



AZ-120^{Q&As}

Planning and Administering Microsoft Azure for SAP Workloads

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QUESTION 1

You plan to deploy an SAP environment on Azure that will use Azure Availability Zones. Which load balancing solution supports the deployment?

- A. Azure Basic Load Balancer
- B. Azure Standard Load Balancer
- C. Azure Application Gateway v1 SKU

Correct Answer: B

When you deploy Azure VMs across Availability Zones and establish failover solutions within the same Azure region, some restrictions apply:

You can't use an Azure Basic Load Balancer to create failover cluster solutions based on Windows Server Failover Clustering or Linux Pacemaker. Instead, you need to use the Azure Standard Load Balancer SKU.

References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/workloads/sap/sap-ha-availability-zones>

QUESTION 2

You have an on-premises SAP NetWeaver development landscape that contains the resources shown in the following table.

Name	Description
SAPDB1	Hyper-V virtual machine that runs Microsoft SQL Server 2017 and contains a 30-TB database
SAPSRV1	Hyper-V virtual machine that runs Windows Server

You have a 500-Mbps ExpressRoute circuit between the on-premises environment and a virtual network.

You plan to migrate the landscape to Azure.

What should you include in the solution?

- A. Azure Data Box
- B. Microsoft System Center 2019 - Data Protection Manager (DPM 2019)
- C. Azure Site Recovery
- D. Azure Backup Server

Correct Answer: C

Simplify cloud migration by using Site Recovery to migrate your SAP deployment to Azure. Incorrect Answers:



A: Not necessary with the fast ExpressRoute circuit.

Data Box devices easily move data to Azure when busy networks aren't an option. Move large amounts of data to Azure when you're limited by time, network availability, or costs, using common copy tools such as Robocopy. All data is AES-

encrypted, and the devices are wiped clean after upload, in accordance with NIST Special Publication 800-88 revision 1 standards.

Reference:

<https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-sap>

QUESTION 3

HOTSPOT

You are planning the deployment of a three-tier SAP landscape on Azure that will use SAP HANA. The solution must meet the following requirements:

1.

Network latency between SAP NetWeaver and HANA must be minimized.

2.

An SAP production landscape on Azure must be supported.

3.

Network performance must be validated regularly.

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

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

Deploy HANA and NetWeaver to:

	▼
An availability set	
An availability zone	
A proximity placement group	

Networking configuration:

	▼
Enable Write Accelerator	
Deploy ExpressRoute Direct	
Enable Accelerated Networking	

Validate network performance by using:

	▼
ABAPMeter	
Apache JMeter	
Network Performance Monitor	

Correct Answer:

Answer Area

Deploy HANA and NetWeaver to:

	▼
An availability set	
An availability zone	
A proximity placement group	

Networking configuration:

	▼
Enable Write Accelerator	
Deploy ExpressRoute Direct	
Enable Accelerated Networking	

Validate network performance by using:

	▼
ABAPMeter	
Apache JMeter	
Network Performance Monitor	

Box 1: A proximity placement group

Azure offers proximity placement groups. Proximity placement groups can be used to force grouping of different VM types into a single Azure datacenter to optimize the network latency between these different VM types to the best possible. In

the process of deploying the first VM into such a proximity placement group, the VM gets bound to a specific datacenter.

Note: SAP applications based on the SAP NetWeaver or SAP S/4HANA architecture are sensitive to network latency between the SAP application tier and the SAP database tier. This sensitivity is the result of most of the business logic

running in the application layer. Because the SAP application layer runs the business logic, it issues queries to the database tier at a high frequency, at a rate of thousands or tens of thousands per second. In most cases, the nature of these

queries is simple. They can often be run on the database tier in 500 microseconds or less.



Box 2: Enable Accelerated Networking

To further reduce network latency between Azure VMs, we recommend that you choose Azure Accelerated Networking. Use it when you deploy Azure VMs for an SAP workload, especially for the SAP application layer and the SAP DBMS layer.

Incorrect Answers:

Azure Write Accelerator is a functionality that is available for Azure M-Series VMs exclusively. As the name states, the purpose of the functionality is to improve I/O latency of writes against the Azure premium storage. For SAP HANA, Write

Accelerator is supposed to be used against the /hana/log volume only. Therefore, the /hana/data and /hana/log are separate volumes with Azure Write Accelerator supporting the /hana/log volume only.

Box 3: Network Performance Monitor

Network Performance Monitor (NPM) - a cloud-based network monitoring solution for cloud-only, on-premises, and hybrid networking environments.

Network Performance Monitor offers three broad capabilities:

Performance Monitor: You can monitor network connectivity across cloud deployments and on-premises locations, multiple data centers, and branch offices and mission-critical multitier applications or microservices. With Performance

Monitor, you can detect network issues before users complain.

Service Connectivity Monitor

ExpressRoute Monitor

Note 2: Azure Monitor for SAP Solutions is an Azure-native monitoring product for anyone running their SAP landscapes on Azure. It works with both SAP on Azure Virtual Machines and SAP on Azure Large Instances.

Incorrect Answers:

Apache JMeter is a free and open source tool for performance testing of web applications.

SAP application server to database server latency can be tested with ABAPMeter report /SSA/CAT. Latency between SAP application server and DBMS server can be tested using TCPPing (Ping is not an accurate tool on Azure) or the SAP

ABAP report /SSA/CAT -> ABAPMeter

QUESTION 4

You have an Azure subscription.

Your company has an SAP environment that runs on SUSE Linux Enterprise Server (SLES) servers and SAP HANA. The environment has a primary site and a disaster recovery site. Disaster recovery is based on SAP HANA system

replication. The SAP ERP environment is 4 TB and has a projected growth of 5% per month.

The company has an uptime Service Level Agreement (SLA) of 99.99%, a maximum recovery time objective (RTO) of four hours, and a recovery point objective (RPO) of 10 minutes.



You plan to migrate to Azure.

You need to design an SAP landscape for the company.

Which options meet the company's requirements?

- A. Azure virtual machines and SLES for SAP application servers SAP HANA on Azure (Large Instances) that uses SAP HANA system replication for high availability and disaster recovery
- B. ASCS/ERS and SLES clustering that uses the Pacemaker fence agent SAP application servers deployed to an Azure Availability Zone SAP HANA on Azure (Large Instances) that uses SAP HANA system replication for database high availability and disaster recovery
- C. SAP application instances deployed to an Azure Availability Set SAP HANA on Azure (Large Instances) that uses SAP HANA system replication for database high availability and disaster recovery
- D. ASCS/ERS and SLES clustering that uses the Azure fence agent SAP application servers deployed to an Azure Availability Set SAP HANA on Azure (Large Instances) that uses SAP HANA system replication for database high availability and disaster recovery

Correct Answer: B

With Availability Zones, Azure offers industry best 99.99% VM uptime SLA.

References: <https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-faqs>

QUESTION 5

You plan to deploy an SAP landscape on Azure that will use SAP HANA on Azure (Large Instances).

You need to ensure that outbound traffic from the application tier can flow only to the database tier. What should you use?

- A. network virtual appliances (NVAs)
- B. network security groups (NSGs)
- C. application security groups
- D. Azure Firewall

Correct Answer: C

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