Exam Questions AZ-301
Microsoft Azure Architect Design
NEW QUESTION 1
- (Exam Topic 1)
To meet the authentication requirements of Fabrikam, what should you include in the solution? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 2
- (Exam Topic 1)
You need to recommend a strategy for the web tier of WebApp1. The solution must minimize

What should you recommend?

A. Create a runbook that resizes virtual machines automatically to a smaller size outside of business hours.
B. Configure the Scale Up settings for a web app.
C. Deploy a virtual machine scale set that scales out on a 75 percent CPU threshold.
D. Configure the Scale Out settings for a web app.

Answer: D

NEW QUESTION 3
- (Exam Topic 2)
You have 100 servers that run Windows Server 2012 R2 and host Microsoft SQL Server 2012 R2 instances. The instances host databases that have the following characteristics:

The largest database is currently 3 TB. None of the databases will ever exceed 4 TB.
Stored procedures are implemented by using CLR.
You plan to move all the data from SQL Server to Azure.
You need to recommend an Azure service to host the databases. The solution must meet the following requirements:
Whenever possible, minimize management overhead for the migrated databases.
Minimize the number of database changes required to facilitate the migration.
Ensure that users can authenticate by using their Active Directory credentials.
What should you include in the recommendation?

A. Azure SQL Database single databases
B. Azure SQL Database Managed Instance
C. Azure SQL Database elastic pools
D. SQL Server 2016 on Azure virtual machines

Answer: B

Explanation:

References:
NEW QUESTION 4
- (Exam Topic 2)
You use Azure virtual machines to run a custom application that uses an Azure SQL database on the back end. The IT apartment at your company recently enabled forced tunneling.
Since the configuration change, developers have noticed degraded performance when they access the database.
You need to recommend a solution to minimize latency when accessing the database. The solution must minimize costs.
What should you include in the recommendation?

A. Azure SQL Database Managed instance
B. Azure virtual machines that run Microsoft SQL Server servers
C. Always On availability groups
D. virtual network service endpoint

Answer: D

NEW QUESTION 5
- (Exam Topic 2)
Your company has 300 virtual machines hosted in a VMWare environment. The virtual machines vary in size and have various utilization levels.
You need to recommend how many and what size Azure virtual machines will be required to move the current workloads to Azure. The solution must minimize administrative effort.
What should you use to make the recommendation?

A. Azure Cost Management
B. Azure Migrate
C. Azure pricing calculator
D. Azure Advisor recommendations

Answer: A

NEW QUESTION 6
- (Exam Topic 2)
You need to recommend a solution that meets the following requirements:
Outbound traffic to the Internet from workloads hosted on the virtual networks must be routed through the closest available on-premises site.
If an on-premises site fails, traffic from the workloads on the virtual networks to the Internet must reroute automatically to the other site.
What should you include in the recommendation? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Routing from the virtual networks to the on-premises locations must be configured by using:

- Azure default routes
- Border Gateway Protocol (BGP)
- User-defined routes

The automatic routing configuration following a failover must be handled by using:

- Border Gateway Protocol (BGP)
- Hot Standby Routing Protocol (HSRP)
- Virtual Router Redundancy Protocol (VRRP)

A. Mastered
B. Not Mastered

Answer: A

Explanation:
NEW QUESTION 7
- (Exam Topic 2)
You are planning to deploy an application by using the Azure Kubernetes Services (AKS). The application will rely on having access to an encryption key that will be used to transmit files. What should you use to provide the encryption key AKS security?

A. secrets
B. Azure Storage Service Encryption
C. a Kubernetes deployment YAML file
D. ConfigMap

Answer: C

NEW QUESTION 8
- (Exam Topic 2)
You are designing an Azure solution for a company that wants to move a .NET Core web application to an on-premises data center to Azure. The web application relies on a Microsoft SQL Server 2016 database on Windows Server 2016. The database server will not move to Azure. A separate networking team is responsible for configuring network permissions. The company uses Azure ExpressRoute and has an ExpressRoute gateway connected to an Azure virtual network named VNET1. You need to recommend a solution for deploying the web application. Solution: Deploy the web application to a web app hosted in an Isolated App Service plan on VNET1. Does this meet the goal?

A. Yes
B. No

Answer: B

NEW QUESTION 9
- (Exam Topic 2)
You have an on-premises network that uses an IP address space of 172.16.0.0/16. You plan to deploy 25 virtual machines to a new azure subscription. You identify the following technical requirements.

All Azure virtual machines must be placed on the same subnet, subnet1.
All the Azure virtual machines must be able to communicate with all on-premises servers.
The servers must be able to communicate between the on-premises network and Azure by using a site to site VPN.
You need to recommend a subnet design that meets the technical requirements.

What should you include in the recommendation? To answer, drag the appropriate network addresses to the correct subnet. Each network address may be used once, more than once or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

A. Mastered
NEW QUESTION 10
- (Exam Topic 2)
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You need to deploy resources to host a stateless web app in an Azure subscription. The solution must meet the following requirements:
• Provide access to the full .NET framework.
• Provide redundancy if an Azure legion fails.
• Grant administrators access to the operating system to install custom application dependencies. Solution: You deploy a web app in an Isolated App Service plan. Does this meet the goal?

A. Yes
B. No

Answer: A

NEW QUESTION 11
- (Exam Topic 2)
You have standard Load balancer configured to support three virtual machines on the same subnet. You need to recommend a solution to notify administrators when the load balancer fails.

Which metrics should you recommend using to test the load balancer? To answer, drag the appropriate metrics to the correct conditions. Each metric 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.

NOT: Each correct selection is worth one point.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 12
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You deploy several Azure SQL Database instances. You plan to configure the Diagnostics settings on the databases as shown in the following exhibit.

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

The amount of time that SQLInsights data will be stored in blob storage is [answer choice].

- 30 days
- 90 days
- 730 days
- indefinite

The maximum amount of time that SQLInsights data can be stored in Azure Log Analytics is [answer choice].

- 30 days
- 90 days
- 730 days
- indefinite

A. Mastered
B. Not Mastered
Answer: A

Explanation:
In the exhibit, the SQLInsights data is configured to be stored in Azure Log Analytics for 90 days. However, the question is asking for the “maximum” amount of time that the data can be stored which is 730 days.

NEW QUESTION 13
- (Exam Topic 2)
You are designing an Azure web app. You plan to deploy the web app to the Europe Azure region and the West Europe region.
You need to recommend a solution for the web app. The solution must meet the following requirements: Users must always access the web app from the North region, unless the region fails. The web app must be available to users if an Azure region is unavailable. Deployment costs must be minimized.
What should you include in the recommendation? To answer, select the appropriate options in the area. NOTE: Each correct selection is worth one point.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 14
- (Exam Topic 2)
Your company identifies the following business continuity and disaster recovery objectives for virtual machines that host sales, finance, and reporting applications in the company’s on-premises data center.
• The finance application requires that data be retained for seven years. In the event of a disaster, the application must be able to run from Azure. The recovery in objective (RTO) is 10 minutes.
• The reporting application must be able to recover point-in-time data at a daily granularity. The RTO is eight hours.
• The sales application must be able to fail over to the second on-premises data center.
You need to recommend which Azure services meet the business continuity and disaster recovery objectives. The solution must minimize costs.
What should you recommend for each application? To answer, drag the appropriate services to the correct application. Each service may be used once or not at all. You may need to drag the spin bar between panes or scroll 10 view content.
NEW QUESTION 15

- (Exam Topic 2)

Your company develops a web service that is deployed at Azure virtual machine named VM1. The web service allows an API to access real-time data from VM1. The current virtual machine deployment is shown in the Deployment exhibit. (Click the Deployment tab).

The chief technology officer (CTO) sends you the following email message: "Our developers have deployed the web service to a virtual machine named WL. Testing has shown that the API is accessible from VM1 and VM? Our partners must be able to connect to the API over the Internet. Partners will use this data in applications that they develop.

You deploy an Azure API Management service. The relevant API Management configuration is shown in the API exhibit. (Click the API tab).

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
NEW QUESTION 16
- (Exam Topic 2)
You have 100 Microsoft SQL Server Integration Services (SSIS) packages that are configured to use 10 on-premises SQL Server databases as their destinations. You plan to migrate the 10 on-premises databases to Azure SQL Database. You need to recommend a solution to host the SSIS packages in Azure. The solution must ensure that the packages can target the SQL Database instances as the destinations. What should you include in the recommendation?
A. Azure Data Catalog
B. SQL Server Migration Assistant (SSMS)
C. Data Migration Assistant
D. Azure Data Factory

Answer: A

NEW QUESTION 17
- (Exam Topic 2)
You are designing a container solution in Azure that will include two containers. One container will host a web API that will be available to the public. The other container will perform health monitoring of the web API and will remain private. The two containers will be deployed together as a group. You need to recommend a compute service for the containers. The solution must minimize costs and maintenance overhead. What should you include in the recommendation?
A. Azure container instances
B. Azure container Service
C. Azure Kubernetes Service (AKS)
D. Azure service fabric

Answer: A

Explanation:
References:
https://docs.microsoft.com/en-us/azure/container-instances/container-instances-container-groups

NEW QUESTION 18
- (Exam Topic 2)
You are planning the implementation of an order processing web service that will contain microservices hosted in an Azure Service Fabric cluster. You need to recommend a solution to provide developers with the ability to proactively identify and fix performance issues. The developers must be able to simulate user connections to the order processing web service from the Internet, as well as simulate user transactions. The developers must be notified if the goals for the transaction response times are not met. What should you include in the recommendation?
A. container health
B. Azure Network Watcher
C. Application Insights
D. Service Fabric Analytics

Answer: C

NEW QUESTION 19
- (Exam Topic 3)
You need to recommend a solution for the collection of security logs for the middle tier of the payment processing system. What should you include in the recommendation?
A. Azure Notification Hubs
B. the Azure Diagnostics agent
C. Azure Event Hubs
D. the Azure Log Analytics agent

Answer: D

Explanation:
References:
https://docs.microsoft.com/en-us/azure/azure-monitor/platform/diagnostics-extension-overview

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NEW QUESTION 20
- (Exam Topic 3)
You need to recommend a high-availability solution for the middle tier of the payment processing system. What should you include in the recommendation?

A. availability zones  
B. an availability set  
C. the Premium App Service plan  
D. the Isolated App Server plan

Answer: A

NEW QUESTION 21
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