Microsoft

Exam Questions AZ-301

Microsoft Azure Architect Design

NEW QUESTION 1
- (Exam Topic 1)
You need to recommend a solution to meet the database retention requirement. What should you recommend?

A. Configure a long-term retention policy for the database.
B. Configure Azure Site Recovery.
C. Configure geo replication of the database.
D. Use automatic Azure SQL Database backups.

Answer: A

NEW QUESTION 2
- (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 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.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

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 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 accoun
B. Configure Azure site Recover
C. IF a failure occurs, initiate a manual failure over.
D. Store the disks in a Standard_GRS storage accoun
E. Configure Azure Recover
F. If a failure occurs, initiate a manual failover.
G. Store the disks in a Standrs_LRS storage accoun
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 accoun
J. If a disaster occurs, manually create the virtual machines by Azure Resource Manager templates.

Answer: B

NEW QUESTION 6
- (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:
https://docs.microsoft.com/en-us/azure/sql-database/sql-database-managed-instance

NEW QUESTION 7
- (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 8
- (Exam Topic 2)
You store web access logs data in Azure Blob storage. You plan to generate monthly reports from the access logs.
You need to recommend an automated process to upload the data to Azure SQL Database every month. What should you include in the recommendation?

A. Microsoft SQL Server Migration Assistant (SSMA)
B. Azure Data Factory
C. Data Migration Assistant
D. AzCopy

Answer: C

NEW QUESTION 9
- (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

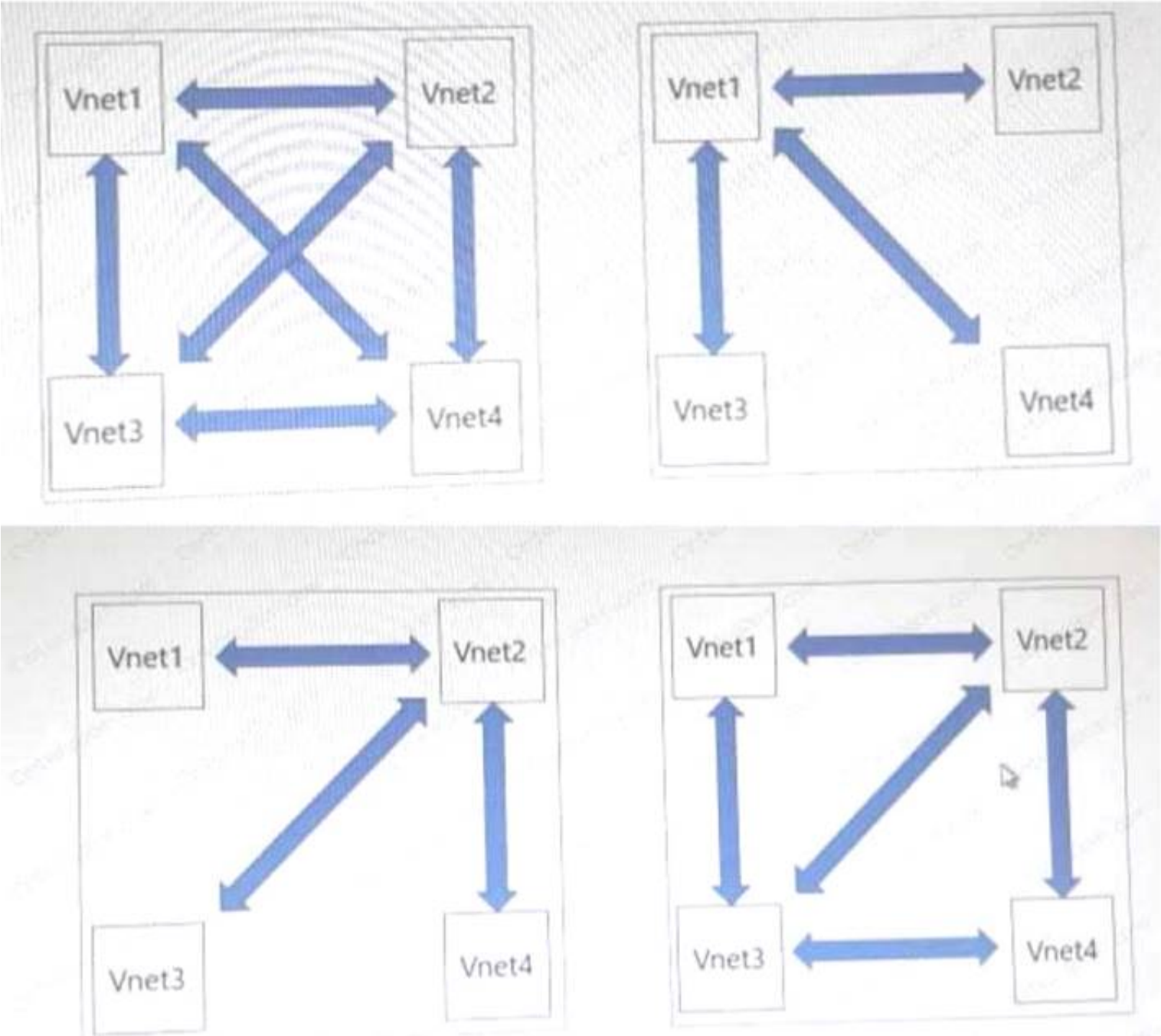**NEW QUESTION 10**
- (Exam Topic 2)
You have an Azure environment that contains the Azure subscription and the virtual networks shown in the following table.

Virtual network name	Subscription name	Virtual network type
Vnet1	Subscription1	Classic mode
Vnet2	Subscription1	Resource Manager
Vnet3	Subscription1	Resource Manager
Vnet4	Subscription2	Resource Manager

You need to recommend a virtual network peering solution to ensure that the resources connected to any other virtual network. The solution must minimize administrative effort.
Which virtual network peering topology should you recommend? To answer, select the appropriate topology in the answer area.
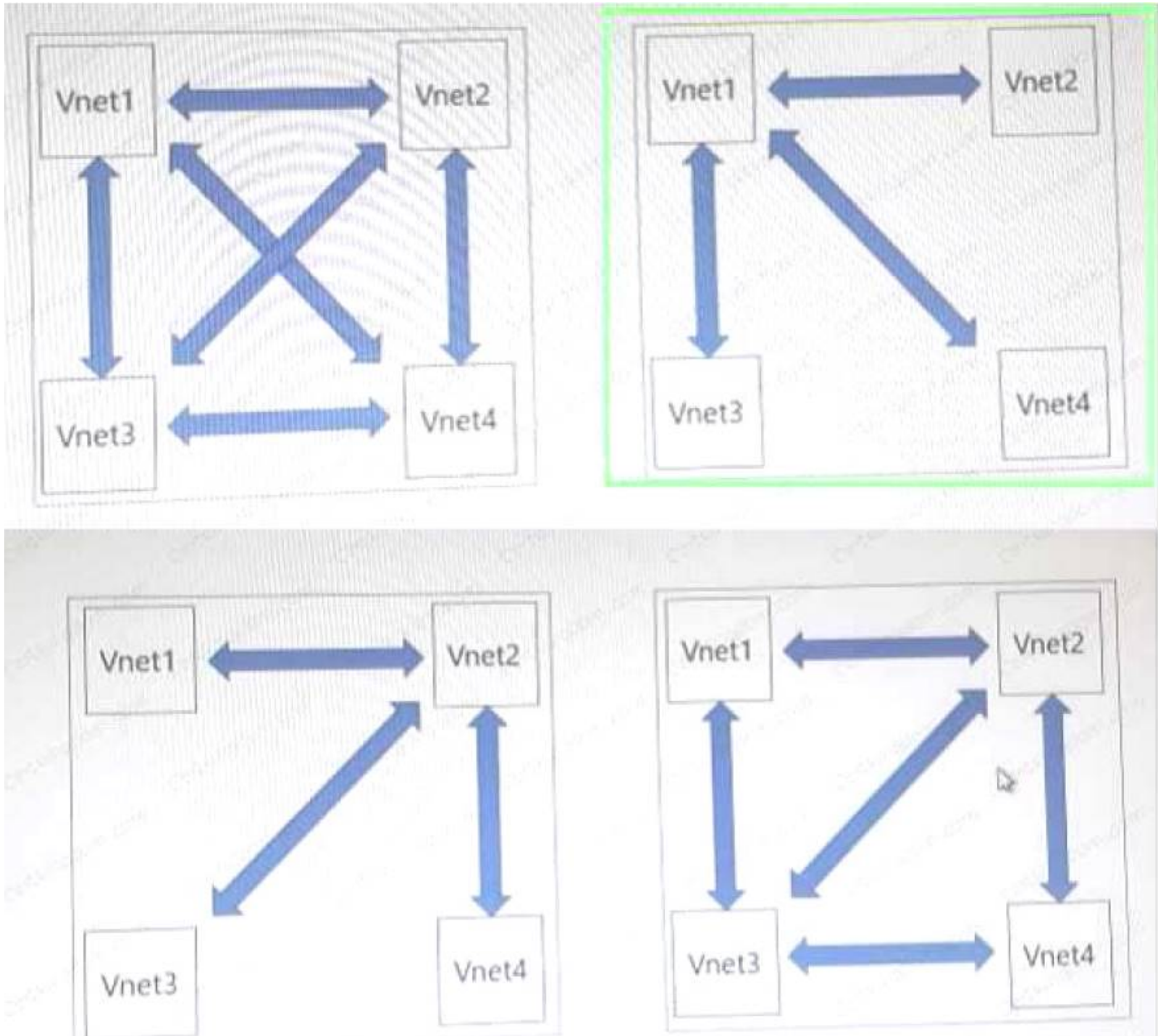NOTE: Each correct selection is worth one point,

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 10
- (Exam Topic 2)
Your company has users who work remotely from laptops.

You plan to move some of the applications accessed by the remote users to Azure virtual machines. The users will access the applications in Azure by using a point-to-site VPN connection. You will use certificates generated from an on-premises-based certification authority (CA).

You need to recommend which certificates are required for the deployment.

What should you include in the recommendation? To answer, drag the appropriate certificates to the correct targets. Each certificate 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 14
- (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 15
- (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 20
- (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 a virtual machine scale set that uses autoscaling.
Does this meet the goal?

A. Yes
B. No

Answer: B

NEW QUESTION 23
- (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

| AzureActivity |
| AzureDiagnostics |
| Event |
| Syslog |

Answer Area

| Events from Windows event logs: | Table |
| Events from Linux system logging: | Table |

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Tables

| AzureActivity |
| AzureDiagnostics |
| Event |
| Syslog |

Answer Area

| Events from Windows event logs: | Event |
| Events from Linux system logging: | Syslog |

NEW QUESTION 26
- (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 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.
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 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 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 37
- (Exam Topic 2)
You have .NeT web service named service1 that has the following requirements.
 Must read and write to the local file system.
 Must write to the Windows Application event log.
You need to recommend a solution to host Service1 in Azure .
The solution must meet the following requirements:
 Minimize maintenance overhead.
 Minimize costs.
What should you include in the recommendation?

A. an Azure web app
B. Azure function
C. an App service Environment
D. an Azure virtual machine scale set

Answer: B

NEW QUESTION 40
- (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 45
- (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 it 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 46
- (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 49
- (Exam Topic 2)
Your company has several Azure subscriptions that are part of a Microsoft Enterprise Agreement? The company's compliance team creates automatic alerts by using Ware Monitor.
You need to recommend a solution to apply the alerts automatically when new subscriptions are added to the Enterprise agreement.
What should you include in the recommendation?

A. Azure Pokey
B. Azure Resource Manager templates
C. Azure log Analytics alerts
D. Azure Monitor action groups
E. Azure Automation runboote

Answer: D

NEW QUESTION 51
- (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 52
- (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 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 56
- (Exam Topic 2)
You have the network topology shown in the following exhibit.
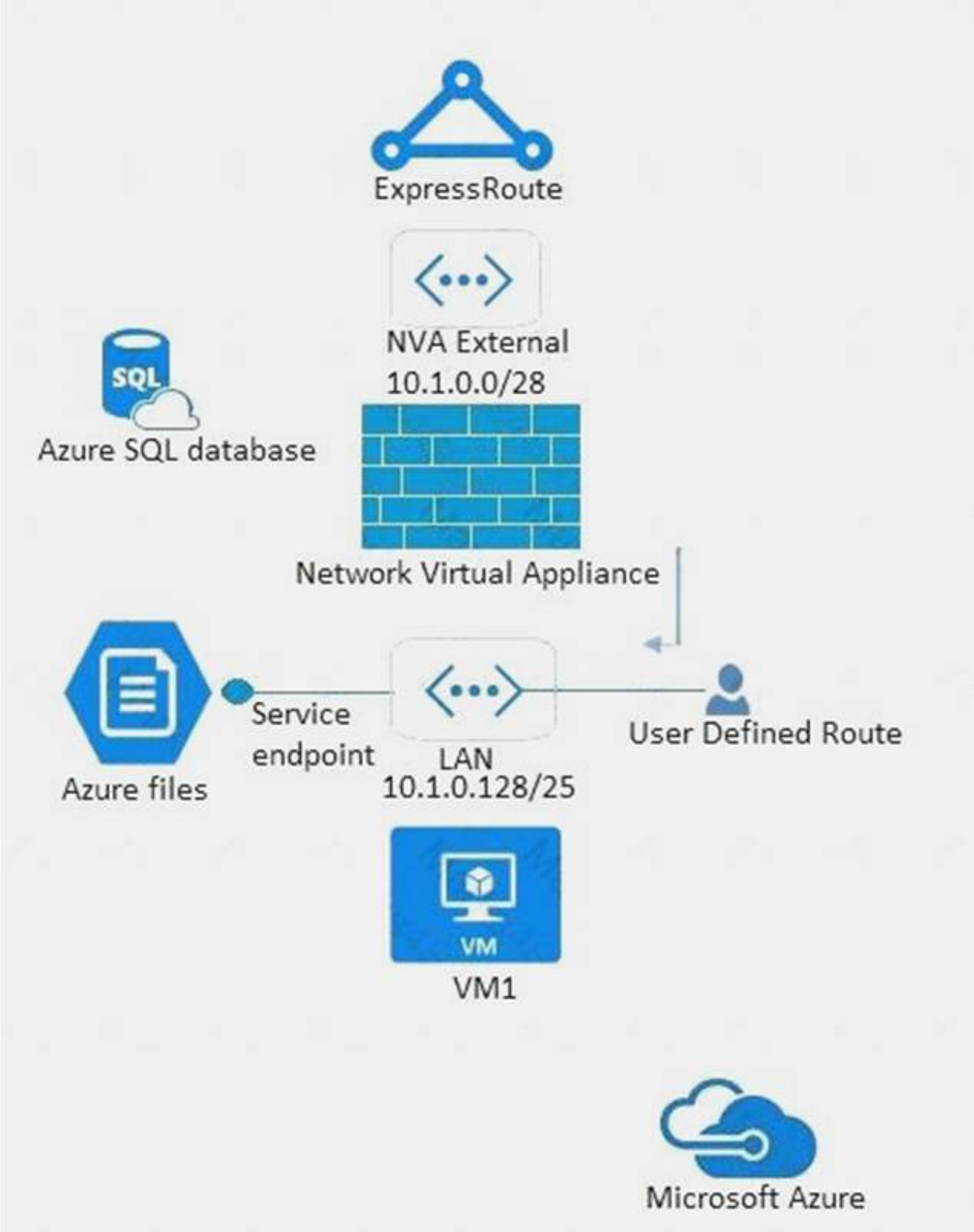
You have a user-defined route that has a default route of 0.0.0.0/0 and the next hop set to the network virtual appliance.
You configure the Azure Storage account to use virtual network service endpoints.
For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Statements	Yes	No
From VM1, traffic destined to the Azure Key Management Service will be routed to the network virtual appliance.	◯	◯
From VM1, traffic destined to the Azure file share will be routed to the Internet.	◯	◯
From VM1, traffic destined to the Azure SQL database will be routed to the Internet.	◯	◯

A. Mastered
B. Not Mastered

Answer: A

Explanation:
References:
https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-udr-overview

NEW QUESTION 61
- (Exam Topic 2)
You plan to deploy an API by using Azure API Management.
You need to recommend a solution to protect the API from a distribute derail of service (DDoS) attack. What should you recommend/

A. Create network security groups (NSG)
B. Enable rate limiting
C. Strip the Power-By response header
D. Enable quotas.

Answer: A

NEW QUESTION 66
- (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 71
- (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 74
- (Exam Topic 2)
You have 100 Microsoft SQL Server Integration Services (SSISJ packages that are configuted to use 10 on-premrees SQ1 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 SS1S packages in Azure.
The solution must ensure that the packages can target the SQL Database instances as the* destinations. What should you include m the recommendation?

A. Azure Data Catalog
B. SQL Server Migration Assistant (SSMS)
C. Data Migration Assistant
D. Azure Data Factory

Answer: A

NEW QUESTION 75
- (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 79
- (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 81
- (Exam Topic 2)
The accounting department at your company migrates to new financial accounting software. The accounting department must keep file-based database backups for years for compliances purposes. It is unlikely that the backup will be used to recover data.
You need to more the backups to Azure. The solution must minimize costs. Where should store the backups?

A. Azure SQL Database
B. a Recovery Services vault
C. Azure Blob storage that uses the archive tier
D. Azure storage that uses the Cool tier

Answer: C

NEW QUESTION 82
- (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 87
- (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 91
- (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 96
- (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 97
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