Exam Questions AZ-301

Microsoft Azure Architect Design

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NEW QUESTION 1
- (Exam Topic 1)
You need to recommend a data storage strategy for WebApp1. What should you include in in the recommendation?

A. an Azure SQL Database elastic pool
B. a vCore-baswl A/we SQL database
C. an Azure virtual machine that runs SQL Server
D. a fixed-size DTU AzureSQL database.

Answer: D

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 SQLServer 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: C

NEW QUESTION 3
- (Exam Topic 1)
You are evaluating the components of the migration to Azure that require you to provision an Azure Storage account.
For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Statements	Yes	No
You must provision an Azure Storage account for the SQL Server database migration.	○	○
You must provision an Azure Storage account for the Web site content storage.	○	○
You must provision an Azure Storage account for the Database metric monitoring.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
You must provision an Azure Storage account for the SQL Server database migration.	○	○
You must provision an Azure Storage account for the Web site content storage.	○	○
You must provision an Azure Storage account for the Database metric monitoring.	○	○

NEW QUESTION 4
- (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 5
- (Exam Topic 2)
You are designing an Azure solution for a company that wants to move a .NET Core web application 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: Solution: Deploy the web application by using an Azure Kubernetes Service (AKS) container on VNET1
Does this meet the goal?

A. Yes
B. No

Answer: B

NEW QUESTION 6
- (Exam Topic 2)
You have an Azure subscription that contains an Azure Cosmos DB account.
You need to recommend a solution to generate an alert from Azure Log Analytics when a request charge for a query exceeds 50 request units more than 20 times within a 15-minute window.
What should you recommend?

A. Create a search query to identify when requestCharge_s exceeds 50. Configure an alert threshold of 20 and a period of 15.
B. Create a search query to identify when duration_s exceeds 20 and requestCharge_s exceeds 50.Configure a period of 15.
C. Create a search query to identify when requestCharge_s exceeds 20. Configure a period of 15 and a frequency of 20.
D. Create a search query to identify when duration_s exceeds 20. Configure a period of 15.

Answer: A

NEW QUESTION 7
- (Exam Topic 2)
You plan to deploy a payroll system to Azure. The payroll system will use Azure virtual machines that run SUSE Linux Enterprise Server and Windows.
You need to recommend a business continuity solution for the payroll system. The solution must meet the following requirements:
 Minimize costs.
 Provide business continuity if an Azure region fails.
 Provide a recovery time objective (RTO) of 30 minutes.
 Provide a recovery point objective (RPO) of five minutes.
What should you include in the recommendation?

A. Microsoft System Center Data Protection Manage (DPM)
B. unmanaged disks that use geo-redundant storage (GRS)
C. Azure Site Recovery
D. Azure Backup

Answer: C

NEW QUESTION 8
- (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 9
- (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 plan to move all the virtual machines to Azure.
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 10
- (Exam Topic 2)
You have an Azure subscription. The subscription contains Azure virtual machines that run Windows Server 2016 and Linux.
You need to use Azure Log Analytics design an alerting strategy for security-related events.
Which Log Analytics tables should you query? To answer, drag the appropriate tables to the correct log types. Each value 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.

Tables	Answer Area	
AzureActivity	Events from Windows event logs:	Table
AzureDiagnostics	Events from Linux system logging:	Table
Event		
Syslog		

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Tables	Answer Area	
AzureActivity	Events from Windows event logs:	Event
AzureDiagnostics	Events from Linux system logging:	Syslog
Event		
Syslog		

NEW QUESTION 10
- (Exam Topic 2)
You have an Azure subscription.
You need to recommend a solution to provide developers with the ability to provision Azure virtual machines. The solution must meet the following requirements:
 Only allow the creation of the virtual machines in specific regions.
 Only allow the creation of specific sizes of virtual machines.
What should include in the recommendation?

A. conditional access policies
B. Azure Policy
C. Azure Resource Manager templates
D. role-based access control (RBAC)

Answer: B

NEW QUESTION 11
- (Exam Topic 2)
You are designing an Azure solution for a company that wants to move a .NET Core web application 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 a Premium App Service plan. Does this meet the goal?

A. Yes
B. No

Answer: A

NEW QUESTION 14
- (Exam Topic 2)
You are designing an Azure solution for a company that wants to move a .NET Core web application 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 17
- (Exam Topic 2)
You have an on-premises network that uses on IP address space of 172.16.0.0/16 You plan to deploy 25 virtual machines to a new azure subscription.
You identity 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 severs.
 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
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 20
- (Exam Topic 2)
You plan to create an Azure Cosmos DB account that uses the SQL API. The account will contain data added by a web application. The web application will send data daily.

You need to recommend a notification solution that meets the following requirements:
 Sends email notification when data is received from IoT devices.
 Minimizes compute cost.
What should you include in the recommendation?

A. Deploy an Azure logic app that has the Azure Cosmos DB connector configured to use a SendGrid action.
B. Deploy a function app that is configured to use the Consumption plan and a SendGrid binding.
C. Deploy an Azure logic app that has a SendGrid connector configured to use an Azure Cosmos DB action.
D. Deploy a function app that is configured to use the Consumption plan and an Azure Event Hubs binding.

Answer: B

NEW QUESTION 23
- (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 named Project1. Only a group named Project1admins is assigned roles in the Project1 subscription. The Project1 subscription contains all the resources for an application named Application1.
Your company is developing a new application named Application2. The members of the Application2 development team belong to an Azure Active Directory (Azure AD) group named App2Dev.
You identify the following requirements for Application2:
 The members of App2Dev must be prevented from changing the role assignments in Azure.
 The members of App2Dev must be able to create new Azure resources required by Application2.
 All the required role assignments for Application2 will be performed by the members of
Project1admins.
You need to recommend a solution for the role assignments of Application2.
Solution: In Project1, create a resource group named Application2RG. Assign Project1admins the Owner role for Application2RG. Assign App2Dev the Contributor role for Application2RG.
Does this meet the goal?

A. Yes
B. No

Answer: B

NEW QUESTION 28
- (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.
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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: On RG1, assign the Contributor role to the ResearchUsers group. Create a custom Azure Policy definition and assign the policy to RG1.
Does this meet the goal?

A. Yes
B. No

Answer: A

NEW QUESTION 29
- (Exam Topic 2)
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 region fails.
• Grant administrators access to the operating system to install custom application dependencies.
Solution: You deploy an Azure virtual machine to two Azure regions, and you deploy an Azure Application Gateway.
Does this meet the goal?

A. Yes
B. No

Answer: B

NEW QUESTION 30
- (Exam Topic 2)
Your development team plans to use an Azure subcription to test new applications. The application will reside on Azure virtual machines. The developers will be responsible for managing the subscription shared resources will be used by more than one appliacation.
You need to recommend a deplyment solution that meets the following requirements: Minimize administration effort for the develops
Ensures that the testing environment can be recreated consistently
Ensures that the testing cycle is complete, all the resources, except for the shared resources associated to each application are deleted
What should you include in the recommendation?

A. Use JSON templates to create the resource
B. Place the shared resources in one resource group, the application-specific resources in separate resource group.

C. Use JSON templates to create the resource
D. Place the shared resources in one resource group- Place all the application -.pacific in a resources in second resource group
E. Use an Azure PowerShell script lo create the resource
F. Place the shared resources .and the application-specific resources in the resources group.
G. Use an Azure PowerShell script to create the resource
H. Place the shared resources in one resource group Place the application-specific resources in separate resources groups.

Answer: B

NEW QUESTION 32
- (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 named Project1. Only a group named Project1admins is assigned roles in the Project1 subscription. The Project1 subscription contains all the resources for an application named Application1.
Your company is developing a new application named Application2. The members of the Application2 development team belong to an Azure Active Directory (Azure AD) group named App2Dev.
You identify the following requirements for Application2:
 The members of App2Dev must be prevented from changing the role assignments in Azure.
 The members of App2Dev must be able to create new Azure resources required by Application2.
 All the required role assignments for Application2 will be performed by the members of
Project1admins.
You need to recommend a solution for the role assignments of Application2.
Solution: Create a new Azure subscription named Project2. Assign Project1admins the User Access Administrator role for the Project2 subscription. Assign App2Dev the Owner role for the Project2 subscription.
Does this meet the goal?

A. Yes
B. No

Answer: B

NEW QUESTION 33
- (Exam Topic 2)
You have an on-premises Active Directory forest and an Azure Active Directory (Azure AD) tenant. All Azure AD users are assigned a Premium P1 license.
You deploy Azure AD Connect.
Which two features are available in this environment that can reduce operational overhead for your company's help desk? Each correct answer presents a complete solution.
NOTE: Each correct selection is worth one point.

A. Azure AD Privileged Identity Management policies
B. access reviews
C. self-service password reset
D. Microsoft Cloud App Security Conditional Access App Control
E. password writeback

Answer: CE

NEW QUESTION 34
- (Exam Topic 2)
You have a hybrid deployment of Azure Active Directory (Azure AD).
You need to recommend a solution to ensure that the Azure AD tenant can be managed only from the computers on your on-premises network.
What should you include in the recommendation?

A. Azure AD roles and administrators
B. a conditional access policy
C. Azure AD Application Proxy
D. Azure AD Privileged Identity Management

Answer: B

NEW QUESTION 38
- (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 42
- (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 ot 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 al 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 community 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 owe. More than once not at an You may need to drag the spin bar between panes or scroll 10 view content.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 47
- (Exam Topic 2)
You need to recommend a solution lo generate a monthly report of all the new Azure Resource Manager resource deployment in your subscription What should you include in the recommend3tlon,

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

Answer: B

NEW QUESTION 49
- (Exam Topic 2)
Your network contains an on-premises Active Directory forest.
You discover that when users change jobs within your company, the membership of the user group are not updated. As a result the users can resources that are no longer relevant to their job.
You plan to integrate Active Directory and Azure Active Directory (Azure AD) by using Azure AD Connect
You need to recommend a solution to ensure that group owners are emailed monthly m** the group membership they manage.
What should you include in the recommendation?

A. Azure AD Identify Protection
B. Tenant Restrictions
C. Azure AD access reviews
D. conditional access policies

Answer: C

Explanation:
 References:
https://docs.microsoft.com/en-us/azure/active-directory/governance/access-reviews-overview

NEW QUESTION 53
- (Exam Topic 2)
You plan to move a web application named App1 from an on-premises data center to Azure. App1 depends on a custom framework that is installed on the host server.
You need to recommend a solution to host App1 in Azure. The solution must meet the following requirements:
 App1 must be available to users if an Azure data center becomes unavailable.
 Costs must be minimized.
What should you include in the recommendation?

A. In two Azure regions, deploy a Traffic Manager profile and a web app.
B. In two Azure regions, deploy a load balancer and a virtual machine scale set.
C. Deploy a load balancer and a virtual machine scale set across two availability zones.
D. In two Azure regions, deploy a load balancer and a web app.

Answer: A

NEW QUESTION 54
- (Exam Topic 2)
You plan to use Azure Site Recovery to protect several on-premises physical server workloads. Each server workload is independent of the other. The workloads are stateless.
You need to recommend a failover strategy to ensure that if the on-premises data center fails, the workloads are available in Azure as quickly as possible.
Which failover strategy should you include in the recommendation?

A. Latest
B. Latest app-consistent
C. Latest multi-VM processed
D. Latest processed

Answer: D

Explanation:
 References:
https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-failover

NEW QUESTION 55
- (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).Createa 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 59
- (Exam Topic 2)
You have Azure virtual machines that run a custom line-business web application.
You plan to use a third-party solution to parse event logs from the virtual machine stored in an Azure storage account.
You need to recommend a so to save the event logs from the virtual. What should you include in recommendation?

A. Azure VM Diagnostics Extension
B. Azure Monitor
C. Azure log Analytics
D. event log subscriptions

Answer: A

Explanation:
 References:

https://docs.microsoft.com/en-us/azure/virtual-machines/windows/extensions-diagnostics

NEW QUESTION 63
- (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 64
- (Exam Topic 3)
You need to recommend a solution for the collection of security logs 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

NEW QUESTION 66
- (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 69
- (Exam Topic 3)
You need to recommend a solution for the network configuration of the front-end tier of the payment processing.
What should you include in the recommendation?

A. Azure Application Gateway
B. Traffic Manager
C. a Standard Load Balancer
D. a Basic load Balancer

Answer: B

NEW QUESTION 70
- (Exam Topic 3)
You need to recommend a compute solution for the middle tier of the payment processing system. What should you include in the recommendation?

A. Azure Kubernetes Service (AKS)
B. virtual machine scale sets
C. availability sets
D. App Service Environments (ASEs)

Answer: B

NEW QUESTION 72
- (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 74
- (Exam Topic 3)
You need to recommend a backup solution for the data store of the payment processing. What should you include in the recommendation?
A Microsoft System Center Data Protection Manager (DPM)

A. long-term retention
B. a Recovery Services vault
C. Azure Backup Server

Answer: B

Explanation:

References:
https://docs.microsoft.com/en-us/azure/sql-database/sql-database-long-term-backup-retention-configure

NEW QUESTION 75
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