



AZ-120^{Q&As}

Planning and Administering Microsoft Azure for SAP Workloads

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QUESTION 1

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.	<input type="radio"/>	<input type="radio"/>
You can use LoadRunner to generate traffic between a client and an SAP application server hosted on Azure.	<input type="radio"/>	<input type="radio"/>
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.	<input type="radio"/>	<input type="radio"/>

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.	<input checked="" type="radio"/>	<input type="radio"/>
You can use LoadRunner to generate traffic between a client and an SAP application server hosted on Azure.	<input type="radio"/>	<input checked="" type="radio"/>
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.	<input type="radio"/>	<input checked="" type="radio"/>

QUESTION 2

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 3

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 4

HOTSPOT

Your on-premises network contains SAP and non-SAP applications. ABAP-based SAP systems are integrated with IDAP and use user name/password-based authentication for logon.

You plan to migrate the SAP applications to Azure.

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:



Statements	Yes	No
Azure Active Directory (Azure AD) pass-through authentication enables users to connect to the ABAP-based SAP systems on Azure by using their on-premises user name/password.	<input type="radio"/>	<input type="radio"/>
Azure Active Directory (Azure AD) password hash synchronization enables users to connect to the ABAP-based SAP systems on Azure by using their on-premises user name/password.	<input type="radio"/>	<input type="radio"/>
Active Directory Federation Services (AD FS) supports authentication between on-premises Active Directory and Azure systems that use different domains.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Statements	Yes	No
Azure Active Directory (Azure AD) pass-through authentication enables users to connect to the ABAP-based SAP systems on Azure by using their on-premises user name/password.	<input type="radio"/>	<input checked="" type="radio"/>
Azure Active Directory (Azure AD) password hash synchronization enables users to connect to the ABAP-based SAP systems on Azure by using their on-premises user name/password.	<input type="radio"/>	<input checked="" type="radio"/>
Active Directory Federation Services (AD FS) supports authentication between on-premises Active Directory and Azure systems that use different domains.	<input checked="" type="radio"/>	<input type="radio"/>

QUESTION 5

You have an on-premises SAP environment hosted on VMware vSphere that uses Microsoft SQL Server as the database platform.

You plan to migrate the environment to Azure. The database platform will remain the same.

You need gather information to size the target Azure environment for the migration.

What should you use?

- A. the SAP EarlyWatch report
- B. Azure Advisor
- C. the SAP HANA sizing report
- D. Azure Monitor

Correct Answer: C

<https://azure.microsoft.com/nl-nl/blog/sap-on-azure-architecture-designing-for-performance-and-scalability/>

"For existing on-premises systems, you should reference system configuration and resource utilization data. The system utilization information is collected by the SAP OS Collector and can be reported via SAP transaction OS07N as well as the EarlyWatch Alert."

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