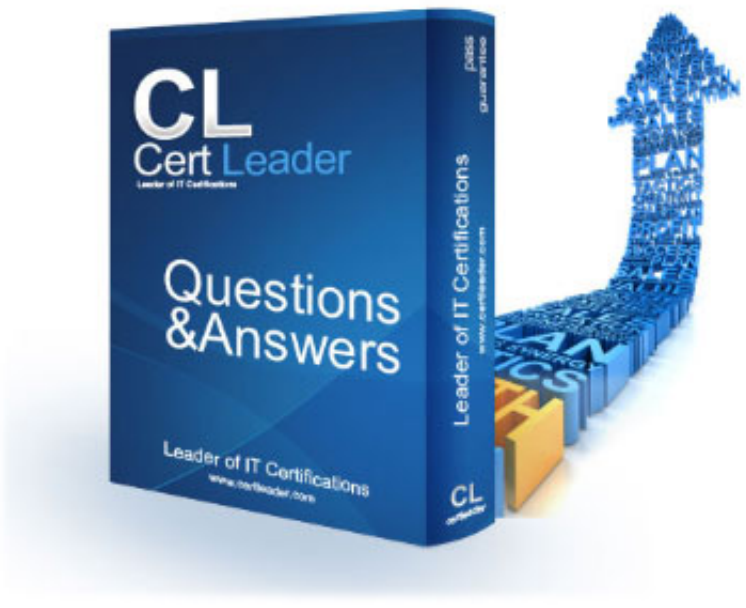
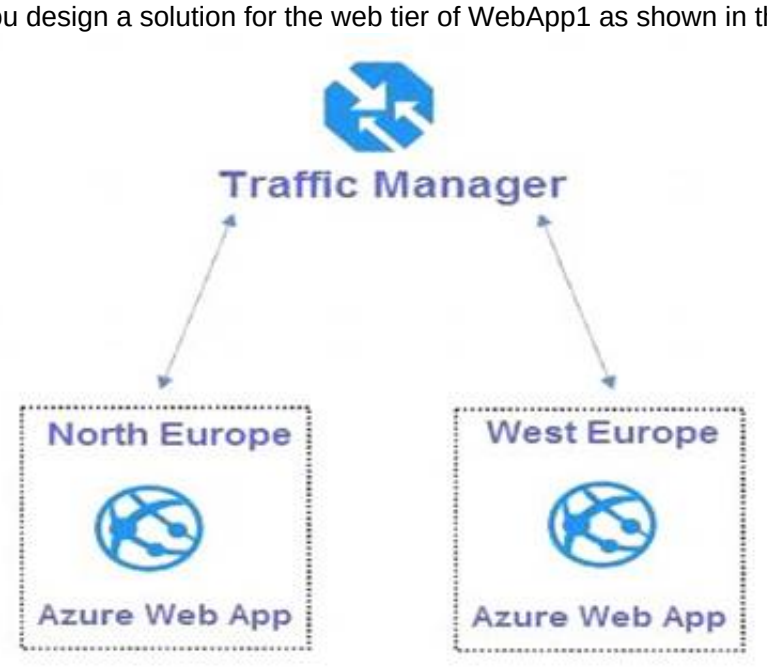
AZ-304 Dumps

Microsoft Azure Architect Design (beta)

https://www.certleader.com/AZ-304-dumps.html



NEW QUESTION 1
- (Exam Topic 1)
You design a solution for the web tier of WebApp1 as shown in the exhibit.



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

Statements	Yes	No
The design supports the technical requirements for redundancy.	○	○
The design supports autoscaling.	○	○
The design requires a manual configuration if an Azure region fails.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1: Yes
Any new deployments to Azure must be redundant in case an Azure region fails.
Traffic Manager uses DNS to direct client requests to the most appropriate service endpoint based on a
traffic-routing method and the health of the endpoints. An endpoint is any Internet-facing service hosted inside or outside of Azure. Traffic Manager provides a range of traffic-routing methods and endpoint monitoring options to suit different application needs and automatic failover models. Traffic Manager is resilient to failure, including the failure of an entire Azure region.
Box 2: Yes
Recent changes in Azure brought some significant changes in autoscaling options for Azure Web Apps (i.e. Azure App Service to be precise as scaling happens on App Service plan level and has effect on all Web Apps running in that App Service plan).
Box 3: No
Traffic Manager provides a range of traffic-routing methods and endpoint monitoring options to suit different application needs and automatic failover models.
Traffic Manager is resilient to failure, including the failure of an entire Azure region.
Reference:
https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-overview https://blogs.msdn.microsoft.com/hsirtl/2017/07/03/autoscaling-azure-web-apps/

NEW QUESTION 2
- (Exam Topic 1)
You need to recommend a strategy for migrating the database content of WebApp1 to Azure. What should you include in the recommendation?

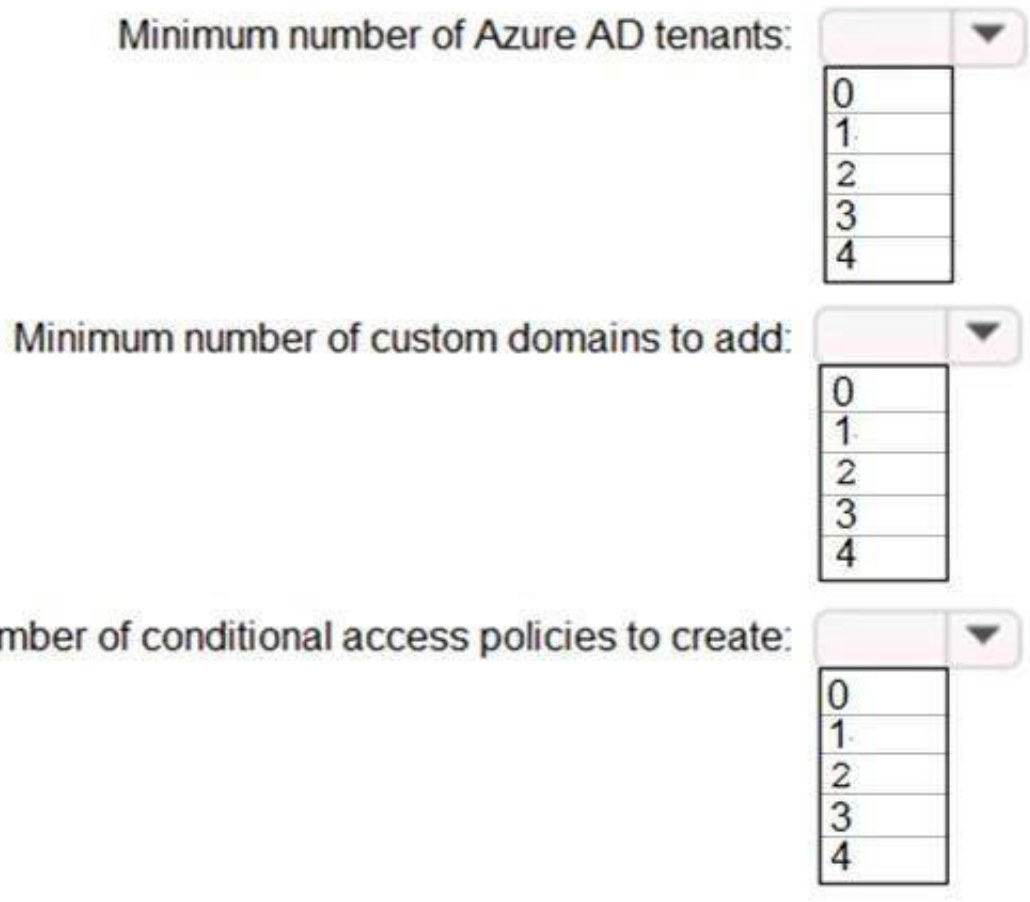
A. Use Azure Site Recovery to replicate the SQL servers to Azure.
B. Use SQL Server transactional replication.
C. Copy the BACPAC file that contains the Azure SQL database file to Azure Blob storage.
D. Copy the VHD that contains the Azure SQL database files to Azure Blob storage

Answer: D

Explanation:
Before you upload a Windows virtual machine (VM) from on-premises to Azure, you must prepare the virtual hard disk (VHD or VHDX).
Scenario: WebApp1 has a web tier that uses Microsoft Internet Information Services (IIS) and a database tier that runs Microsoft SQL Server 2016. The web tier and the database tier are deployed to virtual machines that run on Hyper-V. Reference:
https://docs.microsoft.com/en-us/azure/virtual-machines/windows/prepare-for-upload-vhd-image

NEW QUESTION 3
- (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.

Answer Area



A. Mastered
B. Not Mastered

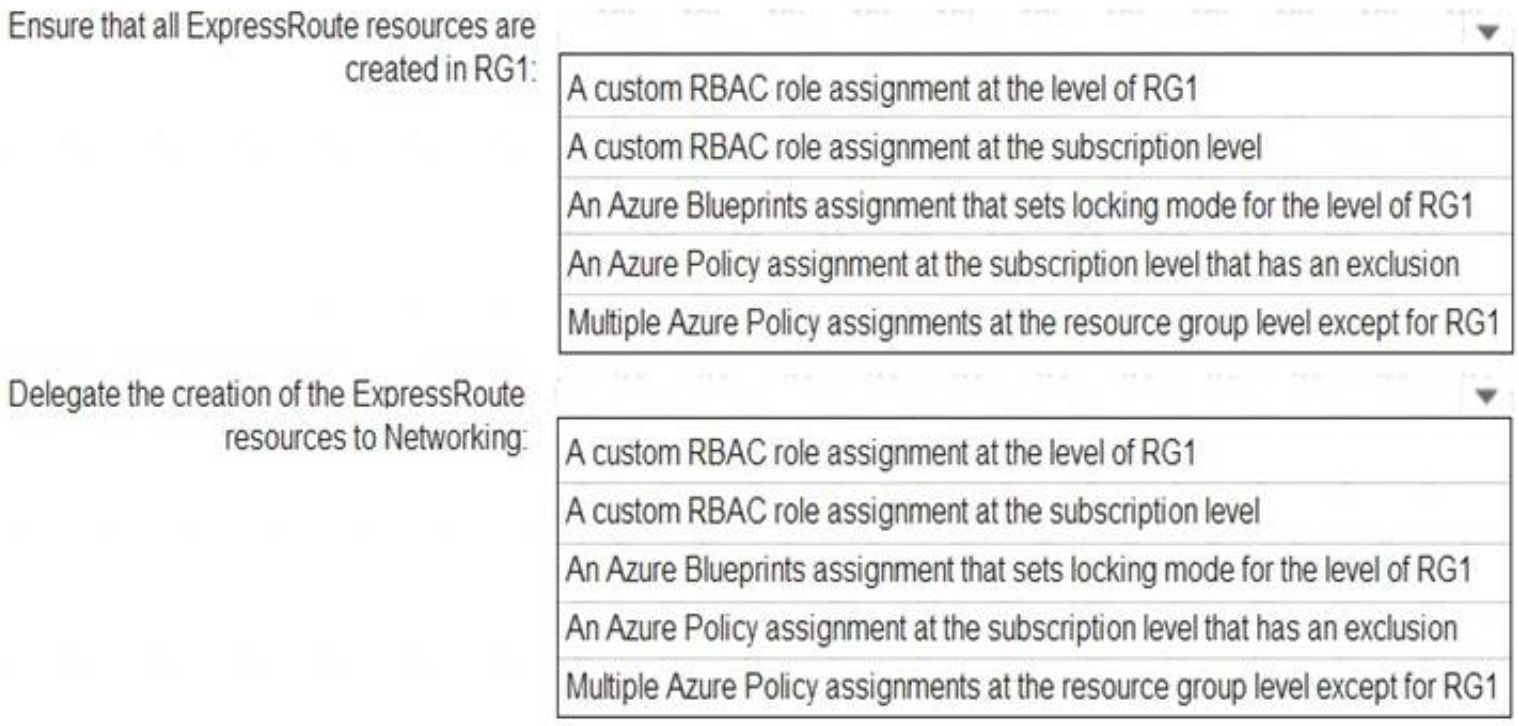
Answer: A

Explanation:
Box 1: 2
The network contains two Active Directory forests named corp.fabrikam.com and rd.fabrikam.com. There are no trust relationships between the forests.
Box 2: 1
Box 3: 1
Scenario:
Users on the on-premises network must be able to authenticate to corp.fabrikam.com if an Internet link fails.
Administrators must be able authenticate to the Azure portal by using their corp.fabrikam.com credentials. All administrative access to the Azure portal must be secured by using multi-factor authentication.
Note:
Users must always authenticate by using their corp.fabrikam.com UPN identity.
The network contains two Active Directory forests named corp.fabrikam.com and rd.fabrikam.com. There are no trust relationships between the forests.
Corp.fabrikam.com is a production forest that contains identities used for internal user and computer authentication.
Rd.fabrikam.com is used by the research and development (R&D) department only.

NEW QUESTION 4
- (Exam Topic 3)
You need to design a resource governance solution for an Azure subscription. The solution must meet the following requirements:

- Ensure that all ExpressRoute resources are created in a resource group named RG1.
- Delegate the creation of the ExpressRoute resources to an Azure Active Directory (Azure AD) group named Networking.
- Use the principle of least privilege.

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:
Box 1: An Azure policy assignment at the subscription level that has an exclusion Box 2: A custom RBAC role assignment at the level of RG1
Azure role-based access control (Azure RBAC) is the authorization system you use to manage access to Azure resources. To grant access, you assign roles to users, groups, service principals, or managed identities at a particular scope.
Reference:
https://docs.microsoft.com/en-us/azure/governance/policy/tutorials/create-and-manage

NEW QUESTION 5
- (Exam Topic 3)
You architect a solution that calculates 3D geometry from height-map data. You have the following requirements:
Perform calculations in Azure.
Each node must communicate data to every other node.
Maximize the number of nodes to calculate multiple scenes as fast as possible. Require the least amount of effort to implement.
You need to recommend a solution.
Which two actions should you recommend? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

A. Create a render farm that uses Azure Batch.
B. Enable parallel file systems on Azure.
C. Enable parallel task execution on compute nodes.
D. Create a render farm that uses virtual machine (VM) scale sets.
E. Create a render farm that uses virtual machines (VMs).

Answer: AC

NEW QUESTION 6
- (Exam Topic 3)
You are designing a storage solution that will use Azure Blob storage. The data will be stored in a cool access tier or an archive access tier based on the access patterns of the data.
You identify the following types of infrequently accessed data: Telemetry data: Deleted after two years D18912E1457D5D1DDCBD40AB3BF70D5D

- Promotional material: Deleted after 14 days
- Virtual machine audit data: Deleted after 200 days
- A colleague recommends using the archive access tier to store the data. Which statement accurately describes the recommendation?

A. Storage costs will be based on a minimum of 30 days.
B. Access to the data is guaranteed within five minutes.
C. Access to the data is guaranteed within 30 minutes.
D. Storage costs will be based on a minimum of 180 days.

Answer: D

Explanation:
The following table shows a comparison of premium performance block blob storage, and the hot, cool, and archive access tiers.

	Premium performance	Hot tier	Cool tier	Archive tier
Availability	99.9%	99.9%	99%	Offline
Availability (RA-GRS reads)	N/A	99.99%	99.9%	Offline
Usage charges	Higher storage costs, lower access, and transaction cost	Higher storage costs, lower access, and transaction costs	Lower storage costs, higher access, and transaction costs	Lowest storage costs, highest access, and transaction costs
Minimum object size	N/A	N/A	N/A	N/A
Minimum storage duration	N/A	N/A	30 days[1]	180 days
Latency (Time to first byte)	Single-digit milliseconds	milliseconds	milliseconds	hours[2]

Reference:
https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers

NEW QUESTION 7
- (Exam Topic 3)
You are designing a large Azure environment that will contain many subscriptions. You plan to use Azure Policy as part of a governance solution.
To which three scopes can you assign Azure Policy definitions? Each correct answer presents a complete solution.
NOTE: Each correct selection is worth one point.

A. management groups
B. subscriptions
C. Azure Active Directory (Azure AD) tenants
D. resource groups
E. Azure Active Directory (Azure AD) administrative units
F. compute resources

Answer: ABD

Explanation:
Azure Policy evaluates resources in Azure by comparing the properties of those resources to business rules. Once your business rules have been formed, the policy definition or initiative is assigned to any scope of resources that Azure supports, such as management groups, subscriptions, resource groups, or individual resources.
Reference:
https://docs.microsoft.com/en-us/azure/governance/policy/overview

NEW QUESTION 8
- (Exam Topic 3)
You are planning to deploy an application named App1 that will run in containers on Azure Kubernetes Service (AKS) clusters. The AKS clusters will be distributed across four Azure regions.
You need to recommend a storage solution for App1. Updated container images must be replicated automatically to all the AKS clusters.
Which storage solution should you recommend?

A. Premium SKU Azure Container Registry
B. Azure Content Delivery Network (CDN)
C. geo redundant storage (GRS) accounts
D. Azure Cache for Redis

Answer: A

Explanation:
Enable geo-replication for container images.
Best practice: Store your container images in Azure Container Registry and geo-replicate the registry to each AKS region.
To deploy and run your applications in AKS, you need a way to store and pull the container images. Container Registry integrates with AKS, so it can securely

store your container images or Helm charts. Container Registry supports multimaster geo-replication to automatically replicate your images to Azure regions around the world.
Geo-replication is a feature of Premium SKU container registries. Note:
When you use Container Registry geo-replication to pull images from the same region, the results are: Faster: You pull images from high-speed, low-latency network connections within the same Azure region.
More reliable: If a region is unavailable, your AKS cluster pulls the images from an available container registry.
Cheaper: There's no network egress charge between datacenters. Reference:
https://docs.microsoft.com/en-us/azure/aks/operator-best-practices-multi-region

NEW QUESTION 9
- (Exam Topic 3)
A company has a hybrid ASP.NET Web API application that is based on a software as a service (SaaS) offering.
Users report general issues with the data. You advise the company to implement live monitoring and use ad hoc queries on stored JSON data. You also advise the company to set up smart alerting to detect anomalies in the data.
You need to recommend a solution to set up smart alerting. What should you recommend?

A. Azure Application Insights and Azure Monitor Logs
B. Azure Site Recovery and Azure Monitor Logs
C. Azure Data Lake Analytics and Azure Monitor Logs
D. Azure Security Center and Azure Data Lake Store

Answer: C

Explanation:
Application Insights, a feature of Azure Monitor, is an extensible Application Performance Management (APM) service for developers and DevOps professionals. Use it to monitor your live applications. It will automatically detect performance anomalies, and includes powerful analytics tools to help you diagnose issues and to understand what users actually do with your app.
Reference:
https://docs.microsoft.com/en-us/azure/azure-monitor/app/app-insights-overview

NEW QUESTION 10
- (Exam Topic 3)
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:
https://docs.microsoft.com/en-us/azure/sql-database/sql-database-managed-instance

NEW QUESTION 10
- (Exam Topic 3)
You need to design a solution that will execute custom C# code in response to an event routed to Azure Event Grid. The solution must meet the following requirements:
The executed code must be able to access the private IP address of a Microsoft SQL Server instance that runs on an Azure virtual machine.
Costs must be minimized.
What should you include in the solution?

A. Azure Logic Apps in the integrated service environment
B. Azure Functions in the Dedicated plan and the Basic Azure App Service plan
C. Azure Logic Apps in the Consumption plan
D. Azure Functions in the Consumption plan

Answer: D

Explanation:
When you create a function app in Azure, you must choose a hosting plan for your app. There are three basic hosting plans available for Azure Functions: Consumption plan, Premium plan, and Dedicated (App Service) plan.
For the Consumption plan, you don't have to pay for idle VMs or reserve capacity in advance. Connect to private endpoints with Azure Functions
As enterprises continue to adopt serverless (and Platform-as-a-Service, or PaaS) solutions, they often need a way to integrate with existing resources on a virtual network. These existing resources could be databases, file storage, message queues or event streams, or REST APIs.
Reference:
https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale https://techcommunity.microsoft.com/t5/azure-functions/connect-to-private-endpoints-with-azure-functions/ba-p

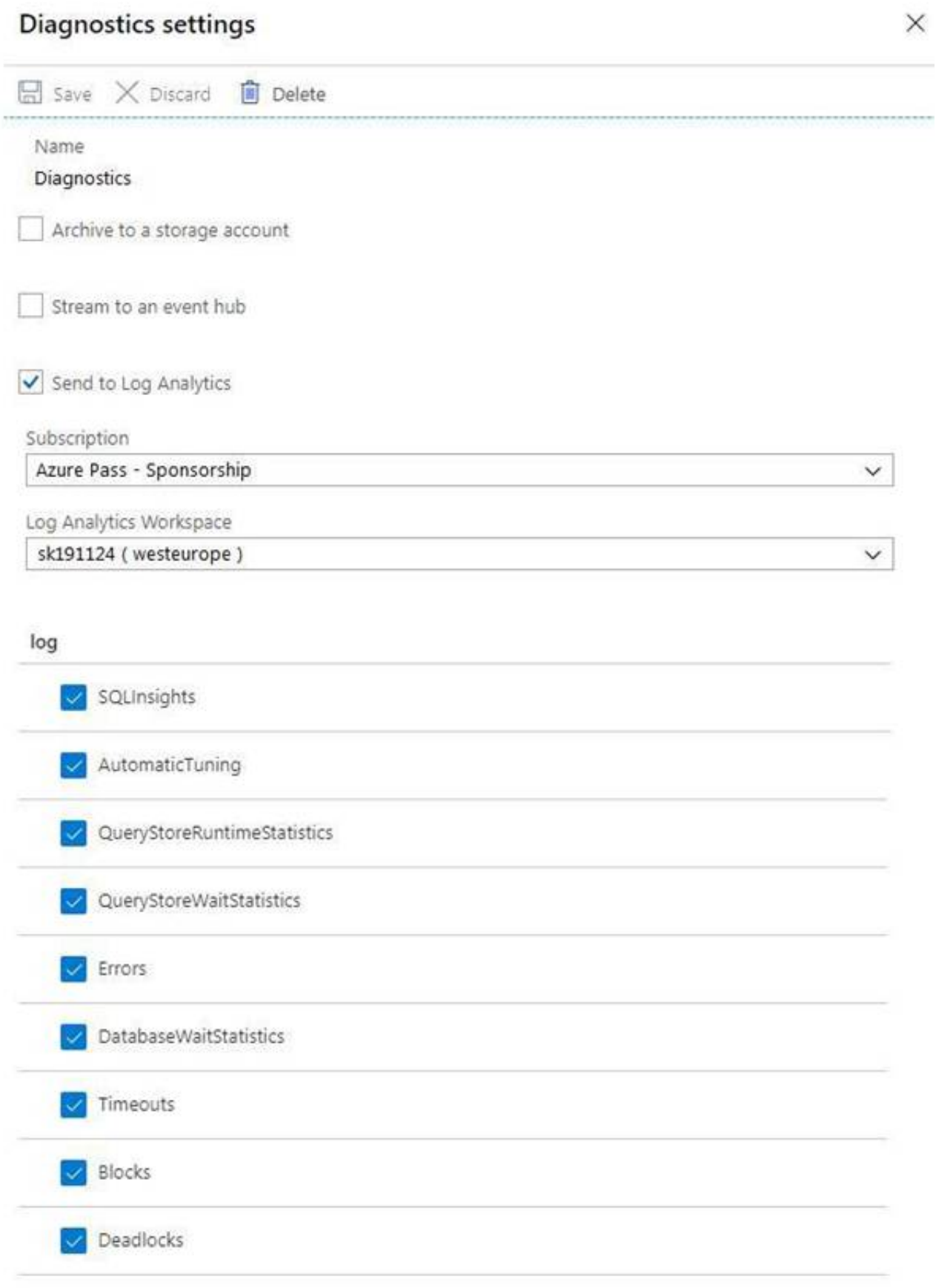
NEW QUESTION 13
- (Exam Topic 3)
Your company purchases an app named App1.
You plan to tun App1 on seven Azure virtual machines In an Availability Set. The number of fault domains is set to 3. The number of update domains is set to 20.
You need to identity how many App1 instances will remain available during a period of planned maintenance. How many Appl instances should you identify?

A. 1
B. 2
C. 6
D. 7

Answer: C

Explanation:
Only one update domain is rebooted at a time. Here there are 7 update domain with one VM each (and 13 update domain with no VM).
Reference:
https://docs.microsoft.com/en-us/azure/virtual-machines/windows/manage-availability

NEW QUESTION 14
- (Exam Topic 3)
You configure the Diagnostics settings for an Azure SQL database 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.

To perform real-time reporting by using Microsoft Power BI, you must first **[answer choice]**.

- clear Send to Log Analytics
- clear SQLInsights
- select Archive to a storage account
- select Stream to an event hub

Diagnostics data can be reviewed in **[answer choice]**.

- Azure Analysis Services
- Azure Application Insights
- Azure SQL Analytics
- Microsoft SQL Server Analysis Services (SSAS)
- SQL Health Check

A. Mastered
B. Not Mastered

Answer: A

Explanation:

To perform real-time reporting by using Microsoft Power BI, you must first **[answer choice]**.

- clear Send to Log Analytics
- clear SQLInsights
- select Archive to a storage account
- select Stream to an event hub

Diagnostics data can be reviewed in **[answer choice]**.

- Azure Analysis Services
- Azure Application Insights
- Azure SQL Analytics
- Microsoft SQL Server Analysis Services (SSAS)
- SQL Health Check

NEW QUESTION 18
- (Exam Topic 3)
You plan to deploy a network-intensive application to several Azure virtual machines. You need to recommend a solution that meets the following requirements:

- Minimizes the use of the virtual machine processors to transfer data
- Minimizes network latency

Which virtual machine size and feature should you use? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Virtual machine size:

- Compute optimized Standard_F8s
- General purpose Standard_B8ms
- High performance compute Standard_H16r
- Memory optimized Standard_E16s_v3

Feature:

- Receive side scaling (RSS)
- Remote Direct Memory Access (RDMA)
- Single root I/O virtualization (SR-IOV)
- Virtual Machine Multi-Queue (VMMQ)

A. Mastered
B. Not Mastered

Answer: A

Explanation:
References:
https://docs.microsoft.com/en-us/azure/virtual-machines/windows/sizes-hpc#h-series

NEW QUESTION 22
- (Exam Topic 3)
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution. while others might not have a correct solution.
After you answer a question In this section, you will NOT be able to return to it As a result these questions will not appear In the review screen.
You have an on-premises Hyper-V cluster that hosts 20 virtual machines Some virtual machines run Windows Server 2016 and some run Linux
You plan to morale the virtual machine? to an Azure subscription
You need to recommend 9 solution 10 replicate the disks of the virtual machines to Azure. The solution must ensure that the virtual machines remain available during the migration of the disks.
Solution: You recommend implementing a Recovery Services vault and then using Azure Site Recovery. Dees this meet the goal?

A. Yes
B. No

Answer: A

Explanation:
Site Recovery can replicate on-premises VMware VMs, Hyper-V VMs, physical servers (Windows and Linux), Azure Stack VMs to Azure.
Note: Site Recovery helps ensure business continuity by keeping business apps and workloads running during outages. Site Recovery replicates workloads running on physical and virtual machines (VMs) from a primary site to a secondary location. When an outage occurs at your primary site, you fail over to secondary location, and access apps from there. After the primary location is running again, you can fail back to it.
References:
https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-overview

NEW QUESTION 23
- (Exam Topic 3)
The developers at your company are building a containerized Python Django app.
You need to recommend platform to host the app. The solution must meet the following requirements:
- Support autoscaling.
- Support continuous deployment from an Azure Container Registry.
- Provide built-in functionality to authenticate app users by using Azure Active Directory (Azure AD). Which platform should you include in the recommendation?

A. Azure Container instances
B. an Azure App Service instance that uses containers
C. Azure Kubernetes Service (AKS)

Answer: C

Explanation:
To keep up with application demands in Azure Kubernetes Service (AKS), you may need to adjust the number of nodes that run your workloads. The cluster autoscaler component can watch for pods in your cluster that can't be scheduled because of resource constraints. When issues are detected, the number of nodes in a node pool is increased to meet the application demand.
Azure Container Registry is a private registry for hosting container images. It integrates well with orchestrators like Azure Container Service, including Docker Swarm, DC/OS, and the new Azure Kubernetes service.
Moreover, ACR provides capabilities such as Azure Active Directory-based authentication, webhook support, and delete operations.
Reference:
https://docs.microsoft.com/en-us/azure/aks/cluster-autoscaler
https://medium.com/velotio-perspectives/continuous-deployment-with-azure-kubernetes-service-azurecontainer- registry-jenkins-ca337940151b

NEW QUESTION 25
- (Exam Topic 3)
You need to recommend a solution to deploy containers that run an application. The application has two tiers.
Each tier is implemented as a separate Docker Linux-based image. The solution must meet the following requirements:
- The front-end tier must be accessible by using a public IP address on port 80.
- The backend tier must be accessible by using port 8080 from the front-end tier only.
- Both containers must be able to access the same Azure file share.
- If a container fails, the application must restart automatically.
- Costs must be minimized.

What should you recommend using to host the application?

A. Azure Kubernetes Service (AKS)
B. Azure Service Fabric
C. Azure Container instances

Answer: C

Explanation:
Azure Container Instances enables a layered approach to orchestration, providing all of the scheduling and management capabilities required to run a single container, while allowing orchestrator platforms to manage multi-container tasks on top of it.
Because the underlying infrastructure for container instances is managed by Azure, an orchestrator platform does not need to concern itself with finding an appropriate host machine on which to run a single container.

Azure Container Instances can schedule both Windows and Linux containers with the same API. Orchestration of container instances exclusively
Because they start quickly and bill by the second, an environment based exclusively on Azure Container Instances offers the fastest way to get started and to deal with highly variable workloads.
Reference:
https://docs.microsoft.com/en-us/azure/container-instances/container-instances-overview https://docs.microsoft.com/en-us/azure/container-instances/container-instances-orchestrator-relationship

NEW QUESTION 28
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