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Question #24*Topic 6*

HOTSPOT –

You have an Azure subscription that contains the resources shown in the following table.

Name	Type
VM1	Virtual machine
storage1	Storage account
Workspace1	Log Analytics workspace
DB1	Azure SQL database

You plan to create a data collection rule named DCR1 in Azure Monitor.

Which resources can you set as data sources in DCR1, and which resources can you set as destinations in DCR1? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Data sources:

- VM1 only
- VM1 and storage1 only
- VM1, storage1, and DB1 only
- VM1, storage1, Workspace1, and DB1

Destinations:

- storage1 only
- Workspace1 only
- Workspace1 and storage1 only
- Workspace1, storage1, and DB1 only1

Correct Answer:

Answer Area

Data sources:

- VM1 only
- VM1 and storage1 only
- VM1, storage1, and DB1 only
- VM1, storage1, Workspace1, and DB1

Destinations:

- storage1 only
- Workspace1 only
- Workspace1 and storage1 only
- Workspace1, storage1, and DB1 only1

Box 1: VM1 only –

A virtual machine may have an association to multiple DCRs, and a DCR may have multiple virtual machines associated to it.

In the Resources tab, add the resources (virtual machines, virtual machine scale sets, Arc for servers) that should have the Data Collection Rule applied.

Box 2: Workspace1 only –

On the Destination tab, add one or more destinations for the data source. You can select multiple destinations of same of different types, for instance multiple Log

Analytics workspaces (i.e. “multi-homing”).

Note: The Data Collection Rules (or DCR) improve on a few key areas of data collection from VMs including like better control and scoping of data collection (e.g. collect from a subset of VMs for a single workspace), collect once and send to both Log Analytics and Azure Monitor Metrics, send to multiple workspaces (multi- homing for Linux), improved Windows event filtering, and improved extension management.

Reference:

https://docs.microsoft.com/en-us/azure/azure-monitor/agents/data-collection-rule-azure-monitor-agent

Question #25*Topic 6*

HOTSPOT –

You have the role assignment file shown in the following exhibit.

```
[
   {
      "RoleAssignmentId": "e3108585-0e5d-4572-91a3-aa5d2df73999",
      "Scope": "/subscriptions/fb960108-fcdc-499b-886e-d9c31d3f26ff",
      "DisplayName": "User1",
      "SignInName": "User1@contoso.onmicrosoft.com",
      "RoleDefinitionName": "Owner",
      ...
   },
   {
      "RoleAssignmentId": "3bab4763-16a9-4d5d-9fcd-eee0cc31a21e",
      "Scope": "/subscriptions/fb960108-fcdc-499b-886e-d9c31d3f26ff/resourceGroups/RG2",
      "DisplayName": "User2",
      "SignInName": "User2@contoso.onmicrosoft.com",
      "RoleDefinitionName": "Owner",
      ...
   },
   {
      "RoleAssignmentId": "a071c023-40a3-4b7f-8680-1109b40270c5",
      "Scope": "/subscriptions/fb960108-fcdc-499b-886e-d9c31d3f26ff/resourceGroups/RG1/providers/
Microsoft.Compute/virtualMachines/VM1",
      "DisplayName": "User3",
      "SignInName": "User3@contoso.onmicrosoft.com",
      "RoleDefinitionName": "Owner",
      ...
   },
   {
      "RoleAssignmentId": "c5b9e7da-76d4-4888-93b5-8afb2bb780b4",
      "Scope": "/subscriptions/fb960108-fcdc-499b-886e-d9c31d3f26ff/resourceGroups/RG1",
      "DisplayName": "User4",
      "SignInName": "User4@contoso.onmicrosoft.com",
      "RoleDefinitionName": "Contributor",
      ...
   }
]
```


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.

Hot Area:

Answer Area

[Answer choice] assigned the Owner role for VM1

- User3 is
- User3 and User4 are
- User1 and User3 are
- User1, User3, and User4 are
- User1, User2, User3, and User4

[Answer choice] can create a virtual machine in RG1

- User1 and User4
- User1, User2, and User3
- User1, User2, and User4
- User1, User3, and User4
- User1, User2, User3, and User4

Correct Answer:

Answer Area

[Answer choice] assigned the Owner role for VM1

- User3 is
- User3 and User4 are
- User1 and User3 are
- User1, User3, and User4 are
- User1, User2, User3, and User4

[Answer choice] can create a virtual machine in RG1

- User1 and User4
- User1, User2, and User3
- User1, User2, and User4
- User1, User3, and User4
- User1, User2, User3, and User4

Question #26*Topic 6*

HOTSPOT –

You have the following custom role-based access control (RBAC) role.

```
{
    "id": "b988327b-7dae-4d00-8925-1cc14fd68be4",
    "properties": {
        "roleName": "Role1",
        "description": "",
        "assignableScopes:" [
            "/subscriptions/c691ad84-99f2-42fd-949b-58afd7ef6ab3"
        ],
        "permissions": [
            {
                "actions": [
                    "Microsoft.Resources/subscription/resourceGroups/resources/read",
                    "Microsoft.Resources/subscription/resourceGroups/read",
                    "Microsoft.Resourcehealth/*",
                    "Microsoft.Authorization/*/read",
                    "Microsoft.Compute/*/read",
                    "Microsoft.Support/*",
                    "Microsoft.Authorization/*/read",
                    "Microsoft.Network/virtualNetworks/read",
                    "Microsoft.Resources/deployments/*",
                    "Microsoft.Resources/subscription/resourceGroups/read",
                    "Microsoft.Storage/storageAccounts/read",
                    "Microsoft.Compute/virtualMachines/start/action",
                    "Microsoft.Compute/virtualMachines/powerOff/action",
                    "Microsoft.Compute/virtualMachines/deallocate/action",
                    "Microsoft.Compute/virtualMachines/restart/action",
                    "Microsoft.Compute/virtualMachines/*",
                    "Microsoft.Compute/disks/*",
                    "Microsoft.Compute/availabilitySets/*",
                    "Microsoft.Network/virtualNetworks/subnets/join/action",
                    "Microsoft.Network/virtualNetworks/subnets/read",
                    "Microsoft.Network/virtualNetworks/subnets/virtualMachines/read",
                    "Microsoft.Network/networkinterfaces/*",
                    "Microsoft.Compute/snapshots/*"
                ]
                "notAction": [
                    "Microsoft.Authorization/*/Delete",
                    "Microsoft.Authorization/*/Write",
                    "Microsoft.Authorization/elevateAccess/Action"
                ]
            }
        ]
    }
}
```


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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
Users that are assigned Role1 can assign Role1 to users.	○	○
Users that are assigned Role1 can deploy new virtual machines.	○	○
Users that are assigned Role1 can set a static IP address on a virtual machine.	○	○

Correct Answer:

Answer Area

Statements	Yes	No
Users that are assigned Role1 can assign Role1 to users.	○	○
Users that are assigned Role1 can deploy new virtual machines.	○	○
Users that are assigned Role1 can set a static IP address on a virtual machine.	○	○

Question #27*Topic 6*

HOTSPOT –

You have an Azure subscription that contains the resources shown in the following table.

Name	Type	Description
VNET1	Virtual network	Contains subnet1 and subnet2
subnet1	Subnet	IP address space 10.3.0.0/24
subnet2	Subnet	IP address space 10.4.0.0/24
NSG1	Network security group (NS)	*None*
vm1	Virtual machine	IP address 10.3.0.15
vm2	Virtual machine	IP address 10.4.0.16
storage1	Storage account	*None*

NSG1 is configured as shown in the following exhibit.

Essentials

JSON View

Resource group (change) : RG1

Location : East US 2

Subscription (change) : Microsoft Azure Sponsorship

Subscription ID :

Tags (change) : Click here to add tags

Custom security rules : 1 inbound, 2 outbound

Associated with : 1 subnets, 0 network interfaces

Inbound security rules

Priority	Name	Port	Protocol	Source	Destination	Action
110	HTTPS_VM1_Deny	**443**	TCP	Internet	10.3.0.15	Deny
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

Outbound security rules

145	Storage_Access	**443**	TCP	VirtualNetwork	Storage	Allow
150	Block_Internet	Any	Any	VirtualNetwork	Internet	Deny
65000	AllowVnetOutBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowInternetOutBound	Any	Any	Any	Internet	Allow
65500	DenyAllOutBound	Any	Any	Any	Any	Deny

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
VM1 can access storage1.	○	○
VM2 can access VM1 by using the HTTPS protocol.	○	○
The security rules for NSG1 apply to any virtual machine on VNET1.	○	○

Correct Answer:

Answer Area

Statements	Yes	No
VM1 can access storage1.	○	○
VM2 can access VM1 by using the HTTPS protocol.	○	○
The security rules for NSG1 apply to any virtual machine on VNET1.	○	○

Question #28*Topic 6*

You have an Azure subscription named Subscription1 that contains two Azure virtual networks named VNet1 and VNet2. VNet1 contains a VPN gateway named

VPNGW1 that uses static routing. There is a site-to-site VPN connection between your on-premises network and VNet1.

On a computer named Client1 that runs Windows 10, you configure a point-to-site VPN connection to VNet1.

You configure virtual network peering between VNet1 and VNet2. You verify that you can connect to VNet2 from the on-premises network. Client1 is unable to connect to VNet2.

You need to ensure that you can connect Client1 to VNet2.

What should you do?

- A. Select Use the remote virtual network's gateway or Route Server on VNet1 to VNet2 peering.
- B. Select Use the remote virtual network s gateway or Route Server on VNet2 to VNet1 peering.
- C. Download and re-install the VPN client configuration package on Client1.
- D. Enable BGP on VPNGW1.

Correct Answer: *C*

Community vote distribution

C (100%)

Question #29*Topic 6*

HOTSPOT –

You have two Azure subscriptions named Sub1 and Sub2. Sub1 is in a management group named MG1. Sub2 is in a management group named MG2.

You have the resource groups shown in the following table.

Name	Subscription
RG1	Sub1
RG2	Sub2

You have the virtual machines shown in the following table.

Name	Resource group
VM1	RG1
VM2	RG2
VM3	RG2

You assign roles to users as shown in the following table.

User	Role	Resource
User1	Virtual Machine Contributor	MG1
User1	Virtual Machine User Login	Sub2
User2	Virtual Machine Contributor	MG2
User2	Virtual Machine User Login	Sub1
User2	Virtual Machine User Login	VM3

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
User1 can sign in to VM1.	○	○
User2 can manage disks and disk snapshots of VM1.	○	○
User2 can manage disks and disk snapshots of VM3.	○	○

Correct Answer:

Answer Area

Statements	Yes	No
User1 can sign in to VM1.	○	○
User2 can manage disks and disk snapshots of VM1.	○	○
User2 can manage disks and disk snapshots of VM3.	○	○

Question #30*Topic 6*

You have an Azure Active Directory (Azure AD) tenant that is linked to 10 Azure subscriptions.

You need to centrally monitor user activity across all the subscriptions.

What should you use?

- A. Azure Application Insights Profiler
- B. access reviews
- C. Activity log filters
- D. a Log Analytics workspace

Correct Answer: *D*

Community vote distribution

D (100%)

Question #31*Topic 6*

DRAG DROP –

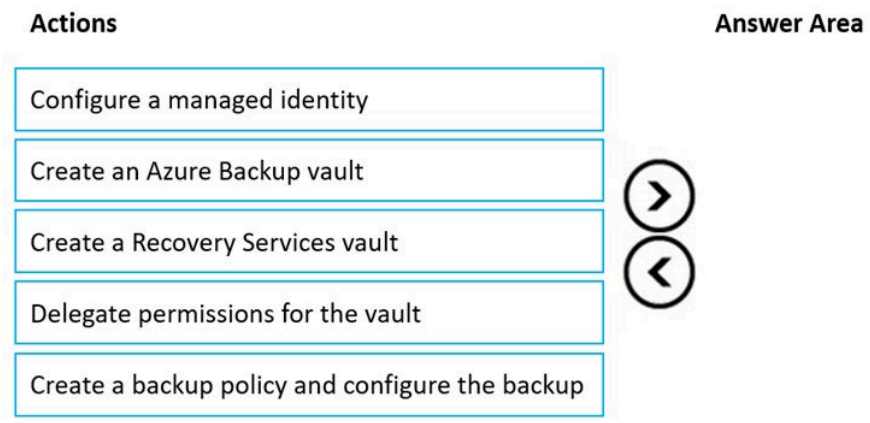
You have an Azure subscription that contains a virtual machine name VM1.

VM1 has an operating system disk named Disk1 and a data disk named Disk2.

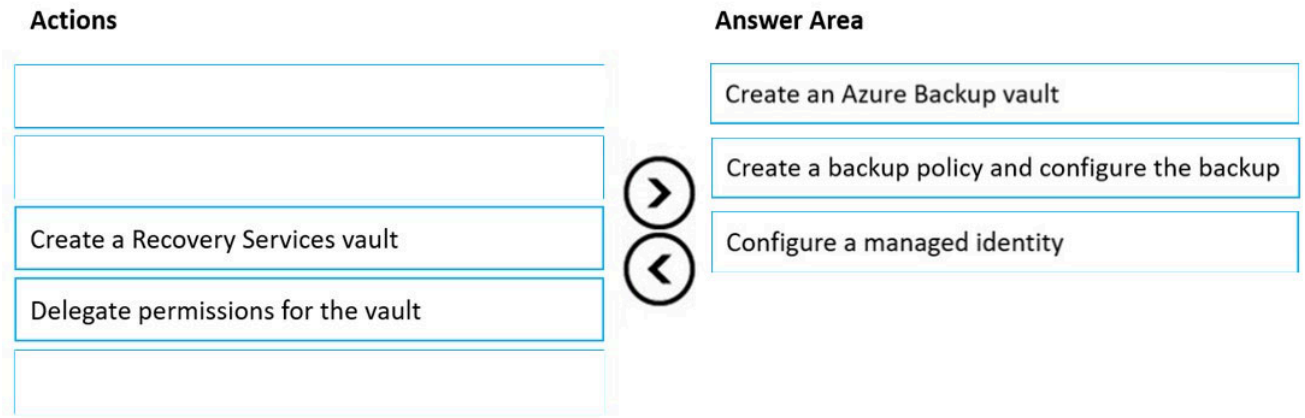
You need to back up Disk2 by using Azure Backup.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:



Correct Answer:



Question #32*Topic 6*

You have a subnet named Subnet1 that contains Azure virtual machines. A network security group (NSG) named NSG1 is associated to Subnet1. NSG1 only contains the default rules.

You need to create a rule in NSG1 to prevent the hosts on Subnet1 form connecting to the Azure portal. The hosts must be able to connect to other internet hosts.

To what should you set Destination in the rule?

- A. Application security group
- B. IP Addresses
- C. Service Tag
- D. Any

Correct Answer: *C*

Community vote distribution

C (100%)

Question #33*Topic 6*

You have an Azure subscription named Subscription1 that contains an Azure Log Analytics workspace named Workspace1.

You need to view the error events from a table named Event.

Which query should you run in Workspace1?

- A. search in (Event) “error”
- B. Event | where EventType is “error”
- C. select * from Event where EventType == “error”
- D. Get-Event Event | where {$_.EventType == “error”}

Correct Answer: *A*

Community vote distribution

A (87%)

13%

Question #34*Topic 6*

You have an Azure App Service web app named App1.

You need to collect performance traces for App1.

What should you use?

- A. Azure Application Insights Profiler
- B. the Activity log
- C. the Deployment center
- D. the Diagnose and solve problems settings

Correct Answer: *B*

Community vote distribution

A (100%)

Question #35*Topic 6*

You have an Azure subscription that contains the storage accounts shown in the following table.

Name	Kind	Location
storage1	StorageV2	Central US
storage2	BlobStorage	West US
storage3	BlockBlobStorage	West US
storage4	FileStorage	East US

You deploy a web app named App1 to the West US Azure region.

You need to back up App1. The solution must minimize costs.

Which storage account should you use as the target for the backup?

- A. storage1
- B. storage2
- C. storage3
- D. storage4

Correct Answer: *D*

Community vote distribution

B (81%)

A (19%)

Question #36*Topic 6*

HOTSPOT

–

You have an Azure subscription that is linked to an Azure AD tenant. The tenant contains two users named User1 and User2.

The subscription contains the resources shown in the following table.

Name	Type	Description
RG1	Resource group	*None*
VM1	Virtual machine	Created in RG1

The subscription contains the alert rules shown in the following table.

Name	Scope	Condition
Alert1	RG1	All Administrative operations
Alert2	VM1	All Administrative operations

The users perform the following action:

• User1 creates a new virtual disk and attaches the disk to VM1

• User2 creates a new resource tag and assigns the tag to RG1 and VM1

Which alert rules are triggered by each user? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

User1:

- No alert is triggered
- Only Alert1 is triggered
- Only Alert2 is triggered
- Alert1 and Alert2 are triggered

User2:

- No alert is triggered
- Only Alert1 is triggered
- Only Alert2 is triggered
- Alert1 and Alert2 are triggered

Correct Answer:

Answer Area

User1:

- No alert is triggered
- Only Alert1 is triggered
- Only Alert2 is triggered
- Alert1 and Alert2 are triggered

User2:

- No alert is triggered
- Only Alert1 is triggered
- Only Alert2 is triggered
- Alert1 and Alert2 are triggered

Question #37*Topic 6*

You plan to deploy several Azure virtual machines that will run Windows Server 2019 in a virtual machine scale set by using an Azure Resource Manager template.

You need to ensure that NGINX is available on all the virtual machines after they are deployed.

What should you use?

- A. a Desired State Configuration (DSC) extension
- B. the New-AzConfigurationAssignment cmdlet
- C. Azure Application Insights
- D. a Microsoft Endpoint Manager device configuration profile

Correct Answer: *A*

Community vote distribution

A (100%)

Question #38*Topic 6*

You have an Azure subscription that contains eight virtual machines and the resources shown in the following table.

Name	Description
storage1	Storage account
storage2	Storage account
KeyVault1	Key vault
VNET1	Virtual network with a single subnet that has five virtual machines connected
VNET2	Virtual network with a single subnet that has three virtual machines connected

You need to configure access for VNET1. The solution must meet the following requirements:

• The virtual machines connected to VNET1 must be able to communicate with the virtual machines connected to VNET2 by using the Microsoft backbone.

• The virtual machines connected to VNET1 must be able to access storage1, storage2, and Azure AD by using the Microsoft backbone.

What is the minimum number of service endpoints you should add to VNET1?

- A. 1
- B. 2

- C. 3
- D. 5

Correct Answer: *D*

Community vote distribution

B (96%)

4%

Question #39*Topic 6*

You need to configure an Azure web app named contoso.azurewebsites.net to host www.contoso.com.

What should you do first?

- A. Create A records named www.contoso.com and asuid.contoso.com.
- B. Create a TXT record named asuid that contains the domain verification ID.
- C. Create a CNAME record named asuid that contains the domain verification ID.
- D. Create a TXT record named www.contoso.com that has a value of contoso.azurewebsites.net.

Correct Answer: *C*

Community vote distribution

B (65%)

C (21%)

10%

Question #40*Topic 6*

You have an Azure subscription that contains 10 network security groups (NSGs), 10 virtual machines, and a Log Analytics workspace named Workspace1. Each NSG is connected to a virtual machine.

You need to configure an Azure Monitor Network Insights alert that will be triggered when suspicious network traffic is detected.

What should you do first?

- A. Deploy Connection Monitor.
- B. Configure data collection endpoints.
- C. Configure a private link.
- D. Configure NSG flow logs.

Correct Answer: *D*

Community vote distribution

D (91%)

9%

Question #41*Topic 6*

HOTSPOT

–

You have an Azure subscription named Sub1 that contains the resources shown in the following table.

Name	Description
RG1	Resource group
Action1	Action group that sends an email message to admin1@contoso.com

Sub1 contains the following alert rule:

• Name: Alert1

• Scope: All resource groups in Sub1

o Include all future resources

• Condition: All administrative operations

• Actions: Action1

Sub1 contains the following alert processing rule:

• Name: Rule1

• Scope: Sub1

• Rule type: Suppress notifications

• Apply the rule: On a specific time

o Start: August 10, 2022

o End: August 13, 2022

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
If you create a resource group in Sub1 on August 11, 2022, Alert1 is listed in the Azure portal.	○	○
If you create a resource group in Sub1 on August 12, 2022, an email message is sent to admin1@contoso.com.	○	○
If you add a tag to RG1 on August 15, 2022, an email message is sent to admin1@contoso.com.	○	○

Correct Answer:

Statements	Yes	No
If you create a resource group in Sub1 on August 11, 2022, Alert1 is listed in the Azure portal.	○	○
If you create a resource group in Sub1 on August 12, 2022, an email message is sent to admin1@contoso.com.	○	○
If you add a tag to RG1 on August 15, 2022, an email message is sent to admin1@contoso.com.	○	○

Question #42*Topic 6*

You have an Azure subscription that contains a storage account named storage1 in the North Europe Azure region.

You need to ensure that when blob data is added to storage1, a secondary copy is created in the East US region. The solution must minimize administrative effort.

What should you configure?

- A. operational backup
- B. object replication
- C. geo-redundant storage (GRS)

- D. a lifecycle management rule

Correct Answer: *C*

Community vote distribution

B (89%)

11%

Question #43*Topic 6*

You have an Azure subscription that contains two Log Analytics workspaces named Workspace1 and Workspace2 and 100 virtual machines that run Windows Server.

You need to collect performance data and events from the virtual machines. The solution must meet the following requirements:

• Logs must be sent to Workspace1 and Workspace 2.

• All Windows events must be captured.

• All security events must be captured.

What should you install and configure on each virtual machine?

- A. the Azure Monitor agent
- B. the Windows Azure diagnostics extension (WAD)
- C. the Windows VM agent

Correct Answer: *A*

Community vote distribution

A (100%)

Question #44*Topic 6*

You have an Azure subscription that contains a virtual machine named VM1 and an Azure function named App1.

You need to create an alert rule that will run App1 if VM1 stops.

What should you create for the alert rule?

- A. an application security group
- B. a security group that has dynamic device membership
- C. an action group
- D. an application group

Correct Answer: *C*

Community vote distribution

C (100%)

Question #45*Topic 6*

You have an Azure subscription that contains a virtual network named VNet1.

VNet1 uses two ExpressRoute circuits that connect to two separate on-premises datacenters.

You need to create a dashboard to display detailed metrics and a visual representation of the network topology.

What should you use?

- A. Azure Monitor Network Insights
- B. a Data Collection Rule (DCR)
- C. Azure Virtual Network Watcher
- D. Log Analytics

Correct Answer: *A*

Community vote distribution

A (86%)

14%

Question #46*Topic 6*

You deploy Azure virtual machines to three Azure regions

Each region contains a virtual network. Each virtual network contains multiple subnets peered in a full mesh topology.

Each subnet contains a network security group (NSG) that has defined rules.

A user reports that he cannot use port 33000 to connect from a virtual machine in one region to a virtual machine in another region.

Which two options can you use to diagnose the issue? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Azure Virtual Network Manager
- B. IP flow verify
- C. Azure Monitor Network Insights
- D. Connection troubleshoot
- E. elective security rules

Correct Answer: *BC*

Community vote distribution

BD (100%)

Question #47*Topic 6*

You have an Azure subscription.

You need to receive an email alert when a resource lock is removed from any resource in the subscription.

What should you use to create an activity log alert in Azure Monitor?

- A. a resource, a condition, and an action group
- B. a resource, a condition, and a Microsoft 365 group
- C. a Log Analytics workspace, a resource, and an action group
- D. a data collection endpoint, an application security group, and a resource group

Correct Answer: *A*

Community vote distribution

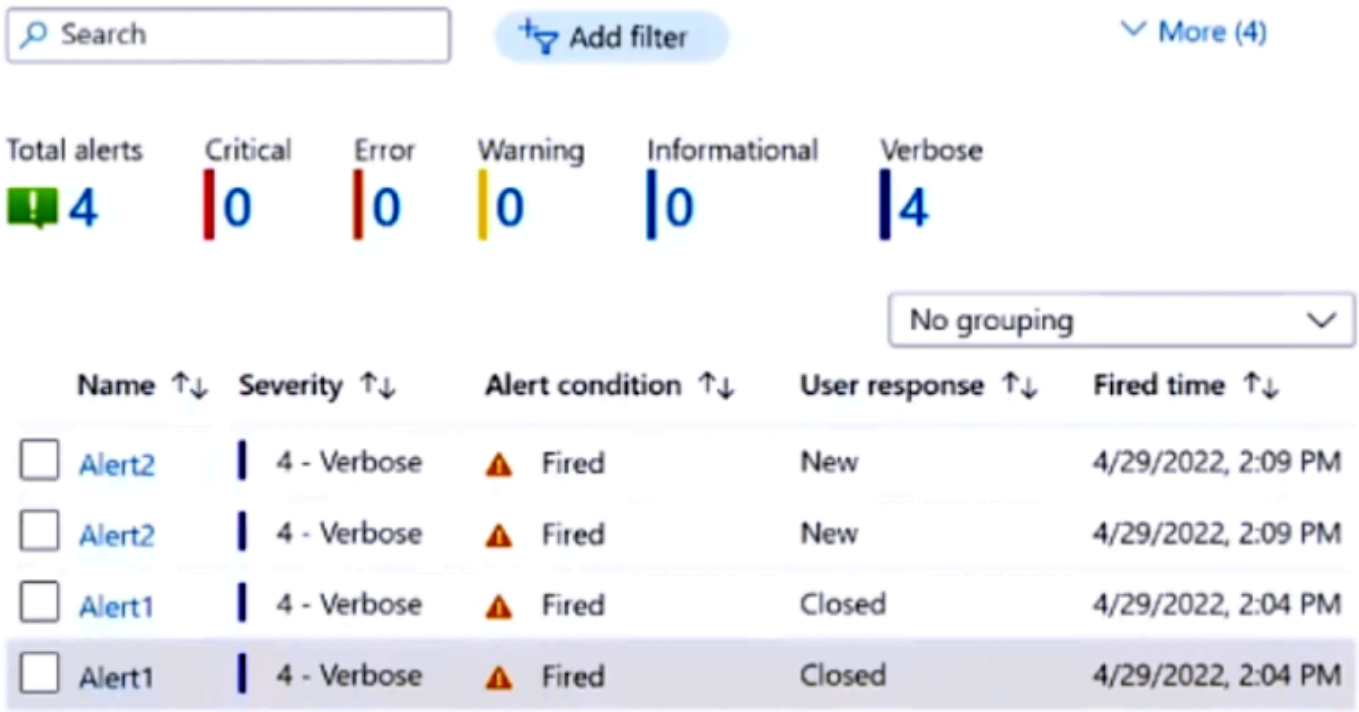
A (100%)

Question #48*Topic 6*

HOTSPOT

–

You have an Azure subscription that contains the alerts 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.

Answer Area

For Alert1, User response **[answer choice]**.

- cannot be changed
- can be changed to New only
- can be changed to Acknowledged only
- can be changed to New or Acknowledged

For Alert2, User response **[answer choice]**.

- cannot be changed
- can be changed to Acknowledged only
- can be changed to closed only
- can be changed to Acknowledged or Closed

Correct Answer:

Answer Area

For Alert1, User response **[answer choice]**.

- cannot be changed
- can be changed to New only
- can be changed to Acknowledged only
- can be changed to New or Acknowledged

For Alert2, User response **[answer choice]**.

- cannot be changed
- can be changed to Acknowledged only
- can be changed to closed only
- can be changed to Acknowledged or Closed

Question #49*Topic 6*

HOTSPOT

–

You create a Recovery Services vault backup policy named Policy1 as shown in the following exhibit:

Policy name *

Policy1

Backup schedule

Frequency *	Time *	Timezone *
Daily	11:00 PM	(UTC) Coordinated Universal Time

Instant Restore

Retain instant recovery snapshot(s) for

2 Day(s)

Retention range

Retention of daily backup point.

At	For
11:00 PM	30 Day(s)

Retention of weekly backup point.

On *	At	For
Sunday	11:00 PM	10 Week(s)

Retention of monthly backup point.

Week Based Day Based

On *	At	For
1	11:00 PM	36 Month(s)

Retention of yearly backup point.

Week Based Day Based

In * On * At For

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.

Answer Area

The backup that occurs on Sunday, March 1, will be retained for **[answer choice]**.

- 30 days
- 10 weeks
- 36 months
- 10 years

The backup that occurs on Sunday, November 1, will be retained for **[answer choice]**.

- 30 days
- 10 weeks
- 36 months
- 10 years

Correct Answer:

Answer Area

The backup that occurs on Sunday, March 1, will be retained for **[answer choice]**.

- 30 days
- 10 weeks
- 36 months
- **10 years**

The backup that occurs on Sunday, November 1, will be retained for **[answer choice]**.

- 30 days
- 10 weeks
- **36 months**
- 10 years

Question #50*Topic 6*

HOTSPOT

–

You have an Azure subscription that contains the vaults shown in the following table.

Name	Type
Recovery1	Recovery Services vault
Backup1	Azure Backup vault

You deploy the virtual machines shown in the following table.

Name	Operating system	Security Configuration
VM1	Windows Server	Azure Disk Encryption
VM2	Linux	Trusted launch

You have the backup policies shown in the following table.

Name	Type	In vault
Policy1	Standard	Recovery1
Policy2	Enhanced	Recovery2
Policy3	*Not applicable*	Backup1

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

NOTE: Each correct selection is worth one point.

Answer Area

Statements	Yes	No
VM1 can be backed up by using Policy1.	○	○
VM2 can be backed up by using Policy3.	○	○
VM2 can be backed up by using Policy2.	○	○

Correct Answer:

Answer Area

Statements	Yes	No
VM1 can be backed up by using Policy1.	◉	○
VM2 can be backed up by using Policy3.	○	◉
VM2 can be backed up by using Policy2.	◉	○

Question #51*Topic 6*

You have an Azure subscription. The subscription contains virtual machines that connect to a virtual network named VNet1.

You plan to configure Azure Monitor for VM Insights.

You need to ensure that all the virtual machines only communicate with Azure Monitor through VNet1.

What should you create first?

- A. a data collection rule (DCR)
- B. a Log Analytics workspace
- C. an Azure Monitor Private Link Scope (AMPLS)

- D. a private endpoint

Correct Answer: *C*

Community vote distribution

C (75%)

D (25%)

Question #52*Topic 6*

HOTSPOT

–

You have an Azure subscription that contains the vaults shown in the following table.

Name	Type
Backup1	Backup vault
Recovery1	Recovery Services vault

You create a storage account that contains the resources shown in the following table.

Name	Type
cont1	Blob container
share1	File share

To which vault can you back up cont1 and share1? To answer, select the appropriate options in the answer area.

NOTE: Each correct answer is worth one point.

Answer Area

cont1:

- Backup1 only
- Recovery1 only
- Backup1 or Recovery1
- Cannot be backed up to Backup1 or Recovery1

share1:

- Backup1 only
- Recovery1 only
- Backup1 or Recovery1
- Cannot be backed up to Backup1 or Recovery1

Correct Answer:

Answer Area

cont1:

- Backup1 only
- Recovery1 only
- Backup1 or Recovery1
- Cannot be backed up to Backup1 or Recovery1

share1:

- Backup1 only
- Recovery1 only
- Backup1 or Recovery1
- Cannot be backed up to Backup1 or Recovery1

Question #53*Topic 6*

You have an Azure subscription that contains an Azure Stream Analytics job named Job1.

You need to monitor input events for Job1 to identify the number of events that were NOT processed.

Which metric should you use?

- A. Out-of-Order Events
- B. Output Events
- C. Late Input Events
- D. Backlogged Input Events

Correct Answer: *D*

Community vote distribution

D (100%)

Question #54*Topic 6*

You have an Azure subscription that contains an Azure SQL database named DB1.

You plan to use Azure Monitor to monitor the performance of DB1. You must be able to run queries to analyze log data.

Which destination should you configure in the Diagnostic settings of DB1?

- A. Send to a Log Analytics workspace.
- B. Archive to a storage account.
- C. Stream to an Azure event hub.

Correct Answer: *A*

Community vote distribution

A (100%)

Question #55*Topic 6*

You have an Azure subscription. The subscription contains virtual machines that run Windows Server.

You have a data collection rule (DCR) named Rule1.

You plan to use the Azure Monitor Agent to collect events from Windows System event logs.

You only need to collect system events that have an ID of 1001.

Which type of query should you use for the data source in Rule1?

- A. SQL
- B. XPath
- C. KQL

Correct Answer: *B*

Community vote distribution

B (67%)

C (33%)

Question #56*Topic 6*

You have an Azure subscription that contains a virtual machine named VM1.

You have an on-premises datacenter that contains a domain controller named DC1. ExpressRoute is used to connect the on-premises datacenter to Azure.

You need to use Connection Monitor to identify network latency between VM1 and DC1.

What should you install on DC1?

- A. the Azure Connected Machine agent for Azure Arc-enabled servers
- B. the Azure Network Watcher Agent virtual machine extension
- C. the Log Analytics agent
- D. an Azure Monitor agent extension

Correct Answer: *D*

Community vote distribution

D (100%)

Question #57*Topic 6*

You have an Azure subscription that has Traffic Analytics configured.

You deploy a new virtual machine named VM1 that has the following settings:

• Region: East US

• Virtual network: VNet1

• NIC network security group: NSG1

You need to monitor VM1 traffic by using Traffic Analytics.

Which settings should you configure?

- A. Diagnostic settings for VM1
- B. NSG flow logs for NSG1
- C. Diagnostic settings for NSG1
- D. Insights for VM1

Correct Answer: *B*

Question #58*Topic 6*

You have an Azure subscription. The subscription contains 10 virtual machines that run Windows Server. Each virtual machine hosts a website in IIS and has the Azure Monitor Agent installed.

You need to collect the IIS logs from each virtual machine and store them in a Log Analytics workspace.

What should you configure first?

- A. a data collection endpoint
- B. an Azure Monitor Private Link Scope (AMPLS)
- C. Diagnostic settings
- D. VM insights
- E. a private endpoint

Correct Answer: *A*

Topic 7 – Testlet 1

Question #1*Topic 7*

Introductory Info Case study –

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Overview –

Contoso, Ltd. is a manufacturing company that has offices worldwide. Contoso works with partner organizations to bring products to market.

Contoso products are manufactured by using blueprint files that the company authors and maintains.

Existing Environment –

Currently, Contoso uses multiple types of servers for business operations, including the following:

File servers

Domain controllers

Microsoft SQL Server servers

Your network contains an Active Directory forest named contoso.com. All servers and client computers are joined to Active Directory.

You have a public-facing application named App1. App1 is comprised of the following three tiers:

A SQL database

A web front end

A processing middle tier –

▪

Each tier is comprised of five virtual machines. Users access the web front end by using HTTPS only.

Requirements –

Planned Changes –

Contoso plans to implement the following changes to the infrastructure:

Move all the tiers of App1 to Azure.

Move the existing product blueprint files to Azure Blob storage.

Create a hybrid directory to support an upcoming Microsoft 365 migration project.

Technical Requirements –

Contoso must meet the following technical requirements:

Move all the virtual machines for App1 to Azure.

Minimize the number of open ports between the App1 tiers.

Ensure that all the virtual machines for App1 are protected by backups.

Copy the blueprint files to Azure over the Internet.

Ensure that the blueprint files are stored in the archive storage tier.

Ensure that partner access to the blueprint files is secured and temporary.

Prevent user passwords or hashes of passwords from being stored in Azure.

Use unmanaged standard storage for the hard disks of the virtual machines.

Ensure that when users join devices to Azure Active Directory (Azure AD), the users use a mobile phone to verify their identity.

Minimize administrative effort whenever possible.

User Requirements –

Contoso identifies the following requirements for users:

Ensure that only users who are part of a group named Pilot can join devices to Azure AD.

Designate a new user named Admin1 as the service admin for the Azure subscription.

Admin1 must receive email alerts regarding service outages.

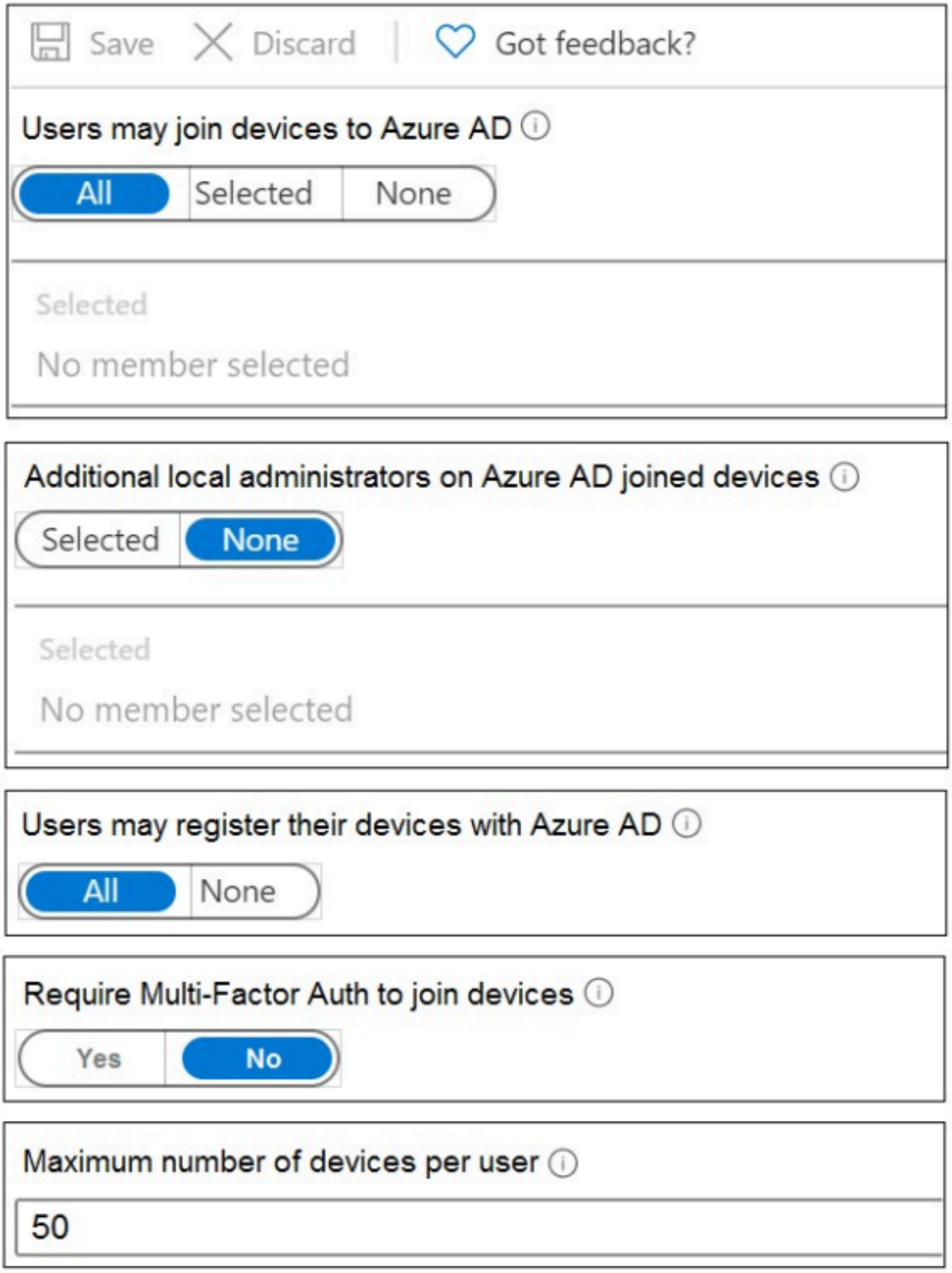
Ensure that a new user named User3 can create network objects for the Azure subscription.**Question**HOTSPOT –

You need to configure the Device settings to meet the technical requirements and the user requirements.

Which two settings should you modify? To answer, select the appropriate settings in the answer area.

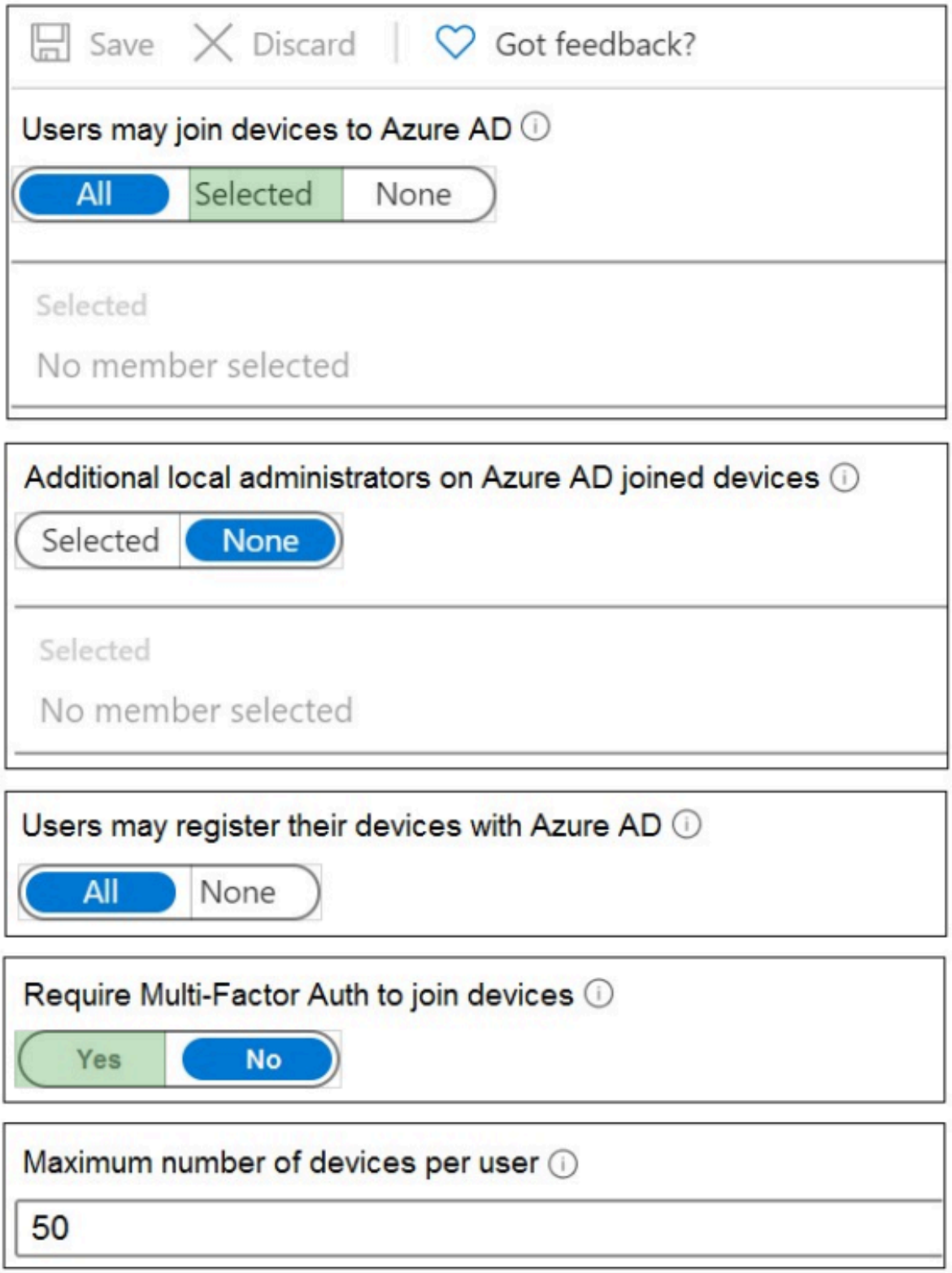
Hot Area:

Answer Area


Save
Discard
Got feedback?
Users may join devices to Azure AD
All
Selected
None
Selected
No member selected
Additional local administrators on Azure AD joined devices
Selected
None
Selected
No member selected
Users may register their devices with Azure AD
All
None
Require Multi-Factor Auth to join devices
Yes
No
Maximum number of devices per user
50

Correct Answer:

Answer Area



Box 1: Selected –

Only selected users should be able to join devices

Box 2: Yes –

Ensure that when users join devices to Azure Active Directory (Azure AD), the users use a mobile phone to verify their identity.

Question #2*Topic 7*

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Use unmanaged standard storage for the hard disks of the virtual machines.

Ensure that when users join devices to Azure Active Directory (Azure AD), the users use a mobile phone to verify their identity.

Minimize administrative effort whenever possible.

User Requirements –

Contoso identifies the following requirements for users:

Ensure that only users who are part of a group named Pilot can join devices to Azure AD.

Designate a new user named Admin1 as the service admin for the Azure subscription.

Admin1 must receive email alerts regarding service outages.

Ensure that a new user named User3 can create network objects for the Azure subscription.**Question**You need to meet the user requirement for Admin1.

What should you do?

- A. From the Azure Active Directory blade, modify the Groups
- B. From the Azure Active Directory blade, modify the Properties
- C. From the Subscriptions blade, select the subscription, and then modify the Access control (IAM) settings
- D. From the Subscriptions blade, select the subscription, and then modify the Properties

Correct Answer: *D*

Scenario:

👉 Designate a new user named Admin1 as the service admin for the Azure subscription.

👉 Admin1 must receive email alerts regarding service outages.

Follow these steps to change the Service Administrator in the Azure portal.

1. Make sure your scenario is supported by checking the limitations for changing the Service Administrator.

2. Sign in to the Azure portal as the Account Administrator.

3. Open Cost Management + Billing and select a subscription.

4. In the left navigation, click Properties.

5. Click Service Admin.

Reference:

https://docs.microsoft.com/en-us/azure/role-based-access-control/classic-administrators

Community vote distribution

D (57%)

C (43%)

Topic 8 – Testlet 10

Question #1*Topic 8*

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Overview –

General Overview –

Contoso, Ltd. is a consulting company that has a main office in Montreal and branch offices in Seattle and New York.

Environment –

Existing Environment –

Contoso has an Azure subscription named Sub1 that is linked to an Azure Active Directory (Azure AD) tenant. The network contains an on-premises Active

Directory domain that syncs to the Azure AD tenant.

The Azure AD tenant contains the users shown in the following table.

Name	Type	Role
User1	Member	**None**
User2	Guest	**None**
User3	Member	**None**
User4	Member	**None**

Sub1 contains two resource groups named RG1 and RG2 and the virtual networks shown in the following table.

Name	Subnet	Peered with
VNET1	Subnet1, Subnet2	VNET2
VNET2	Subnet1	VNET1, VNET3
VNET3	Subnet1	VNET2
VNET4	Subnet1	**None**

User1 manages the resources in RG1. User4 manages the resources in RG2.

Sub1 contains virtual machines that run Windows Server 2019 as shown in the following table

Name	IP address	Location	Connected to
VM1	10.0.1.4	West US	VNET1/Subnet1
VM2	10.0.2.4	West US	VNET1/Subnet2
VM3	172.16.1.4	Central US	VNET2/Subnet1
VM4	192.168.1.4	West US	VNET3/Subnet1
VM5	10.0.22.4	East US	VNET4/Subnet1

No network security groups (NSGs) are associated to the network interfaces or the subnets.

Sub1 contains the storage accounts shown in the following table.

Name	Kind	Location	File share	Identity-based access for file share
storage1	Storage (general purpose v1)	West US	sharea	Azure Active Directory Domain Services (Azure AD DS)
storage2	StorageV2 (general purpose v2)	East US	shareb, sharec	Disabled
storage3	BlobStorage	East US 2	**Not applicable**	**Not applicable**
storage4	FileStorage	Central US	shared	Azure Active Directory Domain Services (Azure AD DS)

Requirements –

Planned Changes –

Contoso plans to implement the following changes:

Create a blob container named container1 and a file share named share1 that will use the Cool storage tier.

Create a storage account named storage5 and configure storage replication for the Blob service.

Create an NSG named NSG1 that will have the custom inbound security rules shown in the following table.

Priority	Port	Protocol	Source	Destination	Action
500	3389	TCP	10.0.2.0/24	Any	Deny
1000	Any	ICMP	Any	VirtualNetwork	Allow

Associate NSG1 to the network interface of VM1.

Create an NSG named NSG2 that will have the custom outbound security rules shown in the following table.

.

Priority	Port	Protocol	Source	Destination	Action
200	3389	TCP	10.0.0.0/16	VirtualNetwork	Deny
400	Any	ICMP	10.0.2.0/24	10.0.1.0/24	Allow

Associate NSG2 to VNET1/Subnet2.

Technical Requirements –

Contoso must meet the following technical requirements:

Create container1 and share1.

Use the principle of least privilege.

Create an Azure AD security group named Group4.

Back up the Azure file shares and virtual machines by using Azure Backup.

Trigger an alert if VM1 or VM2 has less than 20 GB of free space on volume C.

Enable User1 to create Azure policy definitions and User2 to assign Azure policies to RG1.

Create an internal Basic Azure Load Balancer named LB1 and connect the load balancer to VNET1/Subnet1

Enable flow logging for IP traffic from VM5 and retain the flow logs for a period of eight months.

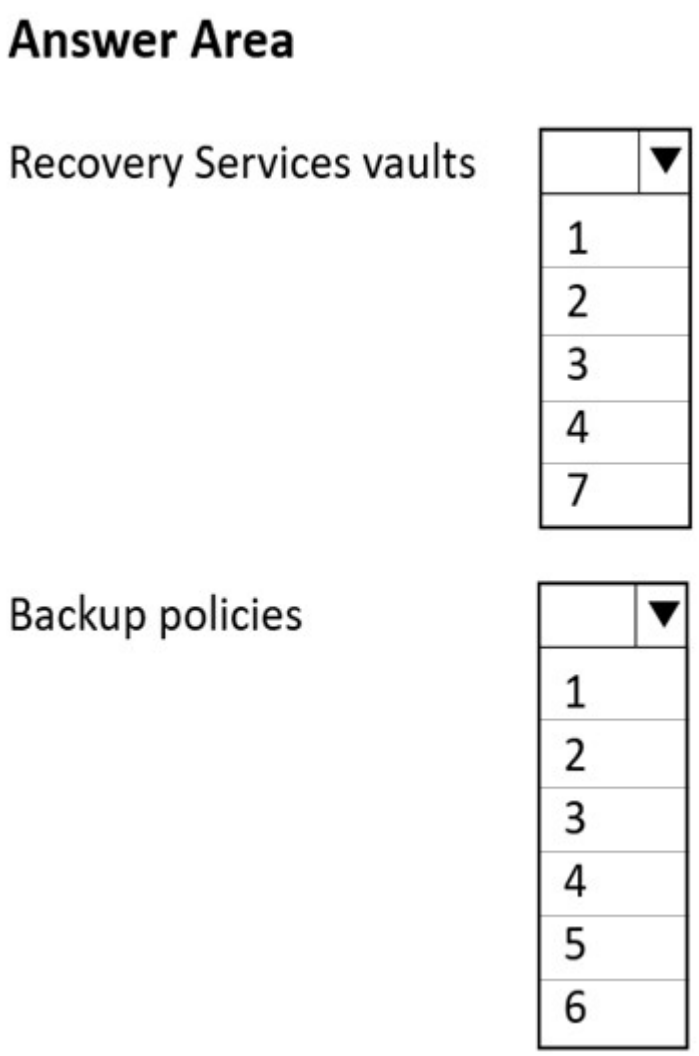
Whenever possible, grant Group4 Azure role-based access control (Azure RBAC) read-only permissions to the Azure file shares.**Question**HOTSPOT –

You need to configure Azure Backup to back up the file shares and virtual machines.

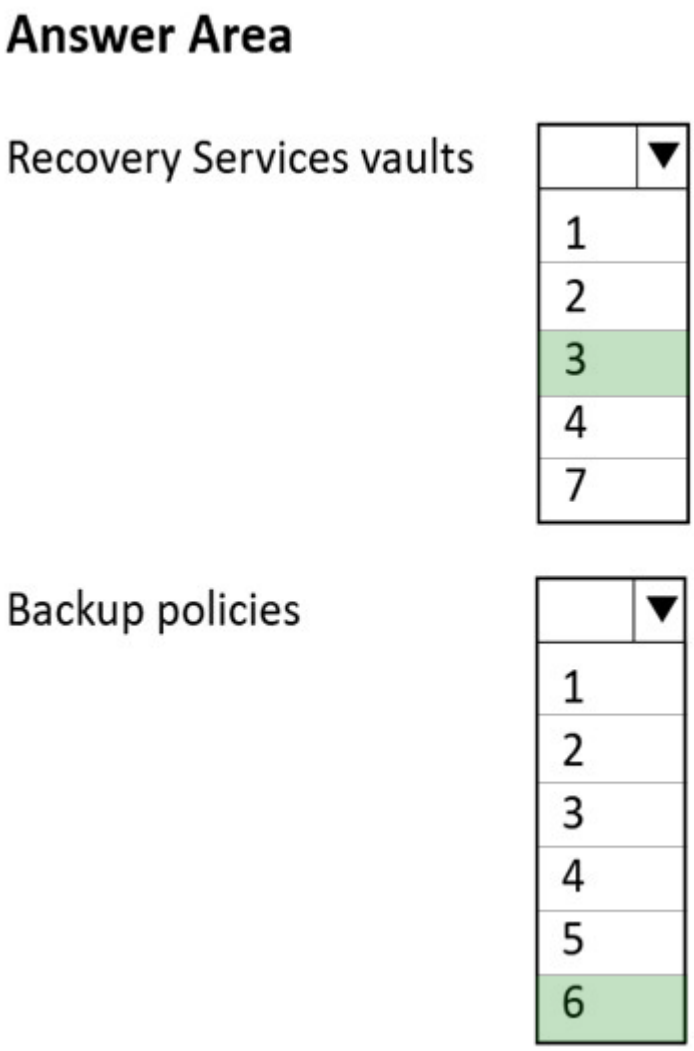
What is the minimum number of Recovery Services vaults and backup policies you should create? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:



Box 1: 3 –

If you have data sources in multiple regions, create a Recovery Services vault for each region.

The File Shares and VMs are located in three Regions: West US, East US, Central US.

Box 2: 6 –

A backup policy is scoped to a vault. For each vault we need one backup policy for File Shares and one backup policy for VM.

Note:

Back up the Azure file shares and virtual machines by using Azure Backup

Name	Kind	Location	File share	Identity-based access for file share
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Reference:

https://docs.microsoft.com/en-us/azure/backup/backup-create-rs-vault
https://docs.microsoft.com/en-us/azure/backup/guidance-best-practices

Question #2*Topic 8*

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1000	Any	ICMP	Any	VirtualNetwork	Allow

Associate NSG1 to the network interface of VM1.

Create an NSG named NSG2 that will have the custom outbound security rules shown in the following table.

▪

Priority	Port	Protocol	Source	Destination	Action
200	3389	TCP	10.0.0.0/16	VirtualNetwork	Deny
400	Any	ICMP	10.0.2.0/24	10.0.1.0/24	Allow

Associate NSG2 to VNET1/Subnet2.

Technical Requirements –

Contoso must meet the following technical requirements:

Create container1 and share1.

Use the principle of least privilege.

Create an Azure AD security group named Group4.

Back up the Azure file shares and virtual machines by using Azure Backup.

Trigger an alert if VM1 or VM2 has less than 20 GB of free space on volume C.

Enable User1 to create Azure policy definitions and User2 to assign Azure policies to RG1.

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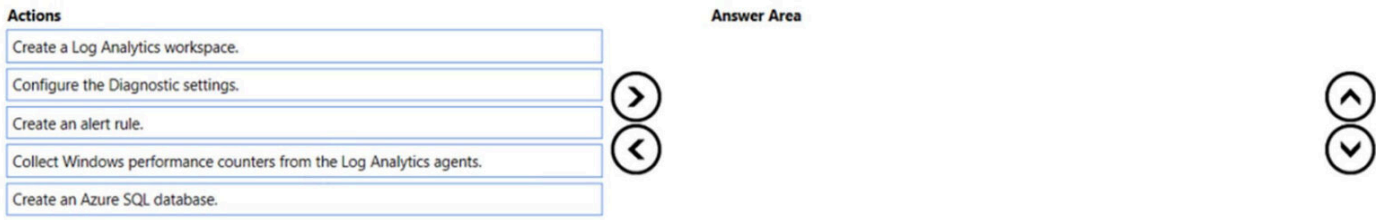
Whenever possible, grant Group4 Azure role-based access control (Azure RBAC) read-only permissions to the Azure file shares.**Question**DRAG DROP –

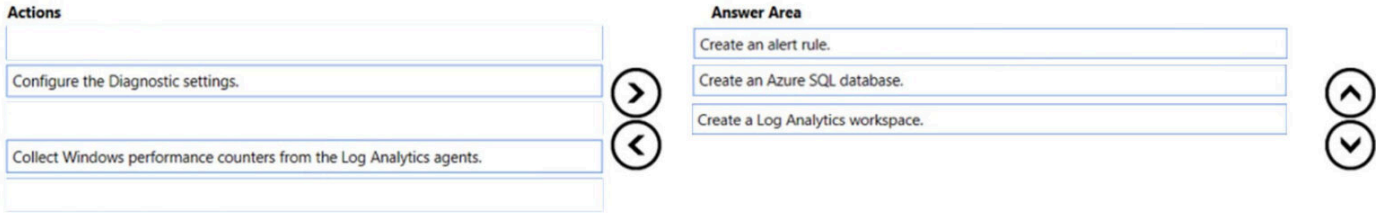
You need to configure the alerts for VM1 and VM2 to meet the technical requirements.

Which three actions should you perform in sequence? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:



Correct Answer:



Topic 9 – Testlet 2

Question #1*Topic 9*

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Name	Type	Role
User1	Member	**None**
User2	Guest	**None**
User3	Member	**None**
User4	Member	**None**

Sub1 contains two resource groups named RG1 and RG2 and the virtual networks shown in the following table.

Name	Subnet	Peered with
VNET1	Subnet1, Subnet2	VNET2
VNET2	Subnet1	VNET1, VNET3
VNET3	Subnet1	VNET2
VNET4	Subnet1	**None**

User1 manages the resources in RG1. User4 manages the resources in RG2.

Sub1 contains virtual machines that run Windows Server 2019 as shown in the following table

Name	IP address	Location	Connected to
VM1	10.0.1.4	West US	VNET1/Subnet1
VM2	10.0.2.4	West US	VNET1/Subnet2
VM3	172.16.1.4	Central US	VNET2/Subnet1
VM4	192.168.1.4	West US	VNET3/Subnet1
VM5	10.0.22.4	East US	VNET4/Subnet1

No network security groups (NSGs) are associated to the network interfaces or the subnets.

Sub1 contains the storage accounts shown in the following table.

Name	Kind	Location	File share	Identity-based access for file share
storage1	Storage (general purpose v1)	West US	sharea	Azure Active Directory Domain Services (Azure AD DS)
storage2	StorageV2 (general purpose v2)	East US	shareb, sharec	Disabled
storage3	BlobStorage	East US 2	**Not applicable**	**Not applicable**
storage4	FileStorage	Central US	shared	Azure Active Directory Domain Services (Azure AD DS)

Requirements –

Planned Changes –

Contoso plans to implement the following changes:

Create a blob container named container1 and a file share named share1 that will use the Cool storage tier.

Create a storage account named storage5 and configure storage replication for the Blob service.

Create an NSG named NSG1 that will have the custom inbound security rules shown in the following table.

Priority	Port	Protocol	Source	Destination	Action
500	3389	TCP	10.0.2.0/24	Any	Deny
1000	Any	ICMP	Any	VirtualNetwork	Allow

Associate NSG1 to the network interface of VM1.

Create an NSG named NSG2 that will have the custom outbound security rules shown in the following table.

▪

Priority	Port	Protocol	Source	Destination	Action
200	3389	TCP	10.0.0.0/16	VirtualNetwork	Deny
400	Any	ICMP	10.0.2.0/24	10.0.1.0/24	Allow

Associate NSG2 to VNET1/Subnet2.

Technical Requirements –

Contoso must meet the following technical requirements:

Create container1 and share1.

Use the principle of least privilege.

Create an Azure AD security group named Group4.

Back up the Azure file shares and virtual machines by using Azure Backup.

Trigger an alert if VM1 or VM2 has less than 20 GB of free space on volume C.

Enable User1 to create Azure policy definitions and User2 to assign Azure policies to RG1.

Create an internal Basic Azure Load Balancer named LB1 and connect the load balancer to VNET1/Subnet1

Enable flow logging for IP traffic from VM5 and retain the flow logs for a period of eight months.

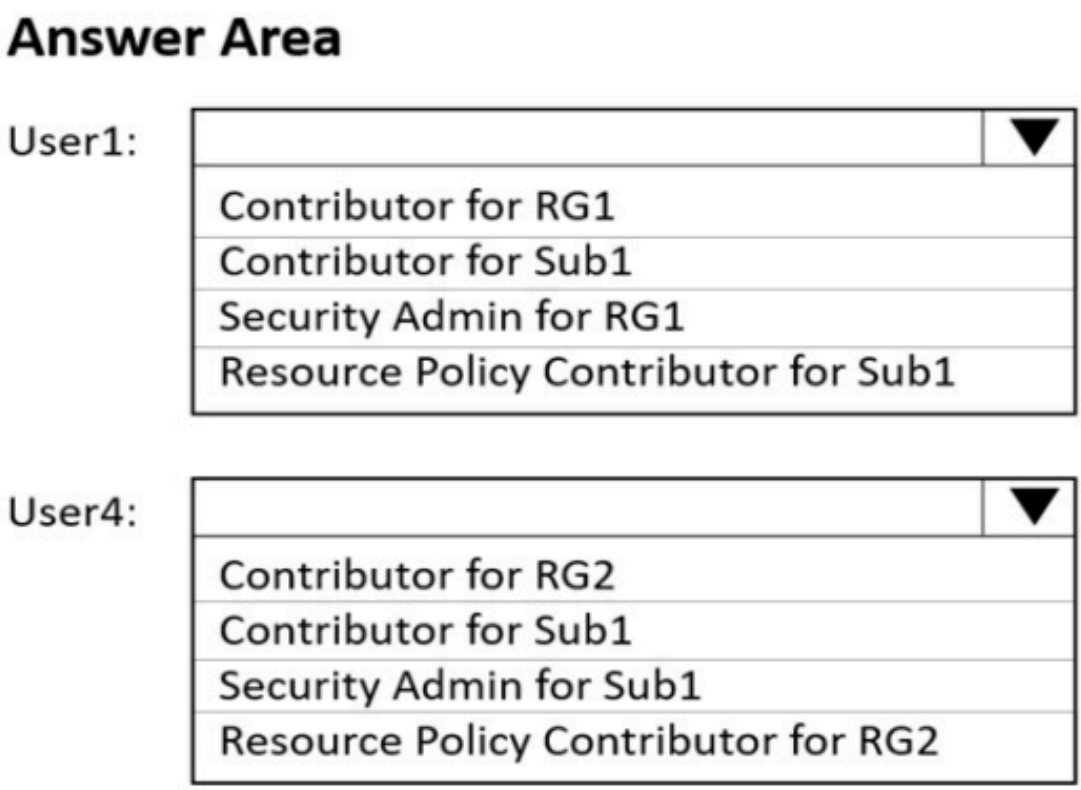
Whenever possible, grant Group4 Azure role-based access control (Azure RBAC) read-only permissions to the Azure file shares.**Question**HOTSPOT –

You need to ensure that User1 can create initiative definitions, and User4 can assign initiatives to RG2. The solution must meet the technical requirements.

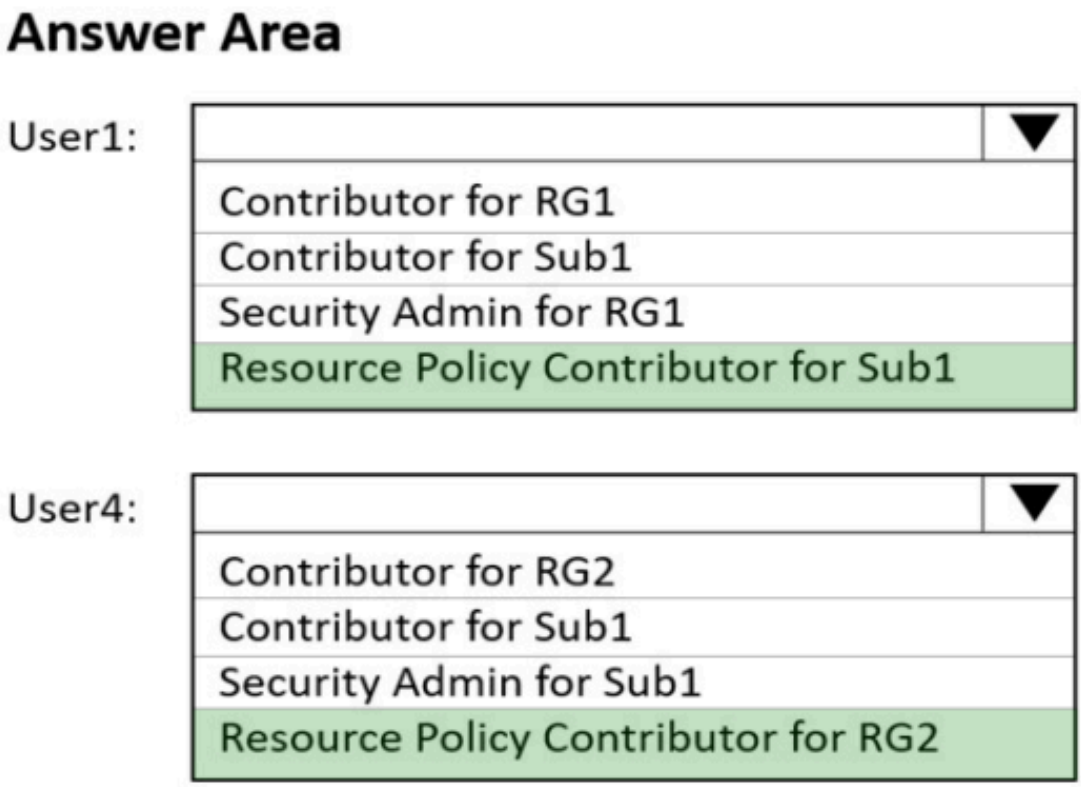
Which role should you assign to each user? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:



Reference:

https://docs.microsoft.com/en-us/azure/governance/policy/overview

Question #2*Topic 9*

Introductory Info Case study –

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To start the case study –

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Overview –

General Overview –

Contoso, Ltd. is a consulting company that has a main office in Montreal and branch offices in Seattle and New York.

Environment –

Existing Environment –

Contoso has an Azure subscription named Sub1 that is linked to an Azure Active Directory (Azure AD) tenant. The network contains an on-premises Active

Directory domain that syncs to the Azure AD tenant.

The Azure AD tenant contains the users shown in the following table.

Name	Type	Role
User1	Member	**None**
User2	Guest	**None**
User3	Member	**None**
User4	Member	**None**

Sub1 contains two resource groups named RG1 and RG2 and the virtual networks shown in the following table.

Name	Subnet	Peered with
VNET1	Subnet1, Subnet2	VNET2
VNET2	Subnet1	VNET1, VNET3
VNET3	Subnet1	VNET2
VNET4	Subnet1	**None**

User1 manages the resources in RG1. User4 manages the resources in RG2.

Sub1 contains virtual machines that run Windows Server 2019 as shown in the following table

Name	IP address	Location	Connected to
VM1	10.0.1.4	West US	VNET1/Subnet1
VM2	10.0.2.4	West US	VNET1/Subnet2
VM3	172.16.1.4	Central US	VNET2/Subnet1
VM4	192.168.1.4	West US	VNET3/Subnet1
VM5	10.0.22.4	East US	VNET4/Subnet1

No network security groups (NSGs) are associated to the network interfaces or the subnets.

Sub1 contains the storage accounts shown in the following table.

Name	Kind	Location	File share	Identity-based access for file share
storage1	Storage (general purpose v1)	West US	sharea	Azure Active Directory Domain Services (Azure AD DS)
storage2	StorageV2 (general purpose v2)	East US	shareb, sharec	Disabled
storage3	BlobStorage	East US 2	**Not applicable**	**Not applicable**
storage4	FileStorage	Central US	shared	Azure Active Directory Domain Services (Azure AD DS)

Requirements –

Planned Changes –

Contoso plans to implement the following changes:

Create a blob container named container1 and a file share named share1 that will use the Cool storage tier.

Create a storage account named storage5 and configure storage replication for the Blob service.

Create an NSG named NSG1 that will have the custom inbound security rules shown in the following table.

Priority	Port	Protocol	Source	Destination	Action
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1000	Any	ICMP	Any	VirtualNetwork	Allow

Associate NSG1 to the network interface of VM1.

Create an NSG named NSG2 that will have the custom outbound security rules shown in the following table.

.

Priority	Port	Protocol	Source	Destination	Action
200	3389	TCP	10.0.0.0/16	VirtualNetwork	Deny
400	Any	ICMP	10.0.2.0/24	10.0.1.0/24	Allow

Associate NSG2 to VNET1/Subnet2.

Technical Requirements –

Contoso must meet the following technical requirements:

Create container1 and share1.

Use the principle of least privilege.

Create an Azure AD security group named Group4.

Back up the Azure file shares and virtual machines by using Azure Backup.

Trigger an alert if VM1 or VM2 has less than 20 GB of free space on volume C.

Enable User1 to create Azure policy definitions and User2 to assign Azure policies to RG1.

Create an internal Basic Azure Load Balancer named LB1 and connect the load balancer to VNET1/Subnet1

Enable flow logging for IP traffic from VM5 and retain the flow logs for a period of eight months.

Whenever possible, grant Group4 Azure role-based access control (Azure RBAC) read-only permissions to the Azure file shares.**Question**You need to ensure that you can grant Group4 Azure RBAC read only permissions to all the Azure file shares.

What should you do?

- A. On storage2, enable identity-based access for the file shares.
- B. Recreate storage2 and set Hierarchical namespace to Enabled.
- C. On storage1 and storage4, change the Account kind type to StorageV2 (general purpose v2).
- D. Create a shared access signature (SAS) for storage1, storage2, and storage4.

Correct Answer: *A*

Azure Files supports identity-based authentication over Server Message Block (SMB) through on-premises Active Directory Domain Services (AD DS) and Azure

Active Directory Domain Services (Azure AD DS).

Reference:

https://docs.microsoft.com/en-us/azure/storage/files/storage-files-active-directory-overview

Community vote distribution

A (100%)

Topic 10 – Testlet 3

Question #1*Topic 10*

Introductory Info Case study –

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Overview –

Contoso, Ltd. is a manufacturing company that has offices worldwide. Contoso works with partner organizations to bring products to market.

Contoso products are manufactured by using blueprint files that the company authors and maintains.

Existing Environment –

Currently, Contoso uses multiple types of servers for business operations, including the following:

File servers

Domain controllers

Microsoft SQL Server servers

Your network contains an Active Directory forest named contoso.com. All servers and client computers are joined to Active Directory.

You have a public-facing application named App1. App1 is comprised of the following three tiers:

A SQL database

A web front end

A processing middle tier –

▪

Each tier is comprised of five virtual machines. Users access the web front end by using HTTPS only.

Requirements –

Planned Changes –

Contoso plans to implement the following changes to the infrastructure:

Move all the tiers of App1 to Azure.

Move the existing product blueprint files to Azure Blob storage.

Create a hybrid directory to support an upcoming Microsoft 365 migration project.

Technical Requirements –

Contoso must meet the following technical requirements:

Move all the virtual machines for App1 to Azure.

Minimize the number of open ports between the App1 tiers.

Ensure that all the virtual machines for App1 are protected by backups.

Copy the blueprint files to Azure over the Internet.

Ensure that the blueprint files are stored in the archive storage tier.

Ensure that partner access to the blueprint files is secured and temporary.

Prevent user passwords or hashes of passwords from being stored in Azure.

Use unmanaged standard storage for the hard disks of the virtual machines.

Ensure that when users join devices to Azure Active Directory (Azure AD), the users use a mobile phone to verify their identity.

Minimize administrative effort whenever possible.

User Requirements –

Contoso identifies the following requirements for users:

Ensure that only users who are part of a group named Pilot can join devices to Azure AD.

Designate a new user named Admin1 as the service admin for the Azure subscription.

Admin1 must receive email alerts regarding service outages.

Ensure that a new user named User3 can create network objects for the Azure subscription.**Question**You need to implement a backup solution for App1 after the application is moved.

What should you create first?

- A. a recovery plan
- B. an Azure Backup Server
- C. a backup policy
- D. a Recovery Services vault

Correct Answer: *D*

A Recovery Services vault is a logical container that stores the backup data for each protected resource, such as Azure VMs. When the backup job for a protected resource runs, it creates a recovery point inside the Recovery Services vault.

Scenario:

There are three application tiers, each with five virtual machines.

Move all the virtual machines for App1 to Azure.

Ensure that all the virtual machines for App1 are protected by backups.

Reference:

https://docs.microsoft.com/en-us/azure/backup/quick-backup-vm-portal

Community vote distribution

D (100%)

Question #2*Topic 10*

Introductory Info Case study –

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Overview –

Contoso, Ltd. is a manufacturing company that has offices worldwide. Contoso works with partner organizations to bring products to market.

Contoso products are manufactured by using blueprint files that the company authors and maintains.

Existing Environment –

Currently, Contoso uses multiple types of servers for business operations, including the following:

File servers

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Microsoft SQL Server servers

Your network contains an Active Directory forest named contoso.com. All servers and client computers are joined to Active Directory.

You have a public-facing application named App1. App1 is comprised of the following three tiers:

A SQL database

A web front end

A processing middle tier –

▪

Each tier is comprised of five virtual machines. Users access the web front end by using HTTPS only.

Requirements –

Planned Changes –

Contoso plans to implement the following changes to the infrastructure:

Move all the tiers of App1 to Azure.

Move the existing product blueprint files to Azure Blob storage.

Create a hybrid directory to support an upcoming Microsoft 365 migration project.

Technical Requirements –

Contoso must meet the following technical requirements:

Move all the virtual machines for App1 to Azure.

Minimize the number of open ports between the App1 tiers.

Ensure that all the virtual machines for App1 are protected by backups.

Copy the blueprint files to Azure over the Internet.

Ensure that the blueprint files are stored in the archive storage tier.

Ensure that partner access to the blueprint files is secured and temporary.

Prevent user passwords or hashes of passwords from being stored in Azure.

Use unmanaged standard storage for the hard disks of the virtual machines.

Ensure that when users join devices to Azure Active Directory (Azure AD), the users use a mobile phone to verify their identity.

Minimize administrative effort whenever possible.

User Requirements –

Contoso identifies the following requirements for users:

Ensure that only users who are part of a group named Pilot can join devices to Azure AD.

Designate a new user named Admin1 as the service admin for the Azure subscription.

Admin1 must receive email alerts regarding service outages.

Ensure that a new user named User3 can create network objects for the Azure subscription.**Question**You need to move the blueprint files to Azure.

What should you do?

- A. Generate an access key. Map a drive, and then copy the files by using File Explorer.
- B. Use Azure Storage Explorer to copy the files.
- C. Use the Azure Import/Export service.
- D. Generate a shared access signature (SAS). Map a drive, and then copy the files by using File Explorer.

Correct Answer: *B*

Azure Storage Explorer is a free tool from Microsoft that allows you to work with Azure Storage data on Windows, macOS, and Linux. You can use it to upload and download data from Azure blob storage.

Scenario:

Planned Changes include: move the existing product blueprint files to Azure Blob storage.

Technical Requirements include: Copy the blueprint files to Azure over the Internet.

Reference:

https://docs.microsoft.com/en-us/azure/machine-learning/team-data-science-process/move-data-to-azure-blob-using-azure-storage-explorer

Community vote distribution

B (100%)

Question #3*Topic 10*

Introductory Info Case study –

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To start the case study –

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Overview –

Contoso, Ltd. is a manufacturing company that has offices worldwide. Contoso works with partner organizations to bring products to market.

Contoso products are manufactured by using blueprint files that the company authors and maintains.

Existing Environment –

Currently, Contoso uses multiple types of servers for business operations, including the following:

File servers

Domain controllers

Microsoft SQL Server servers

Your network contains an Active Directory forest named contoso.com. All servers and client computers are joined to Active Directory.

You have a public-facing application named App1. App1 is comprised of the following three tiers:

A SQL database

A web front end

A processing middle tier –

▪

Each tier is comprised of five virtual machines. Users access the web front end by using HTTPS only.

Requirements –

Planned Changes –

Contoso plans to implement the following changes to the infrastructure:

Move all the tiers of App1 to Azure.

Move the existing product blueprint files to Azure Blob storage.

Create a hybrid directory to support an upcoming Microsoft 365 migration project.

Technical Requirements –

Contoso must meet the following technical requirements:

Move all the virtual machines for App1 to Azure.

Minimize the number of open ports between the App1 tiers.

Ensure that all the virtual machines for App1 are protected by backups.

Copy the blueprint files to Azure over the Internet.

Ensure that the blueprint files are stored in the archive storage tier.

Ensure that partner access to the blueprint files is secured and temporary.

Prevent user passwords or hashes of passwords from being stored in Azure.

Use unmanaged standard storage for the hard disks of the virtual machines.

Ensure that when users join devices to Azure Active Directory (Azure AD), the users use a mobile phone to verify their identity.

Minimize administrative effort whenever possible.

User Requirements –

Contoso identifies the following requirements for users:

Ensure that only users who are part of a group named Pilot can join devices to Azure AD.

Designate a new user named Admin1 as the service admin for the Azure subscription.

Admin1 must receive email alerts regarding service outages.

Ensure that a new user named User3 can create network objects for the Azure subscription.**Question**HOTSPOT –

You need to identify the storage requirements for Contoso.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
Contoso requires a storage account that supports Blob storage.	○	○
Contoso requires a storage account that supports Azure Table storage.	○	○
Contoso requires a storage account that supports Azure File Storage.	○	○

Correct Answer:

Answer Area

Statements	Yes	No
Contoso requires a storage account that supports Blob storage.	○	○
Contoso requires a storage account that supports Azure Table storage.	○	○
Contoso requires a storage account that supports Azure File Storage.	○	○

Box 1: Yes –

Contoso is moving the existing product blueprint files to Azure Blob storage.

Use unmanaged standard storage for the hard disks of the virtual machines. We use Page Blobs for these.

Box 2: No –

Box 3: No

Topic 11 – Testlet 4

Question #1*Topic 11*

Introductory Info Case study –

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Overview –

General Overview –

Contoso, Ltd. is a consulting company that has a main office in Montreal and branch offices in Seattle and New York.

Environment –

Existing Environment –

Contoso has an Azure subscription named Sub1 that is linked to an Azure Active Directory (Azure AD) tenant. The network contains an on-premises Active

Directory domain that syncs to the Azure AD tenant.

The Azure AD tenant contains the users shown in the following table.

Name	Type	Role
User1	Member	**None**
User2	Guest	**None**
User3	Member	**None**
User4	Member	**None**

Sub1 contains two resource groups named RG1 and RG2 and the virtual networks shown in the following table.

Name	Subnet	Peered with
VNET1	Subnet1, Subnet2	VNET2
VNET2	Subnet1	VNET1, VNET3
VNET3	Subnet1	VNET2
VNET4	Subnet1	**None**

User1 manages the resources in RG1. User4 manages the resources in RG2.

Sub1 contains virtual machines that run Windows Server 2019 as shown in the following table

Name	IP address	Location	Connected to
VM1	10.0.1.4	West US	VNET1/Subnet1
VM2	10.0.2.4	West US	VNET1/Subnet2
VM3	172.16.1.4	Central US	VNET2/Subnet1
VM4	192.168.1.4	West US	VNET3/Subnet1
VM5	10.0.22.4	East US	VNET4/Subnet1

No network security groups (NSGs) are associated to the network interfaces or the subnets.

Sub1 contains the storage accounts shown in the following table.

Name	Kind	Location	File share	Identity-based access for file share
storage1	Storage (general purpose v1)	West US	sharea	Azure Active Directory Domain Services (Azure AD DS)
storage2	StorageV2 (general purpose v2)	East US	shareb, sharec	Disabled
storage3	BlobStorage	East US 2	**Not applicable**	**Not applicable**
storage4	FileStorage	Central US	shared	Azure Active Directory Domain Services (Azure AD DS)

Requirements –

Planned Changes –

Contoso plans to implement the following changes:

Create a blob container named container1 and a file share named share1 that will use the Cool storage tier.

Create a storage account named storage5 and configure storage replication for the Blob service.

Create an NSG named NSG1 that will have the custom inbound security rules shown in the following table.

Priority	Port	Protocol	Source	Destination	Action
500	3389	TCP	10.0.2.0/24	Any	Deny
1000	Any	ICMP	Any	VirtualNetwork	Allow

Associate NSG1 to the network interface of VM1.

Create an NSG named NSG2 that will have the custom outbound security rules shown in the following table.

▪

Priority	Port	Protocol	Source	Destination	Action
200	3389	TCP	10.0.0.0/16	VirtualNetwork	Deny
400	Any	ICMP	10.0.2.0/24	10.0.1.0/24	Allow

Associate NSG2 to VNET1/Subnet2.

Technical Requirements –

Contoso must meet the following technical requirements:

Create container1 and share1.

Use the principle of least privilege.

Create an Azure AD security group named Group4.

Back up the Azure file shares and virtual machines by using Azure Backup.

Trigger an alert if VM1 or VM2 has less than 20 GB of free space on volume C.

Enable User1 to create Azure policy definitions and User2 to assign Azure policies to RG1.

Create an internal Basic Azure Load Balancer named LB1 and connect the load balancer to VNET1/Subnet1

Enable flow logging for IP traffic from VM5 and retain the flow logs for a period of eight months.

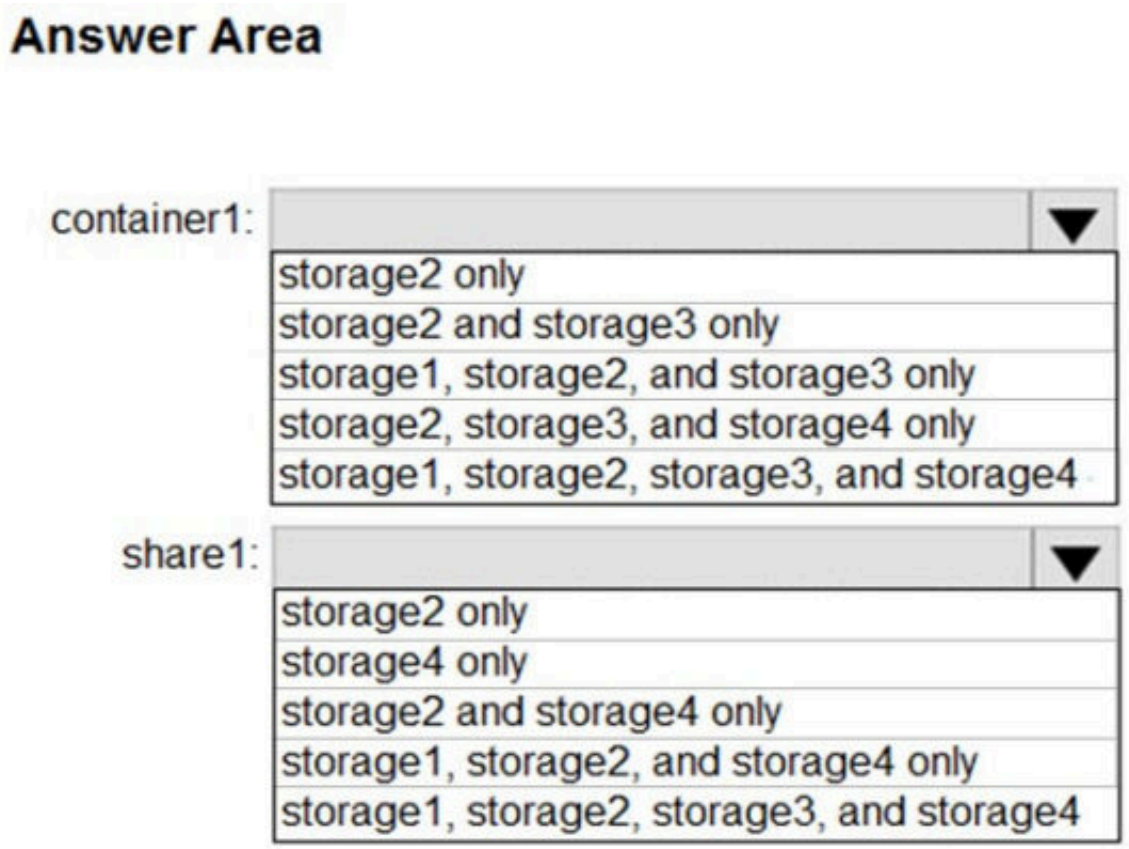
Whenever possible, grant Group4 Azure role-based access control (Azure RBAC) read-only permissions to the Azure file shares.**Question**HOTSPOT –

You need to create container1 and share1.

Which storage accounts should you use for each resource? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:

Answer Area

container1:

- storage2 only
- storage2 and storage3 only
- storage1, storage2, and storage3 only
- storage2, storage3, and storage4 only
- storage1, storage2, storage3, and storage4

share1:

- storage2 only
- storage4 only
- storage2 and storage4 only
- storage1, storage2, and storage4 only
- storage1, storage2, storage3, and storage4

Reference:

https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers
https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview

Question #2*Topic 11*

Introductory Info Case study –

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Overview –

General Overview –

Contoso, Ltd. is a consulting company that has a main office in Montreal and branch offices in Seattle and New York.

Environment –

Existing Environment –

Contoso has an Azure subscription named Sub1 that is linked to an Azure Active Directory (Azure AD) tenant. The network contains an on-premises Active

Directory domain that syncs to the Azure AD tenant.

The Azure AD tenant contains the users shown in the following table.

Name	Type	Role
User1	Member	**None**
User2	Guest	**None**
User3	Member	**None**
User4	Member	**None**

Sub1 contains two resource groups named RG1 and RG2 and the virtual networks shown in the following table.

Name	Subnet	Peered with
VNET1	Subnet1, Subnet2	VNET2
VNET2	Subnet1	VNET1, VNET3
VNET3	Subnet1	VNET2
VNET4	Subnet1	**None**

User1 manages the resources in RG1. User4 manages the resources in RG2.

Sub1 contains virtual machines that run Windows Server 2019 as shown in the following table

Name	IP address	Location	Connected to
VM1	10.0.1.4	West US	VNET1/Subnet1
VM2	10.0.2.4	West US	VNET1/Subnet2
VM3	172.16.1.4	Central US	VNET2/Subnet1
VM4	192.168.1.4	West US	VNET3/Subnet1
VM5	10.0.22.4	East US	VNET4/Subnet1

No network security groups (NSGs) are associated to the network interfaces or the subnets.

Sub1 contains the storage accounts shown in the following table.

Name	Kind	Location	File share	Identity-based access for file share
storage1	Storage (general purpose v1)	West US	sharea	Azure Active Directory Domain Services (Azure AD DS)
storage2	StorageV2 (general purpose v2)	East US	shareb, sharec	Disabled
storage3	BlobStorage	East US 2	**Not applicable**	**Not applicable**
storage4	FileStorage	Central US	shared	Azure Active Directory Domain Services (Azure AD DS)

Requirements –

Planned Changes –

Contoso plans to implement the following changes:

Create a blob container named container1 and a file share named share1 that will use the Cool storage tier.

Create a storage account named storage5 and configure storage replication for the Blob service.

Create an NSG named NSG1 that will have the custom inbound security rules shown in the following table.

Priority	Port	Protocol	Source	Destination	Action
500	3389	TCP	10.0.2.0/24	Any	Deny
1000	Any	ICMP	Any	VirtualNetwork	Allow

Associate NSG1 to the network interface of VM1.

Create an NSG named NSG2 that will have the custom outbound security rules shown in the following table.

▪

Priority	Port	Protocol	Source	Destination	Action
200	3389	TCP	10.0.0.0/16	VirtualNetwork	Deny
400	Any	ICMP	10.0.2.0/24	10.0.1.0/24	Allow

Associate NSG2 to VNET1/Subnet2.

Technical Requirements –

Contoso must meet the following technical requirements:

Create container1 and share1.

Use the principle of least privilege.

Create an Azure AD security group named Group4.

Back up the Azure file shares and virtual machines by using Azure Backup.

Trigger an alert if VM1 or VM2 has less than 20 GB of free space on volume C.

Enable User1 to create Azure policy definitions and User2 to assign Azure policies to RG1.

Create an internal Basic Azure Load Balancer named LB1 and connect the load balancer to VNET1/Subnet1

Enable flow logging for IP traffic from VM5 and retain the flow logs for a period of eight months.

Whenever possible, grant Group4 Azure role-based access control (Azure RBAC) read-only permissions to the Azure file shares.**Question**HOTSPOT –

You need to create storage5. The solution must support the planned changes.

Which type of storage account should you use, and which account should you configure as the destination storage account? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Account kind:

- BlobStorage
- BlockBlobStorage
- Storage (general purpose v1)
- StorageV2 (general purpose v2)

Destination:

- Storage1
- Storage2
- Storage3
- Storage4

Correct Answer:

Answer Area

Account kind:

- BlobStorage
- BlockBlobStorage
- Storage (general purpose v1)
- StorageV2 (general purpose v2)

Destination:

- Storage1
- Storage2
- Storage3
- Storage4

Reference:

https://docs.microsoft.com/en-us/azure/storage/blobs/object-replication-configure?tabs=portal

Question #3*Topic 11*

Introductory Info Case study –

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Overview –

General Overview –

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Environment –

Existing Environment –

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Directory domain that syncs to the Azure AD tenant.

The Azure AD tenant contains the users shown in the following table.

Name	Type	Role
User1	Member	**None**
User2	Guest	**None**
User3	Member	**None**
User4	Member	**None**

Sub1 contains two resource groups named RG1 and RG2 and the virtual networks shown in the following table.

Name	Subnet	Peered with
VNET1	Subnet1, Subnet2	VNET2
VNET2	Subnet1	VNET1, VNET3
VNET3	Subnet1	VNET2
VNET4	Subnet1	**None**

User1 manages the resources in RG1. User4 manages the resources in RG2.

Sub1 contains virtual machines that run Windows Server 2019 as shown in the following table

Name	IP address	Location	Connected to
VM1	10.0.1.4	West US	VNET1/Subnet1
VM2	10.0.2.4	West US	VNET1/Subnet2
VM3	172.16.1.4	Central US	VNET2/Subnet1
VM4	192.168.1.4	West US	VNET3/Subnet1
VM5	10.0.22.4	East US	VNET4/Subnet1

No network security groups (NSGs) are associated to the network interfaces or the subnets.

Sub1 contains the storage accounts shown in the following table.

Name	Kind	Location	File share	Identity-based access for file share
storage1	Storage (general purpose v1)	West US	sharea	Azure Active Directory Domain Services (Azure AD DS)
storage2	StorageV2 (general purpose v2)	East US	shareb, sharec	Disabled
storage3	BlobStorage	East US 2	**Not applicable**	**Not applicable**
storage4	FileStorage	Central US	shared	Azure Active Directory Domain Services (Azure AD DS)

Requirements –

Planned Changes –

Contoso plans to implement the following changes:

Create a blob container named container1 and a file share named share1 that will use the Cool storage tier.

Create a storage account named storage5 and configure storage replication for the Blob service.

Create an NSG named NSG1 that will have the custom inbound security rules shown in the following table.

Priority	Port	Protocol	Source	Destination	Action
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1000	Any	ICMP	Any	VirtualNetwork	Allow

Associate NSG1 to the network interface of VM1.

Create an NSG named NSG2 that will have the custom outbound security rules shown in the following table.

.

Priority	Port	Protocol	Source	Destination	Action
200	3389	TCP	10.0.0.0/16	VirtualNetwork	Deny
400	Any	ICMP	10.0.2.0/24	10.0.1.0/24	Allow

Associate NSG2 to VNET1/Subnet2.

Technical Requirements –

Contoso must meet the following technical requirements:

Create container1 and share1.

Use the principle of least privilege.

Create an Azure AD security group named Group4.

Back up the Azure file shares and virtual machines by using Azure Backup.

Trigger an alert if VM1 or VM2 has less than 20 GB of free space on volume C.

Enable User1 to create Azure policy definitions and User2 to assign Azure policies to RG1.

Create an internal Basic Azure Load Balancer named LB1 and connect the load balancer to VNET1/Subnet1

Enable flow logging for IP traffic from VM5 and retain the flow logs for a period of eight months.

Whenever possible, grant Group4 Azure role-based access control (Azure RBAC) read-only permissions to the Azure file shares.**Question**You need to identify which storage account to use for the flow logging of IP traffic from VM5. The solution must meet the retention requirements.

Which storage account should you identify?

- A. storage1
- B. storage2
- C. storage3
- D. storage4

Correct Answer: *C*

We use the BlobStorage account storage3 for retention.

Storage lifecycle management offers a rule-based policy that you can use to transition blob data to the appropriate access tiers or to expire data at the end of the data lifecycle.

Note: Enable flow logging for IP traffic from VM5 and retain the flow logs for a period of eight months.

Name	Kind	Location	File share	Identity-based access for file share
storage1	Storage (general purpose v1)	West US	sharea	Azure Active Directory Domain Services (Azure AD DS)
storage2	StorageV2 (general purpose v2)	East US	shareb, sharec	Disabled
storage3	BlobStorage	East US 2	**Not applicable**	**Not applicable**
storage4	FileStorage	Central US	shared	Azure Active Directory Domain Services (Azure AD DS)

Reference:

https://docs.microsoft.com/en-us/azure/storage/blobs/lifecycle-management-overview
https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-nsg-flow-logging-overview

Community vote distribution

B (100%)

Topic 12 – Testlet 5

Question #1*Topic 12*

Introductory Info Case study –

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Overview –

Litware, Inc. is a consulting company that has a main office in Montreal and two branch offices in Seattle and New York.

The Montreal office has 2,000 employees. The Seattle office has 1,000 employees. The New York office has 200 employees.

All the resources used by Litware are hosted on-premises.

Litware creates a new Azure subscription. The Azure Active Directory (Azure AD) tenant uses a domain named litware.onmicrosoft.com. The tenant uses the

Premium P1 pricing tier.

Existing Environment –

The network contains an Active Directory forest named litware.com. All domain controllers are configured as DNS servers and host the litware.com DNS zone.

Litware has finance, human resources, sales, research, and information technology departments. Each department has an organizational unit (OU) that contains all the accounts of that respective department. All the user accounts have the department attribute set to their respective department. New users are added frequently.

Litware.com contains a user named User1.

All the offices connect by using private connections.

Litware has data centers in the Montreal and Seattle offices. Each office has a firewall that can be configured as a VPN device.

All infrastructure servers are virtualized. The virtualization environment contains the servers in the following table.

Name	Role	Contains virtual machine
Server1	VMware vCenter server	VM1
Server2	Hyper-V host	VM2

Litware uses two web applications named App1 and App2. Each instance on each web application requires 1 GB of memory.

The Azure subscription contains the resources in the following table.

Name	Type
VNet1	Virtual network
VM3	Virtual machine
VM4	Virtual machine

The network security team implements several network security groups (NSGs)

Requirements –

Planned Changes –

Litware plans to implement the following changes:

Deploy Azure ExpressRoute to the Montreal office.

Migrate the virtual machines hosted on Server1 and Server2 to Azure.

Synchronize on-premises Active Directory to Azure Active Directory (Azure AD).

Migrate App1 and App2 to two Azure web apps named WebApp1 and WebApp2.

Technical Requirements –

Litware must meet the following technical requirements:

Ensure that WebApp1 can adjust the number of instances automatically based on the load and can scale up to five instances.

▪

Ensure that VM3 can establish outbound connections over TCP port 8080 to the applications servers in the Montreal office.

Ensure that routing information is exchanged automatically between Azure and the routers in the Montreal office.

Enable Azure Multi-Factor Authentication (MFA) for the users in the finance department only.

Ensure that webapp2.azurewebsites.net can be accessed by using the name app2.litware.com.

Connect the New York office to VNet1 over the Internet by using an encrypted connection.

Create a workflow to send an email message when the settings of VM4 are modified.

Create a custom Azure role named Role1 that is based on the Reader role.

Minimize costs whenever possible.**Question**You discover that VM3 does NOT meet the technical requirements.

You need to verify whether the issue relates to the NSGs.

What should you use?

- A. Diagram in VNet1
- B. Diagnostic settings in Azure Monitor
- C. Diagnose and solve problems in Traffic Manager profiles
- D. The security recommendations in Azure Advisor
- E. IP flow verify in Azure Network Watcher

Correct Answer: *E*

Scenario: Contoso must meet technical requirements including:

Ensure that VM3 can establish outbound connections over TCP port 8080 to the applications servers in the Montreal office.

IP flow verify checks if a packet is allowed or denied to or from a virtual machine. The information consists of direction, protocol, local IP, remote IP, local port, and remote port. If the packet is denied by a security group, the name of the rule that denied the packet is returned. While any source or destination IP can be chosen,

IP flow verify helps administrators quickly diagnose connectivity issues from or to the internet and from or to the on-premises environment.

Reference:

https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-ip-flow-verify-overview

Community vote distribution

E (100%)

Topic 13 – Testlet 6

Question #1*Topic 13*

Introductory Info Case study –

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Litware creates a new Azure subscription. The Azure Active Directory (Azure AD) tenant uses a domain named litware.onmicrosoft.com. The tenant uses the

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Existing Environment –

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Litware.com contains a user named User1.

All the offices connect by using private connections.

Litware has data centers in the Montreal and Seattle offices. Each office has a firewall that can be configured as a VPN device.

All infrastructure servers are virtualized. The virtualization environment contains the servers in the following table.

Name	Role	Contains virtual machine
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Litware uses two web applications named App1 and App2. Each instance on each web application requires 1 GB of memory.

The Azure subscription contains the resources in the following table.

Name	Type
VNet1	Virtual network
VM3	Virtual machine
VM4	Virtual machine

The network security team implements several network security groups (NSGs)

Requirements –

Planned Changes –

Litware plans to implement the following changes:

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Migrate the virtual machines hosted on Server1 and Server2 to Azure.

Synchronize on-premises Active Directory to Azure Active Directory (Azure AD).

Migrate App1 and App2 to two Azure web apps named WebApp1 and WebApp2.

Technical Requirements –

Litware must meet the following technical requirements:

Ensure that WebApp1 can adjust the number of instances automatically based on the load and can scale up to five instances.

▪

Ensure that VM3 can establish outbound connections over TCP port 8080 to the applications servers in the Montreal office.

Ensure that routing information is exchanged automatically between Azure and the routers in the Montreal office.

Enable Azure Multi-Factor Authentication (MFA) for the users in the finance department only.

Ensure that webapp2.azurewebsites.net can be accessed by using the name app2.litware.com.

Connect the New York office to VNet1 over the Internet by using an encrypted connection.

Create a workflow to send an email message when the settings of VM4 are modified.

Create a custom Azure role named Role1 that is based on the Reader role.

Minimize costs whenever possible.**Question**You need to ensure that VM1 can communicate with VM4. The solution must minimize the administrative effort.

What should you do?

- A. Create an NSG and associate the NSG to VM1 and VM4.
- B. Establish peering between VNET1 and VNET3.
- C. Assign VM4 an IP address of 10.0.1.5/24.
- D. Create a user-defined route from VNET1 to VNET3.

Correct Answer: *C*

Reference:

https://docs.microsoft.com/en-us/azure/vpn-gateway/tutorial-site-to-site-portal

Community vote distribution

B (88%)

13%

Question #2*Topic 13*

Introductory Info Case study –

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The network security team implements several network security groups (NSGs)

Requirements –

Planned Changes –

Litware plans to implement the following changes:

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Technical Requirements –

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Ensure that VM3 can establish outbound connections over TCP port 8080 to the applications servers in the Montreal office.

Ensure that routing information is exchanged automatically between Azure and the routers in the Montreal office.

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Ensure that webapp2.azurewebsites.net can be accessed by using the name app2.litware.com.

Connect the New York office to VNet1 over the Internet by using an encrypted connection.

Create a workflow to send an email message when the settings of VM4 are modified.

Create a custom Azure role named Role1 that is based on the Reader role.

Minimize costs whenever possible.**Question**HOTSPOT –

You need to meet the connection requirements for the New York office.

What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

From the Azure portal:

- Create an ExpressRoute circuit only.
- Create a virtual network gateway only.
- Create a virtual network gateway and a local network gateway.
- Create an ExpressRoute circuit and an on-premises data gateway.
- Create a virtual network gateway and an on-premises data gateway.

In the New York office:

- Deploy ExpressRoute.
- Deploy a DirectAccess server.
- Implement a Web Application Proxy.
- Configure a site-to-site VPN connection.

Correct Answer:

Answer Area

From the Azure portal:

- Create an ExpressRoute circuit only.
- Create a virtual network gateway only.
- Create a virtual network gateway and a local network gateway.
- Create an ExpressRoute circuit and an on-premises data gateway.
- Create a virtual network gateway and an on-premises data gateway.

In the New York office:

- Deploy ExpressRoute.
- Deploy a DirectAccess server.
- Implement a Web Application Proxy.
- Configure a site-to-site VPN connection.

Box 1: Create a virtual network gateway and a local network gateway.

Azure VPN gateway. The VPN gateway service enables you to connect the VNet to the on-premises network through a VPN appliance. For more information, see

Connect an on-premises network to a Microsoft Azure virtual network. The VPN gateway includes the following elements:

➪ Virtual network gateway. A resource that provides a virtual VPN appliance for the VNet. It is responsible for routing traffic from the on-premises network to the

VNet.

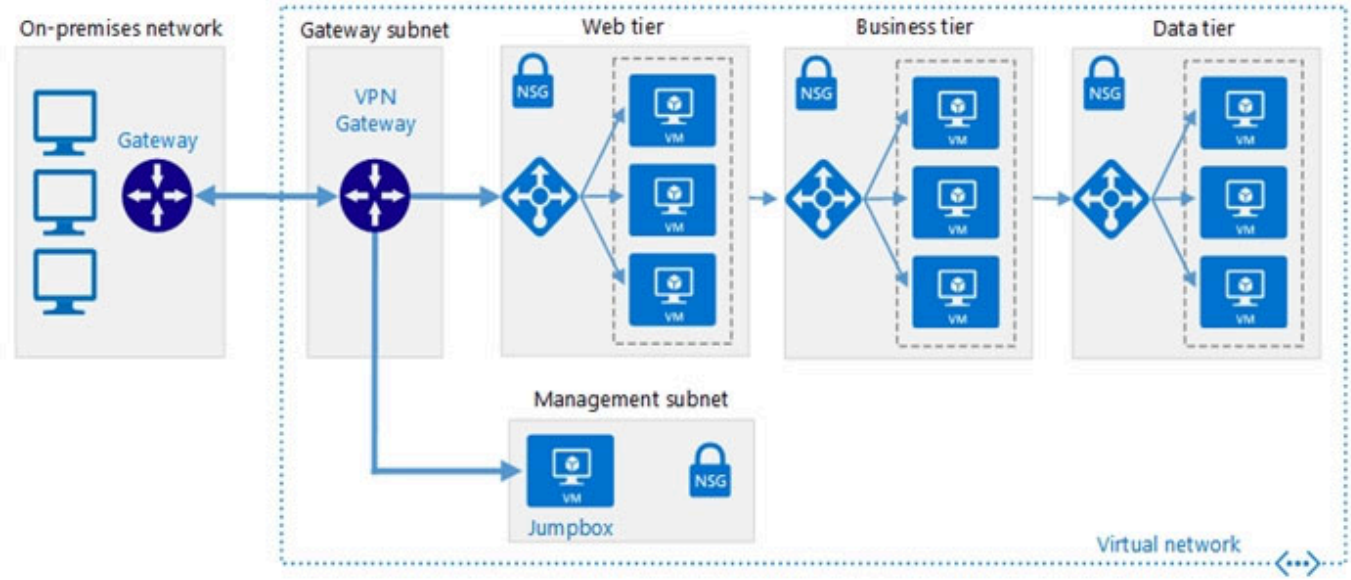
➪ Local network gateway. An abstraction of the on-premises VPN appliance. Network traffic from the cloud application to the on-premises network is routed through this gateway.

➪ Connection. The connection has properties that specify the connection type (IPSec) and the key shared with the on-premises VPN appliance to encrypt traffic.

➪ Gateway subnet. The virtual network gateway is held in its own subnet, which is subject to various requirements, described in the Recommendations section below.

Box 2: Configure a site-to-site VPN connection

On premises create a site-to-site connection for the virtual network gateway and the local network gateway.



Scenario: Connect the New York office to VNet1 over the Internet by using an encrypted connection.

Incorrect Answers:

Azure ExpressRoute: Established between your network and Azure, through an ExpressRoute partner. This connection is private. Traffic does not go over the internet.

Reference:

https://docs.microsoft.com/en-us/azure/architecture/reference-architectures/hybrid-networking/vpn

Topic 14 – Testlet 7

Question #1*Topic 14*

Introductory Info Case study –

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Overview –

Contoso, Ltd. is a manufacturing company that has offices worldwide. Contoso works with partner organizations to bring products to market.

Contoso products are manufactured by using blueprint files that the company authors and maintains.

Existing Environment –

Currently, Contoso uses multiple types of servers for business operations, including the following:

File servers

Domain controllers

Microsoft SQL Server servers

Your network contains an Active Directory forest named contoso.com. All servers and client computers are joined to Active Directory.

You have a public-facing application named App1. App1 is comprised of the following three tiers:

A SQL database

A web front end

A processing middle tier –

▪

Each tier is comprised of five virtual machines. Users access the web front end by using HTTPS only.

Requirements –

Planned Changes –

Contoso plans to implement the following changes to the infrastructure:

Move all the tiers of App1 to Azure.

Move the existing product blueprint files to Azure Blob storage.

Create a hybrid directory to support an upcoming Microsoft 365 migration project.

Technical Requirements –

Contoso must meet the following technical requirements:

Move all the virtual machines for App1 to Azure.

Minimize the number of open ports between the App1 tiers.

Ensure that all the virtual machines for App1 are protected by backups.

Copy the blueprint files to Azure over the Internet.

Ensure that the blueprint files are stored in the archive storage tier.

Ensure that partner access to the blueprint files is secured and temporary.

Prevent user passwords or hashes of passwords from being stored in Azure.

Use unmanaged standard storage for the hard disks of the virtual machines.

Ensure that when users join devices to Azure Active Directory (Azure AD), the users use a mobile phone to verify their identity.

Minimize administrative effort whenever possible.

User Requirements –

Contoso identifies the following requirements for users:

Ensure that only users who are part of a group named Pilot can join devices to Azure AD.

Designate a new user named Admin1 as the service admin for the Azure subscription.

Admin1 must receive email alerts regarding service outages.

Ensure that a new user named User3 can create network objects for the Azure subscription.**Question**HOTSPOT –

You need to recommend a solution for App1. The solution must meet the technical requirements.

What should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Number of virtual networks:

1
2
3

Number of subnets per virtual network:

1
2
3

Answer Area

Correct Answer:

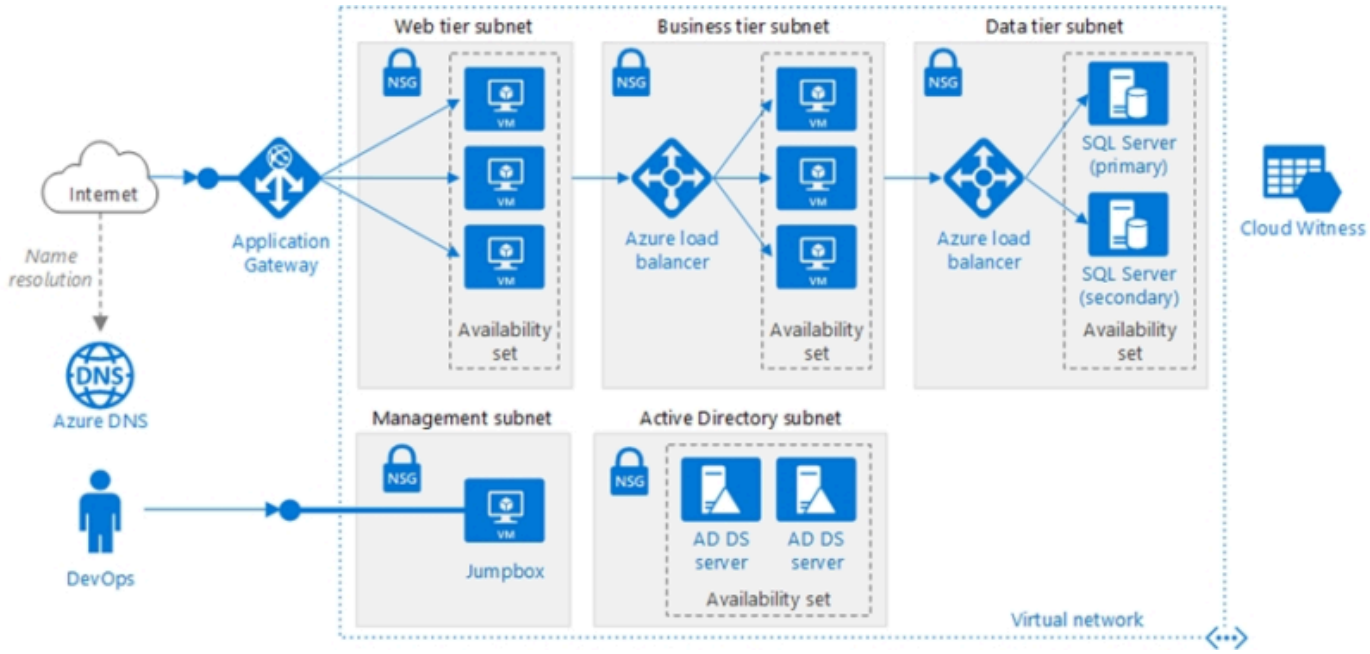
Number of virtual networks:

1
2
3

Number of subnets per virtual network:

1
2
3

This reference architecture shows how to deploy VMs and a virtual network configured for an N-tier application, using SQL Server on Windows for the data tier.



Scenario: You have a public-facing application named App1. App1 is comprised of the following three tiers:

- A SQL database
- A web front end
- A processing middle tier

Each tier is comprised of five virtual machines. Users access the web front end by using HTTPS only.

Technical requirements include:

- Move all the virtual machines for App1 to Azure.
- Minimize the number of open ports between the App1 tiers.

Reference:

https://docs.microsoft.com/en-us/azure/architecture/reference-architectures/n-tier/n-tier-sql-server

Question #2*Topic 14*

Introductory Info Case study –

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Overview –

Contoso, Ltd. is a manufacturing company that has offices worldwide. Contoso works with partner organizations to bring products to market.

Contoso products are manufactured by using blueprint files that the company authors and maintains.

Existing Environment –

Currently, Contoso uses multiple types of servers for business operations, including the following:

File servers

Domain controllers

Microsoft SQL Server servers

Your network contains an Active Directory forest named contoso.com. All servers and client computers are joined to Active Directory.

You have a public-facing application named App1. App1 is comprised of the following three tiers:

A SQL database

A web front end

A processing middle tier –

▪

Each tier is comprised of five virtual machines. Users access the web front end by using HTTPS only.

Requirements –

Planned Changes –

Contoso plans to implement the following changes to the infrastructure:

Move all the tiers of App1 to Azure.

Move the existing product blueprint files to Azure Blob storage.

Create a hybrid directory to support an upcoming Microsoft 365 migration project.

Technical Requirements –

Contoso must meet the following technical requirements:

Move all the virtual machines for App1 to Azure.

Minimize the number of open ports between the App1 tiers.

Ensure that all the virtual machines for App1 are protected by backups.

Copy the blueprint files to Azure over the Internet.

Ensure that the blueprint files are stored in the archive storage tier.

Ensure that partner access to the blueprint files is secured and temporary.

Prevent user passwords or hashes of passwords from being stored in Azure.

Use unmanaged standard storage for the hard disks of the virtual machines.

Ensure that when users join devices to Azure Active Directory (Azure AD), the users use a mobile phone to verify their identity.

Minimize administrative effort whenever possible.

User Requirements –

Contoso identifies the following requirements for users:

Ensure that only users who are part of a group named Pilot can join devices to Azure AD.

Designate a new user named Admin1 as the service admin for the Azure subscription.

Admin1 must receive email alerts regarding service outages.

Ensure that a new user named User3 can create network objects for the Azure subscription.**Question**You are planning the move of App1 to Azure.

You create a network security group (NSG).

You need to recommend a solution to provide users with access to App1.

What should you recommend?

- A. Create an incoming security rule for port 443 from the Internet. Associate the NSG to the subnet that contains the web servers.
- B. Create an outgoing security rule for port 443 from the Internet. Associate the NSG to the subnet that contains the web servers.
- C. Create an incoming security rule for port 443 from the Internet. Associate the NSG to all the subnets.
- D. Create an outgoing security rule for port 443 from the Internet. Associate the NSG to all the subnets.

Correct Answer: *A*

Incoming and the web server subnet only, as users access the web front end by using HTTPS only.

Note Scenario: You have a public-facing application named App1. App1 is comprised of the following three tiers:

👉 A SQL database

👉 A web front end

👉 A processing middle tier

Each tier is comprised of five virtual machines. Users access the web front end by using HTTPS only.

Community vote distribution

A (100%)

Topic 15 – Testlet 8

Question #1*Topic 15*

Introductory Info Case study –

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Overview –

General Overview –

Contoso, Ltd. is a consulting company that has a main office in Montreal and branch offices in Seattle and New York.

Environment –

Existing Environment –

Contoso has an Azure subscription named Sub1 that is linked to an Azure Active Directory (Azure AD) tenant. The network contains an on-premises Active

Directory domain that syncs to the Azure AD tenant.

The Azure AD tenant contains the users shown in the following table.

Name	Type	Role
User1	Member	**None**
User2	Guest	**None**
User3	Member	**None**
User4	Member	**None**

Sub1 contains two resource groups named RG1 and RG2 and the virtual networks shown in the following table.

Name	Subnet	Peered with
VNET1	Subnet1, Subnet2	VNET2
VNET2	Subnet1	VNET1, VNET3
VNET3	Subnet1	VNET2
VNET4	Subnet1	**None**

User1 manages the resources in RG1. User4 manages the resources in RG2.

Sub1 contains virtual machines that run Windows Server 2019 as shown in the following table

Name	IP address	Location	Connected to
VM1	10.0.1.4	West US	VNET1/Subnet1
VM2	10.0.2.4	West US	VNET1/Subnet2
VM3	172.16.1.4	Central US	VNET2/Subnet1
VM4	192.168.1.4	West US	VNET3/Subnet1
VM5	10.0.22.4	East US	VNET4/Subnet1

No network security groups (NSGs) are associated to the network interfaces or the subnets.

Sub1 contains the storage accounts shown in the following table.

Name	Kind	Location	File share	Identity-based access for file share
storage1	Storage (general purpose v1)	West US	sharea	Azure Active Directory Domain Services (Azure AD DS)
storage2	StorageV2 (general purpose v2)	East US	shareb, sharec	Disabled
storage3	BlobStorage	East US 2	**Not applicable**	**Not applicable**
storage4	FileStorage	Central US	shared	Azure Active Directory Domain Services (Azure AD DS)

Requirements –

Planned Changes –

Contoso plans to implement the following changes:

Create a blob container named container1 and a file share named share1 that will use the Cool storage tier.

Create a storage account named storage5 and configure storage replication for the Blob service.

Create an NSG named NSG1 that will have the custom inbound security rules shown in the following table.

Priority	Port	Protocol	Source	Destination	Action
500	3389	TCP	10.0.2.0/24	Any	Deny
1000	Any	ICMP	Any	VirtualNetwork	Allow

Associate NSG1 to the network interface of VM1.

Create an NSG named NSG2 that will have the custom outbound security rules shown in the following table.

.

Priority	Port	Protocol	Source	Destination	Action
200	3389	TCP	10.0.0.0/16	VirtualNetwork	Deny
400	Any	ICMP	10.0.2.0/24	10.0.1.0/24	Allow

Associate NSG2 to VNET1/Subnet2.

Technical Requirements –

Contoso must meet the following technical requirements:

Create container1 and share1.

Use the principle of least privilege.

Create an Azure AD security group named Group4.

Back up the Azure file shares and virtual machines by using Azure Backup.

Trigger an alert if VM1 or VM2 has less than 20 GB of free space on volume C.

Enable User1 to create Azure policy definitions and User2 to assign Azure policies to RG1.

Create an internal Basic Azure Load Balancer named LB1 and connect the load balancer to VNET1/Subnet1

Enable flow logging for IP traffic from VM5 and retain the flow logs for a period of eight months.

Whenever possible, grant Group4 Azure role-based access control (Azure RBAC) read-only permissions to the Azure file shares.**Question**HOTSPOT –

You implement the planned changes for NSG1 and NSG2.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area:

Statements	Yes	No
From VM1, you can establish a Remote Desktop session to VM2.	○	○
From VM2, you can ping VM3.	○	○
From VM2, you can establish a Remote Desktop session to VM3.	○	○

Correct Answer:

Answer Area:

Statements	Yes	No
From VM1, you can establish a Remote Desktop session to VM2.	○	○
From VM2, you can ping VM3.	○	○
From VM2, you can establish a Remote Desktop session to VM3.	○	○

Box 1: No –

NSG2 blocks RDP to VM2 –

Box 2: Yes –

ICMP is not blocked –

Box 3: No –

NSG2 blocks RDP from VM2 –

Reference:

https://docs.microsoft.com/en-us/azure/virtual-network/network-security-group-how-it-works

Question #3*Topic 15*

Introductory Info Case study –

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To start the case study –

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Overview –

General Overview –

Contoso, Ltd. is a consulting company that has a main office in Montreal and branch offices in Seattle and New York.

Environment –

Existing Environment –

Contoso has an Azure subscription named Sub1 that is linked to an Azure Active Directory (Azure AD) tenant. The network contains an on-premises Active

Directory domain that syncs to the Azure AD tenant.

The Azure AD tenant contains the users shown in the following table.

Name	Type	Role
User1	Member	**None**
User2	Guest	**None**
User3	Member	**None**
User4	Member	**None**

Sub1 contains two resource groups named RG1 and RG2 and the virtual networks shown in the following table.

Name	Subnet	Peered with
VNET1	Subnet1, Subnet2	VNET2
VNET2	Subnet1	VNET1, VNET3
VNET3	Subnet1	VNET2
VNET4	Subnet1	**None**

User1 manages the resources in RG1. User4 manages the resources in RG2.

Sub1 contains virtual machines that run Windows Server 2019 as shown in the following table

Name	IP address	Location	Connected to
VM1	10.0.1.4	West US	VNET1/Subnet1
VM2	10.0.2.4	West US	VNET1/Subnet2
VM3	172.16.1.4	Central US	VNET2/Subnet1
VM4	192.168.1.4	West US	VNET3/Subnet1
VM5	10.0.22.4	East US	VNET4/Subnet1

No network security groups (NSGs) are associated to the network interfaces or the subnets.

Sub1 contains the storage accounts shown in the following table.

Name	Kind	Location	File share	Identity-based access for file share
storage1	Storage (general purpose v1)	West US	sharea	Azure Active Directory Domain Services (Azure AD DS)
storage2	StorageV2 (general purpose v2)	East US	shareb, sharec	Disabled
storage3	BlobStorage	East US 2	**Not applicable**	**Not applicable**
storage4	FileStorage	Central US	shared	Azure Active Directory Domain Services (Azure AD DS)

Requirements –

Planned Changes –

Contoso plans to implement the following changes:

Create a blob container named container1 and a file share named share1 that will use the Cool storage tier.

Create a storage account named storage5 and configure storage replication for the Blob service.

Create an NSG named NSG1 that will have the custom inbound security rules shown in the following table.

Priority	Port	Protocol	Source	Destination	Action
500	3389	TCP	10.0.2.0/24	Any	Deny
1000	Any	ICMP	Any	VirtualNetwork	Allow

Associate NSG1 to the network interface of VM1.

Create an NSG named NSG2 that will have the custom outbound security rules shown in the following table.

▪

Priority	Port	Protocol	Source	Destination	Action
200	3389	TCP	10.0.0.0/16	VirtualNetwork	Deny
400	Any	ICMP	10.0.2.0/24	10.0.1.0/24	Allow

Associate NSG2 to VNET1/Subnet2.

Technical Requirements –

Contoso must meet the following technical requirements:

Create container1 and share1.

Use the principle of least privilege.

Create an Azure AD security group named Group4.

Back up the Azure file shares and virtual machines by using Azure Backup.

Trigger an alert if VM1 or VM2 has less than 20 GB of free space on volume C.

Enable User1 to create Azure policy definitions and User2 to assign Azure policies to RG1.

Create an internal Basic Azure Load Balancer named LB1 and connect the load balancer to VNET1/Subnet1

Enable flow logging for IP traffic from VM5 and retain the flow logs for a period of eight months.

Whenever possible, grant Group4 Azure role-based access control (Azure RBAC) read-only permissions to the Azure file shares.**Question**You need to add VM1 and VM2 to the backend pool of LB1.

What should you do first?

- A. Connect VM2 to VNET1/Subnet1.
- B. Redeploy VM1 and VM2 to the same availability zone.
- C. Redeploy VM1 and VM2 to the same availability set.
- D. Create a new NSG and associate the NSG to VNET1/Subnet1.

Correct Answer: *A*

VM1 is already in VNET1/Subnet1.

VM2 is on VNET1/Subnet2, and must be moved to VNET1/Subnet1.

Note:

Create an internal Basic Azure Load Balancer named LB1 and connect the load balancer to VNET1/Subnet1

Name	IP address	Location	Connected to
VM1	10.0.1.4	West US	VNET1/Subnet1
VM2	10.0.2.4	West US	VNET1/Subnet2
VM3	172.16.1.4	Central US	VNET2/Subnet1
VM4	192.168.1.4	West US	VNET3/Subnet1
VM5	10.0.22.4	East US	VNET4/Subnet1

Reference:

https://docs.microsoft.com/en-us/azure/load-balancer/quickstart-load-balancer-standard-internal-portal

Community vote distribution

C (71%)

A (26%)

3%

Question #4*Topic 15*

You need to ensure that VM1 can communicate with VM4. The solution must minimize administrative effort.

What should you do?

- A. Create a user-defined route from VNET1 to VNET3.
- B. Create an NSG and associate the NSG to VM1 and VM4.
- C. Assign VM4 an IP address of 10.0.1.5/24.
- D. Establish peering between VNET1 and VNET3.

Correct Answer: *D*

Community vote distribution

D (100%)

Topic 16 – Testlet 9

Question #1*Topic 16*

Introductory Info Case study –

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Overview –

Litware, Inc. is a consulting company that has a main office in Montreal and two branch offices in Seattle and New York.

The Montreal office has 2,000 employees. The Seattle office has 1,000 employees. The New York office has 200 employees.

All the resources used by Litware are hosted on-premises.

Litware creates a new Azure subscription. The Azure Active Directory (Azure AD) tenant uses a domain named litware.onmicrosoft.com. The tenant uses the

Premium P1 pricing tier.

Existing Environment –

The network contains an Active Directory forest named litware.com. All domain controllers are configured as DNS servers and host the litware.com DNS zone.

Litware has finance, human resources, sales, research, and information technology departments. Each department has an organizational unit (OU) that contains all the accounts of that respective department. All the user accounts have the department attribute set to their respective department. New users are added frequently.

Litware.com contains a user named User1.

All the offices connect by using private connections.

Litware has data centers in the Montreal and Seattle offices. Each office has a firewall that can be configured as a VPN device.

All infrastructure servers are virtualized. The virtualization environment contains the servers in the following table.

Name	Role	Contains virtual machine
Server1	VMware vCenter server	VM1
Server2	Hyper-V host	VM2

Litware uses two web applications named App1 and App2. Each instance on each web application requires 1 GB of memory.

The Azure subscription contains the resources in the following table.

Name	Type
VNet1	Virtual network
VM3	Virtual machine
VM4	Virtual machine

The network security team implements several network security groups (NSGs)

Requirements –

Planned Changes –

Litware plans to implement the following changes:

Deploy Azure ExpressRoute to the Montreal office.

Migrate the virtual machines hosted on Server1 and Server2 to Azure.

Synchronize on-premises Active Directory to Azure Active Directory (Azure AD).

Migrate App1 and App2 to two Azure web apps named WebApp1 and WebApp2.

Technical Requirements –

Litware must meet the following technical requirements:

Ensure that WebApp1 can adjust the number of instances automatically based on the load and can scale up to five instances.

▪

Ensure that VM3 can establish outbound connections over TCP port 8080 to the applications servers in the Montreal office.

Ensure that routing information is exchanged automatically between Azure and the routers in the Montreal office.

Enable Azure Multi-Factor Authentication (MFA) for the users in the finance department only.

Ensure that webapp2.azurewebsites.net can be accessed by using the name app2.litware.com.

Connect the New York office to VNet1 over the Internet by using an encrypted connection.

Create a workflow to send an email message when the settings of VM4 are modified.

Create a custom Azure role named Role1 that is based on the Reader role.

Minimize costs whenever possible.**Question**HOTSPOT –

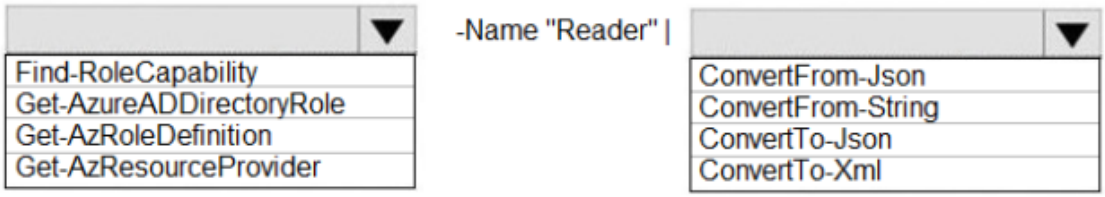
You need to implement Role1.

Which command should you run before you create Role1? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

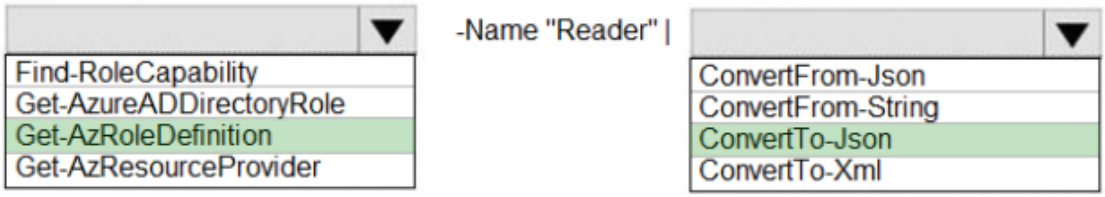
Hot Area:

Answer Area



Correct Answer:

Answer Area



Question #2*Topic 16*

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Existing Environment –

The network contains an Active Directory forest named litware.com. All domain controllers are configured as DNS servers and host the litware.com DNS zone.

Litware has finance, human resources, sales, research, and information technology departments. Each department has an organizational unit (OU) that contains all the accounts of that respective department. All the user accounts have the department attribute set to their respective department. New users are added frequently.

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Litware uses two web applications named App1 and App2. Each instance on each web application requires 1 GB of memory.

The Azure subscription contains the resources in the following table.

Name	Type
VNet1	Virtual network
VM3	Virtual machine
VM4	Virtual machine

The network security team implements several network security groups (NSGs)

Requirements –

Planned Changes –

Litware plans to implement the following changes:

Deploy Azure ExpressRoute to the Montreal office.

Migrate the virtual machines hosted on Server1 and Server2 to Azure.

Synchronize on-premises Active Directory to Azure Active Directory (Azure AD).

Migrate App1 and App2 to two Azure web apps named WebApp1 and WebApp2.

Technical Requirements –

Litware must meet the following technical requirements:

Ensure that WebApp1 can adjust the number of instances automatically based on the load and can scale up to five instances.

▪

Ensure that VM3 can establish outbound connections over TCP port 8080 to the applications servers in the Montreal office.

Ensure that routing information is exchanged automatically between Azure and the routers in the Montreal office.

Enable Azure Multi-Factor Authentication (MFA) for the users in the finance department only.

Ensure that webapp2.azurewebsites.net can be accessed by using the name app2.litware.com.

Connect the New York office to VNet1 over the Internet by using an encrypted connection.

Create a workflow to send an email message when the settings of VM4 are modified.

Create a custom Azure role named Role1 that is based on the Reader role.

Minimize costs whenever possible.**Question**You need to recommend a solution to automate the configuration for the finance department users. The solution must meet the technical requirements.

What should you include in the recommendation?

- A. Azure AD B2C
- B. dynamic groups and conditional access policies
- C. Azure AD Identity Protection
- D. an Azure logic app and the Microsoft Identity Management (MIM) client

Correct Answer: *B*

Scenario: Ensure Azure Multi-Factor Authentication (MFA) for the users in the finance department only.

The recommendation is to use conditional access policies that can then be targeted to groups of users, specific applications, or other conditions.

Reference:

https://docs.microsoft.com/en-us/azure/active-directory/authentication/howto-mfa-userstates

Community vote distribution

B (100%)

1 2 3 4 5

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Free AZ-900 Dump

Trả lời

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Tên *

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☐ **Lưu tên của tôi, email, và trang web trong trình duyệt này cho lần bình luận kế tiếp của tôi.**

PHẢN HỒI

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