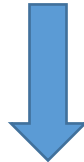


Microsoft Azure Certification AZ-203 Exam



- **Vendor: Microsoft**
- **Exam Code: AZ-203**
- **Exam Name: Developing Solutions for Microsoft Azure**

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NEW QUESTION 1

Margie's Travel is an international travel and bookings management service. The company is expanding into restaurant bookings. You are tasked with implementing Azure Search for the restaurants listed in their solution. You create the index in Azure Search. You need to import the restaurant data into the Azure Search service by using the Azure Search NET SDK.

Solution:

1. Create a SearchIndexClient object to connect to the search index.
2. Create an IndexBatch that contains the documents which must be added.
3. Call the DocumentsIndex method of the SearchIndexClient and pass the IndexBatch.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 2

You are developing a software solution for an autonomous transportation system. The solution uses large data sets and Azure Batch processing to simulate navigation sets for entire fleets of vehicles. You need to create compute nodes for the solution on Azure Batch. What should you do?

- A. In Python, implement the class: TaskAddParameter.
- B. In Python, implement the class: JobAddParameter.
- C. In the Azure portal, create a Batch account.
- D. In a .NET method, call the method: batchClient.PoolOperations.CreatePool.

Answer: A

NEW QUESTION 3

You are creating a hazard notification system that has a single signaling server which triggers audio and visual alarms to start and stop. You implement Azure Service Bus to publish alarms. Each alarm controller uses Azure Service Bus to receive alarm signals as part of a transaction. Alarm events must be recorded for audit purposes. Each transaction record must include information about the alarm type that was activated. You need to implement a reply trail auditing solution. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Assign the value of the hazard message SessionID property to the SequenceNumber property.
- B. Assign the value of the hazard message SequenceNumber property to the DeliveryCount property.
- C. Assign the value of the hazard message MessageId property to the DeliveryCount property.
- D. Assign the value of the hazard message SessionID property to the ReplyToSessionId property.
- E. Assign the value of the hazard message MessageId property to the SequenceNumber property.
- F. Assign the value of the hazard message MessageId property to the CorrelationId property.

Answer: AB

NEW QUESTION 4

You provide an Azure API Management managed web service to clients. The back end web service implements HTTP Strict Transport Security (HSTS). Every request to the backend service must include a valid HTTP authorization header. You need to configure the Azure API Management instance with an authentication policy. Which two policies can you use? (Each correct answer presents a complete solution. Choose two.)

- A. Certificate Authentication
- B. Basic Authentication
- C. OAuth Client Credential Grant
- D. Digest Authentication

Answer: AC

NEW QUESTION 5

You are developing a project management service by using ASP.NET. The service hosts conversations, files, to-do lists, and a calendar that users can interact with at any time. The application uses Azure Search for allowing users to search for keywords in the project data. You need to implement code that creates the object which is used to create indexes in the Azure Search service. Which two objects should you use? (Each correct answer presents part of the solution. Choose two.)

- A. SearchService
- B. SearchIndexClient
- C. SearchServiceClient
- D. SearchCredentials

Answer: CD

NEW QUESTION 6

You must implement Application Insights instrumentation capabilities utilizing the Azure Mobile Apps SDK to provide meaningful analysis of user interactions with a mobile app. You need to capture the data required to implement the Usage Analytics feature of Application Insights. Which three data values should you capture? (Each correct answer presents part of the solution. Choose three.)

- A. Session ID
- B. Events
- C. User ID
- D. Exception
- E. Trace

Answer: ABC

NEW QUESTION 7

You need to meet the LabelMaker security requirement. What should you do?

- A. Create a conditional access policy and assign it to the Azure Kubernetes Service cluster.
- B. Place the Azure Active Directory account into an Azure AD group.
Create a ClusterRoleBinding and assign it to the group.
- C. Create a Microsoft Azure Active Directory service principal and assign it to the Azure Kubernetes Service (AKS) cluster.
- D. Create a RoleBinding and assign it to the Azure AD account.

Answer: D

NEW QUESTION 8

You develop an Azure web app. You monitor performance of the web app by using Application Insights. You need to ensure the cost for Application Insights does not exceed a preset budget. What should you do?

- A. Implement ingestion sampling using the Azure portal.
- B. Set a daily cap for the Application Insights instance.
- C. Implement adaptive sampling using the Azure portal.
- D. Implement adaptive sampling using the Application Insights SDK.
- E. Implement ingestion sampling using the Application Insights SDK.

Answer: B

NEW QUESTION 9

HotSpot

A company is developing a gaming platform. Users can join teams to play online and see leaderboards that include player statistics. The solution includes an entity named Team. You plan to implement an Azure Redis Cache instance to improve the efficiency of data operations for entities that rarely change. You need to invalidate the cache when team data is changed. How should you complete the code? (To answer, select the appropriate options in the answer area.)

Answer Area

```
void ClearCachedTeams()
{
  [Database cache = Connection.GetDatabase();
  ICache cache = Connection.GetDatabase();
  cache.KeyDelete("teams");
  cache.StringSet("teams", "");
  cache.ValueDelete("teams");
  cache.StringGet("teams", "");
}
```

Answer:

Answer Area

```
void ClearCachedTeams()
{
  IDatabase cache = Connection.GetDatabase();
  ICache cache = Connection.GetDatabase();
  cache.KeyDelete("teams");
  cache.StringSet("teams", "");
  cache.ValueDelete("teams");
  cache.StringGet("teams", "");
}
```

NEW QUESTION 10

Drag and Drop

You develop software solutions for a mobile delivery service. You are developing a mobile app that users can use to order from a restaurant in their area. The app uses the following workflow:

1. A driver selects the restaurants for which they will deliver orders.
2. Orders are sent to all available drivers in an area.
3. Only orders for the selected restaurants will appear for the driver.
4. The first driver to accept an order removes it from the list of available orders.

You need to implement an Azure Service Bus solution. Which three actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Actions	Answer area
Create a Service Bus topic for each restaurant for which a driver can receive messages.	
Create a single Service Bus topic.	
Create a single Service Bus subscription.	
Create a single Service Bus Namespace.	
Create a Service Bus Namespace for each restaurant for which a driver can receive messages.	
Create a Service Bus subscription for each restaurant for which a driver can receive orders.	

Answer:

Actions	Answer area
Create a Service Bus topic for each restaurant for which a driver can receive messages.	Create a single Service Bus topic.
Create a single Service Bus topic.	
Create a single Service Bus subscription.	Create a Service Bus Namespace for each restaurant for which a driver can receive messages.
Create a single Service Bus Namespace.	Create a Service Bus topic for each restaurant for which a driver can receive messages.
Create a Service Bus Namespace for each restaurant for which a driver can receive messages.	
Create a Service Bus subscription for each restaurant for which a driver can receive orders.	

Case Study 1 - Coho Winery

Coho Winery produces, bottles, and distributes a variety of wines globally. You are a developer implementing highly scalable and resilient applications to support online order processing by using Azure solutions. Coho Winery has a LabelMaker application that prints labels for wine bottles. The application sends data to several printers. The application consists of five modules that run independently on virtual machines (VMs). Coho Winery plans to move the application to Azure and continue to support label creation.

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NEW QUESTION 51

You need to meet the security requirements for the E-Commerce Web App. Which two steps should you take? (Each correct answer presents part of the solution. Choose two.)

- A. Create an Azure AD service principal.
- B. Enable Managed Service Identity (MSI) on the E-Commerce Web App.
- C. Add a policy to the Azure Key Vault to grant access to the E-Commerce Web App.
- D. Update the E-Commerce Web App with the service principal's client secret.

Answer: CD

NEW QUESTION 52

You need to provision and deploy the order workflow. Which three components should you include? (Each correct answer presents part of the solution. Choose three.)

- A. Workflow definition
- B. Connections
- C. Resources
- D. Functions
- E. On-premises Data Gateway

Answer: CDE

NEW QUESTION 53

You need to meet the LabelMaker application security requirement.

Solution:

1. Place the Azure Active Directory account into an Azure AD group.
2. Create a ClusterRoleBinding and assign it to the group.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

In the scenario of this case: the LabelMaker applications must be secured by using an AAD account that has full access to all namespaces of the Azure Kubernetes Service (AKS) cluster. Permissions can be granted within a namespace with a RoleBinding, or cluster-wide with a ClusterRoleBinding. <https://kubernetes.io/docs/reference/access-authn-authz/rbac/>

NEW QUESTION 54

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Case Study 2 - Litware, Inc.

You are a developer for Litware, Inc., which is a SaaS company that provides a solution for managing employee expenses. The solution consists of an ASP.NET Core Web API project that is deployed as an Azure Web App.

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NEW QUESTION 66

You need to ensure that the SecurityPin security requirements are met.

Solution:

1. Enable Always Encrypted for the SecurityPin column using a certificate based on a trusted certificate authority.
2. Update the Getting Started document with instructions to ensure that the certificate is installed on user machines.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 67

You need to resolve the log capacity issue. What should you do?

- A. Implement Application Insights Sampling.
- B. Change the minimum log level in the host.json file for the function.
- C. Create an Application Insights Telemetry Filter.

D. Set a LogCategoryFilter during startup.

Answer: A

NEW QUESTION 68

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Case Study 3 - Proseware, Inc.

You are a developer for Proseware, Inc. You are developing an application that applies a set of governance policies for Proseware's internal services, external services, and applications. The application will also provide a shared library for common functionality.

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NEW QUESTION 71

You need to ensure that authentication events are triggered and processed according to the policy. Solution: Create separate Azure Event Grid topics and subscriptions for sign-in and sign-out events. Does the solution meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 72

You need to resolve a notification latency issue. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Ensure that the Azure Function is using an App Service plan.
- B. Set Always On to false.
- C. Ensure that the Azure Function is set to use a consumption plan.
- D. Set Always On to true.

Answer: AD

Explanation:

Azure Functions can run on either a Consumption Plan or a dedicated App Service Plan. If you run in a dedicated mode, you need to turn on the Always On setting for your Function App to run properly. The Function runtime will go idle after a few minutes of inactivity, so only HTTP triggers will actually "wake up" your functions. This is similar to how WebJobs must have Always On enabled.

<https://github.com/Azure/Azure-Functions/wiki/Enable-Always-On-when-running-on-dedicated-App-Service-Plan>

NEW QUESTION 73

You need to ensure that the solution can meet the scaling requirements for Policy Service. Which Azure Application Insights data model should you use?

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

Answer: D

NEW QUESTION 74

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Case Study 4 - Best for You Organics Company

Best for You Organics Company is a global restaurant franchise that has multiple locations. The company wants to enhance user experiences and vendor integrations. The company plans to implement automated mobile ordering and delivery services.

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NEW QUESTION 86

You need to meet the vendor notification requirement.

Solution: Update the Delivery API to send emails by using a cloud-based email service.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 87

You need to update the chatbot to greet the user when they sign in. Which two rich card formats can you use? (Each correct answer presents a complete solution. Choose two.)

- A. Thumbnail
- B. Adaptive
- C. Sign-in
- D. Hero
- E. Animation

Answer: AC

NEW QUESTION 88

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NEW QUESTION 139

You are developing a solution that will be deployed to an Azure Kubernetes Service (AKS) cluster. The solution will include a custom VNet, Azure Container Registry images, and an Azure Storage account. The solution must allow dynamic creation and management of all Azure resources within the AKS cluster. You need to configure an AKS cluster for use with the Azure APIs.

Solution: Enable the Azure Policy Add-on for Kubernetes to connect the Azure Policy service to the GateKeeper admission controller for the AKS cluster. Apply a built-in policy to the cluster.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

<https://docs.microsoft.com/en-us/azure/aks/use-network-policies>

NEW QUESTION 140

You are developing a solution that will be deployed to an Azure Kubernetes Service (AKS) cluster. The solution will include a custom VNet, Azure Container Registry images, and an Azure Storage account. The solution must allow dynamic creation and management of all Azure resources within the AKS cluster. You need to configure an AKS cluster for use with the Azure APIs.

Solution: Create an AKS cluster that supports network policy. Create and apply a network to allow

traffic only from within a defined namespace.
Does the solution meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

When you run modern, microservices-based applications in Kubernetes, you often want to control which components can communicate with each other. The principle of least privilege should be applied to how traffic can flow between pods in an Azure Kubernetes Service (AKS) cluster. Let's say you likely want to block traffic directly to back-end applications. The Network Policy feature in Kubernetes lets you define rules for ingress and egress traffic between pods in a cluster.

<https://docs.microsoft.com/en-us/azure/aks/use-network-policies>

NEW QUESTION 141

You are developing and deploying several ASP.Net web applications to Azure App Service. You plan to save session state information and HTML output. You must use a storage mechanism with the following requirements:

- Share session state across all ASP.NET web applications
- Support controlled, concurrent access to the same session state data for multiple readers and a single writer
- Save full HTTP responses for concurrent requests

You need to store the information.

Proposed Solution: Deploy and configure an Azure Database for PostgreSQL. Update the web applications.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

The worst solution from a performance and scalability standpoint is to use a database backed session state provider. Instead use Azure Cache for Redis.

NEW QUESTION 142

You are developing and deploying several ASP.Net web applications to Azure App Service. You plan to save session state information and HTML output. You must use a storage mechanism with the following requirements:

- Share session state across all ASP.NET web applications
- Support controlled, concurrent access to the same session state data for multiple readers and a single writer
- Save full HTTP responses for concurrent requests

You need to store the information.

Proposed Solution: Deploy and configure Azure Cache for Redis. Update the web applications.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

Azure Cache for Redis provides a session state provider that you can use to store your session

state in memory with Azure Cache for Redis instead of a SQL Server database. To use the caching session state provider, first configure your cache, and then configure your ASP.NET application for cache using the Azure Cache for Redis Session State NuGet package.

<https://docs.microsoft.com/en-us/azure/azure-cache-for-redis/cache-aspnet-session-stateprovider>

NEW QUESTION 143

You are developing an Azure solution to collect point-of-sale (POS) device data from 2,000 stores located throughout the world. A single device can produce 2 megabytes (MB) of data every 24 hours. Each store location has one to five devices that send data. You must store the device in Azure Blob storage. Device data must be correlated based on a device identifier. Additional stores are expected to open in the future. You need to implement a solution to receive the device data.

Solution: Provision an Azure Event Hub. Configure the machine identifier as the partition key and enable capture.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

<https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-programming-guide>

NEW QUESTION 144

You are developing an Azure solution to collect point-of-sale (POS) device data from 2,000 stores located throughout the world. A single device can produce 2 megabytes (MB) of data every 24 hours. Each store location has one to five devices that send data. You must store the device in Azure Blob storage. Device data must be correlated based on a device identifier. Additional stores are expected to open in the future. You need to implement a solution to receive the device data.

Solution: Provision an Azure Event Grid. Configure event filtering to evaluate the device identifier.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

<https://docs.microsoft.com/en-us/azure/event-grid/event-filtering>

NEW QUESTION 145

You are developing an Azure Cosmos DB solution by using the Azure Cosmos DB SQL API. The data includes millions of documents. Each document may contain hundreds of properties. The properties of the documents do not contain distinct values for partitioning. Azure Cosmos DB must scale individual containers in the database to meet the performance needs of the application by spreading the workload evenly across all partitions over time. You need to select a partition key. Which two partition keys can you use? (Each correct answer presents a complete solution. Choose two.)

- A. a concatenation of multiple property values with a random suffix appended
- B. a single property value that does not appear frequently in the documents
- C. a hash suffix appended to a property value
- D. a value containing the collection name
- E. a single property value that appears frequently in the documents

Answer: AC

Explanation:

You can form a partition key by concatenating multiple property values into a single artificial partitionKey property. These keys are referred to as synthetic keys. Another possible strategy to distribute the workload more evenly is to append a random number at the end of the partition key value. When you distribute items in this way, you can perform parallel write operations across partitions.

Note: It's the best practice to have a partition key with many distinct values, such as hundreds or thousands. The goal is to distribute your data and workload evenly across the items associated with these partition key values. If such a property doesn't exist in your data, you can construct a synthetic partition key.

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

NEW QUESTION 146

Drag and Drop

You are preparing to deploy an Azure virtual machine (VM)-based application. The VMs that run the application have the following requirements:

- When a VM is provisioned the firewall must be automatically configured before it can access Azure resources
- Supporting services must be installed by using an Azure PowerShell script that is stored in Azure Storage

You need to ensure that the requirements are met. Which features should you use? (To answer, drag the appropriate features to the correct requirements. Each feature may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Features	Answer Area	
	Requirement	Feature
Run Command	Firewall configuration	<input type="text"/>
Serial console	Supporting services script	<input type="text"/>
Hybrid Runbook Worker		
Custom Script Extension		

Answer:

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

Explanation:

<https://docs.microsoft.com/en-us/azure/automation/automation-hybrid-runbook-worker>

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

NEW QUESTION 147

HotSpot

You are configuring a development environment for your team. You deploy the latest Visual Studio image from the Azure Marketplace to your Azure subscription. The development environment requires several software development kits (SDKs) and third-party components to support application development across the organization. You install and customize the deployed virtual machine (VM) for your development team. The customized VM must be saved to allow provisioning of a new team member development environment. You need to save the customized VM for future provisioning. Which tools or services should you use? (To answer, select the appropriate options in the answer area.)

Answer Area

Action	Tool or service
Generalize the VM.	<div style="border: 1px solid black; padding: 5px;"> <div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <ul style="list-style-type: none"> Azure Power Shell Visual Studio command prompt Azure Migrate Azure Backup </div>
Store images.	<div style="border: 1px solid black; padding: 5px;"> <div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <ul style="list-style-type: none"> Azure Blob Storage Visual Data Lake Storage Azure File Storage Azure Table Storage </div>

Answer:

Answer Area

Action	Tool or service
Generalize the VM.	<div style="border: 1px solid black; padding: 5px;"><div style="background-color: #f0f0f0; padding: 2px; margin-bottom: 2px;">▼</div><div style="background-color: #d9ead3; padding: 2px; margin-bottom: 2px;">Azure Power Shell</div><div style="padding: 2px; margin-bottom: 2px;">Visual Studio command prompt</div><div style="padding: 2px; margin-bottom: 2px;">Azure Migrate</div><div style="padding: 2px;">Azure Backup</div></div>
Store images.	<div style="border: 1px solid black; padding: 5px;"><div style="background-color: #f0f0f0; padding: 2px; margin-bottom: 2px;">▼</div><div style="background-color: #d9ead3; padding: 2px; margin-bottom: 2px;">Azure Blob Storage</div><div style="padding: 2px; margin-bottom: 2px;">Visual Data Lake Storage</div><div style="padding: 2px; margin-bottom: 2px;">Azure File Storage</div><div style="padding: 2px;">Azure Table Storage</div></div>

Explanation:

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

NEW QUESTION 148

A team has created an Index in the Azure Search service. You have to upload data into the Index. You propose the following steps to carry out from your .Net program:

- Create a SearchServiceClient object to connect to the search index.
- Create a DataContainer that contains the documents which must be added.
- Create a DataSource instance and set its Container property to the DataContainer.
- Set the DataSource property of the SearchServiceClient.

Does the list of steps fulfil the requirement?

- A. Yes
- B. No

Answer: B

Explanation:

<https://docs.microsoft.com/en-us/azure/search/search-what-is-azure-search#how-to-use-azure-search>

NEW QUESTION 149

A team has created an Index in the Azure Search service. You have to upload data into the Index. You propose the following steps to carry out from your .Net program:

- Create a SearchIndexClient object to connect to the search index.
- Create an IndexBatch that contains the documents which must be added.
- Call the Documents.Index method of the SearchIndexClient and pass the IndexBatch.

Does the list of steps fulfil the requirement?

- A. Yes
- B. No

Answer: A

Explanation:

<https://docs.microsoft.com/en-us/azure/search/search-import-data-dotnet>

NEW QUESTION 150

A team is developing container-based applications that need to be deployed to a Kubernetes cluster in Azure. You have to create the cluster and ensure the services are running as desired. Which of the following commands would you execute? (Choose four.)

- A. az aks create
- B. az group create
- C. kubectl apply
- D. az appservice plan create
- E. az aks get-credentials

Answer: ABCE

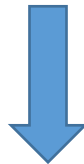
Explanation:

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

NEW QUESTION 151

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