incoming traffic to the website.

by  c75314a at Oct. 21, 2024, 9:03 a.m.

EXAM AZ-204 TOPIC 4 QUESTION 75 DISCUSSION

DRAG DROP

Case study

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. When you are ready to answer a question, click the Question button to return to the question.

Background

Fourth Coffee is a global coffeehouse chain and coffee company recognized as one of the world's most influential coffee brands. The company is renowned for its specialty coffee beverages, including a wide range of espresso-based drinks, teas, and other beverages. Fourth Coffee operates thousands of stores worldwide.

Current environment

The company is developing cloud-native applications hosted in Azure.

Corporate website

The company hosts a public website located at <http://www.fourthcoffee.com/>. The website is used to place orders as well as view and update inventory items.

Inventory items

In addition to its core coffee offerings, Fourth Coffee recently expanded its menu to include inventory items such as lunch items, snacks, and merchandise. Corporate team members constantly update inventory. Users can customize items. Corporate team members configure inventory items and associated images on the website.

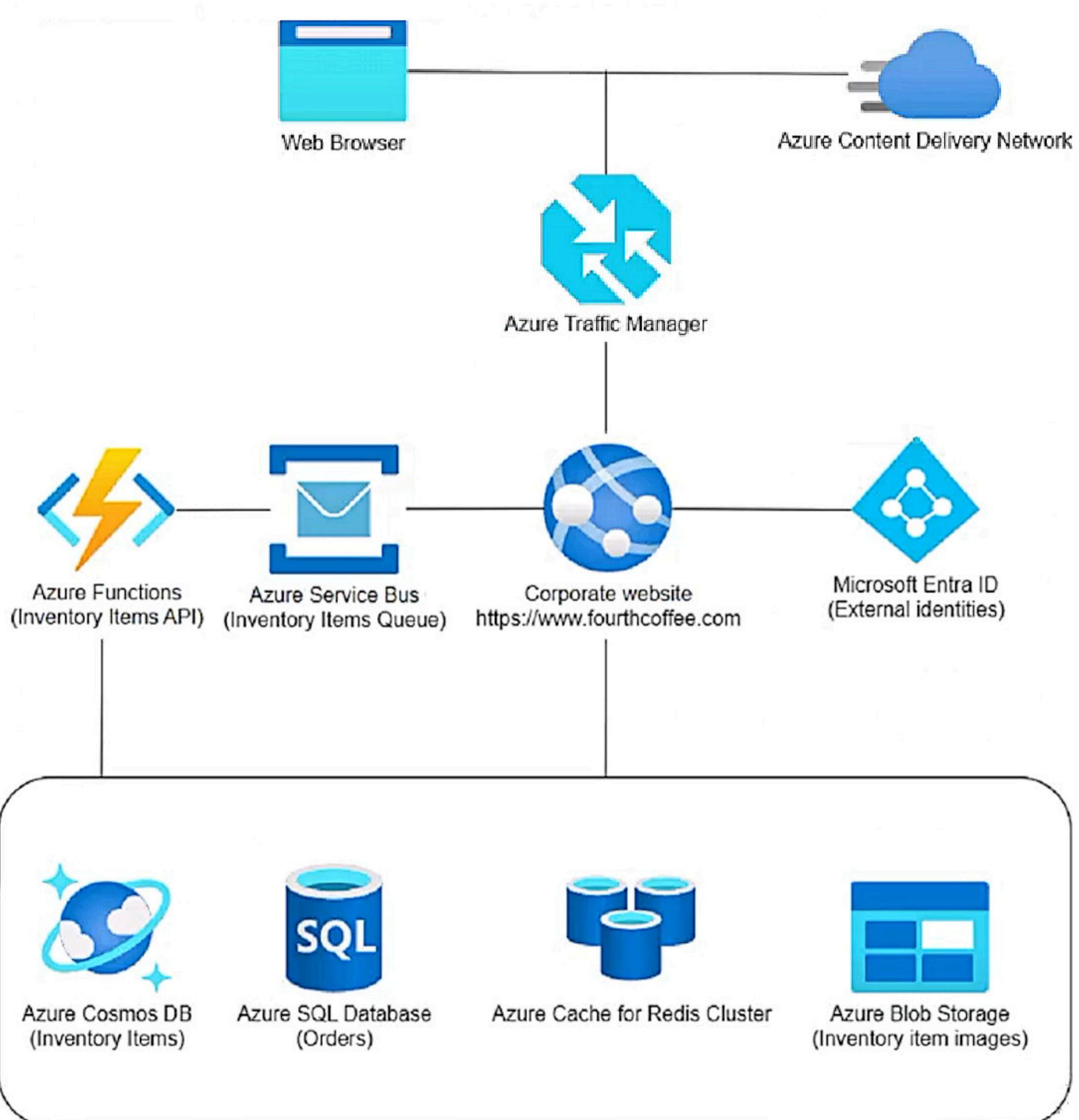
Orders

-
Associates in the store serve customized beverages and items to customers. Orders are placed on the website for pickup.

The application components process data as follows:

1. Azure Traffic Manager routes a user order request to the corporate website hosted in Azure App Service.
2. Azure Content Delivery Network serves static images and content to the user.
3. The user signs in to the application through a Microsoft Entra ID for customers tenant.
4. Users search for items and place an order on the website as item images are pulled from Azure Blob Storage.
5. Item customizations are placed in an Azure Service Bus queue message.
6. Azure Functions processes item customizations and saves the customized items to Azure Cosmos DB.
7. The website saves order details to Azure SQL Database.
8. SQL Database query results are cached in Azure Cache for Redis to improve performance.

The application consists of the following Azure services:



The application components must meet the following requirements:

- Azure Cosmos DB development must use a native API that receives the latest updates and stores data in a document format.
- Costs must be minimized for all Azure services.
- Developers must test Azure Blob Storage integrations locally before deployment to Azure. Testing must support the latest versions of the Azure Storage APIs.

Corporate website

- User authentication and authorization must allow one-time passcode sign-in methods and social identity providers (Google or Facebook).
- Static web content must be stored closest to end users to reduce network latency.

Inventory items

- Customized items read from Azure Cosmos DB must maximize throughput while ensuring data is accurate for the current user on the website.
- Processing of inventory item updates must automatically scale and enable updates across an entire Azure Cosmos DB container.
- Inventory items must be processed in the order they were placed in the queue.
- Inventory item images must be stored as JPEG files in their native format to include exchangeable image file format (data) stored with the blob data upon upload of the image file.
- The Inventory Items API must securely access the Azure Cosmos DB data.

Orders

- Orders must receive inventory item changes automatically after inventory items are updated or saved.

Issues

- Developers are storing the Azure Cosmos DB credentials in an insecure clear text manner within the Inventory Items API code.
- Production Azure Cache for Redis maintenance has negatively affected application performance.

You need to secure the corporate website for users.

Which four 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.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Corporate website security configuration

Register the web app with Microsoft Entra.

Create a user flow and associate the function app.

Create a client secret.

Grant Microsoft Graph API permissions to the web app.

Create a user flow and associate the web app.

Register the function app with Microsoft Entra.

Grant Microsoft Graph API permissions to the function app.

Answer Area

1.

2.

3.

4.



Answer Area

1 Create a client secret.

2 Create a user flow and associate the web app.

3. Register the web app with Microsoft Entra.

4. Grant Microsoft Graph API permissions to the web app.

Suggested Answer:

by Jay456 at Oct. 17, 2024, 10:42 a.m.

 EXAM AZ-204 TOPIC 4 QUESTION 76 DISCUSSION

You are developing a Microsoft Entra ID integrated app that interacts with Microsoft Graph.

You must allow GET operations to receive unknown members that might be defined in the future in Microsoft Graph API. You plan to include support for evolvable enumerations in the app.

You need to specify the HTTP request header that will provide the evolvable enumerations support in the app.

Which header should you specify?

- A. Accept
- B. Content-Type
- C. If-Match
- D. Prefer

Suggested Answer: D

Community vote distribution

D (100%)

by  c75314a at Oct. 21, 2024, 9:12 a.m.

 EXAM AZ-204 TOPIC 4 QUESTION 78 DISCUSSION

You manage an Azure Key Vault named kv1 of Standard SKU.

You plan to programmatically store in kv1 an asymmetric key pair and use the key pair for encryption and decryption.

You must develop an application named app1 that will access the key pair in kv1.

You need to configure an object to retrieve a key pair from kv1.

Which object should you use?

- A. SecretClient
- B. KeyVaultSettingsClient
- C. CertificateClient
- D. KeyClient

Suggested Answer: D

Community vote distribution

D (100%)

by  c01efe8 at Dec. 31, 2024, 8:11 a.m.

EXAM AZ-204 TOPIC 4 QUESTION 8 DISCUSSION

HOTSPOT -

You are developing an ASP.NET Core app that includes feature flags which are managed by Azure App Configuration. You create an Azure App Configuration store named AppFeatureFlagStore that contains a feature flag named Export.

You need to update the app to meet the following requirements:

- Use the Export feature in the app without requiring a restart of the app.
- Validate users before users are allowed access to secure resources.
- Permit users to access secure resources.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
public void Configure(IApplicationBuilder app, IWebHostEnvironment env)
{
    if (env.IsDevelopment())
    {
        app.UseDeveloperExceptionPage();
    }
    else
    {
        app.UseExceptionHandler("/Error");
    }

    app.(); // Hot Area
    app.(); // Hot Area
    app.(); // Hot Area

    app.UseEndpoint(endpoints =>
    {
        endpoints.MapRazorPages();
    });
}
```

Answer Area

```
public void Configure(IApplicationBuilder app, IWebHostEnvironment env)
{
    if (env.IsDevelopment())
    {
        app.UseDeveloperExceptionPage();
    }
    else
    {
        app.UseExceptionHandler("/Error");
    }

    app. ();
```

Suggested Answer:

```
app. ();
```

```
app. ();
```

```
app. ();
```

```
app.UseEndpoint(endpoints =>
{
    endpoints.MapRazorPages();
});
```

Box 1: UseAuthentication -

Need to validate users before users are allowed access to secure resources.

UseAuthentication adds the AuthenticationMiddleware to the specified IApplicationBuilder, which enables authentication capabilities.

Box 2: UseAuthorization -

Need to permit users to access secure resources.

UseAuthorization adds the AuthorizationMiddleware to the specified IApplicationBuilder, which enables authorization capabilities.

Box 3: UseStaticFiles -

Need to use the Export feature in the app without requiring a restart of the app.

UseStaticFiles enables static file serving for the current request path

Reference:

<https://docs.microsoft.com/en-us/dotnet/api/microsoft.aspnetcore.builder.iapplicationbuilder?view=aspnetcore-5.0>

by  hobob at March 11, 2021, 6:10 p.m.

EXAM AZ-204 TOPIC 4 QUESTION 9 DISCUSSION

You have an application that includes an Azure Web app and several Azure Function apps. Application secrets including connection strings and certificates are stored in Azure Key Vault.

Secrets must not be stored in the application or application runtime environment. Changes to Azure Active Directory (Azure AD) must be minimized.

You need to design the approach to loading application secrets.

What should you do?

- A. Create a single user-assigned Managed Identity with permission to access Key Vault and configure each App Service to use that Managed Identity.
- B. Create a single Azure AD Service Principal with permission to access Key Vault and use a client secret from within the App Services to access Key Vault.
- C. Create a system assigned Managed Identity in each App Service with permission to access Key Vault.
- D. Create an Azure AD Service Principal with Permissions to access Key Vault for each App Service and use a certificate from within the App Services to access Key Vault.

Suggested Answer: A

Community vote distribution

A (74%)

C (26%)

by  [pieronegri](#) at March 1, 2021, 10:56 a.m.

EXAM AZ-204 TOPIC 5 QUESTION 1 DISCUSSION

DRAG DROP -

You develop a web app that uses the tier D1 app service plan by using the Web Apps feature of Microsoft Azure App Service.

Spikes in traffic have caused increases in page load times.

You need to ensure that the web app automatically scales when CPU load is about 85 percent and minimize costs.

Which four 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.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Select and Place:

Actions

Answer Area

Configure the web app to the Premium App Service tier.



Configure the web app to the Standard App Service tier.

Enable autoscaling on the web app.

Add a Scale rule.

Switch to an Azure App Services consumption plan.

Configure a Scale condition.



Actions

Answer Area

Configure the web app to the Premium App Service tier.

Configure the web app to the Standard App Service tier.

Configure the web app to the Standard App Service tier.

Enable autoscaling on the web app.

Suggested Answer:

Enable autoscaling on the web app.



Add a Scale rule.

Add a Scale rule.



Switch to an Azure App Services consumption plan.

Configure a Scale condition.

Configure a Scale condition.

Step 1: Configure the web app to the Standard App Service Tier

The Standard tier supports auto-scaling, and we should minimize the cost.

Step 2: Enable autoscaling on the web app

First enable autoscale -

Step 3: Add a scale rule -

Step 4: Add a Scale condition -

Reference:

<https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/monitoring-autoscale-get-started>

by  thomas204 at Nov. 5, 2020, 11:36 a.m.

EXAM AZ-204 TOPIC 5 QUESTION 10 DISCUSSION

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You are developing and deploying several ASP.NET web applications to Azure App Service. You plan to save session state information and HTML output.

You must use a storage mechanism with the following requirements:

- Share session state across all ASP.NET web applications.
- Support controlled, concurrent access to the same session state data for multiple readers and a single writer.
- Save full HTTP responses for concurrent requests.

You need to store the information.

Proposed Solution: Deploy and configure Azure Cache for Redis. Update the web applications.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: A

Community vote distribution

A (100%)

by  Prakash4691 at March 16, 2021, 2:28 a.m.

EXAM AZ-204 TOPIC 5 QUESTION 11 DISCUSSION

HOTSPOT -

You are debugging an application that is running on Azure Kubernetes cluster named cluster1. The cluster uses Azure Monitor for containers to monitor the cluster.

The application has sticky sessions enabled on the ingress controller.

Some customers report a large number of errors in the application over the last 24 hours.

You need to determine on which virtual machines (VMs) the errors are occurring.

How should you complete the Azure Monitor query? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

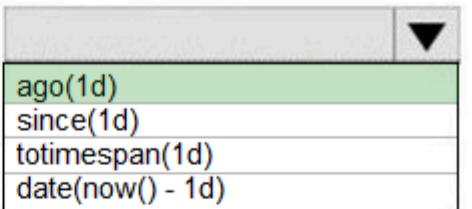
Hot Area:

Answer Area

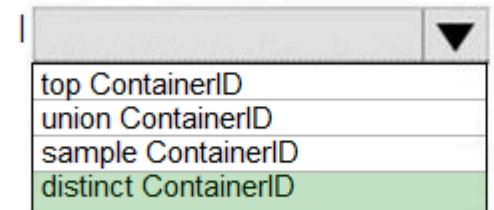
```
let startTimestamp =  ago(1d);  
let ContainerIDs = KubePodInventory  
| where ClusterName == "Cluster1"  
|  top ContainerID  
union ContainerID  
sample ContainerID  
distinct ContainerID  
ContainerLog  
|  fork containerIDs  
where ContainerID in (ContainerIDs)  
restrict ContainerID in (ContainerIDs)  
join ContainerID == ContainerIDs.ContainerID  
| where TimeGenerated > startTimestamp  
| where LogEntrySource == "stderr"  
|  project by Computer  
summarize by Computer  
partition count() by Computer  
summarize count() by Computer
```

Answer Area

```
let startTimestamp =
```



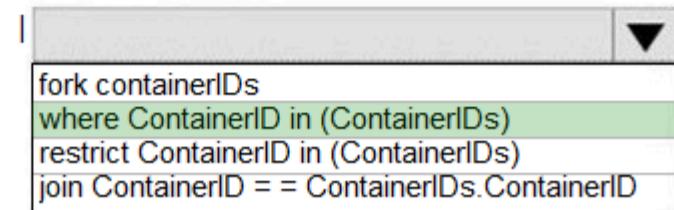
```
| let ContainerIDs = KubePodInventory  
|   | where ClusterName == "Cluster1"
```



```
|   | distinct ContainerID
```

Suggested Answer:

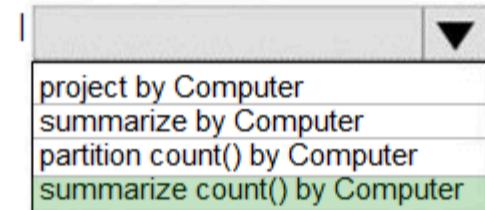
```
ContainerLog
```



```
| fork containerIDs  
|   | where ContainerID in (ContainerIDs)
```

```
|   | restrict ContainerID in (ContainerIDs)  
|   | join ContainerID == ContainerIDs.ContainerID
```

```
| where TimeGenerated > startTimestamp  
| where LogEntrySource == "stderr"
```



```
| project by Computer  
| summarize by Computer  
| partition count() by Computer  
| summarize count() by Computer
```

Box 1: ago(1d)

Box 2: distinct containerID -

Box 3: where ContainerID in (ContainerIDs)

Box 4: summarize Count by Computer

Summarize: aggregate groups of rows

Use summarize to identify groups of records, according to one or more columns, and apply aggregations to them. The most common use of summarize is count, which returns the number of results in each group.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/log-query/get-started-queries> <https://docs.microsoft.com/en-us/azure/azure-monitor/log-query/query-optimization>

by  m_siri at Dec. 2, 2020, 2:11 a.m.

EXAM AZ-204 TOPIC 5 QUESTION 12 DISCUSSION

HOTSPOT -

You plan to deploy a web app to App Service on Linux. You create an App Service plan. You create and push a custom Docker image that contains the web app to Azure Container Registry.

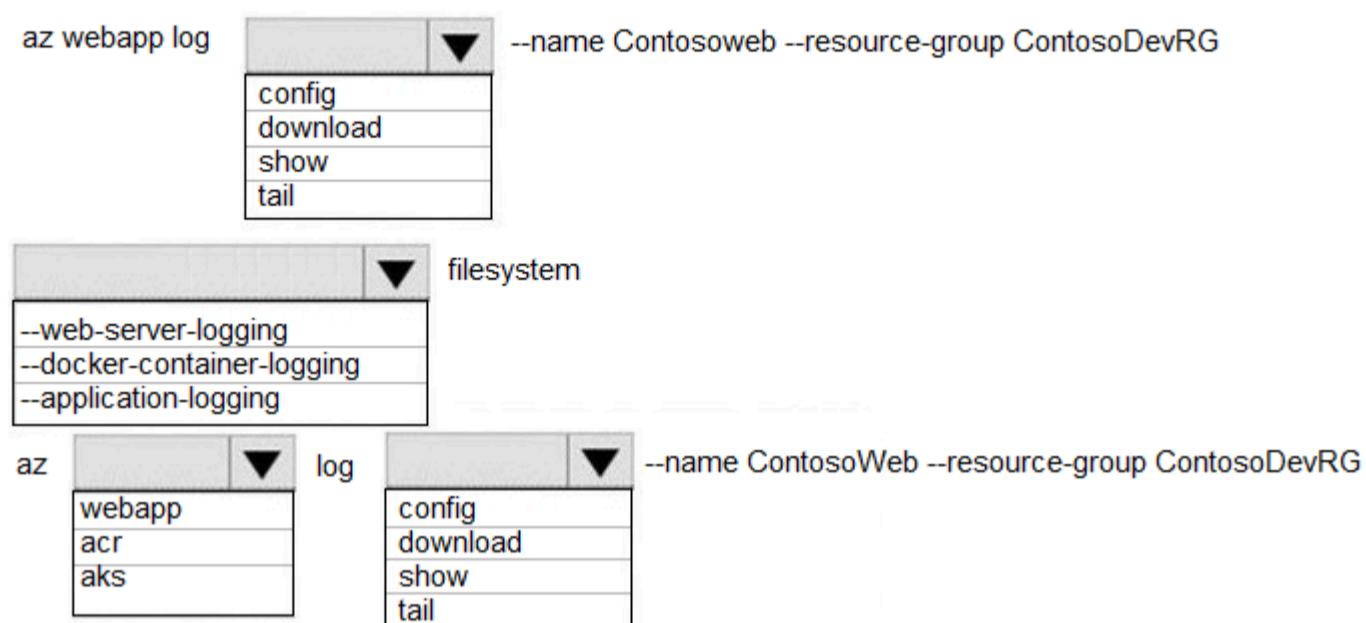
You need to access the console logs generated from inside the container in real-time.

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

NOTE: Each correct selection is worth one point.

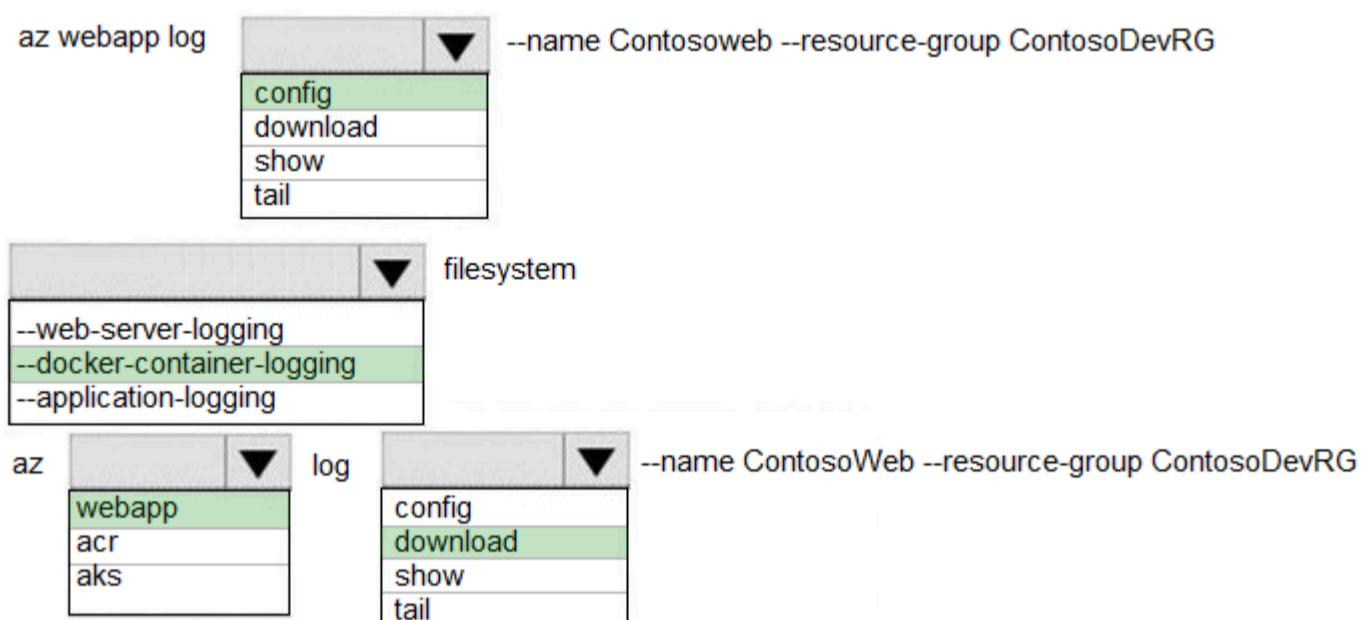
Hot Area:

Answer Area



Suggested Answer:

Answer Area



Box 1: config -

To Configure logging for a web app use the command:

az webapp log config

Box 2: --docker-container-logging

Syntax include:

az webapp log config [--docker-container-logging {filesystem, off}]

Box 3: webapp -

To download a web app's log history as a zip file use the command: az webapp log download

Box 4: download -

Reference:

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

 EXAM AZ-204 TOPIC 5 QUESTION 13 DISCUSSION

You develop and deploy an ASP.NET web app to Azure App Service. You use Application Insights telemetry to monitor the app.

You must test the app to ensure that the app is available and responsive from various points around the world and at regular intervals. If the app is not responding, you must send an alert to support staff.

You need to configure a test for the web app.

Which two test types can you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. integration
- B. multi-step web
- C. URL ping
- D. unit
- E. load

Suggested Answer: BC

Community vote distribution

BC (100%)

by  Ash111 at Nov. 20, 2020, 11:47 a.m.

EXAM AZ-204 TOPIC 5 QUESTION 14 DISCUSSION

DRAG DROP -

A web service provides customer summary information for e-commerce partners. The web service is implemented as an Azure Function app with an HTTP trigger.

Access to the API is provided by an Azure API Management instance. The API Management instance is configured in consumption plan mode. All API calls are authenticated by using OAuth.

API calls must be cached. Customers must not be able to view cached data for other customers.

You need to configure API Management policies for caching.

How should you complete the policy statement?

Select and Place:

Targets	Answer Area
Expect	<policies> <inbound> <base /> <cache-lookup caching-type="
Public	<input type="text" value="Target"/> " downstream-caching-type = " <input type="text" value="Target"/> ">
Private	<vary-by-header> <input type="text" value="Target"/>
Internal	</vary-by-header> </cache-lookup> </inbound> </policies>
External	
Authorization	

Suggested Answer:

Targets	Answer Area
Expect	<policies> <inbound> <base /> <cache-lookup caching-type="
Public	<input type="text" value="Internal"/> " downstream-caching-type = " <input type="text" value="Private"/> ">
Private	<vary-by-header> <input type="text" value="Authorization"/>
Internal	</vary-by-header> </cache-lookup> </inbound> </policies>
External	
Authorization	

Box 1: internal -

caching-type

Choose between the following values of the attribute:

- internal to use the built-in API Management cache,
- external to use the external cache as Azure Cache for Redis prefer-external to use external cache if configured or internal cache otherwise.

▪

Box 2: private -

downstream-caching-type

This attribute must be set to one of the following values.

- none - downstream caching is not allowed.
- private - downstream private caching is allowed.
- public - private and shared downstream caching is allowed.

Box 3: Authorization -

<vary-by-header>Authorization</vary-by-header>

<!-- should be present when allow-private-response-caching is "true"-->

Note: Start caching responses per value of specified header, such as Accept, Accept-Charset, Accept-Encoding, Accept-Language, Authorization, Expect, From,

Host, If-Match -

Reference:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-caching-policies>

by  cgreen at Nov. 10, 2020, 4:42 a.m.

EXAM AZ-204 TOPIC 5 QUESTION 15 DISCUSSION

You are developing applications for a company. You plan to host the applications on Azure App Services.

The company has the following requirements:

- Every five minutes verify that the websites are responsive.
- Verify that the websites respond within a specified time threshold. Dependent requests such as images and JavaScript files must load properly.
- Generate alerts if a website is experiencing issues.
- If a website fails to load, the system must attempt to reload the site three more times.

You need to implement this process with the least amount of effort.

What should you do?

- A. Create a Selenium web test and configure it to run from your workstation as a scheduled task.
- B. Set up a URL ping test to query the home page.
- C. Create an Azure function to query the home page.
- D. Create a multi-step web test to query the home page.
- E. Create a Custom Track Availability Test to query the home page.

Suggested Answer: B

Community vote distribution

B (70%) E (15%) Other

by  kishe at May 30, 2021, 11:26 p.m.

 EXAM AZ-204 TOPIC 5 QUESTION 16 DISCUSSION

You develop and add several functions to an Azure Function app that uses the latest runtime host. The functions contain several REST API endpoints secured by using SSL. The Azure Function app runs in a Consumption plan.

You must send an alert when any of the function endpoints are unavailable or responding too slowly.

You need to monitor the availability and responsiveness of the functions.

What should you do?

- A. Create a URL ping test.
- B. Create a timer triggered function that calls TrackAvailability() and send the results to Application Insights.
- C. Create a timer triggered function that calls GetMetric("Request Size") and send the results to Application Insights.
- D. Add a new diagnostic setting to the Azure Function app. Enable the FunctionAppLogs and Send to Log Analytics options.

Suggested Answer: B

Community vote distribution

B (69%)

A (31%)

by  [mlantonis](#) at May 31, 2021, 7:50 p.m.

 EXAM AZ-204 TOPIC 5 QUESTION 17 DISCUSSION

DRAG DROP -

You are developing an application to retrieve user profile information. The application will use the Microsoft Graph SDK.

The app must retrieve user profile information by using a Microsoft Graph API call.

You need to call the Microsoft Graph API from the application.

In which order should you perform the actions? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Actions

- Create an authentication provider.
- Create a new instance of the GraphServiceClient.
- Invoke the request to the Microsoft Graph API.
- Register the application with the Microsoft identity platform.
- Build a client by using the client app ID.

Answer Area



Suggested Answer:

Actions

Answer Area

- Register the application with the Microsoft identity platform.
- Build a client by using the client app ID.
- Create an authentication provider.
- Create a new instance of the GraphServiceClient.
- Invoke the request to the Microsoft Graph API.

Step 1: Register the application with the Microsoft identity platform.

To authenticate with the Microsoft identity platform endpoint, you must first register your app at the Azure app registration portal

Step 2: Build a client by using the client app ID

Step 3: Create an authentication provider

Create an authentication provider by passing in a client application and graph scopes.

Code example:

```
DeviceCodeProvider authProvider = new DeviceCodeProvider(publicClientApplication, graphScopes);  
// Create a new instance of GraphServiceClient with the authentication provider.
```

```
GraphServiceClient graphClient = new GraphServiceClient(authProvider);
```

Step 4: Create a new instance of the GraphServiceClient

Step 5: Invoke the request to the Microsoft Graph API

Reference:

<https://docs.microsoft.com/en-us/graph/auth-v2-service>

<https://docs.microsoft.com/en-us/graph/sdks/create-client>

by kishe at May 30, 2021, 11:55 p.m.

EXAM AZ-204 TOPIC 5 QUESTION 18 DISCUSSION

DRAG DROP -

You develop and deploy an Azure Logic App that calls an Azure Function app. The Azure Function App includes an OpenAPI (Swagger) definition and uses an

Azure Blob storage account. All resources are secured by using Azure Active Directory (Azure AD).

The Logic App must use Azure Monitor logs to record and store information about runtime data and events. The logs must be stored in the Azure Blob storage account.

You need to set up Azure Monitor logs and collect diagnostics data for the Azure Logic App.

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

- Create action groups and alert rules.
- Create a Log Analytics workspace.
- Install the Logic Apps Management solution.
- Add a diagnostic setting to the Azure Function App.
- Create an Azure storage account.
- Add a diagnostic setting to the Azure Logic App.

Answer Area



Suggested Answer:

Actions

- Create action groups and alert rules.
-
-
- Add a diagnostic setting to the Azure Function App.
- Create an Azure storage account.
-

Answer Area

- Create a Log Analytics workspace.
- Install the Logic Apps Management solution.
- (This item has a left arrow icon next to it.) Add a diagnostic setting to the Azure Logic App.
- (This item has a right arrow icon next to it.)



Step 1: Create a Log Analytics workspace

Before you start, you need a Log Analytics workspace.

Step 2: Install the Logic Apps Management solution

To set up logging for your logic app, you can enable Log Analytics when you create your logic app, or you can install the Logic Apps Management solution in your

Log Analytics workspace for existing logic apps.

Step 3: Add a diagnostic setting to the Azure Logic App

Set up Azure Monitor logs -

1. In the Azure portal, find and select your logic app.
2. On your logic app menu, under Monitoring, select Diagnostic settings > Add diagnostic setting.

Reference:

<https://docs.microsoft.com/en-us/azure/logic-apps/monitor-logic-apps-log-analytics>

by  markra at June 3, 2021, 8:22 a.m.

EXAM AZ-204 TOPIC 5 QUESTION 19 DISCUSSION

DRAG DROP -

You develop an application. You plan to host the application on a set of virtual machines (VMs) in Azure.

You need to configure Azure Monitor to collect logs from the application.

Which four 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

Create a Log Analytics workspace.

Install agents on the VM and VM scale set to be monitored.

Send console logs.

Add a VMInsights solution.

Create an Application Insights resource.

Answer Area

Suggested Answer:

Actions

Send console logs.

Answer Area

Create a Log Analytics workspace.

Add a VMInsights solution.

Install agents on the VM and VM scale set to be monitored.

Create an Application Insights resource.

Step 1: Create a Log Analytics workspace.

First create the workspace.

Step 2: Add a VMInsights solution.

Before a Log Analytics workspace can be used with VM insights, it must have the VMInsights solution installed.

Step 3: Install agents on the VM and VM scale set to be monitored.

Prior to onboarding agents, you must create and configure a workspace. Install or update the Application Insights Agent as an extension for Azure virtual machines and VM scale sets.

Step 4: Create an Application Insights resource

Sign in to the Azure portal, and create an Application Insights resource.

Application Insights

Monitor web app performance and usage

Basics Tags Review + create

Create an Application Insights resource to monitor your live web application. With Application Insights, you have full observability into your application across all components and dependencies of your complex distributed architecture. It includes powerful analytics tools to help you diagnose issues and to understand what users actually do with your app. It's designed to help you continuously improve performance and usability. It works for apps on a wide variety of platforms including .NET, Node.js and Java EE, hosted on-premises, hybrid, or any public cloud. [Learn More](#)

PROJECT DETAILS

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ

Visual Studio Enterprise

Resource Group * ⓘ

My_Resource_Group

[Create new](#)

INSTANCE DETAILS

Name * ⓘ

My_AppInsights_Resource

Region * ⓘ

(US) West US 2

Resource Mode * ⓘ

Classic Workspace-based

WORKSPACE DETAILS

Subscription * ⓘ

Visual Studio Enterprise

Log Analytics Workspace * ⓘ

my-workspace-name [westus2]

[Review + create](#)

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Once a workspace-based Application Insights resource has been created, configuring monitoring is relatively straightforward.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/vm/vminsights-configure-workspace> <https://docs.microsoft.com/en-us/azure/azure-monitor/app/create-workspace-resource>

by  aradice at June 30, 2021, 8:15 p.m.

EXAM AZ-204 TOPIC 5 QUESTION 2 DISCUSSION

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You are developing and deploying several ASP.NET web applications to Azure App Service. You plan to save session state information and HTML output.

You must use a storage mechanism with the following requirements:

- Share session state across all ASP.NET web applications.
- Support controlled, concurrent access to the same session state data for multiple readers and a single writer.
- Save full HTTP responses for concurrent requests.

You need to store the information.

Proposed Solution: Enable Application Request Routing (ARR).

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  [gematsaljoa](#) at Dec. 1, 2020, 7:30 a.m.

 EXAM AZ-204 TOPIC 5 QUESTION 20 DISCUSSION

You develop and deploy an Azure App Service web app. The app is deployed to multiple regions and uses Azure Traffic Manager. Application Insights is enabled for the app.

You need to analyze app uptime for each month.

Which two solutions will achieve the goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Azure Monitor logs
- B. Application Insights alerts
- C. Azure Monitor metrics
- D. Application Insights web tests

Suggested Answer: AC

Community vote distribution

AC (46%) BC (21%) CD (21%) 11%

by  [qwerty112233](#) at Sept. 8, 2022, 2:27 p.m.

EXAM AZ-204 TOPIC 5 QUESTION 21 DISCUSSION

DRAG DROP -

You develop and deploy an Azure App Service web app. The web app accesses data in an Azure SQL database.

You must update the web app to store frequently used data in a new Azure Cache for Redis Premium instance.

You need to implement the Azure Cache for Redis features.

Which feature should you implement? To answer, drag the appropriate feature to the correct requirements. Each feature 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

Features	Requirement	Feature
horizontal partitioning	Create a data structure for storing collections of related items	Feature
channel	Create a data structure for the most recently accessed cache items	Feature
list		Feature
set	Send messages through a high-performance publisher/subscriber mechanism	

Suggested Answer:

Answer Area

Features	Requirement	Feature
horizontal partitioning	Create a data structure for storing collections of related items	set
channel	Create a data structure for the most recently accessed cache items	list
list		channel
set	Send messages through a high-performance publisher/subscriber mechanism	

Reference:

<https://www.red-gate.com/simple-talk/development/dotnet-development/overview-of-azure-cache-for-redis/> <https://docs.microsoft.com/en-us/azure/architecture/best-practices/caching>

by  sghaha at April 29, 2022, 7:05 a.m.

EXAM AZ-204 TOPIC 5 QUESTION 22 DISCUSSION

You are developing an ASP.NET Core Web API web service. The web service uses Azure Application Insights for all telemetry and dependency tracking. The web service reads and writes data to a database other than Microsoft SQL Server.

You need to ensure that dependency tracking works for calls to the third-party database.

Which two dependency telemetry properties should you use? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Telemetry.Context.Cloud.RoleInstance
- B. Telemetry.Id
- C. Telemetry.Name
- D. Telemetry.Context.Operation.Id
- E. Telemetry.Context.Session.Id

Suggested Answer: *BD*

Community vote distribution

BD (100%)

by  [cyberbull](#) at Sept. 26, 2020, 8:48 p.m.

 EXAM AZ-204 TOPIC 5 QUESTION 23 DISCUSSION

HOTSPOT -

You are using Azure Front Door Service.

You are expecting inbound files to be compressed by using Brotli compression. You discover that inbound XML files are not compressed. The files are 9 megabytes (MB) in size.

You need to determine the root cause for the issue.

To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statement	Yes	No
-----------	-----	----

The file MIME type is supported by the service.

Edge nodes must be purged of all cache assets.

The compression type is supported.

Answer Area

Statement	Yes	No
-----------	-----	----

Suggested Answer: The file MIME type is supported by the service.

Edge nodes must be purged of all cache assets.

The compression type is supported.

Box 1: No -

Front Door can dynamically compress content on the edge, resulting in a smaller and faster response to your clients. All files are eligible for compression.

However, a file must be of a MIME type that is eligible for compression list.

Box 2: No -

Sometimes you may wish to purge cached content from all edge nodes and force them all to retrieve new updated assets. This might be due to updates to your web application, or to quickly update assets that contain incorrect information.

Box 3: Yes -

These profiles support the following compression encodings: Gzip (GNU zip), Brotli

Reference:

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

 EXAM AZ-204 TOPIC 5 QUESTION 24 DISCUSSION

HOTSPOT -

You are developing an Azure App Service hosted ASP.NET Core web app to deliver video-on-demand streaming media. You enable an Azure Content Delivery

Network (CDN) Standard for the web endpoint. Customer videos are downloaded from the web app by using the following example URL:

<http://www.contoso.com/content.mp4?quality=1>.

All media content must expire from the cache after one hour. Customer videos with varying quality must be delivered to the closest regional point of presence

(POP) node.

You need to configure Azure CDN caching rules.

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

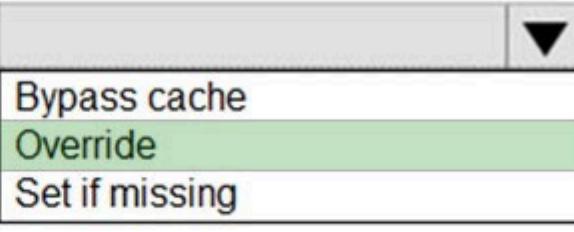
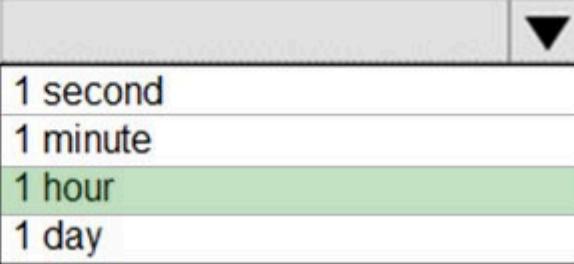
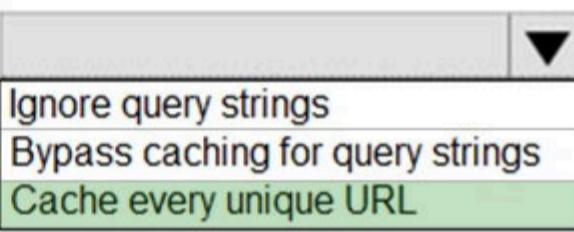
NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Setting	Action
Caching behavior	<div style="border: 1px solid black; padding: 5px;"><p>Bypass cache</p><p>Override</p><p>Set if missing</p></div>
Cache expiration duration	<div style="border: 1px solid black; padding: 5px;"><p>1 second</p><p>1 minute</p><p>1 hour</p><p>1 day</p></div>
Query string caching behavior	<div style="border: 1px solid black; padding: 5px;"><p>Ignore query strings</p><p>Bypass caching for query strings</p><p>Cache every unique URL</p></div>

Answer Area

Setting	Action
Caching behavior	 <ul style="list-style-type: none">Bypass cacheOverrideSet if missing
Suggested Answer: Cache expiration duration	 <ul style="list-style-type: none">1 second1 minute1 hour1 day
Query string caching behavior	 <ul style="list-style-type: none">Ignore query stringsBypass caching for query stringsCache every unique URL

Box 1: Override -

Override: Ignore origin-provided cache duration; use the provided cache duration instead. This will not override cache-control: no-cache.

Set if missing: Honor origin-provided cache-directive headers, if they exist; otherwise, use the provided cache duration.

Incorrect:

Bypass cache: Do not cache and ignore origin-provided cache-directive headers.

Box 2: 1 hour -

All media content must expire from the cache after one hour.

Box 3: Cache every unique URL -

Cache every unique URL: In this mode, each request with a unique URL, including the query string, is treated as a unique asset with its own cache. For example, the response from the origin server for a request for example.ashx?q=test1 is cached at the POP node and returned for subsequent caches with the same query string. A request for example.ashx?q=test2 is cached as a separate asset with its own time-to-live setting.

Incorrect Answers:

Bypass caching for query strings: In this mode, requests with query strings are not cached at the CDN POP node. The POP node retrieves the asset directly from the origin server and passes it to the requestor with each request.

Ignore query strings: Default mode. In this mode, the CDN point-of-presence (POP) node passes the query strings from the requestor to the origin server on the first request and caches the asset. All subsequent requests for the asset that are served from the POP ignore the query strings until the cached asset expires.

Reference:

<https://docs.microsoft.com/en-us/azure/cdn/cdn-query-string>

by  Nyaku at Nov. 28, 2020, 6:42 p.m.

EXAM AZ-204 TOPIC 5 QUESTION 25 DISCUSSION

HOTSPOT -

You are developing an ASP.NET Core time sheet application that runs as an Azure Web App. Users of the application enter their time sheet information on the first day of every month.

The application uses a third-party web service to validate data.

The application encounters periodic server errors due to errors that result from calling a third-party web server. Each request to the third-party server has the same chance of failure.

You need to configure an Azure Monitor alert to detect server errors unrelated to the third-party service. You must minimize false-positive alerts.

How should you complete the Azure Resource Manager template? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

```
"type": "Microsoft.Insights/metricAlerts",
"properties": {
  "criteria": [
    {
      "odata.type": "...",
      "allOf": [
        {
          "criterionType": ",  
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</criterionType": "<input type='text
```

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/alerts/alerts-dynamic-thresholds>

by  sghaha at April 29, 2022, 7:05 a.m.

 EXAM AZ-204 TOPIC 5 QUESTION 26 DISCUSSION

You are developing a web application that uses Azure Cache for Redis. You anticipate that the cache will frequently fill and that you will need to evict keys.

You must configure Azure Cache for Redis based on the following predicted usage pattern: A small subset of elements will be accessed much more often than the rest.

You need to configure the Azure Cache for Redis to optimize performance for the predicted usage pattern.

Which two eviction policies will achieve the goal?

NOTE: Each correct selection is worth one point.

- A. noeviction
- B. allkeys-lru
- C. volatile-lru
- D. allkeys-random
- E. volatile-ttl
- F. volatile-random

Suggested Answer: BC

Community vote distribution

BC (100%)

by  sghaha at April 29, 2022, 7:06 a.m.

EXAM AZ-204 TOPIC 5 QUESTION 27 DISCUSSION

DRAG DROP -

An organization has web apps hosted in Azure.

The organization wants to track events and telemetry data in the web apps by using Application Insights.

You need to configure the web apps for Application Insights.

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	Answer Area
Configure the Azure App Service SDK for the app	
Configure the Application Insights SDK in the app	
Copy the connection string	
Create an Azure Machine Learning workspace	
Create an Application Insights resource	

Suggested Answer:

Actions	Answer Area
Configure the Azure App Service SDK for the app	
Create an Azure Machine Learning workspace	

Step 1: Create an Application Insights resource

Creating an Application Insights workspace-based resource is a prerequisite.

Step 2: Copy the connection string

A connection string identifies the resource that you want to associate with your telemetry data. It also allows you to modify the endpoints that your resource will use as a destination for your telemetry. You'll need to copy the connection string and add it to your application's code or to an environment variable.

Step 3: Configure the Application Insights SDK in the app

The Application Insights SDK for ASP.NET Core can monitor your applications no matter where or how they run.

Install the Application Insights SDK NuGet package for ASP.NET Core.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/asp-net-core>

 EXAM AZ-204 TOPIC 5 QUESTION 28 DISCUSSION

An organization hosts web apps in Azure. The organization uses Azure Monitor. You discover that configuration changes were made to some of the web apps. You need to identify the configuration changes.

Which Azure Monitor log should you review?

- A. AppServiceAppLogs
- B. AppServiceEnvironmentPlatformLogs
- C. AppServiceConsoleLogs
- D. AppServiceAuditLogs

Suggested Answer: B

The log type AppServiceEnvironmentPlatformLogs handles the App Service Environment: scaling, configuration changes, and status logs.

Incorrect:

AppServiceAppLogs contains logs generated through your application.

AppServiceAuditLogs logs generated when publishing users successfully log on via one of the App Service publishing protocols.

Reference:

<https://docs.microsoft.com/en-us/azure/app-service/troubleshoot-diagnostic-logs>

Community vote distribution

B (100%)

by  [qwerty112233](#) at Sept. 8, 2022, 2:55 p.m.

 EXAM AZ-204 TOPIC 5 QUESTION 29 DISCUSSION

You develop and deploy an Azure App Service web app to a production environment. You enable the Always On setting and the Application Insights site extensions.

You deploy a code update and receive multiple failed requests and exceptions in the web app.

You need to validate the performance and failure counts of the web app in near real time.

Which Application Insights tool should you use?

- A. Profiler
- B. Smart Detection
- C. Live Metrics Stream
- D. Application Map
- E. Snapshot Debugger

Suggested Answer: C

Community vote distribution

C (80%)

B (20%)

by  kampatra at Sept. 17, 2022, 6:20 p.m.

EXAM AZ-204 TOPIC 5 QUESTION 3 DISCUSSION

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You are developing and deploying several ASP.NET web applications to Azure App Service. You plan to save session state information and HTML output.

You must use a storage mechanism with the following requirements:

- Share session state across all ASP.NET web applications.
- Support controlled, concurrent access to the same session state data for multiple readers and a single writer.
- Save full HTTP responses for concurrent requests.

You need to store the information.

Proposed Solution: Deploy and configure an Azure Database for PostgreSQL. Update the web applications.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (68%) A (32%)

by  necate2359 at Oct. 15, 2020, 11:22 a.m.

EXAM AZ-204 TOPIC 5 QUESTION 30 DISCUSSION

HOTSPOT -

You deploy an ASP.NET web app to Azure App Service.

You must monitor the web app by using Application Insights.

You need to configure Application Insights to meet the requirements.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Requirement

Automatically warn you of potential performance problems and failure anomalies in the web app.

Feature

-
- Smart Detection
-
- Snapshot Debugger
-
- Profiler
-
- Multi-step test

Automatically collect the state of the source code and variables when an exception is thrown in the web app.

-
- Smart Detection
-
- Snapshot Debugger
-
- Profiler
-
- Multi-step test

Capture performance traces of the web app without negatively affecting users of the web app.

-
- Smart Detection
-
- Snapshot Debugger
-
- Profiler
-
- Multi-step test

Suggested Answer:

Answer Area

Requirement

Automatically warn you of potential performance problems and failure anomalies in the web app.

Feature

-
- Smart Detection
-
- Snapshot Debugger
-
- Profiler
-
- Multi-step test

Automatically collect the state of the source code and variables when an exception is thrown in the web app.

-
- Smart Detection
-
- Snapshot Debugger
-
- Profiler
-
- Multi-step test

Capture performance traces of the web app without negatively affecting users of the web app.

-
- Smart Detection
-
- Snapshot Debugger
-
- Profiler
-
- Multi-step test

Box 1: Smart Detection -

Smart detection automatically warns you of potential performance problems and failure anomalies in your web application. It performs

proactive analysis of the telemetry that your app sends to Application Insights. If there is a sudden rise in failure rates, or abnormal patterns in client or server performance, you get an alert. This feature needs no configuration. It operates if your application sends enough telemetry.

Box 2: Snapshot Debugger -

When an exception occurs, you can automatically collect a debug snapshot from your live web application. The snapshot shows the state of source code and variables at the moment the exception was thrown. The Snapshot Debugger in Azure Application Insights monitors exception telemetry from your web app. It collects snapshots on your top-throwing exceptions so that you have the information you need to diagnose issues in production.

Box 3: Profiler -

Azure Application Insights Profiler provides performance traces for applications running in production in Azure. Profiler:

Captures the data automatically at scale without negatively affecting your users.

Helps you identify the `hot` code path spending the most time handling a particular web request.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/proactive-diagnostics> <https://docs.microsoft.com/en-us/azure/azure-monitor/snapshot-debugger/snapshot-debugger> <https://docs.microsoft.com/en-us/azure/azure-monitor/profiler/profiler-overview>

by  [devsb](#) at Sept. 15, 2022, 1:19 p.m.

 EXAM AZ-204 TOPIC 5 QUESTION 31 DISCUSSION

You are building a web application that performs image analysis on user photos and returns metadata containing objects identified. The image analysis is very costly in terms of time and compute resources. You are planning to use Azure Redis Cache so duplicate uploads do not need to be reprocessed.

In case of an Azure data center outage, metadata loss must be kept to a minimum.

You need to configure the Azure Redis cache instance.

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

NOTE: Each correct selection is worth one point.

- A. Configure Azure Redis with AOF persistence.
- B. Configure Azure Redis with RDB persistence.
- C. Configure second storage account for persistence.
- D. Set backup frequency to the minimum value.

Suggested Answer: AC

Community vote distribution

AC (65%)	BD (25%)	10%
----------	----------	-----

by  willchenxa at Sept. 2, 2022, 2:57 a.m.

 EXAM AZ-204 TOPIC 5 QUESTION 32 DISCUSSION

You are developing an Azure-based web application. The application goes offline periodically to perform offline data processing. While the application is offline, numerous Azure Monitor alerts fire which result in the on-call developer being paged.

The application must always log when the application is offline for any reason.

You need to ensure that the on-call developer is not paged during offline processing.

What should you do?

- A. Add Azure Monitor alert processing rules to suppress notifications.
- B. Disable Azure Monitor Service Health Alerts during offline processing.
- C. Create an Azure Monitor Metric Alert.
- D. Build an Azure Monitor action group that suppresses the alerts.

Suggested Answer: A

Community vote distribution

A (90%)	10%
---------	-----

by  finnishr at Sept. 5, 2022, 5:15 p.m.

 EXAM AZ-204 TOPIC 5 QUESTION 33 DISCUSSION

You are developing an online game that includes a feature that allows players to interact with other players on the same team within a certain distance. The calculation to determine the players in range occurs when players move and are cached in an Azure Cache for Redis instance.

The system should prioritize players based on how recently they have moved and should not prioritize players who have logged out of the game.

You need to select an eviction policy.

Which eviction policy should you use?

- A. allkeys-lru
- B. volatile-lru
- C. allkeys-lfu
- D. volatile-ttl

Suggested Answer: B

Community vote distribution

B (62%)	A (33%)	5%
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by  JustHereToLearn at Jan. 21, 2023, 7:52 a.m.

 EXAM AZ-204 TOPIC 5 QUESTION 34 DISCUSSION

You develop an Azure App Service web app and deploy to a production environment. You enable Application Insights for the web app.

The web app is throwing multiple exceptions in the environment.

You need to examine the state of the source code and variables when the exceptions are thrown.

Which Application Insights feature should you configure?

- A. Smart detection
- B. Profiler
- C. Snapshot Debugger
- D. Standard test

Suggested Answer: C

Community vote distribution

C (100%)

by  [Jhilphis](#) at Jan. 12, 2023, 2:22 p.m.

EXAM AZ-204 TOPIC 5 QUESTION 35 DISCUSSION

DRAG DROP

You develop and deploy a Java application to Azure. The application has been instrumented by using the Application Insights SDK.

The telemetry data must be enriched and processed before it is sent to the Application Insights service.

You need to modify the telemetry data.

Which Application Insights SDK features should you use? To answer, drag the appropriate features to the correct requirements. Each feature 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.

Features	Answer Area	Requirement	Feature
<input type="checkbox"/> Sampling		Reduce the volume of telemetry without affecting statistics.	<input type="checkbox"/>
<input type="checkbox"/> Telemetry initializer		Enrich telemetry with additional properties or override an existing one.	<input type="checkbox"/>
<input type="checkbox"/> Telemetry processor		Completely replace or discard a telemetry item.	<input type="checkbox"/>
<input type="checkbox"/> Telemetry channel			

Suggested Answer:	Answer Area	Requirement	Feature
		Reduce the volume of telemetry without affecting statistics.	<input type="checkbox"/> Sampling
		Enrich telemetry with additional properties or override an existing one.	<input type="checkbox"/> Telemetry initializer
		Completely replace or discard a telemetry item.	<input type="checkbox"/> Telemetry processor

by  whiteblack at Jan. 11, 2023, 6:09 p.m.

EXAM AZ-204 TOPIC 5 QUESTION 36 DISCUSSION

HOTSPOT

You develop new functionality in a web application for a company that provides access to seismic data from around the world. The seismic data is stored in Redis Streams within an Azure Cache for Redis instance.

The new functionality includes a real-time display of seismic events as they occur.

You need to implement the Azure Cache for Redis command to receive seismic data.

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

XLEN
XREAD
XRANGE

BLOCK 0
COUNT 0
BLOCK -1
COUNT -1

STREAMS seismicData

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Answer Area

Suggested Answer:

XLEN
XREAD
XRANGE

BLOCK 0
COUNT 0
BLOCK -1
COUNT -1

STREAMS seismicData

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by  2fa at Jan. 12, 2023, 8:41 a.m.

EXAM AZ-204 TOPIC 5 QUESTION 37 DISCUSSION

You develop an ASP.NET Core app that uses Azure App Configuration. You also create an App Configuration containing 100 settings.

The app must meet the following requirements:

- Ensure the consistency of all configuration data when changes to individual settings occur.
- Handle configuration data changes dynamically without causing the application to restart.
- Reduce the overall number of requests made to App Configuration APIs.

You must implement dynamic configuration updates in the app.

What are two ways to achieve this goal? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Create and register a sentinel key in the App Configuration store. Set the refreshAll parameter of the Register method to true.
- B. Increase the App Configuration cache expiration from the default value.
- C. Decrease the App Configuration cache expiration from the default value.
- D. Create and configure Azure Key Vault. Implement the Azure Key Vault configuration provider.
- E. Register all keys in the App Configuration store. Set the refreshAll parameter of the Register method to false.
- F. Create and implement environment variables for each App Configuration store setting.

Suggested Answer: AB

Community vote distribution

AB (70%)	11%	Other
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by  whiteblack at Jan. 11, 2023, 6:10 p.m.

 EXAM AZ-204 TOPIC 5 QUESTION 38 DISCUSSION

HOTSPOT

You develop and deploy an Azure App Service web app that connects to Azure Cache for Redis as a content cache. All resources have been deployed to the East US 2 region.

The security team requires the following audit information from Azure Cache for Redis:

- The number of Redis client connections from an associated IP address.
- Redis operations completed on the content cache.
- The location (region) in which the Azure Cache for Redis instance was accessed.

The audit information must be captured and analyzed by a security team application deployed to the Central US region.

You need to log information on all client connections to the cache.

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

Requirement

Store log information.

Configuration value

Log Analytics workspace
Blob Storage account
Data Lake Storage Gen2 Storage account
Event hub

Enable client connection logging.

Diagnostic setting
Managed identity
App registration
Environment variable

Answer Area

Requirement

Store log information.

Configuration value

Log Analytics workspace
Blob Storage account
Data Lake Storage Gen2 Storage account
Event hub

Suggested Answer:

Enable client connection logging.

Diagnostic setting
Managed identity
App registration
Environment variable

by  halfway at April 19, 2023, 3:16 p.m.

EXAM AZ-204 TOPIC 5 QUESTION 39 DISCUSSION

You develop and deploy a web app to Azure App Service. The Azure App Service uses a Basic plan in a single region.

Users report that the web app is responding slow. You must capture the complete call stack to help identify performance issues in the code. Call stack data must be correlated across app instances. You must minimize cost and impact to users on the web app.

You need to capture the telemetry.

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

NOTE: Each correct selection is worth one point.

- A. Restart all apps in the App Service plan.
- B. Enable Application Insights site extensions.
- C. Upgrade the Azure App Service plan to Premium.
- D. Enable Profiler.
- E. Enable the Always On setting for the app service.
- F. Enable Snapshot debugger.
- G. Enable remote debugging.

Suggested Answer: *BDE*

Community vote distribution

BDE (59%)

BDF (41%)

by  adilkhan at April 20, 2023, 8:45 p.m.

EXAM AZ-204 TOPIC 5 QUESTION 4 DISCUSSION

HOTSPOT -

A company is developing a gaming platform. Users can join teams to play online and see leaderboards that include player statistics. The solution includes an entity named Team.

You plan to implement an Azure Redis Cache instance to improve the efficiency of data operations for entities that rarely change.

You need to invalidate the cache when team data is changed.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
void ClearCachedTeams()  
{  
    IDatabase cache = Connection.GetDatabase();  
    ICache cache = Connection.GetDatabase();  
  
    cache.KeyDelete("Team");  
    cache.StringSet("Team", "");  
    cache.ValueDelete("Team");  
    cache.StringGet("Team", "");  
  
    ViewBag.msg += "Team data removed from cache.";  
}
```

Answer Area

```
void ClearCachedTeams()  
{  
    Suggested Answer:  
    IDatabase cache = Connection.GetDatabase();  
    ICache cache = Connection.GetDatabase();  
  
    cache.KeyDelete("Team");  
    cache.StringSet("Team", "");  
    cache.ValueDelete("Team");  
    cache.StringGet("Team", "");  
  
    ViewBag.msg += "Team data removed from cache.";  
}
```

Box 1: IDatabase cache = connection.GetDatabase();

Connection refers to a previously configured ConnectionMultiplexer.

Box 2: cache.StringSet("teams","")

To specify the expiration of an item in the cache, use the TimeSpan parameter of StringSet. cache.StringSet("key1", "value1",
TimeSpan.FromMinutes(90));

Reference:

<https://azure.microsoft.com/sv-se/blog/lap-around-azure-redis-cache-preview/> <https://docs.microsoft.com/en-us/cli/azure/webapp/config/container>

by  agueda at *March 12, 2021, 11:25 a.m.*

 EXAM AZ-204 TOPIC 5 QUESTION 40 DISCUSSION

You are building an application to track cell towers that are available to phones in near real time. A phone will send information to the application by using the Azure Web PubSub service. The data will be processed by using an Azure Functions app. Traffic will be transmitted by using a content delivery network (CDN).

The Azure function must be protected against misconfigured or unauthorized invocations.

You need to ensure that the CDN allows for the Azure function protection.

Which HTTP header should be on the allowed list?

- A. Authorization
- B. WebHook-Request-Callback
- C. Resource
- D. WebHook-Request-Origin

Suggested Answer: A

Community vote distribution

A (50%)	D (50%)
---------	---------

by  [halfway](#) at April 19, 2023, 3:25 p.m.

 EXAM AZ-204 TOPIC 5 QUESTION 41 DISCUSSION

You are developing an Azure App Service web app.

The web app must securely store session information in Azure Redis Cache.

You need to connect the web app to Azure Redis Cache.

Which three Azure Redis Cache properties should you use? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Access key
- B. SSL port
- C. Subscription name
- D. Location
- E. Host name
- F. Subscription id

Suggested Answer: ABE

Community vote distribution

ABE (100%)

by  [laurorucker](#) at July 9, 2023, 7:59 p.m.

EXAM AZ-204 TOPIC 5 QUESTION 42 DISCUSSION

HOTSPOT

You are developing several microservices to run on Azure Container Apps.

You need to monitor and diagnose the microservices.

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

NOTE: Each correct selection is worth one point.

Answer Area

Requirement

View console logs from a container in near real-time.

Feature

Log streaming
Container console
Azure Monitor metrics
Azure Monitor Log Analytics

Debug the microservice from inside the container.

Container console
Azure Monitor metrics
Azure Container Registry
Azure Monitor Log Analytics

Answer Area

Requirement

View console logs from a container in near real-time.

Feature

Log streaming
Container console
Azure Monitor metrics
Azure Monitor Log Analytics

Suggested Answer:

Debug the microservice from inside the container.

Container console
Azure Monitor metrics
Azure Container Registry
Azure Monitor Log Analytics

by  AbidooKing at July 10, 2023, 12:27 p.m.

EXAM AZ-204 TOPIC 5 QUESTION 43 DISCUSSION

Case study -

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study -

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. When you are ready to answer a question, click the Question button to return to the question.

Background -

VanArsdel, Ltd. is a global office supply company. The company is based in Canada and has retail store locations across the world. The company is developing several cloud-based solutions to support their stores, distributors, suppliers, and delivery services.

Current environment -

Corporate website -

The company provides a public website located at <http://www.vanarsdelltd.com>. The website consists of a React JavaScript user interface, HTML, CSS, image assets, and several APIs hosted in Azure Functions.

Retail Store Locations -

The company supports thousands of store locations globally. Store locations send data every hour to an Azure Blob storage account to support inventory, purchasing and delivery services. Each record includes a location identifier and sales transaction information.

Requirements -

The application components must meet the following requirements:

Corporate website -

- Secure the website by using SSL.
- Minimize costs for data storage and hosting.
- Implement native GitHub workflows for continuous integration and continuous deployment (CI/CD).
- Distribute the website content globally for local use.

- Implement monitoring by using Application Insights and availability web tests including SSL certificate validity and custom header value verification.
- The website must have 99.95 percent uptime.

Retail store locations -

- Azure Functions must process data immediately when data is uploaded to Blob storage. Azure Functions must update Azure Cosmos DB by using native SQL language queries.
- Audit store sale transaction information nightly to validate data, process sales financials, and reconcile inventory.

Delivery services -

- Store service telemetry data in Azure Cosmos DB by using an Azure Function. Data must include an item id, the delivery vehicle license plate, vehicle package capacity, and current vehicle location coordinates.
- Store delivery driver profile information in Azure Active Directory (Azure AD) by using an Azure Function called from the corporate website.

Inventory services -

The company has contracted a third-party to develop an API for inventory processing that requires access to a specific blob within the retail store storage account for three months to include read-only access to the data.

Security -

- All Azure Functions must centralize management and distribution of configuration data for different environments and geographies, encrypted by using a company-provided RSA-HSM key.
- Authentication and authorization must use Azure AD and services must use managed identities where possible.

Issues -

Retail Store Locations -

- You must perform a point-in-time restoration of the retail store location data due to an unexpected and accidental deletion of data.
- Azure Cosmos DB queries from the Azure Function exhibit high Request Unit (RU) usage and contain multiple, complex queries that exhibit high point read latency for large items as the function app is scaling.

You need to test the availability of the corporate website.

Which two test types can you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Standard
- B. URL ping
- C. Custom testing using the TrackAvailability API method
- D. Multi-step

Suggested Answer: AC

Community vote distribution

AC (100%)

by  Firo at July 31, 2023, 10:10 a.m.

 EXAM AZ-204 TOPIC 5 QUESTION 44 DISCUSSION

You have an Azure API Management (APIM) Standard tier instance named APIM1 that uses a managed gateway.

You plan to use APIM1 to publish an API named API1 that uses a backend database that supports only a limited volume of requests per minute. You also need a policy for API1 that will minimize the possibility that the number of requests to the backend database from an individual IP address you specify exceeds the supported limit.

You need to identify a policy for API1 that will meet the requirements.

Which policy should you use?

- A. ip-filter
- B. quota-by-key
- C. rate-limit-by-key
- D. rate-limit

Suggested Answer: C

Community vote distribution

C (100%)

by  drogbix at Aug. 8, 2023, 6:01 a.m.

 EXAM AZ-204 TOPIC 5 QUESTION 45 DISCUSSION

You develop a web application that sells access to last-minute openings for child camps that run on the weekends. The application uses Azure Application Insights for all alerting and monitoring.

The application must alert operators when a technical issue is preventing sales to camps.

You need to build an alert to detect technical issues.

Which alert type should you use?

- A. Metric alert using multiple time series
- B. Metric alert using dynamic thresholds
- C. Log alert using multiple time series
- D. Log alert using dynamic thresholds

Suggested Answer: B

Community vote distribution

B (75%)	13%	13%
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by  Ciupaz at Nov. 3, 2023, 10:02 a.m.

EXAM AZ-204 TOPIC 5 QUESTION 47 DISCUSSION

DRAG DROP

Case study

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

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To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. When you are ready to answer a question, click the Question button to return to the question.

Background

Munson's Pickles and Preserves Farm is an agricultural cooperative corporation based in Washington, US, with farms located across the United States. The company supports agricultural production resources by distributing seeds fertilizers, chemicals, fuel, and farm machinery to the farms.

Current Environment

The company is migrating all applications from an on-premises datacenter to Microsoft Azure. Applications support distributors, farmers, and internal company staff.

Corporate website

- The company hosts a public website located at <http://www.munsonspicklesandpreservesfarm.com>. The site supports farmers and distributors who request agricultural production resources.

Farms

- The company created a new customer tenant in the Microsoft Entra admin center to support authentication and authorization for applications.

Distributors

- Distributors integrate their applications with data that is accessible by using APIs hosted at <http://www.munsonspicklesandpreservesfarm.com/api> to receive and update resource data.

Requirements

The application components must meet the following requirements:

Corporate website

- The site must be migrated to Azure App Service.
- Costs must be minimized when hosting in Azure.
- Applications must automatically scale independent of the compute resources.
- All code changes must be validated by internal staff before release to production.
- File transfer speeds must improve, and webpage-load performance must increase.
- All site settings must be centrally stored, secured without using secrets, and encrypted at rest and in transit.
- A queue-based load leveling pattern must be implemented by using Azure Service Bus queues to support high volumes of website agricultural production resource requests.

Farms

- Farmers must authenticate to applications by using Microsoft Entra ID.

Distributors

- The company must track a custom telemetry value with each API call and monitor performance of all APIs.
- API telemetry values must be charted to evaluate variations and trends for resource data.

Internal staff

- App and API updates must be validated before release to production.
- Staff must be able to select a link to direct them back to the production app when validating an app or API update.
- Staff profile photos and email must be displayed on the website once they authenticate to applications by using their Microsoft Entra ID.

Security

- All web communications must be secured by using TLS/HTTPS.
- Web content must be restricted by country/region to support corporate compliance standards.
- The principle of least privilege must be applied when providing any user rights or process access rights.
- Managed identities for Azure resources must be used to authenticate services that support Microsoft Entra ID authentication.

Issues

Corporate website

- Farmers report HTTP 503 errors at the same time as internal staff report that CPU and memory usage are high.

- Distributors report HTTP 502 errors at the same time as internal staff report that average response times and networking traffic are high.
- Internal staff report webpage load sizes are large and take a long time to load.
- Developers receive authentication errors to Service Bus when they debug locally.

Distributors

- Many API telemetry values are sent in a short period of time. Telemetry traffic, data costs, and storage costs must be reduced while preserving a statistically correct analysis of the data points sent by the APIs.

You need to correct the internal staff issue with webpages.

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

Create an Azure Content Delivery Network profile.

Create an Azure Content Delivery Network origin group.

Configure Azure Content Delivery Network compression.

Create an Azure Content Delivery Network endpoint.

Configure a new Azure Content Delivery Network origin.

Add the Azure Content Delivery Network origin to the origin group.

Answer area



Answer area

Create an Azure Content Delivery Network profile.

Suggested Answer: Create an Azure Content Delivery Network endpoint.

Configure Azure Content Delivery Network compression.

by  Jedi at Jan. 7, 2024, 4:53 p.m.

EXAM AZ-204 TOPIC 5 QUESTION 5 DISCUSSION

DRAG DROP -

A company has multiple warehouses. Each warehouse contains IoT temperature devices which deliver temperature data to an Azure Service Bus queue.

You need to send email alerts to facility supervisors immediately if the temperature at a warehouse goes above or below specified threshold temperatures.

Which five 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

- Add a logic app trigger that fires when one or more messages arrive in the queue.
- Add a Recurrence trigger that schedules the app to run every 15 minutes.
- Add an action that sends an email to specified personnel if the temperature is outside of those thresholds.
- Add a trigger that reads IoT temperature data from a Service Bus queue.
- Add a logic app action that fires when one or more messages arrive in the queue.
- Add a condition that compares the temperature against the upper and lower thresholds.
- Create a blank Logic app.
- Add an action that reads IoT temperature data from the Service Bus queue.

Answer Area

Suggested Answer:

Actions

- Add a logic app trigger that fires when one or more messages arrive in the queue.
- Add a Recurrence trigger that schedules the app to run every 15 minutes.
- Add an action that sends an email to specified personnel if the temperature is outside of those thresholds.
- Add a trigger that reads IoT temperature data from a Service Bus queue.
- Add a logic app action that fires when one or more messages arrive in the queue.
- Add a condition that compares the temperature against the upper and lower thresholds.
- Create a blank Logic app.
- Add an action that reads IoT temperature data from the Service Bus queue.

Answer Area

- Create a blank Logic app.
- Add a logic app action that fires when one or more messages arrive in the queue.
- Add an action that reads IoT temperature data from the Service Bus queue.
- Add a condition that compares the temperature against the upper and lower thresholds.
- Add an action that sends an email to specified personnel if the temperature is outside of those thresholds.

Step 1: Create a blank Logic app.

Create and configure a Logic App.

Step 2: Add a logical app trigger that fires when one or more messages arrive in the queue.

Configure the logic app trigger.

Under Triggers, select When one or more messages arrive in a queue (auto-complete).

Step 3: Add an action that reads IoT temperature data from the Service Bus queue

Step 4: Add a condition that compares the temperature against the upper and lower thresholds.

Step 5: Add an action that sends an email to specified personnel if the temperature is outside of those thresholds

Reference:

<https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-monitoring-notifications-with-azure-logic-apps>

by  agueda at March 12, 2021, 11:41 a.m.

 EXAM AZ-204 TOPIC 5 QUESTION 50 DISCUSSION

You manage an Azure subscription that contains 100 Azure App Service web apps. Each web app is associated with an individual Application Insights instance.

You plan to remove Classic availability tests from all Application Insights instances that have this functionality configured.

You have the following PowerShell statement:

```
Get-AzApplicationInsightsWebTest | Where-Object { $condition }
```

You need to set the value of the \$condition variable.

Which value should you use?

- A. \$_.Type -eq "ping"
- B. \$_.WebTestKind -eq "ping"
- C. \$_.WebTestKind -eq "standard"
- D. \$_.Type -eq "standard"

Suggested Answer: B

Community vote distribution

B (100%)

by  shantanunp at Oct. 16, 2024, 4:42 a.m.

EXAM AZ-204 TOPIC 5 QUESTION 51 DISCUSSION

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 App Service web app named WebApp1 and an Azure Functions app named Function1. WebApp1 is associated with an Application Insights instance named appinsights1.

You configure a web test and a corresponding alert for WebApp1 in appinsights1. Each alert triggers a delivery of email to your mailbox.

You need to ensure that each alert also triggers execution of Function1.

Solution: Configure an Azure Monitor Insights workbook.

Does the solution meet the goal?

- A. Yes
- B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  Mattt at Oct. 30, 2024, 1:12 p.m.

EXAM AZ-204 TOPIC 5 QUESTION 52 DISCUSSION

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 App Service web app named WebApp1 and an Azure Functions app named Function1. WebApp1 is associated with an Application Insights instance named appinsights1.

You configure a web test and a corresponding alert for WebApp1 in appinsights1. Each alert triggers a delivery of email to your mailbox.

You need to ensure that each alert also triggers execution of Function1.

Solution: Configure an Application Insights smart detection.

Does the solution meet the goal?

- A. Yes
- B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  Mattt at Oct. 30, 2024, 1:13 p.m.

 EXAM AZ-204 TOPIC 5 QUESTION 54 DISCUSSION

You have a Standard tier instance of Azure Cache for Redis named redis1 configured with the default settings.

You need to configure a Maxmemory policy to increase the amount of cache available for read operations.

How should you configure the Maxmemory policy?

- A. Decrease the value of maxmemory-reserved.
- B. Increase the value of maxmemory-reserved.
- C. Set the Maxmemory policy to noeviction.
- D. Set the Maxmemory policy to volatile-lru.

Suggested Answer: A

Community vote distribution

A (54%)	D (38%)	8%
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by  [8_tharindus](#) at Oct. 20, 2024, 3:57 a.m.

EXAM AZ-204 TOPIC 5 QUESTION 56 DISCUSSION

Case study -

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study -

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. When you are ready to answer a question, click the Question button to return to the question.

Background -

Fourth Coffee is a global coffeehouse chain and coffee company recognized as one of the world's most influential coffee brands. The company is renowned for its specialty coffee beverages, including a wide range of espresso-based drinks, teas, and other beverages. Fourth Coffee operates thousands of stores worldwide.

Current environment -

The company is developing cloud-native applications hosted in Azure.

Corporate website -

The company hosts a public website located at <http://www.fourthcoffee.com/>. The website is used to place orders as well as view and update inventory items.

Inventory items -

In addition to its core coffee offerings, Fourth Coffee recently expanded its menu to include inventory items such as lunch items, snacks, and merchandise. Corporate team members constantly update inventory. Users can customize items. Corporate team members configure inventory items and associated images on the website.

Orders -

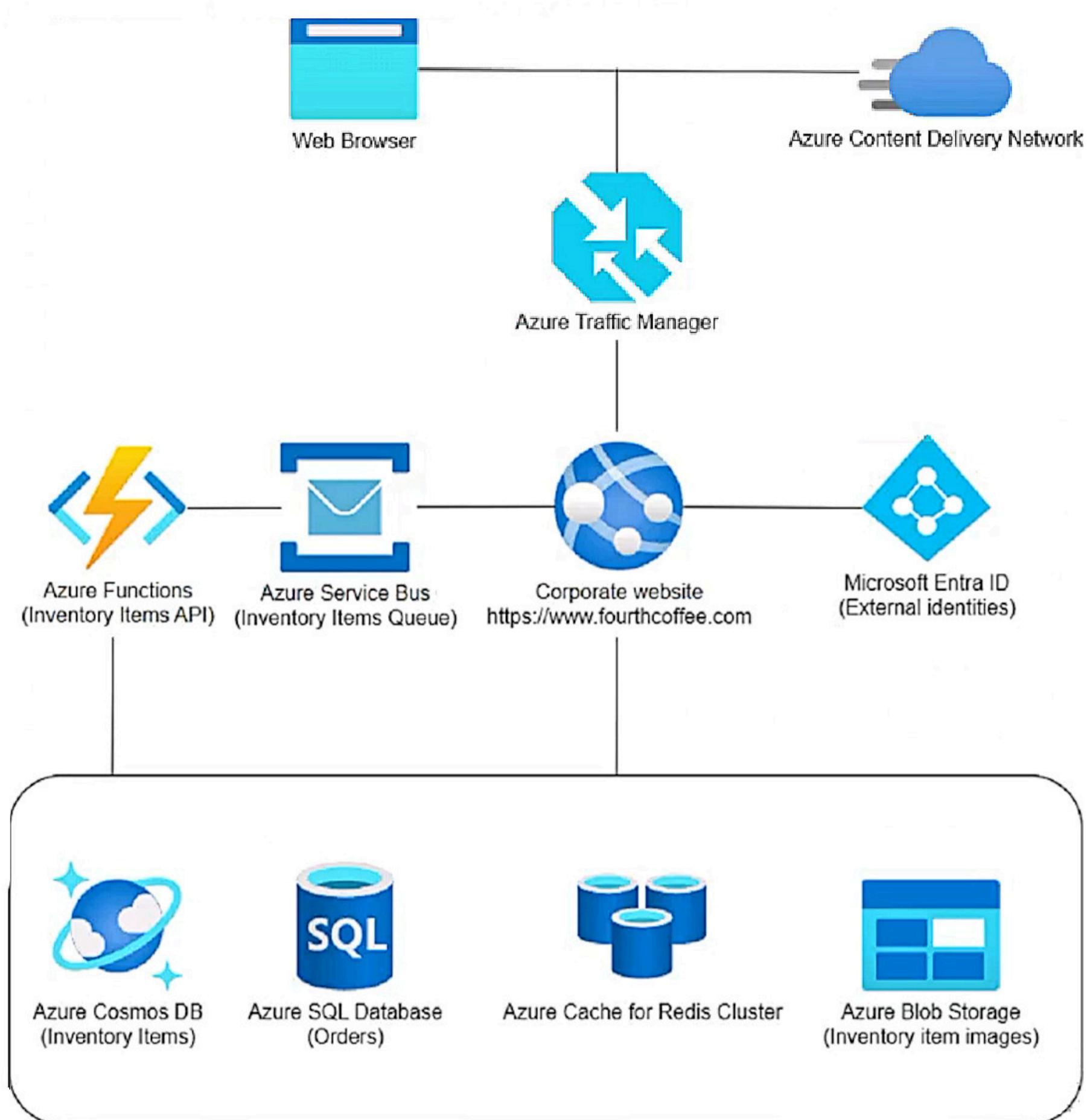
Associates in the store serve customized beverages and items to customers. Orders are placed on the website for pickup.

The application components process data as follows:

1. Azure Traffic Manager routes a user order request to the corporate website hosted in Azure App Service.
2. Azure Content Delivery Network serves static images and content to the user.
3. The user signs in to the application through a Microsoft Entra ID for customers tenant.
4. Users search for items and place an order on the website as item images are pulled from Azure Blob Storage.

5. Item customizations are placed in an Azure Service Bus queue message.
6. Azure Functions processes item customizations and saves the customized items to Azure Cosmos DB.
7. The website saves order details to Azure SQL Database.
8. SQL Database query results are cached in Azure Cache for Redis to improve performance.

The application consists of the following Azure services:



Requirements -

The application components must meet the following requirements:

- Azure Cosmos DB development must use a native API that receives the latest updates and stores data in a document format.
- Costs must be minimized for all Azure services.
- Developers must test Azure Blob Storage integrations locally before deployment to Azure. Testing must support the latest versions of the Azure Storage APIs.

Corporate website -

- User authentication and authorization must allow one-time passcode sign-in methods and social identity providers (Google or Facebook).

- Static web content must be stored closest to end users to reduce network latency.

Inventory items -

- Customized items read from Azure Cosmos DB must maximize throughput while ensuring data is accurate for the current user on the website.
- Processing of inventory item updates must automatically scale and enable updates across an entire Azure Cosmos DB container.
- Inventory items must be processed in the order they were placed in the queue.
- Inventory item images must be stored as JPEG files in their native format to include exchangeable image file format (data) stored with the blob data upon upload of the image file.
- The Inventory Items API must securely access the Azure Cosmos DB data.

Orders -

- Orders must receive inventory item changes automatically after inventory items are updated or saved.

Issues -

- Developers are storing the Azure Cosmos DB credentials in an insecure clear text manner within the Inventory Items API code.
- Production Azure Cache for Redis maintenance has negatively affected application performance.

You need to mitigate the Azure Cache for Redis issue.

What are two possible ways to achieve this goal? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Test application code by rebooting all nodes in the test environment.
- B. Configure client connections to retry commands with exponential backoff.
- C. Modify the maxmemory policy to evict the least frequently used keys out of all keys.
- D. Increase the maxmemory-reserved and maxfragmentationmemory-reserved values.
- E. Test application code by purging the cache in the test environment.

Suggested Answer: BC

Community vote distribution

AB (50%)

BC (50%)

by  Mattt at Oct. 30, 2024, 1:58 p.m.

EXAM AZ-204 TOPIC 5 QUESTION 58 DISCUSSION

You develop an ASP.NET Core application by integrating the Application Insights SDK into your solution.

The application sends a very high rate of telemetry in a short time interval. You observe a reduced number of events, traces, and metrics being recorded and increased error rates for telemetry ingestion. Telemetry data must synchronize the client and server information to allow HTTP request and response correlation.

You need to reduce telemetry traffic, data costs, and storage costs while preserving a statistically correct analysis of application telemetry data.

What should you do?

- A. Set a daily cap on the Log Analytics workspace. Create an Activity log alert rule.
- B. Modify the pricing tier for the Log Analytics workspace.
- C. Update the application code to reduce the number of DiagnosticSource events. Use filtering to exclude these events.
- D. Disable adaptive sampling. Enable and configure the fixed-rate sampling module.

Suggested Answer: D

Community vote distribution

D (100%)

by  Mattt at Oct. 31, 2024, 8:21 a.m.

EXAM AZ-204 TOPIC 5 QUESTION 59 DISCUSSION

You develop an ASP.NET Core application by integrating the Application Insights SDK into your solution.

The application sends a very high rate of telemetry in a short time interval. You observe a reduced number of events, traces, and metrics being recorded and increased error rates for telemetry ingestion. Telemetry data must synchronize the client and server information to allow HTTP request and response correlation.

You need to reduce telemetry traffic, data costs, and storage costs while preserving a statistically correct analysis of application telemetry data.

What should you do?

- A. Set a daily cap on the Log Analytics workspace. Create an Activity log alert rule.
- B. Modify the pricing tier for the Log Analytics workspace.
- C. Verify adaptive sampling is enabled. Set the maxTelemetryItemsPerSecond value.
- D. Set retention and archive policies by table in the Log Analytics workspace. Purge retained data beyond 30 days.

Suggested Answer: C

Community vote distribution

D (100%)

by  c01efe8 at Dec. 31, 2024, 1:29 p.m.

EXAM AZ-204 TOPIC 5 QUESTION 6 DISCUSSION

DRAG DROP -

You develop an ASP.NET Core MVC application. You configure the application to track webpages and custom events.

You need to identify trends in application usage.

Which Azure Application Insights Usage Analysis features should you use? To answer, drag the appropriate features to the correct requirements. Each feature 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:

Features	Answer Area	Requirement	Feature
Users		Which pages visited by users most often correlate to a product purchase?	Feature
Funnels		How does load time of the product display page affect a user's decision to purchase a product?	Feature
Impact		Which events most influence a user's decision to continue to use the application?	Feature
Retention		Are there places in the application that users often perform repetitive actions?	Feature
User Flows			

Suggested Answer:

Features	Answer Area	Requirement	Feature
Users		Which pages visited by users most often correlate to a product purchase?	Users
Funnels		How does load time of the product display page affect a user's decision to purchase a product?	Impact
Impact		Which events most influence a user's decision to continue to use the application?	Retention
Retention		Are there places in the application that users often perform repetitive actions?	User Flows
User Flows			

Box 1: Users -

Box 2: Impact -

One way to think of Impact is as the ultimate tool for settling arguments with someone on your team about how slowness in some aspect of your site is affecting whether users stick around. While users may tolerate a certain amount of slowness, Impact gives you insight into how best to balance optimization and performance to maximize user conversion.

Box 3: Retention -

The retention feature in Azure Application Insights helps you analyze how many users return to your app, and how often they perform particular tasks or achieve goals. For example, if you run a game site, you could compare the numbers of users who return to the site after losing a game with the number who return after winning. This knowledge can help you improve both your user experience and your business strategy.

Box 4: User flows -

The User Flows tool visualizes how users navigate between the pages and features of your site. It's great for answering questions like:

- ⌚ How do users navigate away from a page on your site?
- ⌚ What do users click on a page on your site?
- ⌚ Where are the places that users churn most from your site?
- ⌚ Are there places where users repeat the same action over and over?

Incorrect Answers:

Funnel: If your application involves multiple stages, you need to know if most customers are progressing through the entire process, or if they are ending the process at some point. The progression through a series of steps in a web application is known as a funnel. You can use Azure Application Insights Funnels to gain insights into your users, and monitor step-by-step conversion rates.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/usage-impact>

by  [Dinima](#) at *March 13, 2021, 4:52 p.m.*

EXAM AZ-204 TOPIC 5 QUESTION 7 DISCUSSION

You develop a gateway solution for a public facing news API. The news API back end is implemented as a RESTful service and uses an OpenAPI specification.

You need to ensure that you can access the news API by using an Azure API Management service instance.

Which Azure PowerShell command should you run?

- A. Import-AzureRmApiManagementApi -Context \$ApiMgmtContext -SpecificationFormat "Swagger" -SpecificationPath \$SwaggerPath -Path \$Path
- B. New-AzureRmApiManagementBackend -Context \$ApiMgmtContext -Url \$Url -Protocol http
- C. New-AzureRmApiManagement -ResourceGroupName \$ResourceGroup -Name \$Name --Location \$Location -Organization \$Org -AdminEmail \$AdminEmail
- D. New-AzureRmApiManagementBackendProxy -Url \$ApiUrl

Suggested Answer: A

Community vote distribution

A (70%)	C (26%)	4%
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by  Vano6k at Feb. 7, 2021, 5:03 p.m.

EXAM AZ-204 TOPIC 5 QUESTION 8 DISCUSSION

You are creating a hazard notification system that has a single signaling server which triggers audio and visual alarms to start and stop. You implement Azure Service Bus to publish alarms. Each alarm controller uses Azure Service Bus to receive alarm signals as part of a transaction. Alarm events must be recorded for audit purposes. Each transaction record must include information about the alarm type that was activated.

You need to implement a reply trail auditing solution.

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

NOTE: Each correct selection is worth one point.

- A. Assign the value of the hazard message SessionID property to the ReplyToSessionId property.
- B. Assign the value of the hazard message MessageId property to the DeliveryCount property.
- C. Assign the value of the hazard message SessionID property to the SequenceNumber property.
- D. Assign the value of the hazard message MessageId property to the CorrelationId property.
- E. Assign the value of the hazard message SequenceNumber property to the DeliveryCount property.
- F. Assign the value of the hazard message MessageId property to the SequenceNumber property.

Suggested Answer: AD

Community vote distribution

AD (100%)

by  Kitkit at Feb. 9, 2021, 8:41 p.m.

 EXAM AZ-204 TOPIC 5 QUESTION 9 DISCUSSION

You are developing an Azure function that connects to an Azure SQL Database instance. The function is triggered by an Azure Storage queue. You receive reports of numerous System.InvalidOperationExceptions with the following message:

'Timeout expired. The timeout period elapsed prior to obtaining a connection from the pool. This may have occurred because all pooled connections were in use and max pool size was reached.'

You need to prevent the exception.

What should you do?

- A. In the host.json file, decrease the value of the batchSize option
- B. Convert the trigger to Azure Event Hub
- C. Convert the Azure Function to the Premium plan
- D. In the function.json file, change the value of the type option to queueScaling

Suggested Answer: A

Community vote distribution

A (90%)	10%
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by  VK7Az204 at March 15, 2021, 1:49 p.m.

EXAM AZ-204 TOPIC 6 QUESTION 1 DISCUSSION

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 are developing an Azure solution to collect point-of-sale (POS) device data from 2,000 stores located throughout the world. A single device can produce 2 megabytes (MB) of data every 24 hours. Each store location has one to five devices that send data.

You must store the device data in Azure Blob storage. Device data must be correlated based on a device identifier. Additional stores are expected to open in the future.

You need to implement a solution to receive the device data.

Solution: Provision an Azure Service Bus. Configure a topic to receive the device data by using a correlation filter.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (81%)

A (19%)

by  kabs at July 9, 2020, 7:51 a.m.

EXAM AZ-204 TOPIC 6 QUESTION 10 DISCUSSION

You are developing an Azure messaging solution.

You need to ensure that the solution meets the following requirements:

- Provide transactional support.
- Provide duplicate detection.
- Store the messages for an unlimited period of time.

Which two technologies will meet the requirements? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Azure Service Bus Topic
- B. Azure Service Bus Queue
- C. Azure Storage Queue
- D. Azure Event Hub

Suggested Answer: AB

Community vote distribution

AB (82%)	BC (18%)
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by  matejka at Feb. 3, 2021, 7:39 p.m.

EXAM AZ-204 TOPIC 6 QUESTION 11 DISCUSSION

DRAG DROP -

You develop a gateway solution for a public facing news API.

The news API back end is implemented as a RESTful service and hosted in an Azure App Service instance.

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

Which target and gateway credential type should you use? To answer, drag the appropriate values to the correct parameters. Each value 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:

Values	Answer Area
Azure Resource	Configuration parameter Value
HTTP(s) endpoint	Target
Basic	Gateway credentials
Client cert	

Suggested Answer:

Values	Answer Area
	Configuration parameter Value
HTTP(s) endpoint	Target Azure Resource
Basic	Gateway credentials Client cert

Box 1: Azure Resource -

Box 2: Client cert -

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>

by  Kuna_Lambo at March 14, 2021, 10:29 p.m.

EXAM AZ-204 TOPIC 6 QUESTION 12 DISCUSSION

HOTSPOT -

You are creating an app that uses Event Grid to connect with other services. Your app's event data will be sent to a serverless function that checks compliance.

This function is maintained by your company.

You write a new event subscription at the scope of your resource. The event must be invalidated after a specific period of time.

You need to configure Event Grid.

What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Option	Value
WebHook event delivery	<ul style="list-style-type: none">SAS tokensKey authenticationManagement Access Control
Topic publishing	<ul style="list-style-type: none">ValidationCode handshakeValidationURL handshakeJWT token

Answer Area

Option	Value
WebHook event delivery	<ul style="list-style-type: none">SAS tokensKey authenticationManagement Access Control
Topic publishing	<ul style="list-style-type: none">ValidationCode handshakeValidationURL handshakeJWT token

Box 1: SAS tokens -

Custom topics use either Shared Access Signature (SAS) or key authentication. Microsoft recommends SAS, but key authentication provides simple programming, and is compatible with many existing webhook publishers.

In this case we need the expiration time provided by SAS tokens.

Box 2: ValidationCode handshake -

Event Grid supports two ways of validating the subscription: ValidationCode handshake (programmatic) and ValidationURL handshake (manual).

If you control the source code for your endpoint, this method is recommended.

Incorrect Answers:

ValidationURL handshake (manual): In certain cases, you can't access the source code of the endpoint to implement the ValidationCode handshake. For example, if you use a third-party service (like Zapier or IFTTT), you can't programmatically respond with the validation code.

Reference:

<https://docs.microsoft.com/en-us/azure/event-grid/security-authentication>

EXAM AZ-204 TOPIC 6 QUESTION 13 DISCUSSION

HOTSPOT -

You are working for Contoso, Ltd.

You define an API Policy object by using the following XML markup:

```
<set-variable name="bodySize" value="@{context.Request.Headers["Content-Length"] [0]}"/>
<choose>
    <when condition="@(int.Parse(context.Variables.GetValueOrDefault<string> ("bodySize"))<512000)">
    </when>
    <otherwise>
        <rewrite-uri template="/put"/>
        <set-backend-service base-url="http://contoso.com/api/9.1/">
    </otherwise>
</choose>
```

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statement	Yes	No
The XML segment belongs in the <inbound> section of the policy.	<input type="radio"/>	<input type="radio"/>
If the body size is >256k, an error will occur.	<input type="radio"/>	<input type="radio"/>
If the request is http://contoso.com/api/9.2/, the policy will retain the higher version.	<input type="radio"/>	<input type="radio"/>

Suggested Answer:

Answer Area

Statement	Yes	No
The XML segment belongs in the <inbound> section of the policy.	<input checked="" type="radio"/>	<input type="radio"/>
If the body size is >256k, an error will occur.	<input type="radio"/>	<input checked="" type="radio"/>
If the request is http://contoso.com/api/9.2/, the policy will retain the higher version.	<input type="radio"/>	<input checked="" type="radio"/>

Box 1: Yes -

Use the set-backend-service policy to redirect an incoming request to a different backend than the one specified in the API settings for that operation. Syntax:

```
<set-backend-service base-url="base URL of the backend service" />
```

Box 2: No -

The condition is on 512k, not on 256k.

Box 3: No -

The set-backend-service policy changes the backend service base URL of the incoming request to the one specified in the policy.

Reference:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-transformation-policies>

by  Araneus at Nov. 25, 2020, 5:16 p.m.

 EXAM AZ-204 TOPIC 6 QUESTION 14 DISCUSSION

You are developing a solution that will use Azure messaging services.

You need to ensure that the solution uses a publish-subscribe model and eliminates the need for constant polling.

What are two possible ways to achieve the goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Service Bus
- B. Event Hub
- C. Event Grid
- D. Queue

Suggested Answer: AC

Community vote distribution

AC (100%)

by  subbupro at June 7, 2020, 3:16 p.m.

EXAM AZ-204 TOPIC 6 QUESTION 15 DISCUSSION

A company is implementing a publish-subscribe (Pub/Sub) messaging component by using Azure Service Bus. You are developing the first subscription application.

In the Azure portal you see that messages are being sent to the subscription for each topic. You create and initialize a subscription client object by supplying the correct details, but the subscription application is still not consuming the messages.

You need to ensure that the subscription client processes all messages.

Which code segment should you use?

- A. await subscriptionClient.AddRuleAsync(new RuleDescription(RuleDescription.DefaultRuleName, new TrueFilter()));
- B. subscriptionClient = new SubscriptionClient(ServiceBusConnectionString, TopicName, SubscriptionName);
- C. await subscriptionClient.CloseAsync();
- D. subscriptionClient.RegisterMessageHandler(ProcessMessagesAsync, messageHandlerOptions);

Suggested Answer: D

Community vote distribution

D (100%)

by  Ritesh073 at Aug. 23, 2020, 7:35 a.m.

EXAM AZ-204 TOPIC 6 QUESTION 16 DISCUSSION

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 are developing an Azure Service application that processes queue data when it receives a message from a mobile application. Messages may not be sent to the service consistently.

You have the following requirements:

- Queue size must not grow larger than 80 gigabytes (GB).
- Use first-in-first-out (FIFO) ordering of messages.
- Minimize Azure costs.

You need to implement the messaging solution.

Solution: Use the .Net API to add a message to an Azure Storage Queue from the mobile application. Create an Azure VM that is triggered from Azure Storage

Queue events.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  Lkk51 at June 6, 2020, 7:42 a.m.

EXAM AZ-204 TOPIC 6 QUESTION 17 DISCUSSION

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.

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You are developing an Azure Service application that processes queue data when it receives a message from a mobile application. Messages may not be sent to the service consistently.

You have the following requirements:

- Queue size must not grow larger than 80 gigabytes (GB).
- Use first-in-first-out (FIFO) ordering of messages.
- Minimize Azure costs.

You need to implement the messaging solution.

Solution: Use the .Net API to add a message to an Azure Service Bus Queue from the mobile application. Create an Azure Windows VM that is triggered from

Azure Service Bus Queue.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  neosri at May 10, 2020, 7:49 p.m.

EXAM AZ-204 TOPIC 6 QUESTION 18 DISCUSSION

DRAG DROP -

You are developing a REST web service. Customers will access the service by using an Azure API Management instance.

The web service does not correctly handle conflicts. Instead of returning an HTTP status code of 409, the service returns a status code of 500.

The body of the status message contains only the word conflict.

You need to ensure that conflicts produce the correct response.

How should you complete the policy? To answer, drag the appropriate code segments to the correct locations. Each code segment 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:

Policy segments

server
context
on-error
set-status
when-error
override-status

Answer Area

```
< Policy segment >
<base />
<choose>
  <when condition = " @ Policy segment .Response.StatusCode == 500
    && Policy segment .LastError.Message.Contains
      <return-response>
        < Policy segment >
        </return-response>
      </when>
      <otherwise />
    </choose>
< Policy segment >
```

Suggested Answer:

Policy segments

server
context
on-error
set-status
when-error
override-status

Answer Area

```
< on-error >
<base />
<choose>
  <when condition = " @ context .Response.StatusCode == 500
    && context .LastError.Message.Contains
      <return-response>
        < set-status >
        </return-response>
      </when>
      <otherwise />
    </choose>
< on-error >
```

Box 1: on-error -

Policies in Azure API Management are divided into inbound, backend, outbound, and on-error.

If there is no on-error section, callers will receive 400 or 500 HTTP response messages if an error condition occurs.

Box 2: context -

Box 3: context -

Box 4: set-status -

The return-response policy aborts pipeline execution and returns either a default or custom response to the caller. Default response is 200 OK with no body.

Custom response can be specified via a context variable or policy statements.

Syntax:

```
<return-response response-variable-name="existing context variable">
<set-header/>
<set-body/>
<set-status/>
</return-response>
```

Box 5: on-error -

Reference:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-error-handling-policies> <https://docs.microsoft.com/en-us/azure/api-management/api-management-transformation-policies>

by  [jokergester](#) at April 3, 2021, 11:46 a.m.

EXAM AZ-204 TOPIC 6 QUESTION 19 DISCUSSION

DRAG DROP -

You are a developer for a Software as a Service (SaaS) company. You develop solutions that provide the ability to send notifications by using Azure Notification Hubs.

You need to create sample code that customers can use as a reference for how to send raw notifications to Windows Push Notification Services (WNS) devices.

The sample code must not use external packages.

How should you complete the code segment? To answer, drag the appropriate code segments to the correct locations. Each code segment 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:

Code segments

raw
windows
windowsphone
application/xml
application/json
application/octet-stream

Answer Area

```
var endpoint = "...";
var payload = "...";
var request = new HttpRequestMessage(HttpMethod.Post, endpoint);
request.Headers.Add("X-WNS-Type", "wns/raw");
request.Headers.Add("ServiceBusNotification-Format", "Code segment");
request.Content = new StringContent(payload, Encoding.UTF8, "Code segment");
var client = new HttpClient();
await client.SendAsync(request);
```

Suggested Answer:

Code segments

raw

windowsphone
application/xml
application/json

Box 1: windows -
Example code:
var request = new HttpRequestMessage(method, \$"{resourceUri}?api-version=2017-04"); request.Headers.Add("Authorization",
createToken(resourceUri, KEY_NAME,
KEY_VALUE));
request.Headers.Add("X-WNS-Type", "wns/raw");
request.Headers.Add("ServiceBusNotification-Format", "windows"); return request;

Answer Area

```
var endpoint = "...";
var payload = "...";
var request = new HttpRequestMessage(HttpMethod.Post, endpoint);
request.Headers.Add("X-WNS-Type", "wns/raw");
request.Headers.Add("ServiceBusNotification-Format", "windows");
request.Content = new StringContent(payload, Encoding.UTF8, "application/octet-stream");
var client = new HttpClient();
await client.SendAsync(request);
```

Box 2: application/octet-stream -

Example code capable of sending a raw notification:

```
string resourceUri = $"https://{{NH_NAMESPACE}}.servicebus.windows.net/{{HUB_NAME}}/messages/"; using (var request =
CreateHttpRequest(HttpStatusCode.Post, resourceUri))
{
    request.Content = new StringContent(content, Encoding.UTF8,
"application/octet-stream");
```

```
request.Content.Headers.ContentType.CharSet = string.Empty;
var httpClient = new HttpClient();
var response = await httpClient.SendAsync(request);
Console.WriteLine(response.StatusCode);
}
Reference:
https://stackoverflow.com/questions/31346714/how-to-send-raw-notification-to-azure-notification-hub/31347901
```

by  markra at June 1, 2021, 6:01 p.m.

EXAM AZ-204 TOPIC 6 QUESTION 2 DISCUSSION

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 are developing an Azure solution to collect point-of-sale (POS) device data from 2,000 stores located throughout the world. A single device can produce 2 megabytes (MB) of data every 24 hours. Each store location has one to five devices that send data.

You must store the device data in Azure Blob storage. Device data must be correlated based on a device identifier. Additional stores are expected to open in the future.

You need to implement a solution to receive the device data.

Solution: Provision an Azure Event Grid. Configure event filtering to evaluate the device identifier.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (89%)	11%
---------	-----

by  superman917 at June 7, 2020, 5:13 p.m.

EXAM AZ-204 TOPIC 6 QUESTION 20 DISCUSSION

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 are developing an Azure solution to collect point-of-sale (POS) device data from 2,000 stores located throughout the world. A single device can produce

2 megabytes (MB) of data every 24 hours. Each store location has one to five devices that send data.

You must store the device data in Azure Blob storage. Device data must be correlated based on a device identifier. Additional stores are expected to open in the future.

You need to implement a solution to receive the device data.

Solution: Provision an Azure Event Hub. Configure the machine identifier as the partition key and enable capture.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: A

Community vote distribution

A (53%)

B (47%)

by  MichaelN1 at June 1, 2021, 8:20 a.m.

EXAM AZ-204 TOPIC 6 QUESTION 21 DISCUSSION

DRAG DROP -

You are developing an Azure solution to collect inventory data from thousands of stores located around the world. Each store location will send the inventory data hourly to an Azure Blob storage account for processing.

The solution must meet the following requirements:

- Begin processing when data is saved to Azure Blob storage.
- Filter data based on store location information.
- Trigger an Azure Logic App to process the data for output to Azure Cosmos DB.
- Enable high availability and geographic distribution.
- Allow 24-hours for retries.
- Implement an exponential back off data processing.

You need to configure the solution.

What should you implement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Select and Place:

Technologies

- Azure Event Hub
- Azure Event Grid
- Azure Service Bus
- Azure Blob Storage
- Azure App Service
- Azure Logic App

Answer Area

Object

Event Source

Technology

Technology

Event Receiver

Technology

Event Handler

Technology

Suggested Answer:

Technologies

- Azure Event Hub
- Azure Blob Storage
- Azure App Service

Answer Area

Object

Event Source

Technology

Azure Event Grid

Event Receiver

Azure Logic App

Event Handler

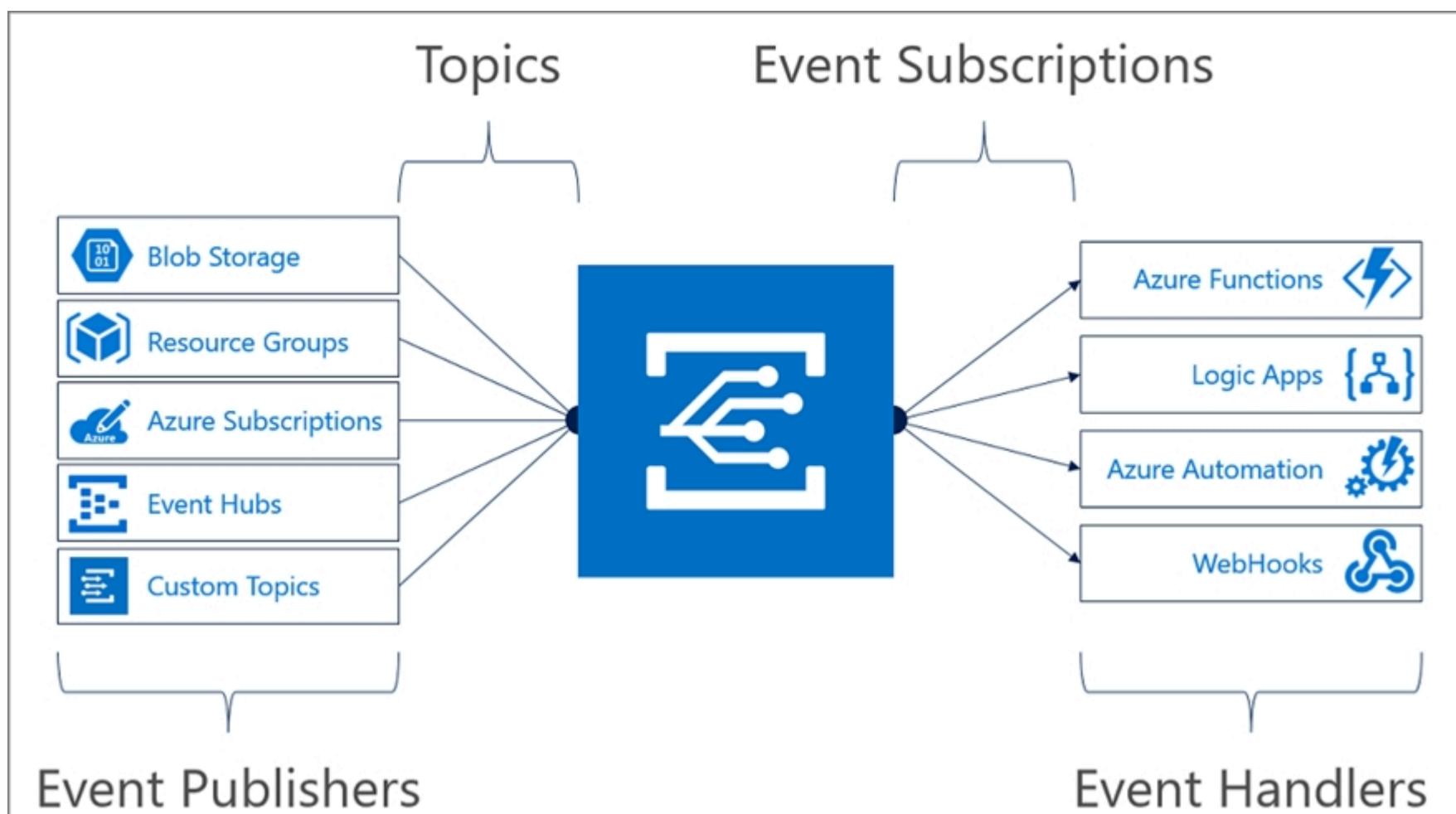
Azure Service Bus

Box 1: Azure Event Grid -

Blob storage events are pushed using Azure Event Grid to subscribers such as Azure Functions, Azure Logic Apps, or even to your own http listener. Event Grid provides reliable event delivery to your applications through rich retry policies and dead-lettering.

Box 2: Azure Logic App -

Event Grid uses event subscriptions to route event messages to subscribers. This image illustrates the relationship between event publishers, event subscriptions, and event handlers.



Box 3: Azure Service Bus -

The Event Grid service doesn't store events. Instead, events are stored in the Event Handlers, including ServiceBus, EventHubs, Storage Queue, WebHook endpoint, or many other supported Azure Services.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-event-overview> <https://docs.microsoft.com/en-us/java/api/overview/azure/messaging-eventgrid-readme>

by 7ack at July 1, 2021, 6:56 a.m.

 EXAM AZ-204 TOPIC 6 QUESTION 22 DISCUSSION

You are creating an app that will use CosmosDB for data storage. The app will process batches of relational data.

You need to select an API for the app.

Which API should you use?

- A. MongoDB API
- B. Table API
- C. SQL API
- D. Cassandra API

Suggested Answer: C

Community vote distribution

C (100%)

by  DongKG at April 25, 2022, 3:38 p.m.

EXAM AZ-204 TOPIC 6 QUESTION 23 DISCUSSION

HOTSPOT -

You are developing a .NET application that communicates with Azure Storage.

A message must be stored when the application initializes.

You need to implement the message.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
CloudStorageAccount storageAccount = CloudStorageAccount.Parse
(CloudConfigurationManager.GetSetting ("StorageConnectionString"));

pVar1 = storageAccount. ▾ () ;

CloudQueueClient
CloudTableClient
CloudQueue
CloudTable

pVar2 = pVar1. ▾ ("contoso-storage") ;

CloudQueueClient
CloudTableClient
CloudQueue
CloudTable

CreateCloudQueueClient
CreateCloudTableClient
GetQueueReference
GetTableReference

CreateCloudQueueClient
CreateCloudTableClient
GetQueueReference
GetTableReference

try
{
    await pVar2.CreateIfNotExistsAsync();
}
catch (StorageException x)
{
    throw;
}

CloudQueueMessage cloudQueueMessage = new CloudQueueMessage("App Launch: <iUserID>");
await pVar2.AddMessageAsync(cloudQueueMessage);
```

Suggested Answer:

Answer Area

```
CloudStorageAccount storageAccount = CloudStorageAccount.Parse
(CloudConfigurationManager.GetSetting ("StorageConnectionString"));

pVar1 = storageAccount. ▼ (); ▼
CloudQueueClient
CloudTableClient
CloudQueue
CloudTable

pVar2 = pVar1. ▼ (); ▼ ("contoso-storage");
CloudQueueClient
CloudTableClient
CloudQueue
CloudTable
CreateCloudQueueClient
CreateCloudTableClient
GetQueueReference
GetTableReference

CreateCloudQueueClient
CreateCloudTableClient
GetQueueReference
GetTableReference

try
{
    await pVar2.CreateIfNotExistsAsync();
}
catch (StorageException x)
{
    throw;
}
CloudQueueMessage cloudQueueMessage = new CloudQueueMessage ("App Launch: <iUserID>");
await pVar2.AddMessageAsync(cloudQueueMessage);
```

Reference:

<https://docs.microsoft.com/en-us/azure/storage/queues/storage-dotnet-how-to-use-queues?tabs=dotnetv11>

by  huiSLaw at April 27, 2022, 8:18 a.m.

EXAM AZ-204 TOPIC 6 QUESTION 24 DISCUSSION

HOTSPOT -

A software as a service (SaaS) company provides document management services. The company has a service that consists of several Azure web apps. All

Azure web apps run in an Azure App Service Plan named PrimaryASP.

You are developing a new web service by using a web app named ExcelParser. The web app contains a third-party library for processing Microsoft Excel files.

The license for the third-party library stipulates that you can only run a single instance of the library.

You need to configure the service.

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

```
Set-AzAppServicePlan `  
    -ResourceGroupName $rg `  
    -Name "PrimaryASP" `
```

NumberOfSites 1
PerSiteScaling \$true
TargetWorkerCount = 1
MaxNumberOfWorkers = 1
SiteConfig.NumberOfWorkers = 1

```
$app = Get-AzWebApp `  
    -ResourceGroupName $rg `  
    -Name "ExcelParser"
```

\$app.
NumberOfSites 1
PerSiteScaling \$true
TargetWorkerCount = 1
MaxNumberOfWorkers = 1
SiteConfig.NumberOfWorkers = 1

```
Set-AzWebApp $app
```

Answer Area

```
Set-AzAppServicePlan `
```

```
    -ResourceGroupName $rg `
```

```
    -Name "PrimaryASP" `
```

NumberOfSites 1	▼
PerSiteScaling \$true	▼
TargetWorkerCount = 1	▼
MaxNumberOfWorkers = 1	▼
SiteConfig.NumberOfWorkers = 1	▼

Suggested Answer:

```
$app = Get-AzWebApp `
```

```
    -ResourceGroupName $rg `
```

```
    -Name "ExcelParser"
```

```
$app. 

|                                |   |
|--------------------------------|---|
| NumberOfSites 1                | ▼ |
| PerSiteScaling \$true          | ▼ |
| TargetWorkerCount = 1          | ▼ |
| MaxNumberOfWorkers = 1         | ▼ |
| SiteConfig.NumberOfWorkers = 1 | ▼ |


```

```
Set-AzWebApp $app
```

Reference:

<https://docs.microsoft.com/en-us/azure/app-service/manage-scale-per-app>

by  [huislaw](#) at April 27, 2022, 8:29 a.m.

EXAM AZ-204 TOPIC 6 QUESTION 25 DISCUSSION

DRAG DROP -

You have an application that provides weather forecasting data to external partners. You use Azure API Management to publish APIs.

You must change the behavior of the API to meet the following requirements:

- Support alternative input parameters
- Remove formatting text from responses
- Provide additional context to back-end services

Which types of policies should you implement? To answer, drag the policy types to the correct requirements. Each policy 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:

Policy types	Answer Area	Requirement	Policy type
Inbound		Support alternative input parameters.	policy type
Outbound		Remove formatting text from responses.	policy type
Backend		Provide additional context to back-end services.	policy type

Suggested Answer:

Policy types	Answer Area	Requirement	Policy type
Inbound		Support alternative input parameters.	Inbound
Outbound		Remove formatting text from responses.	Outbound
Backend		Provide additional context to back-end services.	Inbound

Reference:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-policies> <https://docs.microsoft.com/en-us/azure/api-management/api-management-transformation-policies#forward-context-information-to-the-backend-service>

by  sghaha at April 29, 2022, 8:04 a.m.

 EXAM AZ-204 TOPIC 6 QUESTION 26 DISCUSSION

You are developing an e-commerce solution that uses a microservice architecture.

You need to design a communication backplane for communicating transactional messages between various parts of the solution. Messages must be communicated in first-in-first-out (FIFO) order.

What should you use?

- A. Azure Storage Queue
- B. Azure Event Hub
- C. Azure Service Bus
- D. Azure Event Grid

Suggested Answer: C

Community vote distribution

C (100%)

by  rahulrai19 at Nov. 2, 2020, 11:28 a.m.

EXAM AZ-204 TOPIC 6 QUESTION 27 DISCUSSION

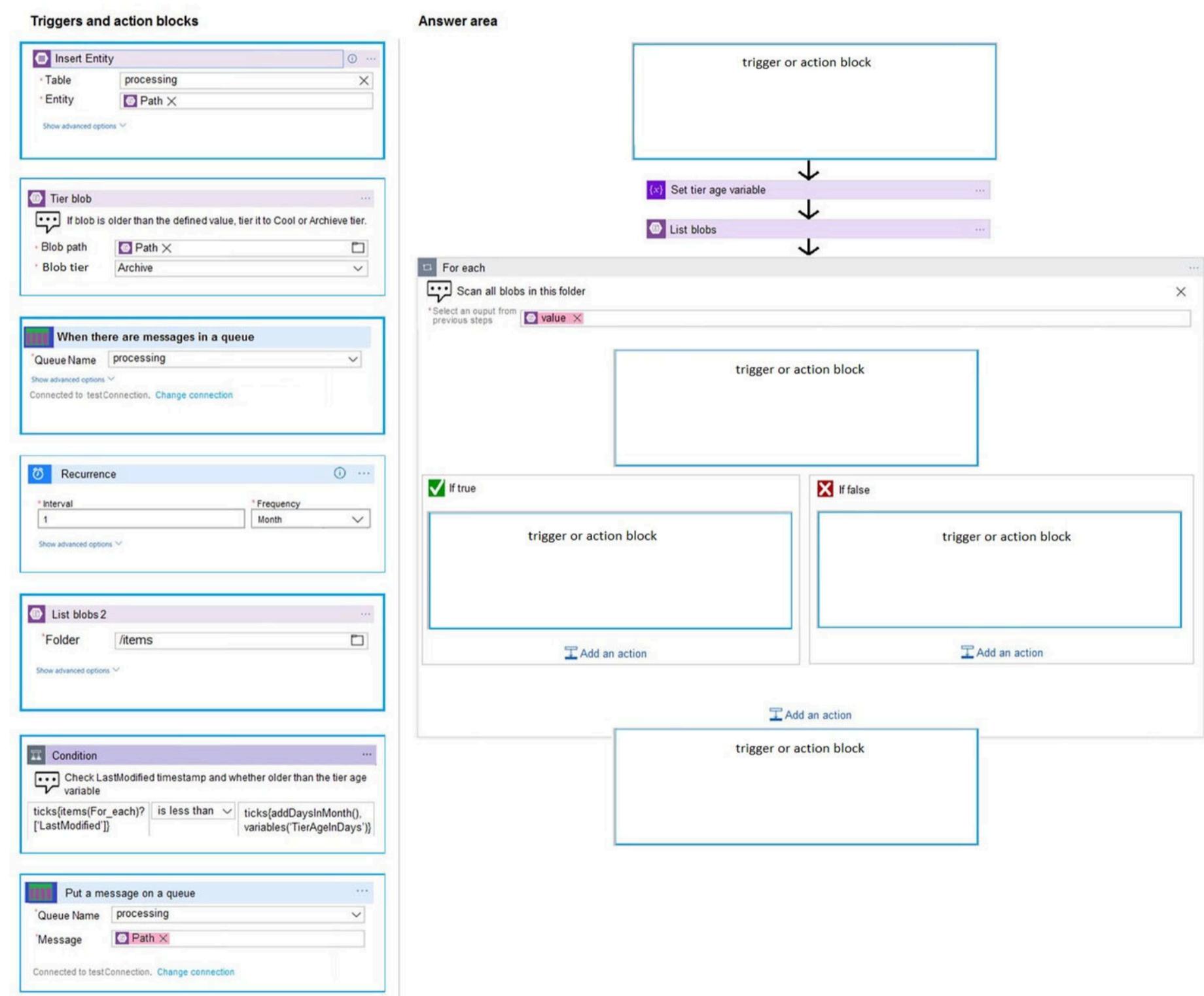
DRAG DROP -

A company backs up all manufacturing data to Azure Blob Storage. Admins move blobs from hot storage to archive tier storage every month. You must automatically move blobs to Archive tier after they have not been modified within 180 days. The path for any item that is not archived must be placed in an existing queue. This operation must be performed automatically once a month. You set the value of TierAgeInDays to -180.

How should you configure the Logic App? To answer, drag the appropriate triggers or action blocks to the correct trigger or action slots. Each trigger or action block 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:



Suggested Answer:

Triggers and action blocks

Answer area

Box 1: Reoccurrence..

To regularly run tasks, processes, or jobs on specific schedule, you can start your logic app workflow with the built-in Recurrence - Schedule trigger. You can set a date and time as well as a time zone for starting the workflow and a recurrence for repeating that workflow.

Set the interval and frequency for the recurrence. In this example, set these properties to run your workflow every week.

Box 2: Condition..

To run specific actions in your logic app only after passing a specified condition, add a conditional statement. This control structure compares the data in your workflow against specific values or fields. You can then specify different actions that run based on whether or not the data meets the condition.

Box 3: Put a message on a queue -

The path for any item that is not archived must be placed in an existing queue.

Note: Under If true and If false, add the steps to perform based on whether the condition is met.

Box 4: ..tier it to Cool or Archive tier.

Archive item.

Box 5: List blobs 2 -

Reference:

<https://docs.microsoft.com/en-us/azure/connectors/connectors-native-recurrence> <https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-control-flow-loops> <https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-control-flow-conditional-statement>

by  **MariusN** at Nov. 3, 2020, 10:09 a.m.

EXAM AZ-204 TOPIC 6 QUESTION 28 DISCUSSION

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 are developing an Azure Service application that processes queue data when it receives a message from a mobile application. Messages may not be sent to the service consistently.

You have the following requirements:

- Queue size must not grow larger than 80 gigabytes (GB).
- Use first-in-first-out (FIFO) ordering of messages.
- Minimize Azure costs.

You need to implement the messaging solution.

Solution: Use the .Net API to add a message to an Azure Service Bus Queue from the mobile application. Create an Azure Function App that uses an Azure

Service Bus Queue trigger.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: A

Community vote distribution

A (91%)	9%
---------	----

by  kemtin at Nov. 22, 2020, 7:30 a.m.

EXAM AZ-204 TOPIC 6 QUESTION 29 DISCUSSION

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 are developing an Azure solution to collect point-of-sale (POS) device data from 2,000 stores located throughout the world. A single device can produce 2 megabytes (MB) of data every 24 hours. Each store location has one to five devices that send data.

You must store the device data in Azure Blob storage. Device data must be correlated based on a device identifier. Additional stores are expected to open in the future.

You need to implement a solution to receive the device data.

Solution: Provision an Azure Notification Hub. Register all devices with the hub.

Does the solution meet the goal?

- A. Yes
- B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  Camios at July 10, 2020, 7:43 a.m.

EXAM AZ-204 TOPIC 6 QUESTION 3 DISCUSSION

DRAG DROP -

You manage several existing Logic Apps.

You need to change definitions, add new logic, and optimize these apps on a regular basis.

What should you use? To answer, drag the appropriate tools to the correct functionalities. Each tool 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

Tools	Functionality	Tool
Logic Apps Designer	Edit B2B workflows	
Code View Editor	Edit definitions in JSON	
Enterprise Integration Pack	Visually add functionality	

Answer Area

Tools	Functionality	Tool
Suggested Answer:	Logic Apps Designer	Edit B2B workflows
	Code View Editor	Edit definitions in JSON
	Enterprise Integration Pack	Visually add functionality

Box 1: Enterprise Integration Pack

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.

Box 2: Code View Editor -

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.

Box 3: Logic Apps Designer -

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>

 EXAM AZ-204 TOPIC 6 QUESTION 30 DISCUSSION

You are building a loyalty program for a major snack producer. When customers buy a snack at any of 100 participating retailers the event is recorded in Azure

Event Hub. Each retailer is given a unique identifier that is used as the primary identifier for the loyalty program.

Retailers must be able to be added or removed at any time. Retailers must only be able to record sales for themselves.

You need to ensure that retailers can record sales.

What should you do?

- A. Use publisher policies for retailers.
- B. Create a partition for each retailer.
- C. Define a namespace for each retailer.

Suggested Answer: A

Community vote distribution

A (100%)

by  [finnishr](#) at Sept. 5, 2022, 6:52 p.m.

EXAM AZ-204 TOPIC 6 QUESTION 31 DISCUSSION

DRAG DROP -

You develop and deploy a web app to Azure App Service in a production environment. You scale out the web app to four instances and configure a staging slot to support changes.

You must monitor the web app in the environment to include the following requirements:

- Increase web app availability by re-routing requests away from instances with error status codes and automatically replace instances if they remain in an error state after one hour.
- Send web server logs, application logs, standard output, and standard error messaging to an Azure Storage blob account.

You need to configure Azure App Service.

Which values should you use? To answer, drag the appropriate configuration value to the correct requirements. Each configuration value 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:

Configuration values

- Health check
- Diagnostic setting
- Deployment slot
- Autoscale rule
- Zone redundancy

Answer Area

Requirement

- Increase availability
- Send logs

Configuration value

- Configuration value
- Configuration value

Suggested Answer:

Configuration values

- Health check
- Diagnostic setting
- Deployment slot
- Autoscale rule
- Zone redundancy

Answer Area

Requirement

- Increase availability
- Send logs

Configuration value

- Health check
- Diagnostic setting

Box 1: Health check -

Health check increases your application's availability by re-routing requests away from unhealthy instances, and replacing instances if they remain unhealthy. Your

App Service plan should be scaled to two or more instances to fully utilize Health check.

Box 2: Diagnostic setting -

Azure provides built-in diagnostics to assist with debugging an App Service app.

With the new Azure Monitor integration, you can create Diagnostic Settings to send logs to Storage Accounts, Event Hubs and Log Analytics. Reference:

<https://docs.microsoft.com/en-us/azure/app-service/monitor-instances-health-check> <https://docs.microsoft.com/en-us/azure/app-service/troubleshoot-diagnostic-logs>

 EXAM AZ-204 TOPIC 6 QUESTION 32 DISCUSSION

You develop a solution that uses Azure Virtual Machines (VMs).

The VMs contain code that must access resources in an Azure resource group. You grant the VM access to the resource group in Resource Manager.

You need to obtain an access token that uses the VM's system-assigned managed identity.

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

- A. From the code on the VM, call Azure Resource Manager using an access token.
- B. Use PowerShell on a remote machine to make a request to the local managed identity for Azure resources endpoint.
- C. Use PowerShell on the VM to make a request to the local managed identity for Azure resources endpoint.
- D. From the code on the VM, call Azure Resource Manager using a SAS token.
- E. From the code on the VM, generate a user delegation SAS token.

Suggested Answer: AC

Community vote distribution

AC (100%)

by  le129 at Sept. 1, 2022, 6:35 p.m.

 EXAM AZ-204 TOPIC 6 QUESTION 33 DISCUSSION

You are developing a road tollway tracking application that sends tracking events by using Azure Event Hubs using premium tier.

Each road must have a throttling policy uniquely assigned.

You need to configure the event hub to allow for per-road throttling.

What should you do?

- A. Use a unique consumer group for each road.
- B. Ensure each road stores events in a different partition.
- C. Ensure each road has a unique connection string.
- D. Use a unique application group for each road.

Suggested Answer: D

Community vote distribution

D (91%)	7%
---------	----

by  Junius at Sept. 1, 2022, 9:11 a.m.

 EXAM AZ-204 TOPIC 6 QUESTION 34 DISCUSSION

You develop and deploy an ASP.NET Core application that connects to an Azure Database for MySQL instance. Connections to the database appear to drop intermittently and the application code does not handle the connection failure. You need to handle the transient connection errors in code by implementing retries. What are three possible ways to achieve this goal? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Close the database connection and immediately report an error.
- B. Disable connection pooling and configure a second Azure Database for MySQL instance.
- C. Wait five seconds before repeating the connection attempt to the database.
- D. Set a maximum number of connection attempts to 10 and report an error on subsequent connections.
- E. Increase connection repeat attempts exponentially up to 120 seconds.

Suggested Answer: CDE

Community vote distribution

CDE (93%)	7%
-----------	----

by  Junius at Sept. 1, 2022, 9:13 a.m.

 EXAM AZ-204 TOPIC 6 QUESTION 35 DISCUSSION

You are building a B2B web application that uses Azure B2B collaboration for authentication. Paying customers authenticate to Azure B2B using federation.

The application allows users to sign up for trial accounts using any email address.

When a user converts to a paying customer, the data associated with the trial should be kept, but the user must authenticate using federation.

You need to update the user in Azure Active Directory (Azure AD) when they convert to a paying customer.

Which Graph API parameter is used to change authentication from one-time passcodes to federation?

- A. resetRedemption
- B. Status
- C. userFlowType
- D. invitedUser

Suggested Answer: A

Community vote distribution

A (93%) 7%

by  le129 at Sept. 1, 2022, 6:53 p.m.

 EXAM AZ-204 TOPIC 6 QUESTION 36 DISCUSSION

HOTSPOT

You develop an image upload service that is exposed using Azure API Management. Images are analyzed after upload for automatic tagging.

Images over 500 KB are processed by a different backend that offers a lower tier of service that costs less money. The lower tier of service is denoted by a header named x-large-request. Images over 500 KB must never be processed by backends for smaller images and must always be charged the lower price.

You need to implement API Management policies to ensure that images are processed correctly.

How should you complete the API Management inbound policy? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Answer Area

```
<inbound>
<base/>
<set-variable name="imageSize" value="@{context.Request.Headers["Content-Length="][0])}" />
<choose>
  <when condition="@{int.Parse(context.Variables.GetValueOrDefault<string>("imageSize"))<512000}">
    <set-header name="x-large-request" exists-action="
      <value>true</value>
    </set-header>
  </when>
  <otherwise>
    <
      <!-- Possible values -->
      set-body
      forward-request
      set-backend-service
      set-query-parameter
      base-url
      dimension
      vary-by-header
      publish-to-dapr
    >
    = "{{large-image-host}}"/>
  </otherwise>
</choose>
</inbound>
```

Suggested Answer:

by JustHereToLearn at Feb. 3, 2023, 5:53 a.m.

EXAM AZ-204 TOPIC 6 QUESTION 37 DISCUSSION

HOTSPOT

You develop several Azure Functions app functions to process JSON documents from a third-party system. The third-party system publishes events to Azure Event Grid to include hundreds of event types, such as billing, inventory, and shipping updates.

Events must be sent to a single endpoint for the Azure Functions app to process. The events must be filtered by event type before processing. You must have authorization and authentication control to partition your tenants to receive the event data.

You need to configure Azure Event Grid.

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

NOTE: Each correct selection is worth one point.

Answer Area

Requirement

Third-party system endpoint to send events

Configuration Value

- system topic
- custom topic
- event domain
- event subscription

Azure Functions app endpoint to handle filtered events

- system topic
- custom topic
- event domain
- event subscription

Answer Area

Requirement

Third-party system endpoint to send events

Configuration Value

- system topic
- custom topic
- event domain
- event subscription

Suggested Answer:

Azure Functions app endpoint to handle filtered events

- system topic
- custom topic
- event domain
- event subscription

 EXAM AZ-204 TOPIC 6 QUESTION 38 DISCUSSION

A company is developing a solution that allows smart refrigerators to send temperature information to a central location.

The solution must receive and store messages until they can be processed. You create an Azure Service Bus instance by providing a name, pricing tier, subscription, resource group, and location.

You need to complete the configuration.

Which Azure CLI or PowerShell command should you run?

A.

```
az group create  
  --name fridge-rg  
  --location fridge-loc
```

B.

```
New-AzureRmServiceBusQueue  
  -ResourceGroupName fridge-rg  
  -NamespaceName fridge-ns  
  -Name fridge-q  
  -EnablePartitioning $False
```

C.

```
connectionString=$(az servicebus namespace authorization-rule keys list  
  --resource-group fridge-rg  
  --namespace-name fridge-ns  
  --name RootManageSharedAccessKey  
  --query primaryConnectionString --output tsv)
```

D.

```
az servicebus namespace create  
  --resource-group fridge-rg  
  --name fridge-ns  
  --location fridge-loc
```

Suggested Answer: B

Community vote distribution

B (72%)

D (28%)

by  MilosPeric at Jan. 16, 2023, 12:49 a.m.

EXAM AZ-204 TOPIC 6 QUESTION 4 DISCUSSION

A company is developing a solution that allows smart refrigerators to send temperature information to a central location. The solution must receive and store messages until they can be processed. You create an Azure Service Bus instance by providing a name, pricing tier, subscription, resource group, and location.

You need to complete the configuration.

Which Azure CLI or PowerShell command should you run?

A.

```
az servicebus queue create  
--resource-group fridge-rg  
--namespace-name fridge-ns  
--name fridge-q
```

B.

```
New-AzureRmResourceGroup  
-Name fridge-rg  
-Location fridge-loc
```

C.

```
az servicebus namespace create  
--resource-group fridge-rg  
--name fridge-ns  
--location fridge-loc
```

D.

```
connectionString=$)az serviceBus namespace authorization-rule keys list  
--resource-group fridge-rg  
--fridge-ns fridge-ns  
--query primaryConnectionString --output tsv)
```

Suggested Answer: A

A service bus instance has already been created (Step 2 below). Next is step 3, Create a Service Bus queue.

Note:

Steps:

Step 1: # Create a resource group

```
resourceGroupName="myResourceGroup"
```

```
az group create --name $resourceGroupName --location eastus
```

Step 2: # Create a Service Bus messaging namespace with a unique name namespaceName=myNameSpace\$RANDOM az servicebus namespace create --resource-group \$resourceGroupName --name \$namespaceName --location eastus

Step 3: # Create a Service Bus queue

```
az servicebus queue create --resource-group $resourceGroupName --namespace-name $namespaceName --name BasicQueue
```

Step 4: # Get the connection string for the namespace

```
connectionString=$(az servicebus namespace authorization-rule keys list --resource-group $resourceGroupName --namespace-name  
$namespaceName --name
```

```
RootManageSharedAccessKey --query primaryConnectionString --output tsv)
```

Reference:

<https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-quickstart-cli>

by  panbhatt at March 19, 2021, 3:37 a.m.

EXAM AZ-204 TOPIC 6 QUESTION 40 DISCUSSION

A company is developing a solution that allows smart refrigerators to send temperature information to a central location.

The solution must receive and store messages until they can be processed. You create an Azure Service Bus instance by providing a name, pricing tier, subscription, resource group, and location.

You need to complete the configuration.

Which Azure CLI or PowerShell command should you run?

- az group create**
- A. `--name fridge-rg
--location fridge-loc`
- New-AzureRmServiceBusNamespace**
- B. `-ResourceGroupName fridge-rg
-NamespaceName fridge-ns
-Location fridge-loc`
- New-AzureRmServiceBusQueue**
- C. `-NamespaceName fridge-ns
-Name fridge-q
-EnablePartitioning $False`
- New-AzureRmResourceGroup**
- D. `-Name fridge-rg
-Location fridge-loc`

Suggested Answer: C

Community vote distribution

C (60%)

B (40%)

by  paunski7 at April 23, 2023, 2:44 p.m.

 EXAM AZ-204 TOPIC 6 QUESTION 41 DISCUSSION

DRAG DROP

You develop and deploy several APIs to Azure API Management.

You create the following policy fragment named APICounts:

```
<fragment>
  <emit-metric value="1" namespace="custom-metrics">
    <dimension name="User ID" />
    <dimension name="Operation ID" />
    <dimension name="API ID" />
    <dimension name="Client IP" value="@{context.RequestIpAddress}" />
  </emit-metric>
</fragment>
```

The policy fragment must be reused across various scopes and APIs. The policy fragment must be applied to all APIs and run when a calling system invokes any API.

You need to implement the policy fragment.

XML elements

Answer Area

```
<policies>
  < [XML] >
    < [XML] [XML] = "APICounts" />
    <base />
  </ [XML] >
  ...
</policies>
```

Answer Area

Suggested Answer:

```
<policies>
  < inbound >
    < include-fragment fragment-id = "APICounts" />
    <base />
  </ inbound >
  ...
</policies>
```

 EXAM AZ-204 TOPIC 6 QUESTION 42 DISCUSSION

HOTSPOT

You are developing a solution that uses several Azure Service Bus queues. You create an Azure Event Grid subscription for the Azure Service Bus namespace. You use Azure Functions as subscribers to process the messages.

You need to emit events to Azure Event Grid from the queues. You must use the principle of least privilege and minimize costs.

Which Azure Service Bus 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	Value
Tier	<input type="checkbox"/> Basic <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Premium
Access control (IAM) level	<input type="checkbox"/> Contributor <input type="checkbox"/> Data Receiver <input type="checkbox"/> Data Sender <input type="checkbox"/> Data Owner

Answer Area

Configuration	Value
Tier	<input type="checkbox"/> Basic <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Premium
Suggested Answer:	<input checked="" type="checkbox"/> Contributor <input type="checkbox"/> Data Receiver <input type="checkbox"/> Data Sender <input type="checkbox"/> Data Owner
Access control (IAM) level	<input checked="" type="checkbox"/> Contributor <input type="checkbox"/> Data Receiver <input type="checkbox"/> Data Sender <input type="checkbox"/> Data Owner

by  halfway at April 19, 2023, 4:08 p.m.

 EXAM AZ-204 TOPIC 6 QUESTION 43 DISCUSSION

You are developing several Azure API Management (APIM) hosted APIs.

The APIs have the following requirements:

- Require a subscription key to access all APIs.
- Include terms of use that subscribers must accept to use the APIs.
- Administrators must review and accept or reject subscription attempts.
- Limit the count of multiple simultaneous subscriptions.

You need to implement the APIs.

What should you do?

- A. Configure and apply header-based versioning.
- B. Create and publish a product.
- C. Configure and apply query string-based versioning.
- D. Add a new revision to all APIs. Make the revisions current and add a change log entry.

Suggested Answer: B

Community vote distribution

B (100%)

by  [junix_](#) at July 10, 2023, 9:45 a.m.

EXAM AZ-204 TOPIC 6 QUESTION 44 DISCUSSION

HOTSPOT

You are developing a solution by using the Azure Event Hubs SDK. You create a standard Azure Event Hub with 16 partitions. You implement eight event processor clients.

You must balance the load dynamically when an event processor client fails. When an event processor client fails, another event processor must continue processing from the exact point at which the failure occurred. All events must be aggregate and upload to an Azure Blob storage account.

You need to implement event processing recovery for the solution.

Which SDK features should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Requirement

Ensure that event process clients mark the position within an event sequence.

Feature

- Offset
- Checkpoint
- Namespace
- Capture

Mark the event processor client position within a partition event sequence.

- Offset
- Checkpoint
- Namespace
- Capture

Answer Area

Requirement

Ensure that event process clients mark the position within an event sequence.

Feature

- Offset
- Checkpoint
- Namespace
- Capture

Suggested Answer:

Mark the event processor client position within a partition event sequence.

- Offset
- Checkpoint
- Namespace
- Capture

 EXAM AZ-204 TOPIC 6 QUESTION 45 DISCUSSION

HOTSPOT

You are developing a new API to be hosted by Azure API Management (APIM). The backend service that implements the API has not been completed. You are creating a test API and operation.

You must enable developers to continue with the implementation and testing of the APIM instance integrations while you complete the backend API development.

You need to configure a test API response.

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

Answer Area

APIM Configuration Setting	APIM Configuration Value
Policy	<input type="checkbox"/> proxy <input type="checkbox"/> set-status <input type="checkbox"/> mock-response <input type="checkbox"/> forward-request
Policy section	<input type="checkbox"/> inbound <input type="checkbox"/> backend <input type="checkbox"/> on-error <input type="checkbox"/> outbound
HTTP response code	<input type="checkbox"/> 200 <input type="checkbox"/> 400 <input type="checkbox"/> 500 <input type="checkbox"/> 501

Answer Area

APIM Configuration Setting	APIM Configuration Value
Policy	<input type="text"/> proxy set-status mock-response forward-request
Suggested Answer: Policy section	<input type="text"/> inbound backend on-error outbound
HTTP response code	<input type="text"/> 200 400 500 501

by  junix_ at July 10, 2023, 9:57 a.m.

EXAM AZ-204 TOPIC 6 QUESTION 46 DISCUSSION

You are developing several Azure API Management (APIM) hosted APIs.

You must inspect request processing of the APIs in APIM. Requests to APIM by using a REST client must also be included. The request inspection must include the following information:

- requests APIM sent to the API backend and the response it received
- policies applied to the response before sending back to the caller
- errors that occurred during the processing of the request and the policies applied to the errors
- original request APIM received from the caller and the policies applied to the request

You need to inspect the APIs.

Which three actions should you do? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Enable the Allow tracing setting for the subscription used to inspect the API.
- B. Add the Ocp-Apim-Trace header value to the API call with a value set to true.
- C. Add the Ocp-Apim-Subscription-Key header value to the key for a subscription that allows access to the API.
- D. Create and configure a custom policy. Apply the policy to the inbound policy section with a global scope.
- E. Create and configure a custom policy. Apply the policy to the outbound policy section with an API scope.

Suggested Answer: ABC

Community vote distribution

ABC (78%)

ACE (17%) 6%

by  [junix_](#) at July 10, 2023, 10:01 a.m.

EXAM AZ-204 TOPIC 6 QUESTION 47 DISCUSSION

A company is developing a solution that allows smart refrigerators to send temperature information to a central location.

The solution must receive and store messages until they can be processed. You create an Azure Service Bus instance by providing a name, pricing tier, subscription, resource group, and location.

You need to complete the configuration.

Which Azure CLI or PowerShell command should you run?

- A.

```
Get-AzureRmServiceBusKey
    -ResourceGroupName fridge-rg
    -Namespace fridge-ns
    -Name RootManageSharedAccessKey
```
- B.

```
New-AzureRmResourceGroup
    -Name fridge-rg
    -Location fridge-loc
```
- C.

```
New-AzureRmServiceBusNamespace
    -ResourceGroupName fridge-rg
    -NamespaceName fridge-ns
    -Location fridge-loc
```
- D.

```
New-AzureRmServiceBusQueue
    -ResourceGroupName fridge-rg
    -NamespaceName fridge-ns
    -Name fridge-q
    -EnablePartitioning $False
```

Suggested Answer: D

Community vote distribution

D (100%)

by  Rodikito at Aug. 21, 2023, 12:09 p.m.

EXAM AZ-204 TOPIC 6 QUESTION 48 DISCUSSION

HOTSPOT

You plan to implement an Azure Functions app.

The Azure Functions app has the following requirements:

- Must be triggered by a message placed in an Azure Storage queue.
- Must use the queue name set by an app setting named input_queue.
- Must create an Azure Blob Storage named the same as the content of the message.

You need to identify how to reference the queue and blob name in the function.json file of the Azure Functions app.

How should you reference the names? To answer, select the appropriate values in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Reference type Value

Queue name	<input type="text"/>
	<input type="text"/> input_queue {input_queue} %input_queue%
Blob name	<input type="text"/> {queueTrigger} {input_queue}/{id} %input_queue%/{filename}

Answer Area

Reference type Value

Queue name	<input type="text"/> input_queue {input_queue} %input_queue%
Suggested Answer:	<input type="text"/> {queueTrigger} {input_queue}/{id} %input_queue%/{filename}

EXAM AZ-204 TOPIC 6 QUESTION 49 DISCUSSION

HOTSPOT

You have an Azure API Management instance named API1 that uses a managed gateway.

You plan to implement a policy that will apply at a product scope and will set the header of inbound requests to include information about the region hosting the gateway of API1. The policy definition contains the following content:

```
<policies>
  <inbound>
    TARGET1
    <set-header name="x-request-context-data" exists-action="override">
      <value>@(TARGET2.Deployment.Region)</value>
    </set-header>
  </inbound>
</policies>
```

You have the following requirements for the policy definition:

- Ensure that the header contains the information about the region hosting the gateway of API1.
- Ensure the policy applies only after any global level policies are processed first.

You need to complete the policy definition.

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

NOTE: Each correct selection is worth one point.

Answer Area

Target	Value
TARGET1	<input type="text"/> <base/> <value>root</value> <wait for="all"></wait>
TARGET2	<input type="text"/> context config policy

Answer Area

Target	Value
TARGET1	<pre><base/> <value>root</value> <wait for="all"></wait></pre>
Suggested Answer: TARGET2	<pre>context config policy</pre>

by  Firo at July 28, 2023, 11:25 p.m.

EXAM AZ-204 TOPIC 6 QUESTION 5 DISCUSSION

HOTSPOT -

You are developing an application that uses Azure Storage Queues.

You have the following code:

```
CloudStorageAccount storageAccount = CloudStorageAccount.Parse  
(CloudConfigurationManager.GetSetting("StorageConnectionString"));  
CloudQueueClient queueClient = storageAccount.CreateCloudQueueClient();  
  
CloudQueue queue = queueClient.GetQueueReference("appqueue");  
await queue.CreateIfNotExistsAsync();  
  
CloudQueueMessage peekedMessage = await queue.PeekMessageAsync();  
if (peekedMessage != null)  
{  
    Console.WriteLine("The peeked message is: {0}", peekedMessageAsString);  
}  
CloudQueueMessage message = await queue.GetMessageAsync();
```

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statement	Yes	No
The code configures the lock duration for the queue.	<input type="radio"/>	<input type="radio"/>
The last message read remains in the queue after the code runs.	<input type="radio"/>	<input type="radio"/>
The storage queue remains in the storage account after the code runs.	<input type="radio"/>	<input type="radio"/>

Suggested Answer:

Answer Area

Statement	Yes	No
The code configures the lock duration for the queue.	<input type="radio"/>	<input checked="" type="radio"/>
The last message read remains in the queue after the code runs.	<input checked="" type="radio"/>	<input type="radio"/>
The storage queue remains in the storage account after the code runs.	<input checked="" type="radio"/>	<input type="radio"/>

Box 1: No -

The QueueDescription.LockDuration property gets or sets the duration of a peek lock; that is, the amount of time that the message is locked for other receivers.

The maximum value for LockDuration is 5 minutes; the default value is 1 minute.

Box 2: Yes -

You can peek at the message in the front of a queue without removing it from the queue by calling the PeekMessage method.

Box 3: Yes -

Reference:

<https://docs.microsoft.com/en-us/azure/storage/queues/storage-dotnet-how-to-use-queues> <https://docs.microsoft.com/en-us/dotnet/api/microsoft.servicebus.messaging.queuedescription.lockduration>

by  JVTM at Nov. 9, 2020, 2:38 p.m.

EXAM AZ-204 TOPIC 6 QUESTION 50 DISCUSSION

You are developing several Azure API Management (APIM) hosted APIs.

You must make several minor and non-breaking changes to one of the APIs. The API changes include the following requirements:

- Must not disrupt callers of the API.
- Enable roll back if you find issues.
- Documented to enable developers to understand what is new.
- Tested before publishing.

You need to update the API.

What should you do?

- A. Configure and apply header-based versioning.
- B. Create and publish a product.
- C. Configure and apply a custom policy.
- D. Add a new revision to the API.
- E. Configure and apply query string-based versioning.

Suggested Answer: D

Community vote distribution

D (100%)

by  [Firo](#) at July 28, 2023, 11:31 p.m.

EXAM AZ-204 TOPIC 6 QUESTION 51 DISCUSSION

HOTSPOT

You are developing an application to store millions of images in Azure blob storage.

The application has the following requirements:

- Store the Exif (exchangeable image file format) data from the image as blob metadata when the application uploads the image.
- Retrieve the Exif data from the image while minimizing bandwidth and processing time.
- Utilizes the REST API.

You need to use the image Exif data as blob metadata in the application.

Which HTTP verbs should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Application Metadata Action HTTP Verb

Store Exif data.

GET
PUT
POST
HEAD

Retrieve Exif data.

PUT
POST
HEAD
CONNECT

Answer Area

Application Metadata Action HTTP Verb

Store Exif data.

GET
PUT
POST
HEAD

Suggested Answer:

Retrieve Exif data.

PUT
POST
HEAD
CONNECT

 EXAM AZ-204 TOPIC 6 QUESTION 52 DISCUSSION

You are developing several microservices to run on Azure Container Apps for a company. External TCP ingress traffic from the internet has been enabled for the microservices.

The company requires that the microservices must scale based on an Azure Event Hub trigger.

You need to scale the microservices by using a custom scaling rule.

Which two Kubernetes Event-driven Autoscaling (KEDA) trigger fields should you use? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. metadata
- B. type
- C. authenticationRef
- D. name
- E. metricType

Suggested Answer: AB

Community vote distribution

AB (100%)

by  applepie at July 29, 2023, 10:31 p.m.

EXAM AZ-204 TOPIC 6 QUESTION 53 DISCUSSION

A company is developing a solution that allows smart refrigerators to send temperature information to a central location.

The solution must receive and store messages until they can be processed. You create an Azure Service Bus instance by providing a name, pricing tier, subscription, resource group, and location.

You need to complete the configuration.

Which Azure CLI or PowerShell command should you run?

- New-AzureRmResourceGroup**
- A. `-Name fridge-rg
-Location fridge-loc`
- B. `az servicebus queue create
--resource-group fridge-rg
--namespace-name fridge-ns
--name fridge-q`
- C.
- `connectionString=$(az servicebus namespace authorization-rule keys list
--resource-group fridge-rg
--namespace-name fridge-ns
--name RootManageSharedAccessKey
--query primaryConnectionString --output tsv)`
- D. `New-AzureRmServiceBusNamespace
-ResourceGroupName fridge-rg
-NamespaceName fridge-ns
-Location fridge-loc`

Suggested Answer: B

Community vote distribution

B (100%)

by  Ciupaz at Nov. 11, 2023, 1:04 p.m.

 EXAM AZ-204 TOPIC 6 QUESTION 54 DISCUSSION

A company is developing a solution that allows smart refrigerators to send temperature information to a central location.

The solution must receive and store messages until they can be processed. You create an Azure Service Bus instance by providing a name, pricing tier, subscription, resource group, and location.

You need to complete the configuration.

Which Azure CLI or PowerShell command should you run?

- A.

```
az servicebus queue create
--resource-group fridge-rg
--namespace-name fridge-ns
--name fridge-q
```
- B.

```
New-AzureRmServiceBusNamespace
-ResourceGroupName fridge-rg
-NamespaceName fridge-ns
-Location fridge-loc
```
- C.

```
az servicebus namespace create
--resource-group fridge-rg
--name fridge-ns
--location fridge-loc
```
- D.

```
az group create
--name fridge-rg
--location fridge-loc
```

Suggested Answer: A

Community vote distribution

A (94%)	6%
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by  Ciupaz at Nov. 3, 2023, 10:10 a.m.

EXAM AZ-204 TOPIC 6 QUESTION 55 DISCUSSION

A company is developing a solution that allows smart refrigerators to send temperature information to a central location.

The solution must receive and store messages until they can be processed. You create an Azure Service Bus instance by providing a name, pricing tier, subscription, resource group, and location.

You need to complete the configuration.

Which Azure CLI or PowerShell command should you run?

A.

```
az group create  
  --name fridge-rg  
  --location fridge-loc
```

B.

```
az servicebus queue create  
  --resource-group fridge-rg  
  --namespace-name fridge-ns  
  --name fridge-q
```

C.

```
connectionString=$(az servicebus namespace authorization-rule keys list  
  --resource-group fridge-rg  
  --namespace-name fridge-ns  
  --name RootManageSharedAccessKey  
  --query primaryConnectionString --output tsv)
```

D.

```
az servicebus namespace create  
  --resource-group fridge-rg  
  --name fridge-ns  
  --location fridge-loc
```

Suggested Answer: B

Community vote distribution

B (100%)

by  kotireddy4120 at Nov. 27, 2023, 1:48 p.m.

EXAM AZ-204 TOPIC 6 QUESTION 56 DISCUSSION

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 are implementing an application by using Azure Event Grid to push near-real-time information to customers.

You have the following requirements:

- You must send events to thousands of customers that include hundreds of various event types.
- The events must be filtered by event type before processing.
- Authentication and authorization must be handled by using Microsoft Entra ID.
- The events must be published to a single endpoint.

You need to implement Azure Event Grid.

Solution: Publish events to an event domain. Create a custom topic for each customer.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: A

Community vote distribution

A (65%)

B (35%)

by  RDTAus at Jan. 6, 2024, 11:38 p.m.

EXAM AZ-204 TOPIC 6 QUESTION 57 DISCUSSION

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 are implementing an application by using Azure Event Grid to push near-real-time information to customers.

You have the following requirements:

- You must send events to thousands of customers that include hundreds of various event types.
- The events must be filtered by event type before processing.
- Authentication and authorization must be handled by using Microsoft Entra ID.
- The events must be published to a single endpoint.

You need to implement Azure Event Grid.

Solution: Publish events to a custom topic. Create an event subscription for each customer.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (64%)

A (36%)

by  vpsrini1981 at Jan. 8, 2024, 12:39 a.m.

EXAM AZ-204 TOPIC 6 QUESTION 58 DISCUSSION

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 are implementing an application by using Azure Event Grid to push near-real-time information to customers.

You have the following requirements:

- You must send events to thousands of customers that include hundreds of various event types.
- The events must be filtered by event type before processing.
- Authentication and authorization must be handled by using Microsoft Entra ID.
- The events must be published to a single endpoint.

You need to implement Azure Event Grid.

Solution: Enable ingress, create a TCP scale rule, and apply the rule to the container app.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  dom271219 at Jan. 11, 2024, 7:31 p.m.

EXAM AZ-204 TOPIC 6 QUESTION 59 DISCUSSION

HOTSPOT

Case study

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. When you are ready to answer a question, click the Question button to return to the question.

Background

Munson's Pickles and Preserves Farm is an agricultural cooperative corporation based in Washington, US, with farms located across the United States. The company supports agricultural production resources by distributing seeds fertilizers, chemicals, fuel, and farm machinery to the farms.

Current Environment

The company is migrating all applications from an on-premises datacenter to Microsoft Azure. Applications support distributors, farmers, and internal company staff.

Corporate website

- The company hosts a public website located at <http://www.munsonspicklesandpreservesfarm.com>. The site supports farmers and distributors who request agricultural production resources.

Farms

- The company created a new customer tenant in the Microsoft Entra admin center to support authentication and authorization for applications.

Distributors

- Distributors integrate their applications with data that is accessible by using APIs hosted at <http://www.munsonspicklesandpreservesfarm.com/api> to receive and update resource data.

Requirements

The application components must meet the following requirements:

Corporate website

- The site must be migrated to Azure App Service.
- Costs must be minimized when hosting in Azure.
- Applications must automatically scale independent of the compute resources.
- All code changes must be validated by internal staff before release to production.
- File transfer speeds must improve, and webpage-load performance must increase.
- All site settings must be centrally stored, secured without using secrets, and encrypted at rest and in transit.
- A queue-based load leveling pattern must be implemented by using Azure Service Bus queues to support high volumes of website agricultural production resource requests.

Farms

- Farmers must authenticate to applications by using Microsoft Entra ID.

Distributors

- The company must track a custom telemetry value with each API call and monitor performance of all APIs.
- API telemetry values must be charted to evaluate variations and trends for resource data.

Internal staff

- App and API updates must be validated before release to production.
- Staff must be able to select a link to direct them back to the production app when validating an app or API update.
- Staff profile photos and email must be displayed on the website once they authenticate to applications by using their Microsoft Entra ID.

Security

- All web communications must be secured by using TLS/HTTPS.
- Web content must be restricted by country/region to support corporate compliance standards.
- The principle of least privilege must be applied when providing any user rights or process access rights.
- Managed identities for Azure resources must be used to authenticate services that support Microsoft Entra ID authentication.

Issues

Corporate website

- Farmers report HTTP 503 errors at the same time as internal staff report that CPU and memory usage are high.

- Distributors report HTTP 502 errors at the same time as internal staff report that average response times and networking traffic are high.
- Internal staff report webpage load sizes are large and take a long time to load.
- Developers receive authentication errors to Service Bus when they debug locally.

Distributors

- Many API telemetry values are sent in a short period of time. Telemetry traffic, data costs, and storage costs must be reduced while preserving a statistically correct analysis of the data points sent by the APIs.

You need to provide internal staff access to the production site after a validation.

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

NOTE: Each correct selection is worth one point.

Answer Area

```
<a href="https://www.munsonspicklesandpreservesfarm.com/?"  
">Go back to production app</a>
```

X-ms-app	=	self
X-ms-user	=	staging
X-ms-routing-name	=	production
X-ms-client-request-id		

Answer Area

Suggested Answer: <a href="https://www.munsonspicklesandpreservesfarm.com/?"
">Go back to production app

X-ms-app	=	self
X-ms-user	=	staging
X-ms-routing-name	=	production
X-ms-client-request-id		

by  Jedi at Jan. 7, 2024, 10:32 p.m.

EXAM AZ-204 TOPIC 6 QUESTION 6 DISCUSSION

A company is developing a solution that allows smart refrigerators to send temperature information to a central location. The solution must receive and store messages until they can be processed. You create an Azure Service Bus instance by providing a name, pricing tier, subscription, resource group, and location.

You need to complete the configuration.

Which Azure CLI or PowerShell command should you run?

A.

```
az group create  
  --name fridge-rg  
  --location fridge-loc
```

B.

```
New-AzureRmServiceBusNamespace  
  -ResourceGroupName fridge-rg  
  -NamespaceName fridge-ns  
  -Location fridge-loc
```

C.

```
New-AzureRmServiceBusQueue  
  -ResourceGroupName fridge-rg  
  -NamespaceName fridge-ns  
  -Name fridge-q  
  -EnablePartitioning $False
```

D.

```
az servicebus namespace create  
  --resource-group fridge-rg  
  --name fridge-rg  
  --location fridge-loc
```

Suggested Answer: C

A service bus instance has already been created (Step 2 below). Next is step 3, Create a Service Bus queue.

Note:

Steps:

Step 1: # Create a resource group

```
resourceGroupName="myResourceGroup"
```

```
az group create --name $resourceGroupName --location eastus
```

Step 2: # Create a Service Bus messaging namespace with a unique name namespaceName=myNameSpace\$RANDOM az servicebus namespace create --resource-group \$resourceGroupName --name \$namespaceName --location eastus

Step 3: # Create a Service Bus queue

```
az servicebus queue create --resource-group $resourceGroupName --namespace-name $namespaceName --name BasicQueue
```

Step 4: # Get the connection string for the namespace

```
connectionString=$(az servicebus namespace authorization-rule keys list --resource-group $resourceGroupName --namespace-name  
$namespaceName --name
```

```
RootManageSharedAccessKey --query primaryConnectionString --output tsv)
```

Reference:

<https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-quickstart-cli>

by  [jokergester](#) at April 3, 2021, 7:34 a.m.

EXAM AZ-204 TOPIC 6 QUESTION 60 DISCUSSION

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 are implementing an application by using Azure Event Grid to push near-real-time information to customers.

You have the following requirements:

- You must send events to thousands of customers that include hundreds of various event types.
- The events must be filtered by event type before processing.
- Authentication and authorization must be handled by using Microsoft Entra ID.
- The events must be published to a single endpoint.

You need to implement Azure Event Grid.

Solution: Publish events to a partner topic. Create an event subscription for each customer.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (82%)

A (18%)

by  Ciupaz at Jan. 6, 2024, 5:06 p.m.

EXAM AZ-204 TOPIC 6 QUESTION 61 DISCUSSION

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 are implementing an application by using Azure Event Grid to push near-real-time information to customers.

You have the following requirements:

- You must send events to thousands of customers that include hundreds of various event types.
- The events must be filtered by event type before processing.
- Authentication and authorization must be handled by using Microsoft Entra ID.
- The events must be published to a single endpoint.

You need to implement Azure Event Grid.

Solution: Publish events to a system topic. Create an event subscription for each customer.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  dom271219 at Jan. 11, 2024, 7:36 p.m.

EXAM AZ-204 TOPIC 6 QUESTION 62 DISCUSSION

Case study -

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study -

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. When you are ready to answer a question, click the Question button to return to the question.

Background -

Fourth Coffee is a global coffeehouse chain and coffee company recognized as one of the world's most influential coffee brands. The company is renowned for its specialty coffee beverages, including a wide range of espresso-based drinks, teas, and other beverages. Fourth Coffee operates thousands of stores worldwide.

Current environment -

The company is developing cloud-native applications hosted in Azure.

Corporate website -

The company hosts a public website located at <http://www.fourthcoffee.com/>. The website is used to place orders as well as view and update inventory items.

Inventory items -

In addition to its core coffee offerings, Fourth Coffee recently expanded its menu to include inventory items such as lunch items, snacks, and merchandise. Corporate team members constantly update inventory. Users can customize items. Corporate team members configure inventory items and associated images on the website.

Orders -

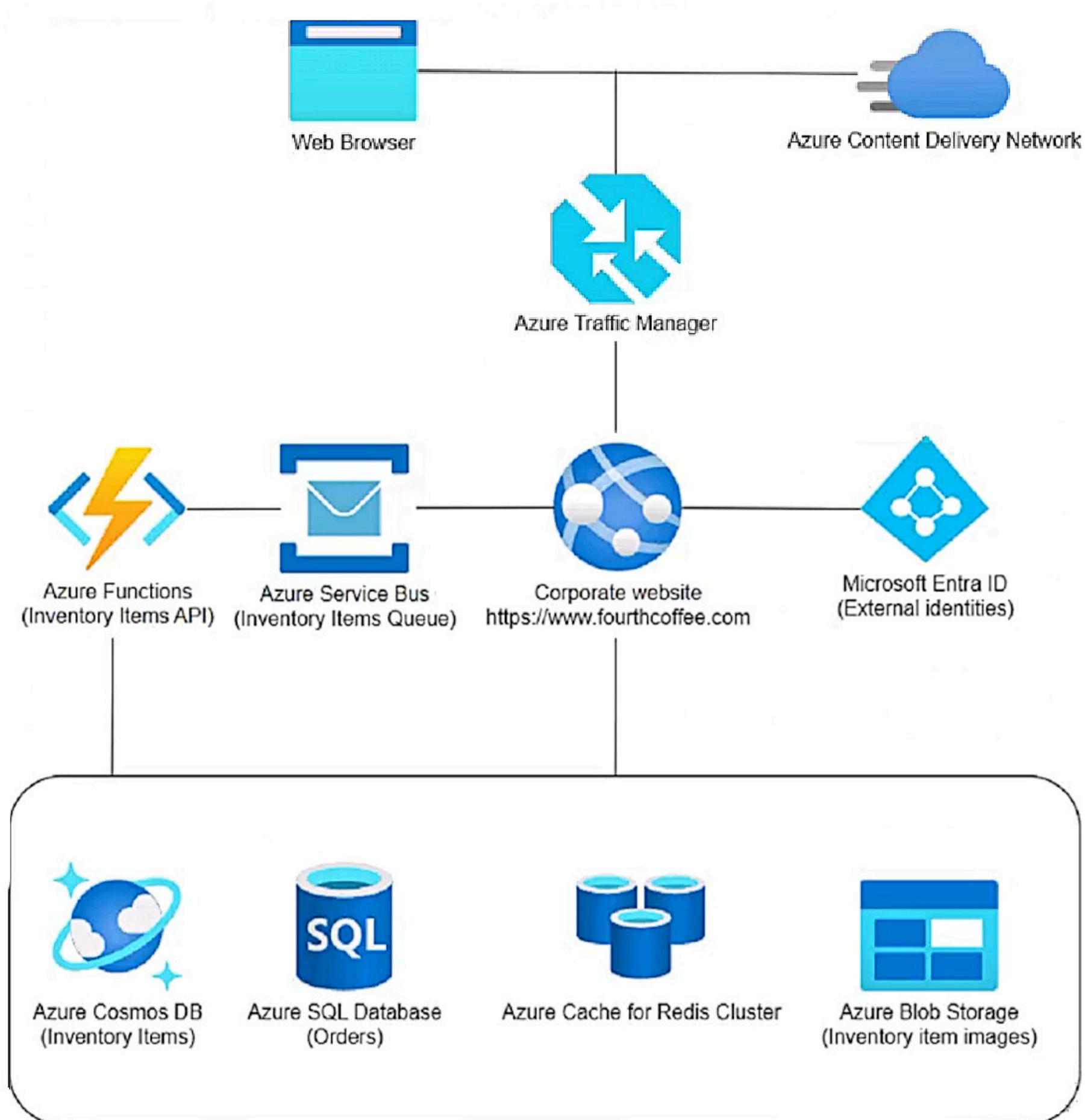
Associates in the store serve customized beverages and items to customers. Orders are placed on the website for pickup.

The application components process data as follows:

1. Azure Traffic Manager routes a user order request to the corporate website hosted in Azure App Service.
2. Azure Content Delivery Network serves static images and content to the user.
3. The user signs in to the application through a Microsoft Entra ID for customers tenant.
4. Users search for items and place an order on the website as item images are pulled from Azure Blob Storage.

5. Item customizations are placed in an Azure Service Bus queue message.
6. Azure Functions processes item customizations and saves the customized items to Azure Cosmos DB.
7. The website saves order details to Azure SQL Database.
8. SQL Database query results are cached in Azure Cache for Redis to improve performance.

The application consists of the following Azure services:



Requirements -

The application components must meet the following requirements:

- Azure Cosmos DB development must use a native API that receives the latest updates and stores data in a document format.
- Costs must be minimized for all Azure services.
- Developers must test Azure Blob Storage integrations locally before deployment to Azure. Testing must support the latest versions of the Azure Storage APIs.

Corporate website -

- User authentication and authorization must allow one-time passcode sign-in methods and social identity providers (Google or Facebook).

- Static web content must be stored closest to end users to reduce network latency.

Inventory items -

- Customized items read from Azure Cosmos DB must maximize throughput while ensuring data is accurate for the current user on the website.
- Processing of inventory item updates must automatically scale and enable updates across an entire Azure Cosmos DB container.
- Inventory items must be processed in the order they were placed in the queue.
- Inventory item images must be stored as JPEG files in their native format to include exchangeable image file format (data) stored with the blob data upon upload of the image file.
- The Inventory Items API must securely access the Azure Cosmos DB data.

Orders -

- Orders must receive inventory item changes automatically after inventory items are updated or saved.

Issues -

- Developers are storing the Azure Cosmos DB credentials in an insecure clear text manner within the Inventory Items API code.
- Production Azure Cache for Redis maintenance has negatively affected application performance.

You need to implement the processing of enqueue inventory items.

Which message value should you use?

- A. Sequence number
- B. Timestamp
- C. Session identifier
- D. Partition key

Suggested Answer: A

Community vote distribution

A (100%)

by  Mattt at Oct. 31, 2024, 2:45 p.m.

 EXAM AZ-204 TOPIC 6 QUESTION 64 DISCUSSION

A large retail company operates online and physical stores. The company tracks inventory levels in real time to manage stock efficiently across all locations. You develop an Azure Event Grid solution to handle events generated by the inventory management system deployed to Azure.

You need to implement a subscription filter that dynamically adjusts to seasonal changes in product demand.

Which event filter should you use?

- A. An advanced filter using a Boolean condition that evaluates multiple data fields, including a season field within the event data
- B. A prefix filter on the event type field that matches the current season's name
- C. A subscription filter that uses label filter to include events tagged with seasonal promotional codes
- D. A static subject filter that targets events with a subject ending in "/seasonal/inventory"

Suggested Answer: A

Community vote distribution

A (100%)

by  ArturoM64 at Dec. 27, 2024, 9:40 a.m.

EXAM AZ-204 TOPIC 6 QUESTION 7 DISCUSSION

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 are developing an Azure Service application that processes queue data when it receives a message from a mobile application. Messages may not be sent to the service consistently.

You have the following requirements:

- Queue size must not grow larger than 80 gigabytes (GB).
- Use first-in-first-out (FIFO) ordering of messages.
- Minimize Azure costs.

You need to implement the messaging solution.

Solution: Use the .Net API to add a message to an Azure Storage Queue from the mobile application. Create an Azure Function App that uses an Azure Storage

Queue trigger.

Does the solution meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  idrisfl at March 23, 2021, 10:03 p.m.

 EXAM AZ-204 TOPIC 6 QUESTION 8 DISCUSSION

DRAG DROP -

You develop software solutions for a mobile delivery service. You are developing a mobile app that users can use to order from a restaurant in their area. The app uses the following workflow:

1. A driver selects the restaurants for which they will deliver orders.
2. Orders are sent to all available drivers in an area.
3. Only orders for the selected restaurants will appear for the driver.
4. The first driver to accept an order removes it from the list of available orders.

You need to implement an Azure Service Bus solution.

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

Create a single Service Bus topic.

Create a Service Bus Namespace for each restaurat for which a driver can receive messages.

Create a single Service Bus subscription.

Create a Service Bus subscription for each restaurant for which a driver can receive orders.

Create s single Service Bus Namespace.

Create a Service Bus topic for each restaurant for which a driver can receive messages.

Answer Area

Suggested Answer:

Actions

Create a single Service Bus topic.

Create a Service Bus Namespace for each restaurat for which a driver can receive messages.

Create a single Service Bus subscription.

Create a Service Bus subscription for each restaurant for which a driver can receive orders.

Create s single Service Bus Namespace.

Create a Service Bus topic for each restaurant for which a driver can receive messages.

Answer Area

Create s single Service Bus Namespace.

Create a Service Bus topic for each restaurant for which a driver can receive messages.

Create a Service Bus subscription for each restaurant for which a driver can receive orders.

Box 1: Create a single Service Bus Namespace

To begin using Service Bus messaging entities in Azure, you must first create a namespace with a name that is unique across Azure. A namespace provides a scoping container for addressing Service Bus resources within your application.

Box 2: Create a Service Bus Topic for each restaurant for which a driver can receive messages.

Create topics.

Box 3: Create a Service Bus subscription for each restaurant for which a driver can receive orders.

Topics can have multiple, independent subscriptions.

Reference:

<https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-messaging-overview>

EXAM AZ-204 TOPIC 6 QUESTION 9 DISCUSSION

HOTSPOT -

You develop a news and blog content app for Windows devices.

A notification must arrive on a user's device when there is a new article available for them to view.

You need to implement push notifications.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
string notificationHubName = "contoso_hub";
string notificationHubConnection = "connection_string";
hub =
NotificationHubClient
NotificationHubClientSettings
NotificationHubJob
NotificationDetails

.
.

GetInstallation
CreateClientFromConnectionString
CreateOrUpdateInstallation
PatchInstallation

(notificationHubConnection, notificationHubName);
string windowsToastPayload =
@"
<toast><visual><binding template=""ToastText01""><text id=""1"">" +
@"New item to view" + @</text></binding></visual></toast>";
try
{
var result =
    await hub.
        (
            windowsToastPayload);
SendWindowsNativeNotificationAsync
SubmitNotificationHubJobAsync
ScheduleNotificationAsync
SendAppleNativeNotificationAsync
...
}
catch (System.Exception ex)
{
    ...
}
...
```

Suggested Answer:

Answer Area

```
string notificationHubName = "contoso_hub";
string notificationHubConnection = "connection_string";
hub =
NotificationHubClient
NotificationHubClientSettings
NotificationHubJob
NotificationDetails

NotificationHubClient
NotificationHubClientSettings
NotificationHubJob
NotificationDetails

(notificationHubConnection, notificationHubName);
string windowsToastPayload =
@"<toast><visual><binding template=""ToastText01""><text id=""1"">" +
@"New item to view" + @"</text></binding></visual></toast>";
try
{
var result =
    await hub.
        SendWindowsNativeNotificationAsync(windowsToastPayload);
        ...
}
catch (System.Exception ex)
{
    ...
}
...
Box 1: NotificationHubClient -
```

Box 2: NotificationHubClient -

Box 3: CreateClientFromConnectionString

// Initialize the Notification Hub

```
NotificationHubClient hub = NotificationHubClient.CreateClientFromConnectionString(listenConnString, hubName);
```

Box 4: SendWindowsNativeNotificationAsync

Send the push notification.

```
var result = await hub.SendWindowsNativeNotificationAsync(windowsToastPayload);
```

Reference:

<https://docs.microsoft.com/en-us/azure/notification-hubs/notification-hubs-push-notification-registration-management>

<https://github.com/MicrosoftDocs/azure-docs/blob/master/articles/app-service-mobile/app-service-mobile-windows-store-dotnet-get-started-push.md>

by  sumitg at April 1, 2021, 8:03 p.m.

EXAM AZ-204 TOPIC 7 QUESTION 1 DISCUSSION

HOTSPOT -

You need to configure Azure CDN for the Shipping web site.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Option

Value

Tier

Standard
Premium

Profile

Akamai
Microsoft

Optimization

general web delivery
large file download
dynamic site acceleration
video-on-demand media streaming

Answer Area

Option

Value

Tier

Standard
Premium

Suggested Answer:

Profile

Akamai
Microsoft

Optimization

general web delivery
large file download
dynamic site acceleration
video-on-demand media streaming

Scenario: Shipping website -

Use Azure Content Delivery Network (CDN) and ensure maximum performance for dynamic content while minimizing latency and costs.

Tier: Standard -

Profile: Akamai -

Optimization: Dynamic site acceleration

Dynamic site acceleration (DSA) is available for Azure CDN Standard from Akamai, Azure CDN Standard from Verizon, and Azure CDN Premium from Verizon profiles.

DSA includes various techniques that benefit the latency and performance of dynamic content. Techniques include route and network optimization, TCP optimization, and more.

You can use this optimization to accelerate a web app that includes numerous responses that aren't cacheable. Examples are search results, checkout transactions, or real-time data. You can continue to use core Azure CDN caching capabilities for static data.

Reference:

<https://docs.microsoft.com/en-us/azure/cdn/cdn-optimization-overview>

by  SoftSol at April 28, 2022, 2:04 p.m.

EXAM AZ-204 TOPIC 7 QUESTION 2 DISCUSSION

HOTSPOT -

You need to correct the VM issues.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Issue	Tool
Backup and Restore	Azure Site Recovery Azure Backup Azure Data Box Azure Migrate
Performance	Azure Network Watcher Azure Traffic Manager ExpressRoute Accelerated Networking

Answer Area

Issue	Tool
Backup and Restore	Azure Site Recovery Azure Backup Azure Data Box Azure Migrate
Performance	Azure Network Watcher Azure Traffic Manager ExpressRoute Accelerated Networking

Box 1: Azure Backup -

The VM is critical and has not been backed up in the past. The VM must enable a quick restore from a 7-day snapshot to include in-place restore of disks in case of failure.

In-Place restore of disks in IaaS VMs is a feature of Azure Backup.

Performance: Accelerated Networking

Scenario: The VM shows high network latency, jitter, and high CPU utilization.

Box 2: Accelerated networking -

The VM shows high network latency, jitter, and high CPU utilization.

Accelerated networking enables single root I/O virtualization (SR-IOV) to a VM, greatly improving its networking performance. This high-performance path bypasses the host from the datapath, reducing latency, jitter, and CPU utilization, for use with the most demanding network workloads on supported VM types.

Reference:

<https://azure.microsoft.com/en-us/blog/an-easy-way-to-bring-back-your-azure-vm-with-in-place-restore/>

by  sghaha at April 29, 2022, 8:05 a.m.

EXAM AZ-204 TOPIC 8 QUESTION 1 DISCUSSION

DRAG DROP -

You need to add code at line PC32 in Processing.cs to implement the GetCredentials method in the Processing class.

How should you complete the code? To answer, drag the appropriate code segments to the correct locations. Each code segment 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:

Code segments

```
MSITokenProvider("...", null)  
tp.GetAccessTokenAsync("...")  
AzureServiceTokenProvider()  
StringTokenProvider("storage", "msi")  
tp.GetAuthenticationHeaderAsync(CancellationToken.None)
```

Answer Area

```
var tp = new _____ code segment  
var t = new TokenCredential(await _____ code segment  
return new StorageCredentials(t);
```

Suggested Answer:

Code segments

```
MSITokenProvider("...", null)  
_____  
_____  
StringTokenProvider("storage", "msi")  
tp.GetAuthenticationHeaderAsync(CancellationToken.None)
```

Answer Area

```
var tp = new AzureServiceTokenProvider()  
var t = new TokenCredential(await tp.GetAccessTokenAsync("..."))  
return new StorageCredentials(t);
```

Box 1: AzureServiceTokenProvider()

Box 2: tp.GetAccessTokenAsync("...")

Acquiring an access token is then quite easy. Example code:

```
private async Task<string> GetAccessTokenAsync()  
{  
    var tokenProvider = new AzureServiceTokenProvider();  
    return await tokenProvider.GetAccessTokenAsync("https://storage.azure.com/");  
}
```

Reference:

<https://joonasw.net/view/azure-ad-authentication-with-azure-storage-and-managed-service-identity>

by  rqb11 at April 5, 2021, 5:46 p.m.

EXAM AZ-204 TOPIC 8 QUESTION 2 DISCUSSION

DRAG DROP -

You need to ensure disaster recovery requirements are met.

What code should you add at line PC16?

To answer, drag the appropriate code fragments to the correct locations. Each code fragment 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:

Values
true
SingleTransferContext
ShouldTransferCallbackAsync
false
DirectoryTransferContext
ShouldOverwriteCallbackAsync

Answer Area

```
var copyOptions = new CopyOptions { };
var context = new Value = (source, destination) => Task.FromResult(true);
context. Value = (source, destination) => Task.FromResult(true);
await TransferManager.CopyAsync(blob, GetDRBlob(blob), isServiceCopy: Value,
, context: context, options:copyOptions);
```

Suggested Answer:

Values
true
SingleTransferContext
ShouldOverwriteCallbackAsync

Answer Area

```
var copyOptions = new CopyOptions { };
var context = new DirectoryTransferContext = (source, destination) => Task.FromResult(true);
context. ShouldTransferCallbackAsync = (source, destination) => Task.FromResult(true);
await TransferManager.CopyAsync(blob, GetDRBlob(blob), isServiceCopy: false,
, context: context, options:copyOptions);
```

Scenario: Disaster recovery. Regional outage must not impact application availability. All DR operations must not be dependent on application running and must ensure that data in the DR region is up to date.

Box 1: DirectoryTransferContext -

We transfer all files in the directory.

Note: The TransferContext object comes in two forms: SingleTransferContext and DirectoryTransferContext. The former is for transferring a single file and the latter is for transferring a directory of files.

Box 2: ShouldTransferCallbackAsync

The DirectoryTransferContext.ShouldTransferCallbackAsync delegate callback is invoked to tell whether a transfer should be done.

Box 3: False -

If you want to use the retry policy in Copy, and want the copy can be resume if break in the middle, you can use SyncCopy (isServiceCopy = false).

Note that if you choose to use service side copy ('isServiceCopy' set to true), Azure (currently) doesn't provide SLA for that. Setting 'isServiceCopy' to false will download the source blob loca

Reference:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-use-data-movement-library> <https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.datamovement.directorytransfercontext.shouldtransfercallbackasync?view=azure-dotnet>

EXAM AZ-204 TOPIC 9 QUESTION 1 DISCUSSION

HOTSPOT -

You need to configure Azure Cosmos DB.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Setting	Value
---------	-------

Consistency Level

Strong
Bounded-staleness
Session
Eventual

API

SQL
MongoDB
Graph
Table

Answer Area

Setting	Value
---------	-------

Consistency Level

Strong
Bounded-staleness
Session
Eventual

Suggested Answer:

API

SQL
MongoDB
Graph
Table

Box 1: Strong -

When the consistency level is set to strong, the staleness window is equivalent to zero, and the clients are guaranteed to read the latest committed value of the write operation.

Scenario: Changes to the Order data must reflect immediately across all partitions. All reads to the Order data must fetch the most recent writes.

Note: You can choose from five well-defined models on the consistency spectrum. From strongest to weakest, the models are: Strong, Bounded staleness,

Session, Consistent prefix, Eventual

Box 2: SQL -

Scenario: You identify the following requirements for data management and manipulation:

Order data is stored as nonrelational JSON and must be queried using Structured Query Language (SQL).

by  noip at Aug. 6, 2021, 9:09 a.m.

EXAM AZ-204 TOPIC 9 QUESTION 2 DISCUSSION

HOTSPOT -

You need to retrieve all order line items from Order.json and sort the data alphabetically by the city.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
SELECT li.id AS lineitemid, li.price
FROM
    Orders o
    Lineltems li
JOIN
    li
    IN
        o.line_items
        li.line_items
        o.address
ORDER BY
    o.address.city
    li.address.city
    o.city
    li.city
    ASC
```

Answer Area

```
SELECT li.id AS lineitemid, li.price
FROM
    Orders o
    Lineltems li
JOIN
    li
    IN
        o.line_items
        li.line_items
        o.address
ORDER BY
    o.address.city
    li.address.city
    o.city
    li.city
    ASC
```

Suggested Answer:

Box 1: orders o -

Scenario: Order data is stored as nonrelational JSON and must be queried using SQL.

Box 2:li -

Box 3: o.line_items -

Box 4: o.city -

The city field is in Order, not in the 2s.

