

Exam Questions AZ-301

Microsoft Azure Architect Design

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NEW QUESTION 1

- (Exam Topic 1)

What should you include in the identity management strategy to support the planned changes?

- A. Move all the domain controllers from corp.fabrikam.com to virtual networks in Azure.
- B. Deploy domain controllers for corp.fabrikam.com to virtual networks in Azure.
- C. Deploy a new Azure AD tenant for the authentication of new R&D projects.
- D. Deploy domain controllers for the rd.fabrikam.com forest to virtual networks in Azure.

Answer: B

Explanation:

Directory synchronization between Azure Active Directory (Azure AD) and corp.fabrikam.com must not be affected by a link failure between Azure and the on-premises network. (This requires domain controllers in Azure)

Users on the on-premises network must be able to authenticate to corp.fabrikam.com if an Internet link fails. (This requires domain controllers on-premises)

NEW QUESTION 2

- (Exam Topic 2)

You have an Azure subscription for used for testing and development purposes only. The subscription contains Azure virtual machines that unmanaged, standard hard disk drives (HDD).

You need to recommend a recovery strategy for the virtual machines if an Azure region fails for a sustained period. The recovery time objective WTO) can be up to seven days. The solution must minimize costs.

What should you include in the recommendation?

- A. Store the disks in a Standard_LRS storage account
- B. Configure Azure site Recover
- C. IF a failure occurs, initiate a manual failure over.
- D. Store the disks in a Standard_GRS storage account
- E. Configure Azure Recover
- F. If a failure occurs, initiate a manual failover.
- G. Store the disks in a Standrs_LRS storage account
- H. If a disaster occurs, manually create the virtual machines by used Azure Rsources Mnaager templates.
- I. Store the disks in a Standard_GRS storage account
- J. If a disaster occurs, manually create the virtual machines by Azure Resource Manager templates.

Answer: B

NEW QUESTION 3

- (Exam Topic 2)

Note: This question is part of 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 Azure subscription that contains a resource group named RG1.

You create an Azure Active Directory (Azure AD) group named ResearchUsers that contains the user accounts of all researchers.

You need to recommend a solution that meets the following requirements:

The researchers must be allowed to create Azure virtual machines.

The researchers must only be able to create Azure virtual machines by using specific Azure Resource Manager templates.

Solution: Create an Azure DevOps Project. Configure the DevOps Project settings. Does this meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 4

- (Exam Topic 2)

You have an Azure Contoso DB account named Account1 that has one write region and four read regions. You need to recommend a solution to ensure that, by default, any reads containers in Account1 will never see out writes. The solution must minimize costs.

What should you recommend?

- A. Configure Account1 to use the Strong consistency level.
- B. Create all the containers m Account1 as fixed.
- C. Create all the containers m Account1 as unlimited.
- D. Configure Account 1 to use the Consistent Prefix consistency level

Answer: A

NEW QUESTION 5

- (Exam Topic 2)

You are designing a data protection strategy for Azure virtual machines. All the virtual machines are in the Standard tier and use managed disks.

You need to recommend a solution that meets the following requirements:

The use of encryption keys is audited.

All the data is encrypted at rest always.

You manage the encryption keys, not Microsoft.

What should you include in the recommendation?

- A. BitLocker Drive Encryption (BitLocker)

- B. Azure Storage Service Encryption
- C. client-side encryption
- D. Azure Disk Encryption

Answer: D

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/security/azure-security-disk-encryption-overview>

NEW QUESTION 6

- (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.

Network Addresses		Answer Area
172.16.0.0/16	<div>⬅</div> <div>➡</div>	Subnet1: <input type="text" value="Network address"/>
172.16.1.0/28		Gateway subnet: <input type="text" value="Network address"/>
192.168.0.0/24		
192.168.1.0/28		

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Network Addresses		Answer Area
172.16.0.0/16	<div>⬅</div> <div>➡</div>	Subnet1: <input type="text" value="192.168.0.0/24"/>
172.16.1.0/28		Gateway subnet: <input type="text" value="192.168.1.0/28"/>
192.168.0.0/24		
192.168.1.0/28		

NEW QUESTION 7

- (Exam Topic 2)

You have an on-premises Hyper-V cluster. The cluster contains Hyper-V hosts that run Windows Server 2016 Datacenter. The hosts are licensed under a Microsoft Enterprise Agreement that has Software Assurance.

The Hyper-V cluster hosts 3 virtual machines that run Windows Server 2012 R2. Each virtual machine runs a different workload. The workloads have predictable consumption patterns.

You plan to replace the virtual machines with Azure virtual machines that run Windows Server 2016. The virtual machines will be sized according to the consumption pattern of each workload.

You need to recommend a solution to minimize the compute costs of the Azure virtual machines.

Which two recommendations should you include in the solution? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Purchase Azure Reserved Virtual Machine Instances for the Azure virtual machines
- B. Create a virtual machine scale set that uses autoscaling

- C. Configure a spending limit in the Azure account center
- D. Create a lab in Azure DevTest Labs and place the Azure virtual machines in the lab
- E. Activate Azure Hybrid Benefit for the Azure virtual machines

Answer: AE

NEW QUESTION 8

- (Exam Topic 2)

Your company identifies the following business continuity and disaster recovery objectives for virtual machines that host sales, finance, and reporting application 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 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. More than once. You may need to drag the spin bar between panes or scroll to view content.

Actions

Azure Backup only

Azure Site Recovery only

Azure Site Recovery and Azure Backup

Answer Area

Sales:

Finance:

Reporting:

Service or Services

Service or Services

Service or Services

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Actions

Azure Backup only

Azure Site Recovery only

Azure Site Recovery and Azure Backup

Answer Area

Sales:

Finance:

Reporting:

Azure Site Recovery and Azure Backup

Azure Backup only

Azure Site Recovery only

NEW QUESTION 9

- (Exam Topic 2)

You need to recommend a solution to generate a monthly report of all the new Azure Resource Manager resource deployment in your subscription. What should you include in the recommendation?

- A. Azure Activity Log
- B. Azure Monitor action groups
- C. Azure Advisor
- D. Azure Monitor metrics

Answer: B

NEW QUESTION 10

- (Exam Topic 2)

You plan to deploy 200 Microsoft SQL Server databases to Azure by using SQL Database and Azure SQL Database Managed Instance.

You need to recommend a monitoring solution that provides a consistent monitoring approach for all deployments. The solution must meet the following requirements: Support current-state analysis on metrics collected near real-time, multiple times per minute, and maintained for up to one hour.

Support longer term analysis based on metrics collected multiple times per hour and maintained for up to two weeks.

Support monitoring of the number of concurrent logins and concurrent sessions. What should you include in the recommendation?

- A. Azure Monitor

- B. dynamic management views
- C. SQL Server-Profiler
- D. trace flags

Answer: D

NEW QUESTION 10

- (Exam Topic 2)

You are developing a sales application that will contain several Azure cloud services and will handle different components of a transactions. Different cloud services will process customer orders, billing, payment, inventory, and shipping.

You need to recommend a solution to enable the cloud services to asynchronously communicate transaction information by using REST messages.

What would you include in the recommendation?

- A. Traffic Manager
- B. Azure Notification Hubs
- C. Azure Blob storage
- D. Azure Queue storage

Answer: D

NEW QUESTION 11

- (Exam Topic 2)

A company named Contoso, Ltd. has an Azure Active Directory (Azure AD) tenant that is integrated with Microsoft Office 365 and an Azure subscription.

Contoso has an on-premises identity infrastructure. The infrastructure includes servers that run Active Directory Domain Services (AD DS), Active Directory Federation Services (AD FS), Azure AD Connect, and Microsoft Identity Manager (MIM).

Contoso has a partnership with a company named Fabrikam, Inc. Fabrikam has an Active Directory forest and an Office 365 tenant. Fabrikam has the same on-premises identity infrastructure as Contoso.

A team of 10 developers from Fabrikam will work on an Azure solution that will be hosted in the Azure subscription of Contoso. The developers must be added to the Contributor role for a resource in the Contoso subscription.

You need to recommend a solution to ensure that Contoso can assign the role to the 10 Fabrikam developers.

The solution must ensure that the Fabrikam developers use their existing credentials to access resources. What should you recommend?

- A. Configure a forest trust between the on-premises Active Directory forests of Contoso and Fabrikam.
- B. Configure an organization relationship between the Office 365 tenants of Fabrikam and Contoso.
- C. In the Azure AD tenant of Contoso, enable Azure Active Directory Domain Services (Azure AD DS). Create a one-way forest trust that uses selective authentication between the Active Directory forests of Contoso and Fabrikam.
- D. In the Azure AD tenant of Contoso, create guest accounts for the Fabrikam developers.

Answer: D

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/role-based-access-control/role-assignments-external-users>

NEW QUESTION 15

- (Exam Topic 2)

You have 100 Standard F2vs-v2 Azure virtual machines. Each virtual machine has two network adapters. You need to increase the network performance of the workloads running on the virtual machine. The solution must meet the following requirements.

*The CPU-to-memory ratio must remain the same.

*The solution must minimize costs. What should you do?

- A. Enable SRIOV
- B. Enable RDMA over InfiniBand
- C. Install an additional network adapter.
- D. Configure NIC teaming.

Answer: A

NEW QUESTION 17

- (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 20

- (Exam Topic 2)

You have an on-premises deployment of MongoDB.

You plan to migrate MongoDB to an Azure Cosmos DB account that uses the MongoDB API. You need to recommend a solution for migrating MongoDB to Azure Cosmos DB.

What should you include in the recommendation?

- A. mongorestore
- B. Data Migration Assistant
- C. Azure Storage Explorer
- D. Azure Cosmos DB Data Migration Tool

Answer: A

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/cosmos-db/mongodb-migrate>

NEW QUESTION 24

- (Exam Topic 3)

You need to recommend a solution for implementing the back-end tier of the payment processing system in Azure.

What should you include in the recommendation?

- A. an Azure SQL Database managed instance
- B. a SQL Server database on an Azure virtual machine
- C. an Azure SQL Database single database
- D. an Azure SQL Database elastic pool

Answer: C

NEW QUESTION 29

- (Exam Topic 3)

You need to recommend a disaster recovery solution for the back-end tier of the payment processing system. What should you include in the recommendation?

- A. Always On Failover Cluster Instances
- B. active geo-replication
- C. Azure Site Recovery
- D. an auto-failover group

Answer: D

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-auto-failover-group>

NEW QUESTION 33

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