

Q1) Tags can be applied to any type of resource on Azure

- ☒ Incorrect
- ☐ Correct

Q2) Which App Service plan does NOT support custom DNS?

- ☐ D1
- ☐ B1
- ☒ F1

Explanation:-Custom DNS is supported only on the non-free tiers. F1 is a free tier.

- ☐ B3

Q3) What two types of logging are supported for both Windows and Linux Azure App Service apps?

- ☒ Application logging

Explanation:-Currently only application logging and deployment logging are supported by both Windows and Linux Azure App Service apps. You can review the following table to see the other types of supported logging in Azure App Service:

- ☐ Failed request tracing
- ☐ Web server logging
- ☒ Deployment logging

Explanation:-Currently only application logging and deployment logging are supported by both Windows and Linux Azure App Service apps. You can review the following table to see the other types of supported logging in Azure App Service:

Q4) Correct or Incorrect: The Azure CLI can be installed on Linux, macOS, and Windows, and the CLI commands you use are the same in all platforms.

- ☐ Incorrect
- ☒ Correct

Q5) Which parameter can you add to most CLI commands to get concise, formatted output?

- ☐ group
- ☒ table
- ☐ list

Q6) Correct or Incorrect: The Azure portal, the Azure CLI, and Azure PowerShell offer significantly different services, so it is unlikely that all three will support the operation you need.

- ☒ Incorrect
- ☐ Correct

Q7)

Suppose you are building a video-editing application that will offer online storage for user-generated video content.

You will store the videos in Azure Blobs, so you need to create an Azure storage account to contain the blobs. Once the storage account is in place, it is unlikely you would remove and recreate it because this would delete all the user videos.

Which tool is likely to offer the quickest and easiest way to create the storage account?

- ☐ Azure PowerShell
- ☐ Azure CLI
- ☒ Azure portal

Q8) What needs to be installed on your machine to let you execute Azure PowerShell cmdlets locally?

- ☐ The Azure CLI and Azure PowerShell
- ☒ The base PowerShell product and the Az module
- ☐ The Azure cloud shell

Q9) Which one of the following systems is used to determine Azure costs for each billing period?

- ☐ The Azure pricing calculator
- ☐ Number of created virtual machines
- ☐ The Azure website
- ☒ Usage meters

Q10) Which of the following factors affects costs?

- ☒ Location
- ☐ Global infrastructure

- Availability zone

Q11) Which method is used to calculate the correlation on all features in a Pandas DataFrame?

- df.correlation()
- correlation(df)
- ✓ df.corr()

Q12) Which notebook format is used in Azure Databricks?

- .spark
- .notebook
- ✓ DBC

Explanation:-

Azure Databricks supports several notebook external formats:

Source file: A file containing only source code statements with the extension .scala, .py, .sql, or .r.

HTML: An Azure Databricks notebook with the extension .html.

DBC archive: A Databricks archive.

IPython notebook: A Jupyter notebook with the extension .ipynb.

RMarkdown: An R Markdown document with the extension .Rmd.

Refer: <https://docs.microsoft.com/en-us/azure/databricks/notebooks/notebooks-manage>

Q13) Tags applied at a resource group level are propagated to resources within the resource group.

- ✓ Incorrect
- Correct

Q14) Which of the following is not a feature of resource groups?

- ✓ Resource groups can be nested.
- Resources can be moved from one resource group to another resource group.
- Resources can be in only one resource group.
- Role-based access control can be applied to the resource group.

Q15) A development team needs to develop an application module that needs to interact with an Azure service bus queue. Below is the snippet of code that needs to be completed. The code is used to send a message to the queue. Which of the following needs to go into Slot1?

- ServiceBusClient
- Client
- ✓ QueueClient

Explanation:- Since we need to interact with a queue, we have to use the "QueueClient" class.

An example of this is given in the Microsoft documentation.

Since this is clearly given in the documentation, all other options are incorrect.

For more information on working with queues in .Net, one can go to the below URL:

<https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-dotnet-get-started-with-queues>

- BusClient

Q16) A development team needs to develop an application module that needs to interact with an Azure service bus queue. Below is the snippet of code that needs to be completed. The code is used to send a message to the queue. Which of the following needs to go into Slot2?

- SendMessage
- Send
- ✓ SendAsync

Explanation:- To send a message asynchronously, we have to use the "SendAsync" method.

An example of this is given in the Microsoft documentation.

Since this is clearly given in the documentation, all other options are incorrect.

For more information on working with queues in .Net, one can go to the below URL:

<https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-dotnet-get-started-with-queues>

- GetAsync

Q17) You've setup an Azure storage account and an Azure Content Delivery Network profile. You set an endpoint to a container in the storage account. You have to set the cache control specially for a Blob in the storage account. You have to complete the below general .Net code for accomplishing this. Which of the following would go into Slot1?

- CloudBlob
- CloudBlobContainer
- ✓ CloudBlobClient

Explanation:- You first need to create a blob client for interacting with the blob service.

An example of this is given in the Microsoft documentation.

Since this is clearly given in the Microsoft documentation, all other options are incorrect.

For more information on working with Azure Blob storage and CDN, one can go to the below URL:

<https://docs.microsoft.com/en-us/azure/cdn/cdn-manage-expiration-of-blob-content>

- SetProperties

Q18)

A team is providing access to a “headless” Azure Container Registry service and application.

Which of the following should the team configure to provide role-based access control?

- Azure image identity
- Reader
- Managed identity
- ✓ Service principal

Explanation:-In a production scenario where you provide access to headless services and applications, it's recommended to configure registry access by using a service principal. A service principal allows you to provide role-based access control to your container images. For example, you can configure a service principal with pull-only access to a registry.

Q19) Can you use SSH to connect to an Azure web app on a Linux app container from your local development environment?

- No. You can only use SSH into an app container from the source control management (SCM) site.
- ✓ Yes. You can connect to the app container directly from your local development machine by using SSH, SFTP, or Visual Studio Code (for live debugging Node.js apps).

Explanation:-You can connect to an Azure Web App container directly from your local development machine by using SSH, SFTP, or Visual Studio Code (for live debugging Node.js apps).

- No. SSH is not currently supported for App Service on Linux.
- No. Linux is not supported on Azure App Service.

Q20)

A team is deploying an app to Azure App Service and needs to configure the deployment user.

Which Azure CLI command should the team run to accomplish this?

- ✓ az webapp deploy user set

Explanation:-To configure the deployment user in the Cloud Shell, run the az webapp deployment user set command along with a deployment user username and password:

az webapp deployment user set --user-name --password

The username must be unique within Azure, and for local Git pushes, it must not contain the @ symbol. In addition, the password must be at least eight characters long, with two of the following three elements: letters, numbers, and symbols.

- az deploy user set
- az webapp user set
- az user set

Q21) To build a Docker image, what command should a developer run?

- docker images
- docker create
- ✓ docker build

Explanation:-The docker build command builds a Docker image from a Dockerfile and context. The context is a set of files located at a specific path or URL. Here is an example of the docker build command:

docker build https://github.com/docker/rootfs.git#container:docker

- docker run

Q22) To restore a deleted Azure App Service app, which PowerShell command should a developer run to restore the deleted app?

- Restore-AzWebDeletedApp
- Restore-AzDeletedApp
- Restore-AzWebApp
- ✓ Restore-AzDeletedWebApp

Explanation:-In order to restore a deleted Azure App Service app, the developer would run the Restore-AzDeletedWebApp command:

Restore-AzDeletedWebApp -ResourceGroupName -Name -TargetAppServicePlanName

The inputs for command are as follows:

- ResourceGroup: The target resource group where the app will be restored
- Name: The name for the app, which should be globally unique
- TargetAppServicePlanName: The App Service plan linked to the app

By default, Restore-AzDeletedWebApp restores both your app configuration and any content. If you want to restore only content, you use the -RestoreContentOnly flag with this cmdlet.

Q23) A developer is configuring autoscale for Azure Web App, as shown in the following screen. In addition to scale based on CPU, what are two other scaling options?

- ✓ Schedule condition

Explanation:-In addition to scaling based on CPU, Azure Web Apps can be autoscaled based on a schedule or specific days of the week, as shown in the screens below. Note that the same functionality is applicable for virtual machine scale sets.

- Memory usage
- Disk I/O
- ✓ Specific dates

Explanation:-In addition to scaling based on CPU, Azure Web Apps can be autoscaled based on a schedule or specific days of the week, as shown in the screens below. Note that the same functionality is applicable for virtual machine scale sets.

Q24) Which of the following is an example of an Azure Functions trigger?

- ☐ Queue
- ☐ Timer
- ☐ Event Grid
- ☒ HTTP

Explanation:-The HTTP trigger lets you invoke a function with an HTTP request. You can use an HTTP trigger to build serverless APIs and respond to webhooks. The following are the default return values for HTTP triggers:

- HTTP 204 No Content with an empty body in Functions 2.x and higher
- HTTP 200 OK with an empty body in Functions 1.x

Q25) Which of the following are NOT consistency levels in Azure Cosmos DB?

- ☒ Archive

Explanation:-With Azure Cosmos DB, developers can choose from five well-defined consistency levels:

- Strong
- Bounded staleness
- Session
- Consistent prefix
- Eventual
- ☒ Warm

Explanation:-With Azure Cosmos DB, developers can choose from five well-defined consistency levels:

- Strong
- Bounded staleness
- Session
- Consistent prefix
- Eventual
- ☐ Strong
- ☐ Eventual

Q26)

A team is configuring an Azure container registry. The team's requirements call for building, tagging, and pushing one or more container images, in series or in parallel.

Which Azure Container Registry task type would be the best for this?

- ☒ Multi-step task

Explanation:-Multi-step tasks provide step-based task definition and execution for building, testing, and patching container images in the cloud.

Task steps defined in a YAML file specify individual build and push operations for container images or other artifacts. They can also define the execution of one or more containers, with each step using the container as its execution environment.

For example, you can create a multi-step task that automates the following:

1. Build a web application image.
2. Run the web application container.
3. Build a web application test image.
4. Run the web application test container, which performs tests against the running application container.
5. If the tests pass, build a Helm chart archive package.
6. Perform a Helm upgrade using the new Helm chart archive package.

Multi-step tasks enable you to split the building, running, and testing of an image into more composable steps, with inter-step dependency support. With multi-step tasks in ACR Tasks, you have more granular control over image building and testing, as well as OS and framework patching workflows.

- ☐ Multi-task deployment
- ☐ QuickTask
- ☐ Single-step task

Q27)

A team is experiencing issues with its Azure App Service web app. The app temporarily stops running and occasionally fails to write to the logs.

Which of the following are possible causes of these issues?

- ☐ Available CPU exceeded
- ☐ Disk quota exceeded
- ☒ Filesystem quota exceeded

Explanation:-If an app exceeds the filesystem quota, any write operations fail, including writes to logs. If the app memory quota is exceeded, the app is temporarily stopped. Quotas can be increased or eliminated by upgrading the App Service plan.

- ☒ App memory quota exceeded

Explanation:-If an app exceeds the filesystem quota, any write operations fail, including writes to logs. If the app memory quota is exceeded, the app is temporarily stopped. Quotas can be increased or eliminated by upgrading the App Service plan.

Q28) Correct or Incorrect: Upgrading a general-purpose v1 or Blob storage account to a general-purpose v2 is a permanent change and cannot be undone.

- ☒ Correct

Explanation:-Upgrading a general-purpose v1 or Blob storage account to a general-purpose v2 is a permanent change and cannot be undone.

☐ Incorrect

Q29) Correct or Incorrect: Azure App Service apps support a connection to on-premises resources.

☒ Correct

Explanation:-Azure App Service apps can access on-premises resources by integrating with Azure virtual networks that have site-to-site connections (see the diagram).

☐ Incorrect

Q30) A developer is creating an Azure Resource Manager template and needs to store a secret. Based on the following template, what type value should the developer use?

```
"parameters": {  
  "secretValue": {  
    "type": "",  
    "metadata": {  
      "description": "The value of the secret to store in the vault."  
    }  
  }  
}
```

☐ string

☒ secureString

☐ [parameters('secureString')]

☐ secure

Q31) Which languages does Azure Durable Functions currently support?

☐ C#, PowerShell, TypeScript

☐ C#, Java, F#, JavaScript

☐ C#, Python, JavaScript, F#

☒ C#, F#, JavaScript

Explanation:-Durable Functions currently supports the following languages:

- C#: Both precompiled class libraries and C# script.
- JavaScript: Supported only for version 2.x of the Azure Functions runtime. Requires version 1.7.0 or later of the Durable Functions extension.
- F#: Precompiled class libraries and F# script. F# script is only supported for version 1.x of the Azure Functions runtime.

Q32) Correct or Incorrect: Stream logs can be viewed in a local console.

☒ Correct

Explanation:-Stream logs can be viewed in the local console. To view stream logs in the local console, install the Azure CLI and sign in to your account. Then follow the instructions for Cloud Shell.

☐ Incorrect

Q33) What is the default timeout duration for a function app on the Consumption plan?

☐ 10 minutes

☐ 30 minutes

☐ Unlimited

☒ 5 minutes

Explanation:-The timeout duration of a function app is defined by the functionTimeout property in the host.json project file. The following table shows the default and maximum values, in minutes, for both plans and the different runtime versions:

Q34) Which Docker command would you run to build a Docker image?

☐ docker create

☐ docker images

☒ docker build

Explanation:-The docker build command builds a Docker image from a Dockerfile and context. The context is a set of files located at a specific path or URL. The following is an example of the docker build command:

```
docker build https://github.com/docker/rootfs.git#container:docker
```

☐ docker run

Q35)

You are creating a high availability application with a recovery time objective of less than 15 minutes and a recovery point objective of greater than 0 minutes.

Which consistency level should you choose?

☐ Bounded Stateless

☐ Session

☐ Eventual

☒ Strong

Explanation:-In this use case, you would choose the Strong consistency level. The Strong consistency level provides a 0-minute recovery point objective and a recovery time objective of less than 15 minutes.

Q36) A company is building a traffic monitoring system. The system would be monitoring the traffic along 4 highways. The system would be responsible for producing a time series-based analysis report for each highway. The traffic sensors on each highway have been configured to send their data to Azure Event Hubs. The data from Event Hubs is then consumed by three departments. Each department makes use of an Azure Web App to display the data. You have to implement the Azure Event Hub instance. You need to implement a solution that ensures data throughput is maximized and latency is minimized. What is the number of partitions you would set up in the Event Hub?

- ☐ 3
- ☒ 4

Explanation:-For maximum throughput, we can create a separate partition for each highway.

Since we should base the partitions on the incoming data, the other options are incorrect.

For more information on partition keys, please visit the following URL:

<https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-features#partitions> and Event Hubs is designed to allow a single partition reader per consumer group. In most use cases, the default setting of four partitions is sufficient. If you're looking to scale your event processing, you may want to consider adding additional partitions. There's no specific throughput limit on a partition, however the aggregate throughput in your namespace is limited by the number of throughput units. As you increase the number of throughput units in your namespace, you may want additional partitions to allow concurrent readers to achieve their own maximum throughput. Source - <https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-faq>

- ☐ 1
- ☐ 2

Q37) A company is building a traffic monitoring system. The system would be monitoring the traffic along 4 highways. The system would be responsible for producing a time series-based analysis report for each highway. The traffic sensors on each highway have been configured to send their data to Azure Event Hubs. The data from Event Hubs is then consumed by three departments. Each department makes use of an Azure Web App to display the data. You have to implement the Azure Event Hub instance. You need to implement a solution that ensures data throughput is maximized and latency is minimized. Which of the following would you use as the partition key?

- ☐ Timestamp
- ☐ Department
- ☒ Highway

Explanation:-Since the data would come in for each highway, the highway represented by probably a highway number would be ideal for the partition key.

The other options are incorrect since they would not provide ideal values for the distribution of data across the partitions.

For more information on partition keys, please visit the following URL:

<https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-features#partitions>

- ☐ Datestamp

Q38) An application is currently making use of an Azure storage account. Soft delete is enabled on the storage account. The application uploads a blob named img1.jpg. Snapshot 1 is then created out of the blob. And then Snapshot 2 is created out of the blob. Snapshot 1 is then deleted. A system error has caused the application to go ahead and delete the blob and all of its snapshots. Would you be able to restore the blob img.jpg?

- ☒ Correct

Explanation:-The soft delete features allow you to recover blobs and their snapshots as well.

The Microsoft documentation mentions the following.

For more information on the soft delete feature, please visit the following URL:

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-soft-delete>

- ☐ Incorrect

Q39) An application is currently making use of an Azure storage account. Soft delete is enabled on the storage account. The application uploads a blob named img1.jpg. Snapshot 1 is then created out of the blob. And then Snapshot 2 is created out of the blob. Snapshot 1 is then deleted. A system error has caused the application to go ahead and delete the blob and all of its snapshots. Would you be able to restore Snapshot 1?

- ☒ Correct

Explanation:-The soft delete features allow you to recover blobs and their snapshots as well.

The Microsoft documentation mentions the following.

For more information on the soft delete feature, please visit the following URL:

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-soft-delete>

- ☐ Incorrect

Q40) An application is currently making use of an Azure storage account. Soft delete is enabled on the storage account. The application uploads a blob named img1.jpg. Snapshot 1 is then created out of the blob. And then Snapshot 2 is created out of the blob. Snapshot 1 is then deleted. A system error has caused the application to now ahead and delete the blob and all of its snapshots. Would you be able to restore Snapshot 2?

- ☒ Correct

Explanation:-The soft delete features allow you to recover blobs and their snapshots as well.

The Microsoft documentation mentions the following.

For more information on the soft delete feature, please visit the following URL:

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-soft-delete>

- ☐ Incorrect

Q41) A company currently has a web service deployed that is used to take in food orders and deliveries. The web service used Azure Cosmos DB as the data store.

A new feature is being rolled out that allows users to set a tip amount for orders. The new feature now mandates that the order needs to have a property named Ordertip in the document in Cosmos DB and that the property must contain a numeric value. There might be existing web sites and web services that may not be updated so far to include this feature of having a tip in place.

You need to complete the below code trigger for this requirement:

Which of the following would go into Slot1?

- ☐ this.readDocument('item');
- ☐ this.value();
- ☒ getContext().getRequest();

Explanation:-This trigger in the web service will be used to get the request first from the web sites and applications that call this web service.

A similar example if also given in the Microsoft documentation.

Since this is the right approach, all other options are incorrect.

For more information on using triggers for Cosmos DB, please visit the following URL:

<https://docs.microsoft.com/en-us/azure/cosmos-db/how-to-write-stored-procedures-triggers-udfs>

- ☐ getContext().getResponse();

Q42) A company currently has a web service deployed that is used to take in food orders and deliveries. The web service used Azure Cosmos DB as the data store.

A new feature is being rolled out that allows users to set a tip amount for orders. The new feature now mandates that the order needs to have a property named Ordertip in the document in Cosmos DB and that the property must contain a numeric value. There might be existing web sites and web services that may not be updated so far to include this feature of having a tip in place.

You need to complete the below code trigger for this requirement:

Which of the following would go into Slot2?

- ☐ If(response.getValue("Ordertip")==null) {
- ☐ If(request.getValue("Ordertip")==null) {
- ☒ If(!("Ordertip" in i)) {

Explanation:-Here we need to check if the Ordertip property exists in the request.

A similar example if also given in the Microsoft documentation.

Since this is the right approach, all other options are incorrect.

For more information on using triggers for Cosmos DB, please visit the following URL:

<https://docs.microsoft.com/en-us/azure/cosmos-db/how-to-write-stored-procedures-triggers-udfs>

- ☐ If (type.getValue("Ordertip")==null) {

Q43) A company currently has a web service deployed that is used to take in food orders and deliveries. The web service used Azure Cosmos DB as the data store.

A new feature is being rolled out that allows users to set a tip amount for orders. The new feature now mandates that the order needs to have a property named Ordertip in the document in Cosmos DB and that the property must contain a numeric value. There might be existing web sites and web services that may not be updated so far to include this feature of having a tip in place.

You need to complete the below code trigger for this requirement:

Which of the following would go into Slot3?

- ☐ this.replaceDocument(i);
- ☐ r.setValue(i);
- ☒ r.setBody(i);

Explanation:-We now need to set the request Body with the modified request.

A similar example if also given in the Microsoft documentation.

Since this is the right approach, all other options are incorrect.

For more information on using triggers for Cosmos DB, please visit the following URL:

<https://docs.microsoft.com/en-us/azure/cosmos-db/how-to-write-stored-procedures-triggers-udfs>

- ☐ this.upsertDocument(i);

Q44) You are going to deploy a web application onto Azure. You would make use of the App Service on Linux. You go ahead and create an App Service Plan. You then go ahead and publish a custom docker image onto the Azure Web App. You need to access the console logs generated from the container in real-time.

You need to complete the following Azure CLI script for this:

Which of the following would go into Slot1?

- ☐ tail
- ☒ config

Explanation:-To configure "logging" we need to use the "az webapp log configure" command.

The Microsoft documentation mentions the following.

Since this is clearly mentioned in the Microsoft documentation, all other options are incorrect.

For more information on the command, please visit the following URL:

<https://docs.microsoft.com/en-us/cli/azure/webapp/log?view=azure-cli-latest#az-webapp-log-config>

- ☐ show
- ☐ download

Q45) You are going to deploy a web application onto Azure. You would make use of the App Service on Linux. You go ahead and create an App Service Plan. You then go ahead and publish a custom docker image onto the Azure Web App. You need to access the console logs generated from the container in real-time.

You need to complete the following Azure CLI script for this:

Which of the following would go into Slot2?

- ☐ --application-logging

- ☐ --system-logging
- ☒ --docker-container-logging

Explanation:-For container logging, we need to use the flag --docker-container-logging.

The Microsoft documentation mentions the following on the command flag.

Since this is clearly mentioned in the Microsoft documentation, all other options are incorrect.

For more information on the command, please visit the following URL:

<https://docs.microsoft.com/en-us/cli/azure/webapp/log?view=azure-cli-latest#az-webapp-log-config>

- ☐ --web-server-logging

Q46) You are going to deploy a web application onto Azure. You would make use of the App Service on Linux. You go ahead and create an App Service Plan. You then go ahead and publish a custom docker image onto the Azure Web App. You need to access the console logs generated from the container in real-time.

You need to complete the following Azure CLI script for this:

Which of the following would go into Slot3?

- ☐ docker
- ☒ webapp

Explanation:-To get a live trail of the logs, we need to use the "az webapp log tail" command.

Since this is clearly mentioned in the Microsoft documentation, all other options are incorrect.

For more information on the command, please visit the following URL:

<https://docs.microsoft.com/en-us/cli/azure/webapp/log?view=azure-cli-latest#az-webapp-log-tail>

- ☐ acr
- ☐ aks

Q47) You are going to deploy a web application onto Azure. You would make use of the App Service on Linux. You go ahead and create an App Service Plan. You then go ahead and publish a custom docker image onto the Azure Web App. You need to access the console logs generated from the container in real-time.

You need to complete the following Azure CLI script for this:

Which of the following would go into Slot4?

- ☐ download
- ☐ show
- ☒ tail

Explanation:-To get a live trail of the logs, we need to use the "az webapp log tail" command.

Since this is clearly mentioned in the Microsoft documentation, all other options are incorrect.

For more information on the command, please visit the following URL:

<https://docs.microsoft.com/en-us/cli/azure/webapp/log?view=azure-cli-latest#az-webapp-log-tail>

- ☐ config

Q48)

You have to develop an ASP.Net Core application. The application is used to work with blobs in an Azure storage account. The application authenticates via Azure AD credentials. Role based access has been implemented on the containers that contain the blobs. These roles have been assigned to the users. You have to configure the application so that the user's permissions can be used with the Azure Blob containers.

Which of the following would you use as the Permission for the Microsoft Graph API?

- ☐ client_id
- ☐ User.Write
- ☒ User.Read

Explanation:-For the Microsoft Graph API, we need to use the User.Read permission. This is also given in the Microsoft documentation.

Since this is clearly given in the documentation, all other options are incorrect.

For more information on permissions for an application for accessing Azure storage, please visit the following URL:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-auth-aad-app>

- ☐ user_impersonation

Q49)

You have to develop an ASP.Net Core application. The application is used to work with blobs in an Azure storage account. The application authenticates via Azure AD credentials. Role-based access has been implemented on the containers that contain the blobs. These roles have been assigned to users. You have to configure the application so that the user's permissions can be used with the Azure Blob containers.

What is the type of permission that needs to be used for the Microsoft Graph API?

- ☐ Secondary
- ☒ Delegated

Explanation:-For the Microsoft Graph API, we need to use the Delegated permission type. This is also given in the Microsoft documentation.

Since this is clearly given in the documentation, all other options are incorrect.

For more information on permissions for an application for accessing Azure storage, please visit the following URL:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-auth-aad-app>

- ☐ Primary
- ☐ Application

Q50) You have to develop an ASP.Net Core application. The application is used to work with blobs in an Azure storage account. The application authenticates via Azure AD credentials. Role-based access has been implemented on the containers that contain the blobs. These roles have been assigned to users. You have to configure the application so that the user's

permissions can be used with the Azure Blob containers.

Which of the following would you use as the Permission for the Azure Storage API?

- ☐ User.Read
- ☐ User.Write
- ☐ client_id
- ☒ user_impersonation

Explanation:-For the storage account, we need to use the user_impersonation permission. This is also given in the Microsoft documentation. Since this is clearly given in the documentation, all other options are incorrect.

For more information on permissions for an application for accessing Azure storage, please visit the following URL:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-auth-aad-app>

Q51)

You have to develop an ASP.Net Core application. The application is used to work with blobs in an Azure storage account. The application authenticates via Azure AD credentials. Role-based access has been implemented on the containers that contain the blobs. These roles have been assigned to users. You have to configure the application so that the user's permissions can be used with the Azure Blob containers.

What is the type of permission that needs to be used for the Microsoft Graph API?

- ☐ Secondary
- ☐ Primary
- ☐ Application
- ☒ Delegated

Explanation:-Here the permission type needs to be delegated.

Since this is clearly given in the documentation, all other options are incorrect.

For more information on permissions for an application for accessing Azure storage, please visit the following URL:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-auth-aad-app>

Q52) You have to build a web application that would be deployed onto Azure. The web application would not allow anonymous access. The authentication would be carried out via Azure AD.

The application needs to abide by the following requirements:

- Users must be able to log into the web application using their Azure AD credentials
- The personalization of the web application must be based on the membership in Active Directory groups

You have to configure the application manifest file :

Which of the following would go into Slot1?

- ☐ "AppClaims"
- ☒ "groupMembershipClaims"

Explanation:-To get all the groups the user is a part of, you need to set the "groupMembershipClaims"

The Microsoft documentation mentions the following.

Since this is the ideal approach, all other options are incorrect.

For more information on membership group claims, please visit the following URL:

<https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-fed-group-claims#configure-the-azure-ad-application-registration-for-group-attributes>

- ☐ "optionalClaims"
- ☐ "AllClaims"

Q53) You have to build a web application that would be deployed onto Azure. The web application would not allow anonymous access. The authentication would be carried out via Azure AD.

The application needs to abide by the following requirements:

- Users must be able to log into the web application using their Azure AD credentials
- The personalization of the web application must be based on the membership in Active Directory groups

You have to configure the application manifest file :

Which of the following would go into Slot2?

- ☐ "oauth2AllowImplicitFlow"
- ☐ "requiredResourceAccess"
- ☒ "oauth2Permissions"

Explanation:-The "oAuth2Permissions" is used for web API permissions.

The Microsoft documentation mentions the following:

Option A is incorrect since this is used to specify a fallback application type.

Option C is incorrect since this is used to provide a list of permission scopes and app roles that an application requires from a specified resource.

Option D is incorrect since this is used for single-page applications.

For more information on the reference app manifest, please visit the following URL:

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

- ☐ "allowPublicClient"

Q54) You have to set up a data store using Azure Cosmos DB. The documents that would be stored in Cosmos DB would contain hundreds of properties. The Azure Cosmos DB account would be using the SQL API. The issue currently is that in the design stage it has been noticed that there are no distinct values in the documents that can be used for partitioning.

You need to choose a partition key that would ensure workloads are spread evenly over the partitions.

Which of the following are strategies that can be implemented? (Choose 2.)

- ☐ Using a single property value that appears frequently in the documents
- ☐ Using a value containing the collection name

✔ Using a hash suffix that is appended to a property value

Explanation:-You can use a concatenation of multiple property values and also use a suffix.

The Microsoft documentation mentions the following.

The other options are invalid since these are not the right approaches for synthetic keys.

For more information on synthetic partition keys, please visit the following URL:

<https://docs.microsoft.com/en-us/azure/cosmos-db/synthetic-partition-keys>

● Using a single property value that does Incorrectt appear frequently in the documents

✔ Employing a strategy of concatenation of multiple property values with a random suffix appended

Explanation:-You can use a concatenation of multiple property values and also use a suffix.

The Microsoft documentation mentions the following.

The other options are invalid since these are not the right approaches for synthetic keys.

For more information on synthetic partition keys, please visit the following URL:

<https://docs.microsoft.com/en-us/azure/cosmos-db/synthetic-partition-keys>

Q55) You have to deploy an application to an Azure Kubernetes cluster. The application must only be available from within an Azure virtual network that uses the cluster.

You have to complete the YAML deployment file for the application:

Which of the following should go into Slot1?

● Ingress.class

● Deployment

● LoadBalancer

✔ Service

Explanation:-Here we need to define a service for the application.

An example is also given in the Microsoft documentation.

Since this is clearly given in the documentation, all other options are incorrect.

For more information on the internal load balancer for an Azure Kubernetes cluster, please visit the following URL:

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

● Ingress

● azure-load-balancer-internal

Q56) You have to deploy an application to an Azure Kubernetes cluster. The application must only be available from within an Azure virtual network that uses the cluster.

You have to complete the YAML deployment file for the application:

Which of the following should go into Slot2?

● azure-load-balancer-internal

● Deployment

✔ Ingress.class

Explanation:-Here we need to define an annotation of the type azure-load-balancer-internal.

An example is also given in the Microsoft documentation.

Since this is clearly given in the documentation, all other options are incorrect.

For more information on the internal load balancer for an Azure Kubernetes cluster, please visit the following URL:

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

● LoadBalancer

● Service

● Ingress

Q57) You have to deploy an application to an Azure Kubernetes cluster. The application must only be available from within an Azure virtual network that uses the cluster.

You have to complete the YAML deployment file for the application:

Which of the following should go into Slot3?

● azure-load-balancer-internal

● Ingress.class

● Deployment

✔ LoadBalancer

Explanation:-Here we need to define a service for the application.

An example is also given in the Microsoft documentation.

Here the type of service that needs to be mentioned is the LoadBalancer.

Since this is clearly given in the documentation, all other options are incorrect.

For more information on the internal load balancer for an Azure Kubernetes cluster, please visit the following URL:

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

● Service

● Ingress

Q58) You have developed and deployed a REST API based application to the Azure App Service.

When you navigate to the URL, you are getting the error Failed to load http://montanaapi.azurewebsites.net:6000/#/api/Products: No 'Access-Control-Allow-Origin' header is present on the requested resource.

Which of the following needs to be implemented to resolve this issue?

✔ Enable CORS

Explanation:-For this, we need to enable CORS.

This is also given as an example in the Microsoft documentation:

Since this is clearly given in the documentation, all other options are incorrect.

For more information on enabling CORS for an Azure web app, please visit the following URL:

- ☐ Use an SSL certificate
- ☐ Enable Azure AD Authentication
- ☐ Use a custom domain

Q59) You need to deploy a software as a service application that will run as a web service. The web service needs to be deployed using the Azure web app service. The web service will also use WebJobs to process data. There are three customers who will use the web service.

Below are the key requirements for the deployment:

- Each deployment of the web app needs to be tested using deployment slots prior to deploying to production.
- Each instance of the WebJob that processes data for a single customer must run as a singleton instance.
- Azure costs need to be minimized
- The Azure based resources must be located in an isolated network

Which of the following would you use as the underlying pricing tier for this solution?

- ☐ Premium
- ☐ Standard
- ☒ Isolated

Explanation:-Since there is a requirement for resources to be located in an isolated network, we need to use the Isolated pricing tier. The Microsoft documentation mentions the following.

Since this is the only plan that suits this requirement, all other options are incorrect.

For more information on App Service plans, please visit the following URL:

<https://azure.microsoft.com/en-us/pricing/details/app-service/windows/>

- ☐ Consumption

Q60) You are planning on using the Azure container registry service.

You want to ensure that your application or service can use it for headless authentication. You also want to allow role-based access to the registry.

You decide to use the Admin account associated with the container registry.

Would this fulfill the requirement?

- ☒ Incorrect

Explanation:-This is only used for single-user access to the registry.

The Microsoft documentation mentions the following:

For more information on container registry authentication, please visit the following URL:

<https://docs.microsoft.com/en-us/azure/container-registry/container-registry-authentication>

- ☐ Correct

Q61) You are planning on using the Azure container registry service. You want to ensure that your application or service can use it for headless authentication.

You also want to allow role-based access to the registry. You decide to assign a service principal to the registry.

Would this fulfill the requirement?

- ☐ Incorrect
- ☒ Correct

Explanation:-This is the ideal approach.

The Microsoft documentation mentions the following.

For more information on container registry authentication, please visit the following URL:

<https://docs.microsoft.com/en-us/azure/container-registry/container-registry-authentication>

Q62) You are planning on using the Azure container registry service. You want to ensure that your application or service can use it for headless authentication. You also want to allow role-based access to the registry.

You decide to perform an individual login to the registry.

Would this fulfill the requirement?

- ☒ Incorrect

Explanation:-This will not allow you to assign role-based access control or even allow for headless authentication.

The Microsoft documentation mentions the following:

For more information on container registry authentication, please visit the following URL:

<https://docs.microsoft.com/en-us/azure/container-registry/container-registry-authentication>

- ☐ Correct

Q63) You are developing an application that is going to making use of the Azure Service Bus. You have to create filters based on the different types of subscribers that would subscribe to the topic.

The broad classification of these subscribers are:

- Subscribers should be able to receive all messages being sent to the topic
- Subscribers should NOT be able to receive all messages being sent to the topic
- Subscribers should be able to receive messages based on a SQL-like conditional expression

Which of the following would you use as the filter condition for the requirement?

“Subscribers should be able to receive all messages being sent to the topic”

- ☐ Correlation filters
- ☐ SQL filters
- ☐ Primary filters

☒ Boolean filters

Explanation:-Here we have to make use of Boolean filters which could either accept or reject all messages.

Since this is clear from the Microsoft documentation, all other options are incorrect.

For more information on topic filters, please visit the following URL:

<https://docs.microsoft.com/en-us/azure/service-bus-messaging/topic-filters>

Q64) You are developing an application that is going to making use of the Azure Service Bus. You have to create filters based on the different types of subscribers that would subscribe to the topic.

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- Subscribers should be able to receive all messages being sent to the topic
- Subscribers should NOT be able to receive all messages being sent to the topic
- Subscribers should be able to receive messages based on a SQL-like conditional expression

Which of the following would you use as the filter condition for the requirement?

“Subscribers should NOT be able to receive all messages being sent to the topic”

- ☐ SQL filters
- ☐ Primary filters
- ☒ Boolean filters

Explanation:-Here we have to make use of Boolean filters which could either accept or reject all messages.

Since this is clear from the Microsoft documentation, all other options are incorrect.

For more information on topic filters, please visit the following URL:

<https://docs.microsoft.com/en-us/azure/service-bus-messaging/topic-filters>

- ☐ Correlation filters

Q65) You are developing an application that is going to making use of the Azure Service Bus. You have to create filters based on the different types of subscribers that would subscribe to the topic.

The broad classification of these subscribers are:

- Subscribers should be able to receive all messages being sent to the topic
- Subscribers should NOT be able to receive all messages being sent to the topic
- Subscribers should be able to receive messages based on a SQL-like conditional expression

Which of the following would you use as the filter condition for the requirement?

“Subscribers should be able to receive messages based on a SQL-like conditional expression”

- ☐ Correlation filters
- ☐ Primary filters
- ☐ Boolean filters
- ☒ SQL filters

Explanation:-We can use the SQL Filters to base the conditional on SQL like expressions.

Since this is clear from the Microsoft documentation, all other options are incorrect.

For more information on topic filters, please visit the following URL:

<https://docs.microsoft.com/en-us/azure/service-bus-messaging/topic-filters>

Q66) Which of the following might be a good usage of tags?

- ☐ Using tags to store environment and department association
- ☐ Using tags in conjunction with Azure Automation to schedule maintenance windows
- ☐ Using tags to associate a cost center with resources for internal chargeback
- ☒ All of these are good ways to use tags

Q67) Which of the following would be the most efficient way to ensure a naming convention was followed across your subscription?

☐ Give all other users except for yourself read-only access to the subscription. Have all requests to create resources sent to you so you can review the names being assigned to resources, and then create them.

- ☒ Create a policy with your naming requirements and assign it to the scope of your subscription
- ☐ Send out an email with the details of your naming conventions and hope it is followed

Q68) Which of the following would be good to put a resource lock on?

- ☐ A storage account used to temporarily store images processed in a development environment
- ☐ A non-production virtual machine used to test occasional application builds
- ☒ An ExpressRoute circuit with connectivity back to your on-premises network

Q69) Correct or Incorrect: Azure App service can automatically scale your web application to meet traffic demand?

- ☐ Incorrect
- ☒ Correct

Q70) Complete the following sentence. As an Azure customer, Azure Reservations offer discounted prices if you _____

- ☐ Provision many resources
 - ☒ Make upfront commitments on compute capacity
 - ☐ Have a free account
 - ☐ Set Spending Limits
-

Q71) Which method is used in Python cells to display the results as a formatted table or chart visualization?

- ☒ display(df)
- ☐ df.display()
- ☐ print(df)

Q72) A company has an application that provides product data to external consultants.

Azure API Management is used to publish API's to the consultants.

The API needs to meet the following requirements:

- Support alternative input parameters.
- Remove formatting text from responses.
- Provide additional context to back-end services.

Which type of policy would you use for the following requirement?

"Remove formatting text from responses"

- ☐ Backend
- ☒ Outbound

Explanation:-You can use policy expressions and find and replace to format the text in the response. An example of this is given in the Microsoft documentation

Since this is clearly mentioned, all other options are incorrect.

For more information on API management transformation URL's and a blog article on the same, one can go to the below link:

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

<https://azure.microsoft.com/fr-fr/blog/policy-expressions-in-azure-api-management/>

- ☐ Inbound
- ☐ Error

Q73) A company has an application that provides product data to external consultants.

Azure API Management is used to publish API's to the consultants.

The API needs to meet the following requirements:

- Support alternative input parameters.
- Remove formatting text from responses.
- Provide additional context to back-end services.

Which type of policy would you use for the following requirement?

"Forward the user ID that is associated with the subscription key for the original request to the back-end service"

- ☐ Outbound
- ☒ Inbound

Explanation:-An example of this is given in the Microsoft documentation

Since this is clearly mentioned, all other options are incorrect.

For more information on API management transformation URL's, one can go to the below link:

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

- ☐ Backend
- ☐ Error

Q74)

A development team has published a Web App to the Azure Web App Service. They are also using Application Insights for the Web App for monitoring purposes. They have to ensure that the cost for Application Insights does not exceed a pre-set budget.

Which of the following would you implement to adhere to this requirement?

- ☐ Implement adaptive sampling using the Application Insights SDK
- ☐ Implement adaptive sampling using the Azure portal
- ☒ Set a daily cap for the Application Insights instance.

Explanation:-In Application Insights, if you go to Usage and estimated costs, you have the option to set a Daily cap. This can allow you to control costs for the Application Insights resource.

Since this is clear from the implementation, all other options are incorrect.

For more information on managing costs for Application Insights, one can go to the below link:

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/pricing>

- ☐ Implement ingestion sampling using the Azure portal.
- ☐ Implement ingestion sampling using the Application Insights SDK.

Q75) A development team is developing an application. The application will be working with customer data. The application will also be making use of Azure Redis Cache. You need to invalidate the cache when the customer data is changed.

You have to complete the below code to comply with the requirement.

Which of the following will go into Slot1?

- ☐ ICache cache=Connection.GetDatabase();
- ☐ IDatabase cache=Connection.GetCache();
- ☒ IDatabase cache=Connection.GetDatabase();

Explanation:-The right way is to use the IDatabase interface. Also you need to use the GetDatabase() method. This is also mentioned in the Microsoft documentation.

Since this is clearly given in the Microsoft documentation, all other options are incorrect.

For more information on an example on how to work with Azure Redis from .Net, one can go to the below link:

<https://docs.microsoft.com/en-us/azure/azure-cache-for-redis/cache-dotnet-how-to-use-azure-redis-cache>

- ☐ ICache cache=Connection.GetCache();

Q76) Which browsers should be used with Databricks Notebook?

- ☐ Safari and Microsoft Edge
- ☐ Microsoft Edge and Internet Explorer 11
- ☒ Chrome and Firefox

Q77) Which DataFrame method do you use to create a temporary view?

- ☒ createOrReplaceTempView()
- ☐ createTempViewDF()
- ☐ createTempView()

Q78) What file types can be used to create a table by using the workspace UI?

- ☒ All of these.
- ☐ Avro
- ☐ JSON
- ☐ CSV

Q79) Which Python statement will yield a Spark DataFrame from the query?

- ☐ df = spark.sql("SELECT * FROM usedcars").toPandas()
- ☐ df = "SELECT * FROM usedcars".toDF()
- ☒ df = spark.sql("SELECT * FROM usedcars")

Q80) Which of the following is not a valid automated deployment source?

- ☒ SharePoint
- ☐ Azure DevOps
- ☐ GitHub
- ☐ Dropbox

Q81) Which of the following is correct?

- ☒ Machine learning algorithms only understand vectors (arrays of numbers), not text.
- ☐ Featurization of text data only needs to be performed during model training.
- ☐ Word embeddings convert words to their shortest common form.

Q82) Which of these descriptions best matches the purpose of training data?

- ☐ The dataset used in its entirety to teach the algorithm.
- ☐ A subset of the data that's used to test what the algorithm has learned.
- ☒ A subset of the data that's used to teach the algorithm.

Q83) What's the likely cause when a supervised model makes predictions perfectly against all the training data but fails against new data?

- ☐ Underfitting
- ☒ Overfitting

Q84) What's used to guide the improvement of the model during model training?

- ☒ Minimizing the error
- ☐ Regression
- ☐ Plotting the error

Q85) Which of these descriptions best summarizes the difference between regression and classification?

- ☐ Regression predicts a binary outcome.
- ☒ Regression predicts numeric outcomes, and classification predicts labels.
- ☐ Classification predicts a binary label.

Q86) Which library can you use to achieve parallelized deep learning in Azure Databricks?

- ☒ Spark Deep Learning
- ☐ TFLearn
- ☐ Tensorflow

Q87) Which of these definitions best describes the function of an autoencoder neural-network architecture?

- ☐ A network that automatically decodes a vector into image data.
- ☒ A network that encodes an image into a compressed feature vector and then re-creates the image from the vector.

- A network that automatically encodes image data into a vector.
