AZ-120 Q&As

Planning and Administering Microsoft Azure for SAP Workloads

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QUESTION 1

DRAG DROP

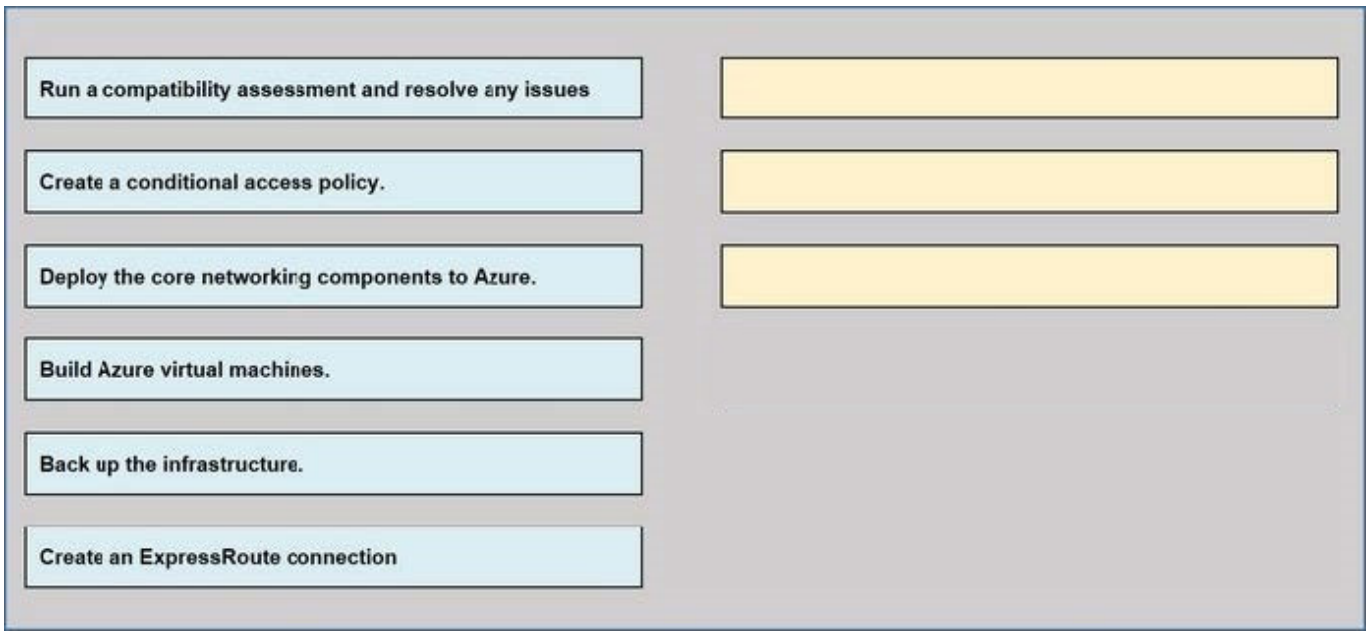
A customer has an on-premises SAP environment.

The customer plans to migrate SAP to Azure.

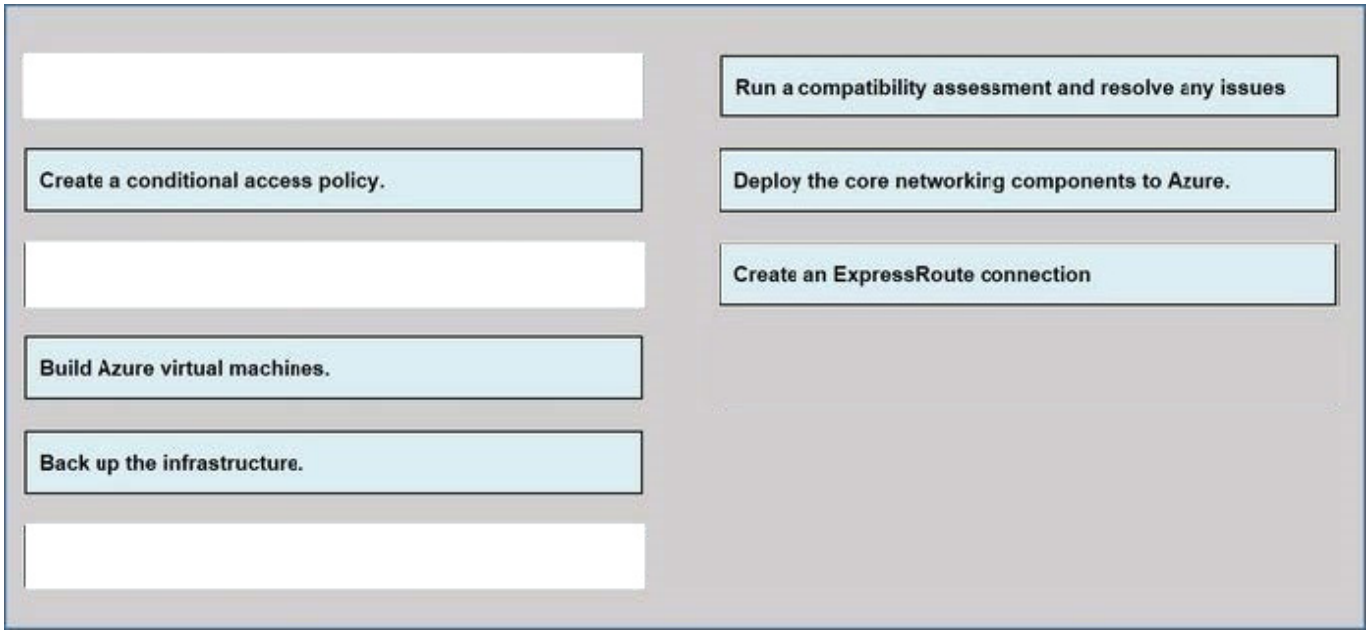
You need to prepare the environment for the planned migration.

Which three actions should you perform in sequence before the migration? 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 2

HOTSPOT

You have an Azure alert rule and action group as shown in the following exhibit.

```
PS Azure:\> Get-AzMetricAlertRuleV2 | Select WindowSize, EvaluationFrequency, Actions –ExpandProperty Criteria

WindowSize          : 00:05:00
EvaluationFrequency : 00:01:00
Actions             : {/subscriptions/6dce0667-3896-4f0b-bcc4-1ea4da2de0dc/resourcegroups/resourcegroup1/
                      providers/microsoft.insights/actionngroups/admins}
Name                : Metric1
MetricName          : Percentage CPU
MetricNamespace     : Microsoft.Compute/virtualMachines
OperatorProperty    : GreaterThan
TimeAggregation     : Average
Threshold           : 85
Dimensions          : {}
AdditionalProperties :

PS Azure:\> Get-AzActionGroup | Select –ExcludeProperty ResourceGroupName, Tags, Location

GroupShortName  : admins
Enabled         : True
EmailRecievers  : {admins_-EmailAction-}
SmsRecievers    : {}
WebhookRecievers : {}
Id              : {/subscriptions/6dce0667-3896-4f0b-bcc4-1ea4da2de0dc/resourceGroups/resourcegroup1/providers/
                  microsoft.insights/actionGroups/admins}
Name            : admins
Type            : Microsoft.Insights/ActionGroups

GroupShortName  : restartVM
Enabled         : True
EmailRecievers  : {}
SmsRecievers    : {}
WebhookRecievers : {}
Id              : {/subscriptions/6dce0667-3896-4f0b-bcc4-1ea4da2de0dc/resourceGroups/resourcegroup1/providers/
                  microsoft.insights/actionGroups/restartVM}
Name            : restartVM
Type            : Microsoft.Insights/ActionGroups
```

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

Hot Area:

Answer Area

The admins action group will be notified if the average CPU usage rises above 85% for

- one minute
- five minutes
- one second

The **[answer choice]** when the alert is triggered

- admins action group will be emailed
- restartVM action group will be emailed
- virtual machines will restart

Correct Answer:

Answer Area

The admins action group will be notified if the average CPU usage rises above 85% for

- one minute
- five minutes
- one second

The **[answer choice]** when the alert is triggered

- admins action group will be emailed
- restartVM action group will be emailed
- virtual machines will restart

Box 1: five minutes Window Size is 5 minutes.

Box 2: admins action group will be emailed The admins1 actiongroup will be executed.

Reference: https://docs.microsoft.com/en-us/azure/azure-monitor/alerts/alerts-metric-overview

QUESTION 3

You have an SAP landscape on Azure.

You deploy an SAP Web Dispatcher named web1.

You need to confirm that web1 can support 1,500 users.

What should you use?

A. Apache JMeter

B. lometer

C. ABAPMeter

D. FIO

Correct Answer: A

QUESTION 4

You have an SAP environment on Azure.

Your on-premises network connects to Azure by using a site-to-site VPN connection.

You need to alert technical support if the network bandwidth usage between the on-premises network and Azure exceeds 900 Mbps for 10 minutes.

What should you use?

A. NIPING

B. Azure Enhanced Monitoring for SAP

C. Azure Network Watcher

D. Azure Monitor

Correct Answer: D

You set up alerts on Azure VPN Gateway metrics. Azure Monitor provides the ability to set up alerts for Azure resources. You can set up alerts for virtual network gateways of the "VPN" type.

Metric: AverageBandwidth: Average combined bandwidth utilization of all site-to-site connections on the gateway.

Reference:

https://docs.microsoft.com/bs-latn-ba/azure/vpn-gateway/vpn-gateway-howto-setup-alerts-virtual-network-gateway-metric

QUESTION 5

You have an SAP environment on Azure.

Your on-premises network uses a 1-Gbps ExpressRoute circuit to connect to Azure. Private peering is enabled on the circuit. The default route (0.0.0.0/0) from the on-premises network is advertised.

Whenever backups are copied to Azure Blob storage, the ExpressRoute circuit is saturated.

You need to resolve the issue without modifying the ExpressRoute circuit. The solution must minimize administrative effort.

What should you do?

A. Create a user-defined route that redirects traffic to the Blob storage

B. Create an application security group

C. Change the backup solution to use a third-party software that can write to the Blob storage

D. Enable virtual network private endpoints.

Correct Answer: D

Private endpoint enables connectivity between the consumers from the same ExpressRoute.

Note: Consult with SAP HANA on Microsoft Service Management. If they advise you to increase the bandwidth of the SAP HANA on Azure (Large Instances) ExpressRoute circuit, create an Azure support request. (You can request an increase for a single circuit bandwidth up to a maximum of 10 Gbps.)

Reference: https://docs.microsoft.com/en-us/azure/private-link/private-endpoint-overview https://docs.microsoft.com/bs-cyrl-ba/azure/virtual-machines/workloads/sap/hana-additional-network-requirements#increase-expressroute-circuit-bandwidth

QUESTION 6

You have an on-premises SAP AnyDB deployment hosted on an operating system that is NOT supported in Azure.

You need to migrate the deployment to Azure by performing a replatform and migration to SAP HANA. The solution must meet the following requirements:

Minimize administrative effort.

Minimize downtime.

What should you use?

A. SAP Software Provisioning Manager

B. SAP Software Update Manager

C. Azure Migrate

D. Azure Database Migration Service

Correct Answer: B

QUESTION 7

HOTSPOT

You are deploying an SAP environment across Azure Availability Zones. The environment has the following components:

1.

ASCS/ERS instances that use a failover cluster

2.

SAP application servers across the Azure Availability Zones

3.

Database high availability by using a native database solution

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
Network latency is a limiting factor when deploying DBMS instances that use synchronous replication across the Azure Availability Zones.	○	○
The performance of SAP systems can be validated by using ABAPMeter.	○	○
To help identity the best Azure Availability Zones for deploying the SAP components, you can use NIPING to verify network latency between the zones.	○	○

Correct Answer:

Answer Area

Statements	Yes	No
Network latency is a limiting factor when deploying DBMS instances that use synchronous replication across the Azure Availability Zones.	○	○
The performance of SAP systems can be validated by using ABAPMeter.	○	○
To help identity the best Azure Availability Zones for deploying the SAP components, you can use NIPING to verify network latency between the zones.	○	○

Box 1: Yes

Box 2: Yes

AAP application server to database server latency can be tested with ABAPMeter report /SSA/CAT.

Box 3: Yes

To analyze network issue or measure network metrics you can test the connection using SAP\\'s NIPING program. You can use NIPING to analyze the network connection between any two machines running SAP software.

QUESTION 8

You plan to migrate an SAP environment to Azure.

You need to design an Azure network infrastructure to meet the following requirements:

1.

Prevent end users from accessing the database servers.

2.

Isolate the application servers from the database servers.

3.

Ensure that end users can access the SAP systems over the Internet.

4.

Minimize the costs associated to the communications between the application servers and database servers. Which two actions should you include in the solution? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. In the same Azure virtual network, segregate the SAP application servers and database servers by using different subnets and network security groups.

B. Segregate the SAP application servers and database servers by using Azure virtual networks.

C. Create a site-to-site VPN between the on-premises network and Azure.

D. Configure an internal Azure Standard Load Balancer for incoming connections.

E. Configure Azure Traffic Manager to route incoming connections.

Correct Answer: AC

QUESTION 9

You migrate an on-premises instance of SAP NANA that runs SUSE Linux Enterpnse Server (SLES) to an Azure virtual machine.

You project that in two years, you will replace the virtual machine with a larger virtual machine within the same flexibility group.

You need to recommend solutions to minimize HANA deployment costs during the next three years. The solutions must not affect the availability SLAs.

Which two solutions should you recommend? Each correct answer presents a complete solution

NOTE: Each correct selection is worth one point.

A. a three-year reservation that has instance size flexibility

B. a one-year reservation that has instance size flexibility

C. a one-year reservation that has capacity priority

D. Azure Hybrid Benefit

E. Azure Spot instance

Correct Answer: AD

QUESTION 10

You recently migrated an SAP HANA environment to Azure.

You plan to back up SAP HANA databases to disk on the virtual machines, and then move the backup files to Azure Blob storage for retention.

Which command should you run to move the backups to the Blob storage?

A. robocopy

B. backint

C. azcopy

D. scp

Correct Answer: C

To store directories and files on Azure storage, one could use CLI or PowerShell. There is also a ready-to-use utility, AzCopy, for copying data to Azure storage.

Reference: https://docs.microsoft.com/en-us/azure/virtual-machines/workloads/sap/sap-hana-backup-file-level

QUESTION 11

HOTSPOT

You plan to deploy two Azure virtual machines that will host an SAP HANA database for an SAP landscape. The virtual machines will be deployed to the same availability set. You need to meet the following requirements:

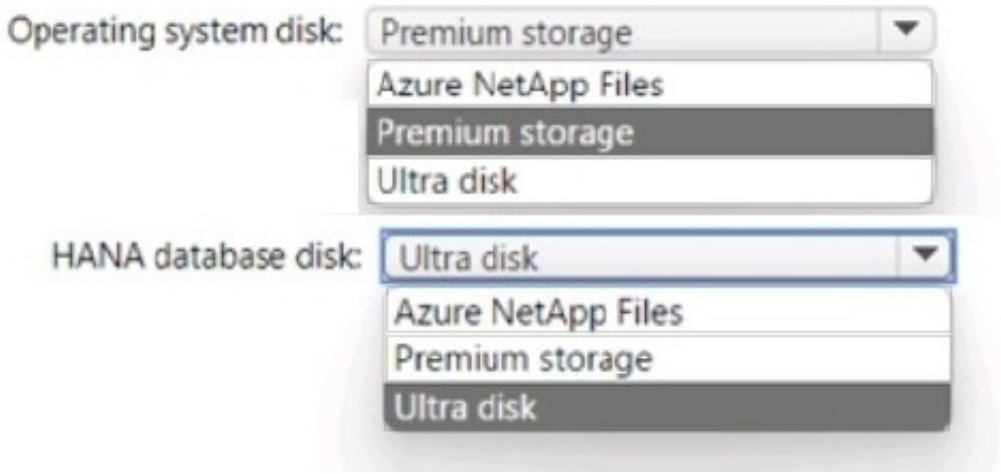
Ensure that the virtual machines support disk snapshots.

Ensure that the virtual machine disks provide submillisecond latency for writes.

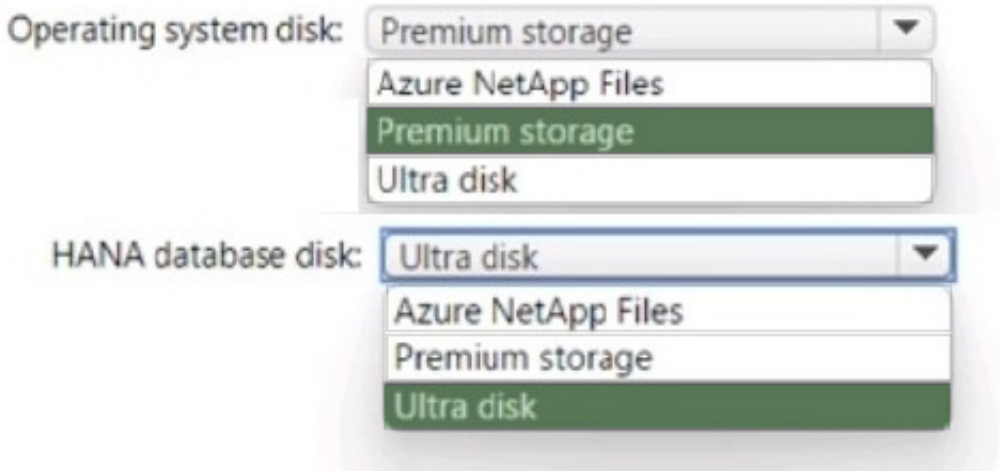
Ensure that each virtual machine can be allocated disks from a different storage cluster.

Which type of operating system disk and HANA database disk should you use? To answer, select the appropriate options in the answer area. NOTE Each correct selection is worth one point.

Hot Area:



Correct Answer:



QUESTION 12

HOTSPOT

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:

	Yes	No
You can use NIPING to examine network latency between an SAP HANA database server and an SAP application server hosted on Azure.	○	○
You can use LoadRunner to generate traffic between a client and an SAP application server hosted on Azure.	○	○
You can use the SAP HANA HW Configuration Check Tool(HWCCT) to examine network latency between an SAP HANA database server and an SAP application server hosted on Azure.	○	○

Correct Answer:

	Yes	No
You can use NIPING to examine network latency between an SAP HANA database server and an SAP application server hosted on Azure.	○	○
You can use LoadRunner to generate traffic between a client and an SAP application server hosted on Azure.	○	○
You can use the SAP HANA HW Configuration Check Tool(HWCCT) to examine network latency between an SAP HANA database server and an SAP application server hosted on Azure.	○	○

QUESTION 13

You have an SAP environment that is managed by using VMware vCenter.

You plan to migrate the SAP environment to Azure.

You need to gather information to identify which compute resources are required in Azure.

What should you use to gather the information?

A. Azure Migrate and SAP EarlyWatch Alert reports

B. Azure Site Recovery and SAP Quick Sizer

C. SAP Quick Sizer and SAP HANA system replication

D. Azure Site Recovery Deployment Planner and SAP HANA Cockpit

Correct Answer: A

Azure Migrate is a Microsoft service that helps an enterprise assess how its on-premises workloads will perform, and how much they will cost to host, in the Azure public cloud. An enterprise can use Azure Migrate to discover information about the VMware VMs running within its own data center, including CPU and memory usage, as well as performance history.

SAP EarlyWatch Alert (EWA) is a monitoring service for SAP customers, to monitor SAP systems in the solution landscape.

Incorrect Answers:

D: SAP HANA Cockpit is an administrative tool with a web interface for a correspondingly named database engine, a part of SAP ERP software. It allows both offline and cloud operations for managing databases,

References: https://searchcloudcomputing.techtarget.com/definition/Azure-Migrate

QUESTION 14

DRAG DROP

You have An Azure subscription that contains an availability set named AS1 and a virtual machine named VM1. VM1 hosts an SAP NetWeavef application

You need to ensure that AS1 includes VM1.

Which four PowerShell cmdlets should you run in sequence? To answer, move the appropriare actions from the list of actions to the answer area and arrange them m the correct order.

Select and Place:

Correct Answer:

To ensure that AS1 includes VM1, you will need to run the following four PowerShell cmdlets in sequence:

Set-AzVMOSDisk -VMName VM1 -AvailabilitySetName AS1 Remove-AzVM -VMName VM1 New-AzVMConfig -VMName VM1 -AvailabilitySetName AS1 Update-AzAvailabilitySet -Name AS1

QUESTION 15

You plan to deploy a high availability SAP environment that will use a failover clustering solution.

You have an Azure Resource Manager template that you will use for the deployment. You have the following relevant portion of the template.

```
"apiVersion": "2017-08-01",
"type": "Microsoft.Network/loadBalancers",
"name": "load_balancer1",
"location": "region",
"sku":
    { "name": "Standard"},
"properties": {
    "frontendIPConfigurations": [
        {
            "name": "frontend1",
            "zones": [ "1" ],
            "properties": {
                "subnet": {
                    "Id": "[variabales('subnetRef')]"
                },
                "privateIPAddress": "10.0.0.6",
                "privateIPAllocationMethod": "Static"
            }
        },
    ],
}
```

What is created by the template?

A. a zone-redundant public IP address for the internal load balancer

B. a zone-redundant frontend IP address for the internal Azure Basic Load Balancer

C. a zone-redundant frontend IP address for the internal Azure Standard Load Balancer

D. a zonal frontend IP address for the internal Azure Standard Load Balancer

Correct Answer: D

A Load Balancer can either be zone redundant, zonal, or non-zonal.

Goto azure portal and create a load balancer it would give you 5 options possibly for Availability Zone : No Zone , Zone Redundant , 1 , 2, 3.

https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-standard-availability-zones