

Q1) A consultant needs to deploy Web Applications to the Azure Web App service for 4 customers. Each customer needs to have the application running on a separate individual instance. The following key requirements are also in place

- Ability to automatically scale on demand
- Ability to use deployment slots to test staging environments
- All Azure resources should be located in a separate isolated network
- Costs need to be minimized

Which of the following would you choose for the App Service Plan?

- ☐ Standard
- ☐ Premium
- ☒ Isolated

Explanation:-Here the defining requirement is to ensure that Azure resources are located in a separate environment, and for that we need to use the Isolated App Service Plan

The Microsoft documentation mentions the following

The Isolated App Service plan supports Auto Scaling and Deployment slots

- ☐ Basic

Q2) A consultant needs to deploy Web Applications to the Azure Web App service for 4 customers. Each customer needs to have the application running on a separate individual instance. The following key requirements are also in place

- Ability to automatically scale on demand
- Ability to use deployment slots to test staging environments
- All Azure resources should be located in a separate isolated network
- Costs need to be minimized

How many instances would you keep running for the requirement?

- ☒ 4

Explanation:-Since each we need to ensure each customer's Web app is running on a separate instance and since we also need to cut down on costs, we should limit the number of instances to 4. Since this is the only viable option, all other options are incorrect For more information on App Service Plans, please go ahead and visit the below URL <https://azure.microsoft.com/en-us/pricing/details/app-service/plans/>

- ☐ 8
- ☐ 12
- ☐ 16

Q3) A company is implementing an order processing system. The orders are going to be published to an Azure Service Bus topic. The properties of the messages that would be sent are as follows

You need to implement the right filters for each of the subscriptions given above.

Which of the following would you implement for the Subscription "LaterOrders?"

- ☐ CorrelationFilter
- ☐ TrueFilter
- ☐ No Filter
- ☒ FalseFilter

Explanation:-You can use the FalseFilter so that no messages come up in the subscription as per the requirement.

The Microsoft documentation mentions the following with regards to the filter

- ☐ SqlFilter

Q4) As a developer you need to create a Dockerfile for an application. The application will be based on ASP.Net core. The application has the following requirements

- Ensure that the application XYZApp.dll runs at the startup of the docker container
- Run a powershell script called XYZcsript.ps1 in the Docker container

The XYZApp.dll and the XYZcsript.ps1 are in the same location as the DockerFile. Which of the following commands would you place in the DockerFile

- ☐ RUN "XYZApp.dll","XYZcsript.ps1"
- ☒ RUN powershell "XYZcsript.ps1"

Explanation:-Examples of DockerFiles are given in the Microsoft documentation. The below example shows how to define the base image and run an application on startup of the docker container

And the below example shows how to run a powershell script

- ☐ ENTRYPOINT ["XYZApp.dll", "XYZcsript.ps1"]
- ☐ EXPOSE XYZApp.dll ,XYZcsript.ps1
- ☒ ENTRYPOINT ["dotnet", " MySingleContainerWebApp.dll "]

Explanation:-Examples of DockerFiles are given in the Microsoft documentation. The below example shows how to define the base image and run an application on startup of the docker container

And the below example shows how to run a powershell script

- ☒ FROM microsoft/dotnet:2.2-aspnetcore-runtime

Explanation:-Examples of DockerFiles are given in the Microsoft documentation. The below example shows how to define the base image and run an application on startup of the docker container

Q5) To create an API Management service, what PowerShell command should a developer run?

- ☒ New-AzAPIManagement

Explanation:-In order to create an API Management service using PowerShell, the developer would run the New-AzApiManagement command.

- ☐ New-AzManagement
- ☐ New-AzAPI
- ☐ New-APIManagement

Q6) Your application requirements are for a messaging service that provides a reliable asynchronous message delivery (enterprise messaging as a service) that requires polling. Which of the following messaging service would you choose?

☒ Service Bus

Explanation:-Service Bus is a brokered messaging system. It stores messages in a "broker" (for example, a queue) until the consuming party is ready to receive the messages. It has the following characteristic of reliable asynchronous message delivery (enterprise messaging as a service) that requires polling. Source - <https://docs.microsoft.com/en-us/azure/event-grid/compare-messaging-services>

- ☐ Event Grid
- ☐ Event Hubs
- ☐ None of these

Q7) What methods can you use to secure the connection between the API Management gateway and a back-end service?

- ☐ Configuring OAuth 2.0
- ☒ Connecting the API instance to an Azure virtual network

Explanation:-You have several options for securing the connection between the API Management gateway and your back-end services. You can:

- Use HTTP basic authentication
- Use TLS mutual authentication
- Use IP whitelisting on your back-end service (In all tiers of API Management with the exception of Consumption tier, the IP address of the gateway remains constant.)
- Connect your API Management instance to an Azure virtual network

- ☐ Using SOAP pass-through
- ☒ Using HTTP Basic Authentication

Explanation:-You have several options for securing the connection between the API Management gateway and your back-end services. You can:

- Use HTTP basic authentication
- Use TLS mutual authentication
- Use IP whitelisting on your back-end service (In all tiers of API Management with the exception of Consumption tier, the IP address of the gateway remains constant.)
- Connect your API Management instance to an Azure virtual network

Q8)

Your company has asked your team to create an Azure logic app to take two different actions, depending on the data being processed.

Based on the following illustration, which control action would you suggest to support the highlighted control logic?

- ☐ Switch
- ☒ Condition

Explanation:-Conditions control which action will be taken next, based the provided inputs. Other types of actions are listed in the following table:

- ☐ For each
- ☐ Scope

Q9) What are the two types of Azure Logic App triggers to start a workflow?

☒ Push trigger

Explanation:-Every Azure Logic app starts with a trigger that starts the logic app workflow. These are the two types of triggers:

- Polling trigger: This type of trigger regularly checks a service endpoint for new data. When new data exists, the trigger creates and runs a new workflow instance with the data as input.
- Push trigger: This type of trigger listens for data at a service endpoint and waits until a specific event happens. When that event happens, the trigger fires immediately, creating and running a new workflow instance that uses any available data as input.

☒ Polling trigger

Explanation:-Every Azure Logic app starts with a trigger that starts the logic app workflow. These are the two types of triggers:

- Polling trigger: This type of trigger regularly checks a service endpoint for new data. When new data exists, the trigger creates and runs a new workflow instance with the data as input.
- Push trigger: This type of trigger listens for data at a service endpoint and waits until a specific event happens. When that event happens, the trigger fires immediately, creating and running a new workflow instance that uses any available data as input.

- ☐ Get trigger
- ☐ Post trigger

Q10) A developer needs to have API callers use different versions of the API. Does Azure API Management Support this?

☒ Correct

Explanation:-Sometimes API callers need to use different versions of an API. Azure API Management supports this with versions.

☐ Incorrect

Q11) You need to assign a user access to enable one Azure logic app. Which built-in role would you assign to this user?

- ☐ Contributor
- ☐ Reader
- ☐ Logic App Contributor
- ☒ Logic App Operator

Explanation:-You would assign the Logic App Operator role, which allows a user to read, enable, and disable logic apps but not edit or update them.

Q12) What are the two template objects you use when creating an Azure logic app template?

- functions
- ✓ resources

Explanation:-For a logic app template, you primarily work with the parameters and resources template objects, which are described in the following table:

- ✓ parameters

Explanation:-For a logic app template, you primarily work with the parameters and resources template objects, which are described in the following table:

- variables

Q13) A company is implementing an order processing system. The orders are going to be published to an Azure Service Bus topic. The properties of the messages that would be sent are as follows

You need to implement the right filters for each of the subscriptions given above.

Which of the following would you implement for the Subscription - HighPriorityOrders?

- TrueFilter
- FalseFilter
- ✓ CorrelationFilter

Explanation:-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 the other properties.

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

- No Filter
- SqlFilter

Q14) A company is implementing an order processing system. The orders are going to be published to an Azure Service Bus topic. The properties of the messages that would be sent are as follows

You need to implement the right filters for each of the subscriptions given above.

Which of the following would you implement for the Subscription "" GlobalOrders?

- TrueFilter
- CorrelationFilter
- ✓ SqlFilter

Explanation:-Here you can place a Sqlfilter based on the region. The Microsoft documentation mentions the following with regards to the filter

- No Filter
- FalseFilter

Q15) A company is implementing an order processing system. The orders are going to be published to an Azure Service Bus topic. The properties of the messages that would be sent are as follows

You need to implement the right filters for each of the subscriptions given above.

Which of the following would you implement for the Subscription "" HighOrders?

- CorrelationFilter
- ✓ SqlFilter

Explanation:-Here you can place a Sqlfilter based on the quantity. The Microsoft documentation mentions the following with regards to the filter

- TrueFilter
- No Filter
- FalseFilter

Q16) A company is implementing an order processing system. The orders are going to be published to an Azure Service Bus topic. The properties of the messages that would be sent are as follows

You need to implement the right filters for each of the subscriptions given above.

Which of the following would you implement for the Subscription - AllOrders? (Select 2)

- ✓ TrueFilter
- ✓ No Filter

Explanation:-The TrueFilter and FalseFilter either cause all arriving messages (true) or none of the arriving messages (false) to be selected for the subscription. Source - <https://docs.microsoft.com/en-us/azure/service-bus-messaging/topic-filters>

- CorrelationFilter
- SqlFilter
- FalseFilter

Q17) Your company has an ASP.Net Core web application. This web application runs on Docker. The application is mapped to a domain named www.XYZ.com. The application needs to be hosted in Azure using Azure Web App service and the docker image for the web application. You also have to map a custom domain to the Azure Web app service. The following variables are in place

You have to issue the required CLI commands for the provisioning process.

Which of the following would you issue to create the App Service plan?

- az appservice plan create --name XYZplan --resource-group XYZ-rg
- ✓ az appservice plan create --name XYZplan --resource-group XYZ-rg --location \$location --is-linux --sku S1

Explanation:-Microsoft documentation - https://docs.microsoft.com/en-us/cli/azure/appservice/plan?view=azure-cli-latest#az_appservice_plan_create

- az appservice plan docker create --name XYZplan --resource-group XYZ-rg --location \$location --is-linux --sku S1
- az appservice plan set --name XYZplan --resource-group XYZ-rg --location \$location --is-linux --sku S1

Q18) Your company has an ASP.Net Core web application. This web application runs on Docker. The application is mapped to a domain named www.XYZ.com. The application needs to be hosted in Azure using Azure Web App service and the docker image for the web application. You also have to map a custom domain to the Azure Web app service. The following variables are in place

Which of the following would you issue to create the Web App?

- ☐ az docker image create --name \$appName --plan XYZplan --resource-group XYZ-rg
- ☐ az docker create --name \$appName --plan XYZplan --resource-group XYZ-rg
- ☐ az webapp set--name \$appName --plan XYZplan --resource-group XYZ-rg
- ☒ az webapp create --name \$appName --plan XYZplan --resource-group XYZ-rg

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

Q19) Your company has an ASP.Net Core web application. This web application runs on Docker. The application is mapped to a domain named www.XYZ.com. The application needs to be hosted in Azure using Azure Web App service and the docker image for the web application. You also have to map a custom domain to the Azure Web app service. The following variables are in place

Which of the following would you issue to create the Web App?

- ☐ az kubectl config container set --docker-custom-image-name \$dockerHubContainerPath --name \$appName --resource-group XYZ-rg
- ☐ az kubernetes config container set --docker-custom-image-name \$dockerHubContainerPath --name \$appName --resource-group XYZ-rg
- ☐ az docker config container set --docker-custom-image-name \$dockerHubContainerPath --name \$appName --resource-group XYZ-rg
- ☒ az webapp config container set --docker-custom-image-name \$dockerHubContainerPath --name \$appName --resource-group XYZ-rg

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

Q20) A company is developing a shopping application for Windows devices. A notification needs to be sent on a user's device whenever a new product is entered into the application. You have to implement push notifications. You have to complete the missing parts in the partial code segment given below

Which of the following would go into Slot1?

- ☐ NotificationHubClientSettings
- ☒ NotificationHubClient

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

- ☐ NotificationHubJob
- ☐ NotificationDetails

Q21) A company is developing a shopping application for Windows devices. A notification needs to be sent on a user's device whenever a new product is entered into the application. You have to implement push notifications. You have to complete the missing parts in the partial code segment given below

Which of the following would go into Slot2?

- ☐ NotificationHubClientSettings
- ☒ NotificationHubClient

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

- ☐ NotificationHubJob
- ☐ NotificationDetails

Q22) Which pricing tier of Azure API Management (APIM) supports multi-region deployment?

- ☐ Standard
- ☒ Premium

Explanation:-There are five pricing tiers of Azure API Management (APIM):

- Consumption
- Developer
- Basic
- Standard
- Premium

Only the Premium tier supports multi-region deployment. The following table lists the features of the various pricing tiers:

- ☐ Consumption
- ☐ Developer

Q23) Which of the following actions is NOT supported by Event Grid?

- ☐ Microsoft.EventGrid/*/*write
- ☒ Microsoft.EventGrid/*/*edit

Explanation:-Event Grid does not support Microsoft.EventGrid/*/*edit. Event Grid does support the following actions:

- Microsoft.EventGrid/*/*read
- Microsoft.EventGrid/*/*write
- Microsoft.EventGrid/*/*delete
- Microsoft.EventGrid/eventSubscriptions/getFullUrl/action
- Microsoft.EventGrid/topics/listKeys/action
- Microsoft.EventGrid/topics/regenerateKey/action

- ☐ Microsoft.EventGrid/*/*read
- ☐ Microsoft.EventGrid/*/*delete

Q24) Inline code allows you add code snippets to an Azure logic app. What development language is currently supported for inline code?

- ☐ Java
- ☐ Python
- ☒ JavaScript

Explanation:-Currently only JavaScript is supported for inline code. More languages will be coming soon.

Q25) A developer needs to insert messages into an Azure storage queue. Based on the following method, what is called to add the message to the queue?

- newMessage
- CloudQueueMessage
- CreateIfNotExistsAsync
- ✓ AddMessageAsync

Explanation:-In this example, the method gets a queue reference and then creates a new queue if it doesn't already exist by calling CreateIfNotExistsAsync. Then, it adds the message to the queue by calling AddMessageAsync.

Q26) Correct or Incorrect: Azure Resource Manager templates can support definitions for multiple Azure logic apps.

- ✓ Correct

Explanation:-Azure Resource Manager templates can include resource definitions for multiple logic apps, so make sure that all your logic app resources specify the same Azure resource group. When you deploy the template to an Azure resource group by using Visual Studio, you're prompted for which logic app you want to open. Also, your Azure resource group project can contain more than one template, so make sure that you select the correct parameters file when prompted.

- Incorrect

Q27) Which of the following is a filter condition supported by Azure Service Bus?

- Queue filters
- ✓ SQL filters

Explanation:-Service Bus supports three filter conditions:

- Boolean filters: TrueFilter and FalseFilter either cause all arriving messages (true) or none of the arriving messages (false) to be selected for the subscription.
- SQL filters: 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), null values (IS NULL), logical NOT/AND/OR, relational operators, simple numeric arithmetic, and simple text pattern matching with LIKE.
- Correlation filters: 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 the following properties:

ContentType

Label

MessageId

ReplyTo

ReplyToSessionId

SessionId

To

Any user-defined properties

- Message filters
- Content filters

Q28) What types of connectors are available in Azure Logic Apps?

- Recurrence
- Trigger
- ✓ Built-in

Explanation:-Connectors are available as built-in triggers and actions or as managed connectors. Built-in triggers and actions are "native" to Azure Logic Apps and help you perform these tasks for your logic apps:

- Run on custom and advanced schedules
- Organize and control a logic app's workflow (for example, loops and conditions) and also work with variables and data operations
- Communicate with other endpoints
- Receive and respond to requests
- Call Azure functions, Azure API apps (web apps), your own APIs managed and published with Azure API Management, and nested logic apps that can receive requests

Managed connectors are deployed and managed by Microsoft. These connectors provide triggers and actions for accessing cloud services, on-premises systems, or both, including Office 365, Azure Blob storage, SQL Server, Dynamics, Salesforce, SharePoint, and more. Some connectors specifically support business-to-business (B2B) communication scenarios and require an integration account that's linked to your logic app. Before using certain connectors, you might have to first create connections, which are managed by Azure Logic Apps.

- ✓ Managed

Explanation:-Connectors are available as built-in triggers and actions or as managed connectors. Built-in triggers and actions are "native" to Azure Logic Apps and help you perform these tasks for your logic apps:

- Run on custom and advanced schedules
- Organize and control a logic app's workflow (for example, loops and conditions) and also work with variables and data operations
- Communicate with other endpoints
- Receive and respond to requests
- Call Azure functions, Azure API apps (web apps), your own APIs managed and published with Azure API Management, and nested logic apps that can receive requests

Managed connectors are deployed and managed by Microsoft. These connectors provide triggers and actions for accessing cloud services, on-premises systems, or both, including Office 365, Azure Blob storage, SQL Server, Dynamics, Salesforce, SharePoint, and more. Some connectors specifically support business-to-business (B2B) communication scenarios and require an integration account that's linked to your logic app. Before using certain connectors, you might have to first create connections, which are managed by Azure Logic Apps.

Q29) What are the methods you would use to create an Azure API Management (APIM) instance?

☒ PowerShell

Explanation:-Azure API Management (APIM) instances can be created using the Azure portal and PowerShell.

☐ Nuget package

☐ .NET SDK

☒ Azure portal

Explanation:-Azure API Management (APIM) instances can be created using the Azure portal and PowerShell.

Q30)

A company is developing a solution that allows smart devices to send 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-AzureRmServiceBusNamespace -ResourceGroup "XYZ-rg" -NamespaceName XYZ -Location WestUS -SkuName "Standard"

☐ New-AzureRmResourceGroup -Name "XYZ-rg" -Location "Central US"

☐ az group create --name "XYZ-rg" --location "Central US"

☒ New-AzureRmServiceBusQueue -ResourceGroupName "XYZ-rg" -NamespaceName XYZ -Name XYZqueue -EnablePartitioning \$False

Explanation:-Since the question already states that we have a resource group and namespace in place, we can just use the "New-AzureRmServiceBusQueue" to create a new queue in the namespace

Q31)

A team needs to create an Azure CosmosDB account and ensure that regional failover's are in place for the account.

Which of the following is a valid CLI command for creation of the CosmosDB account?

☐ az cosmosdb update \

--name "XYZcosmosdb" \

--resource-group "XYZ-rg" \ '--locations 3

☐ az cosmosdb update \

--name "XYZcosmosdb" \

--resource-group "XYZ-rg" \

--locations "South Central US"=3

☒ az cosmosdb update \

--name "XYZcosmosdb" \

--resource-group "XYZ-rg" \

--locations "South Central US"=0 "North Central US"=1 "East US"=2

Explanation:-The Microsoft documentation mentions the correct CLI command to use for ensuring a Cosmos DB account is created in multiple regions

Q32)

A developer has setup a web application in Azure and also setup Azure CDN to route requests to the Web App. One of the requirements is to ensure that if users make requests based on passing an ID parameter, then those requests should always be served from a Point of Presence. An example of the URL is given below https://XYZ.com/Customer.aspx?ID=1

Which of the following mode should be set for the query string setting for the CDN service?

☐ Default setting

☐ Bypass caching

☒ Cache every unique URL

Explanation:-Below are the different settings available for the CDN when it comes to caching of the query string.

Since we need to ensure that query strings are cached, we have to choose the option of 'Cache every unique URL'

☐ Ignore query strings

Q33) A developer needs to run a set of Azure CLI commands to create a virtual machine. You need to complete the below set of commands.

Which of the following would go into Slot1?

☐ group set

☐ vm set

☒ group create

Explanation:-An example of this is given in the Microsoft documentation. The first step is to ensure that you create a resource group via the az group create CLI command

☐ vm create

Q34) A developer needs to run a set of Azure CLI commands to create a virtual machine. You need to complete the below set of commands.

Which of the following would go into Slot2?

☐ vm set

☐ group create

☒ vm create

Explanation:-An example of this is given in the Microsoft documentation. The next step is to ensure that you create the virtual machine via the vm create CLI command

☐ group set

Q35) A developer needs to run a set of Azure CLI commands to create a virtual machine. You need to complete the below set of commands.

Which of the following would go into Slot3?

☐ --edition

☒ --image

Explanation:-Here, we are mentioning that the image name should be Windows Server 2016. An example of this is provided in the Microsoft documentation

☐ --version

☐ --create

Q36) A company is developing an API system that will be hosted behind an Azure API Management service. You have to implement response caching. Here the user ID of the client must be detected and then the response must be cached for the given 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 would you implement the policy for

"A set-variable policy to store the detected user identity"

☒ Inbound

Explanation:-Here since you need to detect the User ID from the request, you need to set the variable in the Input section. An example of this is given in the Microsoft documentation

☐ Outbound

☐ Error

☐ Parameters

Q37) A company is developing an API system that will be hosted behind an Azure API Management service. You have to implement response caching. Here the user ID of the client must be detected and then the response must be cached for the given 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 would you implement the policy for

"A cache-lookup-value policy"

☐ Parameters

☐ Error

☒ Inbound

Explanation:-The configuration is divided into inbound, backend, outbound, and on-error. The series of specified policy statements is executed in order for a request and a response. Source - <https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-policies>

☐ Outbound

Q38) A company is developing an API system that will be hosted behind an Azure API Management service. You have to implement response caching. Here the user ID of the client must be detected and then the response must be cached for the given 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 would you implement the policy for

"A find-and-replace policy to update the response body with the user profile information"

☐ Parameters

☐ Outbound

☐ Error

☒ Inbound

Explanation:-The configuration is divided into inbound, backend, outbound, and on-error. The series of specified policy statements is executed in order for a request and a response. Source - <https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-policies>

Q39) A company has developed an application and deployed it to the Azure App Service. They have defined a scale out condition that will scale the App if the average number of Active messages in a service bus queue is greater than 1000.

You need to ensure that the App service continually scales down with a scale down rule.

The scale rule is given below. You have to choose the right options for the scale rule to ensure the scaling down process occurs.

Which of the following would you choose as the metric source?

☐ Storage queue

☒ Service Bus queue

Explanation:-Since there is already a scale out condition based on the service bus queue, hence we need to ensure that we create a rule for the scale down again based on the service bus queue.

☐ Current resource(demoplan)

☐ Application Insights

Q40) A company has developed an application and deployed it to the Azure App Service. They have defined a scale out condition that will scale the App if the average number of Active messages in a service bus queue is greater than 1000.

You need to ensure that the App service continually scales down with a scale down rule.

The scale rule is given below. You have to choose the right options for the scale rule to ensure the scaling down process occurs.

Which of the following would you choose for the Metric?

- ☐ Incoming requests
- ☒ Count of active messages

Explanation:-Since the metric for the scale out condition is based on the active message count, we need to also ensure that we choose the same metric for the scale down rule. The metric that can be chosen is shown below

- ☐ Successful requests
- ☐ Size

Q41) A company has developed an application and deployed it to the Azure App Service. They have defined a scale out condition that will scale the App if the average number of Active messages in a service bus queue is greater than 1000.

You need to ensure that the App service continually scales down with a scale down rule.

The scale rule is given below. You have to choose the right options for the scale rule to ensure the scaling down process occurs.

Which of the following would you choose as the Time grain statistic?

- ☒ Average

Explanation:-Since the metric for the scale out condition is based on the "average" active message count, we need to also ensure that we choose the same metric for the scale down rule. The metric that can be chosen is shown below

- ☐ Minimum
- ☐ Maximum
- ☐ Sum

Q42) A company has developed an application and deployed it to the Azure App Service. They have defined a scale out condition that will scale the App if the average number of Active messages in a service bus queue is greater than 1000.

You need to ensure that the App service continually scales down with a scale down rule.

The scale rule is given below. You have to choose the right options for the scale rule to ensure the scaling down process occurs.

Which of the following would you choose as the operator for the rule?

- ☐ Equal to
- ☒ Less than or equal to

Explanation:-Since the metric for the scale out condition is based on the number of active message count being greater than 1000, we need to also ensure that we choose the operator as less than or equal to.(Larger image)A company has developed an application and deployed it to the Azure App Service. They have defined a scale out condition that will scale the App if the average number of Active messages in a service bus queue is greater than 1000.

You need to ensure that the App service continually scales down with a scale down rule.

The scale rule is given below. You have to choose the right options for the scale rule to ensure the scaling down process occurs.

An example of this is shown below

- ☐ Greater than
- ☐ Less than

Q43) A company is planning on developing a web app and deploying it to Azure. It will be based on .Net Core. They are also planning on using Application Insights on gaining a deeper understanding on the usage of the Web application by users when it goes to production. They have the following requirements

- They need to know if most customers are progressing through the entire process in the application, or if they are ending the process at some point.
- Is page load time impacting how many people convert on my page
- Analyze how many users return to your app, and how often they perform particular tasks or achieve goals.
- Show how users navigate between the pages and features of your site

Which of the following Application Insight feature would they use for the requirement

"They need to know if most customers are progressing through the entire process in the application, or if they are ending the process at some point."

- ☒ Funnel

Explanation:-This is clearly mentioned in the documentation

- ☐ Impact
- ☐ Retention
- ☐ User Flows

Q44) Which of the following is an advantage of using bindings in your Azure Functions to access data sources and data sinks?

- ☒ They simplify the connection process; you don't need to code specific connection logic.
- ☐ They let you connect to Azure resources without authentication.
- ☐ They provide access to more data sources than are available using code.

Q45) How many triggers must a function have?

- ☒ One
- ☐ Zero
- ☐ Two

Q46) Which of the following best describes the role of the Orchestrator function in a workflow?

- ☒ It's used for describing how actions are executed and the order in which actions are executed.
- ☐ It's the entry point for creating an instance of a Durable Functions orchestration.
- ☐ It's used as the basic unit of work (actions and tasks) in a durable function orchestration.

Q47) What is an Azure SQL logical server?

- ☐ A server that defines the logical rules that sort and compare data.
- ☐ Another name for an Azure SQL database instance.
- ☒ An administrative container for your databases.

Q48) Which of the following best defines serverless logic?

- ☒ Code you write that runs on servers a cloud provider manages.
- ☐ Code you write that runs on servers you manage.
- ☐ Code you write that doesn't run on servers.

Q49) The container that groups functions into a logical unit for easier management, deployment, and sharing of resources is called?

- ☐ Function collection
- ☒ Function app
- ☐ Resource group

Q50)

We secured our function against unknown HTTP callers by requiring a function-specific API key be passed with each call.

Which of the following fields is the name header in the HTTP requests that needs to contain this key?

- ☐ x-requested-with
- ☒ x-functions-key
- ☐ x-csrf-token

Q51)

A CRON expression is a string that consists of six fields that represent a set of times.

The order of the six fields in Azure is: {second} {minute} {hour} {day} {month} {day of the week}.

Suppose you needed a CRON expression that meant "every day", what special character would you put in the {day of the week} position?

- ☐ -
- ☐ ,
- ☒ *
- ☐ /

Q52)

Suppose your Azure Function has a blob trigger associated with it and you want it to execute only when images are uploaded.

Which of the following blob trigger Path values should you use?

- ☒ samples-workitems/{name}.png
- ☐ samples-workitems/{name}?png
- ☐ samples-workitems/{name}/png
- ☐ samples-workitems/{name}

Q53) Correct or Incorrect: an Azure Function can have multiple triggers associated with it?

- ☒ Incorrect
- ☐ Correct

Q54) What do you need to install on your machine to let you execute Azure CLI commands locally?

- ☐ The Azure CLI and Azure PowerShell
- ☐ The Azure cloud shell
- ☒ Only the Azure CLI

Q55) What is the name of the file that contains function configuration data?

- ☒ function.json
 - ☐ config.json
 - ☐ config.txt
-

Q56)

Your Azure SQL database provides adequate storage and compute power. But you find that you need additional IO throughput.

Which performance model might you use?

- ☐ SQL elastic pool
- ☒ vCore
- ☐ DTU
- ☐ None of these

Q57) By default, how many partitions will a new Event Hub have?

☒ 4

Explanation:-So we have decided to change these defaults. Effective today the minimum partition count for an Event Hub will be lowered to two (2) partitions. The default will be lowered to four (4) partitions. Source - <https://techcommunity.microsoft.com/t5/messaging-on-azure/update-to-default-partition-count-for-event-hubs/ba-p/370667>

- ☐ 3
- ☐ 2
- ☐ 1

Q58) Applications that publish messages to Azure Event Hub very frequently will get the best performance using Advanced Message Queuing Protocol (AMQP) because it establishes a persistent socket.

- ☐ Incorrect
- ☒ Correct

Q59) Correct or Incorrect: when a client programmatically retrieves a message from a queue, the message is automatically deleted from the queue?

- ☒ Incorrect
- ☐ Correct

Q60) What information uniquely identifies a queue?

- ☒ Storage account name and queue name
- ☐ Account key
- ☐ Queue name

Q61)

Suppose you work for a government agency that plans the long-term expansion of the highway system. You receive traffic data from thousands of sensors and analyze it to make your recommendations.

The amount of incoming data varies throughout the day; for example, it spikes during the morning and evening commuting hours.

Correct or Incorrect: a server-side architecture consisting of an Azure Queue connected to a single virtual machine is a reasonable choice for this workload?

☒ Incorrect

Explanation:-Azure Queue Storage is a service for storing large numbers of messages. You access messages from anywhere in the world via authenticated calls using HTTP or HTTPS. A queue message can be up to 64 KB in size. A queue may contain millions of messages, up to the total capacity limit of a storage account. Queues are commonly used to create a backlog of work to process asynchronously. Source - <https://docs.microsoft.com/en-us/azure/storage/queues/storage-queues-introduction>

- ☐ Correct

Q62) Correct or Incorrect: you can add a message to an Azure Service Bus queue that is 2 MB in size.

☒ Incorrect

Explanation:-Maximum message size: 256 KB for Standard tier, 1 MB for Premium tier. Source - <https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-quotas>

- ☐ Correct

Q63)

Suppose you're sending a message with Azure Service Bus and you want multiple components to receive it.

Which Azure Service Bus exchange feature should you use?

- ☐ Relay
- ☒ Topic
- ☐ Queue

Q64) Which of the following queues should you use if you need first-in-first-out order and support for transactions?

☒ Azure Service Bus queues

Q65) Which of the following best explains why the Human Interaction application pattern benefits from Durable Functions?

✔ A manual process within an automated process is tricky because people aren't as highly available and as responsive as computers.

Explanation:-Orchestrator functions can wait for external events to update an orchestration instance. This Durable Functions feature often is useful for handling a human interaction or other external callbacks. Refer: <https://docs.microsoft.com/en-us/azure/azure-functions/durable/durable-functions-orchestrations?tabs=csharp>

- It addresses the problem of coordinating the state of long-running operations with external clients.
- It allows the output from one function to be applied to input of the next function in a series of function calls.

Q66)

A SQL Server database is needed for a short-term project. The IT department does not have available hardware that meets the performance requirements or resources to deploy it. The project starts next week. Once the project is over, the database is no longer needed.

Which cloud service model would be the best match for the following situation?

- SaaS
- ✔ PaaS
- IaaS

Q67)

You create several virtual machines in the cloud. The VMs are networked together using a virtual network. The VMs have access to x-ray image files in cloud storage.

One virtual machine is a web server that hosts a website exposed to the internet for customers to access their records.

There is a VPN that connects the solution to your on-premises datacenter for customer information to display with the image files.

Which cloud service model is described in the following scenario?

- SaaS
- PaaS
- ✔ IaaS

Q68) Who's responsible for performing software updates on your Azure SQL databases and the underlying OS?

- No one. Your database stays with its original OS and software configuration.
- ✔ Microsoft Azure. Azure manages the hardware, software updates, and OS patches for you.
- You are. It's up to you to periodically log in and install the latest security patches and updates.

Q69) What is the effect of the default network security settings for a new virtual machine?

- There are no restrictions: all outbound and inbound requests are allowed.
- ✔ Outbound request are allowed. Inbound traffic is only allowed from within the virtual network.

Explanation:-All NSGs contain a set of default rules. The default rules can't be deleted, but because they are assigned the lowest priority, they can be overridden by the rules that you create. Virtual network - Traffic originating and ending in a virtual network is allowed both in inbound and outbound directions. Internet - Outbound traffic is allowed, but inbound traffic is blocked. Load balancer - Allow Azure's load balancer to probe the health of your VMs and role instances. If you are not using a load balanced set, you can override this rule. Refer: <https://docs.microsoft.com/en-us/azure/virtual-machines/windows/tutorial-virtual-network>

- Neither outbound nor inbound requests are allowed.

Q70) Correct or Incorrect: The Azure Database for PostgreSQL server firewall permits connections from any remote computer by default.

- ✔ Incorrect
- Correct

Q71)

Suppose you would like to set a retention period of 30 days for the data backups of your PostgreSQL database.

How do you enable that?

- Run a script each day that removes backups that are older than 30 days.
- Install the retention extension.
- ✔ Specify the retention period when you create your server.

Q72) Say you need 10 PostgreSQL databases to support a number of projects. Which is the easiest way to create and manage all of them?

- ✔ Using the Azure CLI.
- Using the portal.

Q73) Which of the following is the most efficient way to secure a database to allow only access from a VNet while restricting access from the internet?

- ☒ A server-level virtual network rule

Explanation:-Virtual network rules are one firewall security feature that controls whether the server for your databases and elastic pools in Azure SQL Database or for your databases in Azure Synapse accepts communications that are sent from particular subnets in virtual networks. Source - <https://docs.microsoft.com/en-us/azure/azure-sql/database/vnet-service-endpoint-rule-overview>

- ☐ A server-level IP address rule
- ☐ An allow access to Azure services rule
- ☐ A database-level IP address rule

Q74)

A mask has been applied to a column in the database that holds a user's email address, `laura@contoso.com`.

From the list of options, what would the mask display for a database administrator account?

- ☐ Data not available
- ☒ `laura@contoso.com`
- ☐ `laura@xxxxxxx.com`
- ☐ `lxxx@xxxx.com`

Q75) Transparent Data Encryption will encrypt which database files?

- ☐ Backup files only
- ☐ Log files and backup files only
- ☐ Database files only
- ☒ Database files, log files, and backup files

Q76) Is encrypted communication turned on automatically when connecting to an Azure SQL Server?

- ☐ Incorrect
- ☒ Correct

Q77) Suppose you want to run a network appliance on a virtual machine. Which workload option should you choose?

- ☐ Storage optimized
- ☐ Memory optimized
- ☒ Compute optimized
- ☐ General purpose

Q78) What is Durable Functions?

- ☐ Durable Functions is a serverless compute service that enables you to run code on-demand without having to explicitly provision or manage infrastructure.
- ☐ Durable Functions is a logical container for a single workflow that you define using triggers and actions.
- ☒ Durable Functions is an extension of Azure Functions, that allow you to simplify complex stateful executions in a serverless-environment

Q79) Correct or Incorrect: Resource Manager templates are JSON files?

- ☐ Incorrect
- ☒ Correct

Q80) What's the role of AngularJS in the MEAN stack?

- ☐ It's a browser plugin that gets installed on your user's computer.
- ☒ AngularJS implements data binding for HTML and JavaScript. For example, you can use AngularJS to retrieve items from a database and display those items in the UI.
- ☐ It helps run the web application from the server side.

Q81) What's a NoSQL database?

- ☐ It's a kind of relational database, but doesn't use the SQL language to access and manipulate data.
- ☒ It's a database that doesn't require data to be structured in a pre-defined way.
- ☐ It's a term used to describe any free, open-source database software.

Q82) Which is a good reason to pick MEAN for your development stack?

- ☒ Everyone on your development team is an expert with JavaScript.
- ☐ MEAN apps run faster than ones created with other development stacks.
- ☐ You're working with highly structured, relational data.

Q83) What is the final rule that is applied in every Network Security Group?

- ☐ You configure the final rule to your needs
 - ☒ Deny All
 - ☐ Allow All
-

Q84)

Suppose you have an application running on a Windows virtual machine in Azure.

What is the best-practice guidance on where the app should store data files?

- ☒ An attached data disk
 - ☐ The Temporary disk (D:)
 - ☐ The OS disk (C:)
-

Q85) When creating a Windows virtual machine in Azure, which port would you open using the INBOUND PORT RULES in order to allow remote-desktop access?

- ☒ RDP (3389)
 - ☐ SSH (22)
 - ☐ HTTPS
-

Q86)

Suppose you have several Linux virtual machines hosted in Azure. You will administer these VMs remotely over SSH from three dedicated machines in your corporate headquarters.

Which of the following authentication methods would typically be considered best-practice for this situation?

- ☒ Private key with passphrase
 - ☐ Private key
 - ☐ Username and password
-

Q87) Correct or Incorrect: for security reasons, you must use an image from the official Azure Marketplace when creating a new virtual machine.

- ☒ Incorrect
 - ☐ Correct
-

Q88)

You work at a start-up company with a small number of employees who need to collaborate.

They need email, calendar scheduling, and somewhere to store documents. The team is technical but do not have the time or hardware to implement and manage a solution.

Which cloud service model would be the best match for the following situation?

- ☒ SaaS
 - ☐ PaaS
 - ☐ IaaS
-