QUESTION 71
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

Answer: B
Explanation:
Azure Advisor provides recommendations for Application Gateway, App Services, availability sets, Azure Cache, Azure Data Factory, Azure Database for MySQL, Azure Database for PostgreSQL, Azure Database for MariaDB, Azure ExpressRoute, Azure Cosmos DB, Azure public IP addresses, SQL Data Warehouse, SQL servers, storage accounts, Traffic Manager profiles, and virtual machines.
Note: Advisor is a personalized cloud consultant that helps you follow best practices to optimize your Azure deployments. It analyzes your resource configuration and usage telemetry and then recommends solutions that can help you improve the cost effectiveness, performance, high availability, and security of your Azure resources.
With Advisor, you can:
Get proactive, actionable, and personalized best practices recommendations.
Improve the performance, security, and high availability of your resources, as you identify opportunities to reduce your overall Azure spend.
Get recommendations with proposed actions inline.
Incorrect Answers:
A: The SAP EarlyWatch report is a monitoring tool that monitors the essential administrative areas of SAP components and keeps you up to date on their performance and stability. SAP EarlyWatch Alert runs automatically to keep you informed, so you can react to issues proactively, before they become critical.
Reference:
https://docs.microsoft.com/en-us/azure/advisor/advisor-overview

QUESTION 72
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.
You plan to migrate an SAP HANA instance to Azure.

You need to gather CPU metrics from the last 24 hours from the instance.
Solution: You use Monitoring from the SAP HANA Cockpit.
Does this meet the goal?

A. Yes
B. No

Answer: A
Explanation:
The SAP HANA cockpit provides a single point of access to a range of SAP HANA administration and monitoring tasks.
It is used to monitor and ensure the overall health of the system.
The HANA Monitoring dashboard also visualizes key HANA Metrics of SAP HANA system.
Reference:
https://developers.sap.com/tutorials/dt-monitoring-hana-part1.html
https://help.sap.com/viewer/afa922439b204e9caf22c78b6b69e4f2/2.10.0.0/en-US
https://www.hanatutorials.com/p/hana-monitoring-dashboard.html

QUESTION 73
You deploy an SAP environment on Azure.
You need to validate the load distribution to the application servers.
What should you use?

A. SAPControl
B. SAP Solution Manager
C. Azure Monitor
D. SAP Web Dispatcher

Answer: D
Explanation:
Load balancers. These are used to distribute traffic to virtual machines in the application-tier subnet. For high availability, use the built-in SAP Web Dispatcher, Azure Load Balancer, or network appliances, depending on the traffic type (such as HTTP or SAPGUI) or the required network services, such as Secure Sockets Layer (SSL) termination.
Reference:
https://docs.microsoft.com/en-us/azure/architecture/reference-architectures/sap/sap-netweaver

QUESTION 74
You plan to migrate an SAP environment to Azure.
You need to design an Azure network infrastructure to meet the following requirements:
- Prevent end users from accessing the database servers.
- Isolate the application servers from the database servers.
- Ensure that end users can access the SAP systems over the Internet.
- 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.

Answer: AC

QUESTION 75

You are deploying SAP Fiori to an SAP environment on Azure.
You are configuring SAML 2.0 for an SAP Fiori instance named FPP that uses client 100 to authenticate to an Azure Active Directory (Azure AD) tenant.
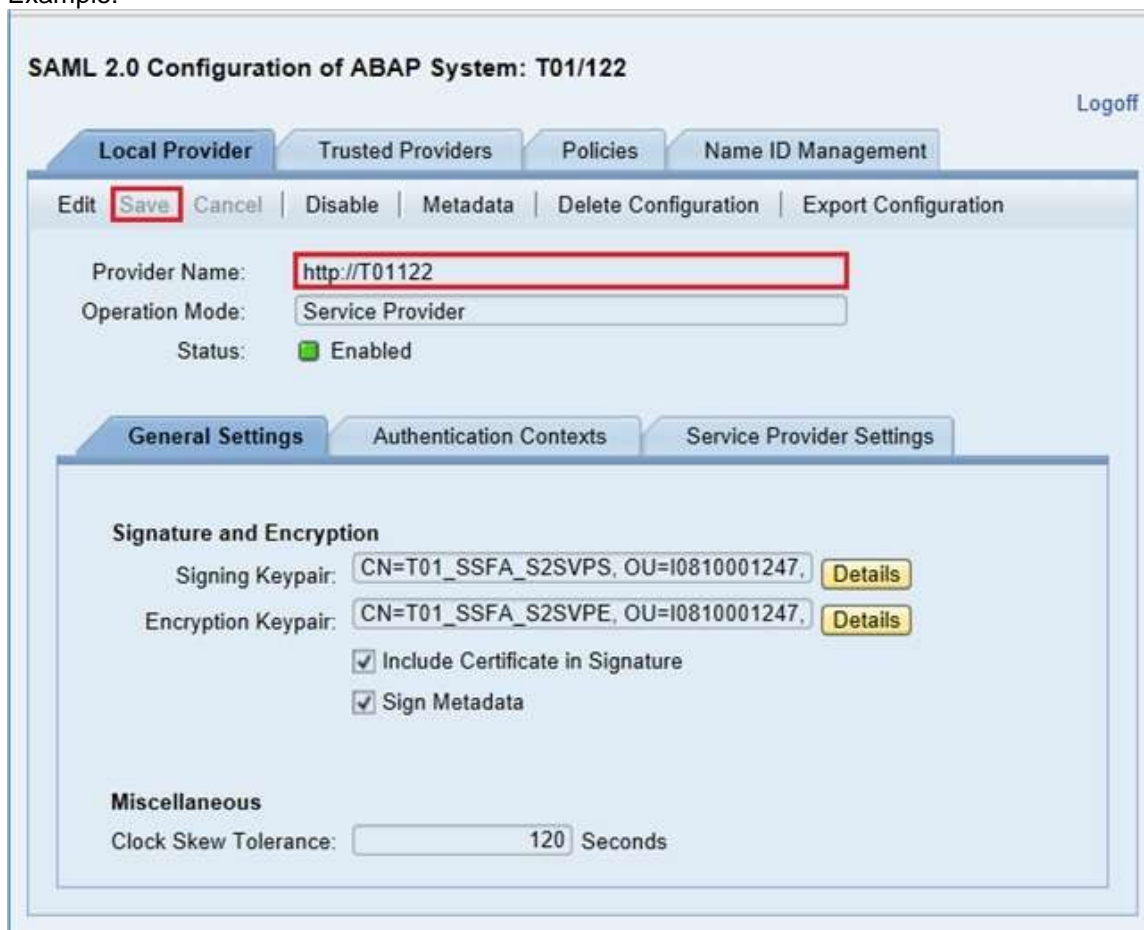Which provider named should you use to ensure that the Azure AD tenant recognizes the SAP Fiori instance?

A. https://FPP
B. ldap://FPP
C. https://FPP100
D. ldap://FPP-100

Answer: C
Explanation:
By default, the provider name is in the format <sid><client>. Azure AD expects the name in the format <protocol>://<name>. We recommend that you maintain the provider name as https://<sid><client> so you can configure multiple SAP Fiori ABAP engines in Azure AD.
Example:

Reference:
https://docs.microsoft.com/en-us/azure/active-directory/saas-apps/sap-fiori-tutorial

QUESTION 76
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

Answer: D
Explanation:
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 77
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

Answer: C
Explanation:
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 78
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

Answer: C
Explanation:
https://docs.microsoft.com/en-us/azure/virtual-machines/workloads/sap/high-availability-guide-standard-load-balancer-outbound-connections

QUESTION 79
Hotspot Question
A company named Contoso, Ltd. has users across the globe. Contoso is evaluating whether to migrate SAP to Azure.
The SAP environment runs on SUSE Linux Enterprise Server (SLES) servers and SAP HANA databases.
The Suite on HANA database is 4 TB.
You need to recommend a migration solution to migrate SAP application servers and the SAP HANA databases. The solution must minimize downtime.
Which migration solutions should you recommend? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

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Answer Area

SAP application servers:
▼
AzCopy
Azure Site Recovery
SAP HANA system replication
System Copy for SAP Systems

SAP HANA databases:
▼
AzCopy
Azure Site Recovery
SAP HANA system replication
System Copy for SAP Systems

Answer:

Answer Area

SAP application servers:
▼
AzCopy
Azure Site Recovery
SAP HANA system replication
System Copy for SAP Systems

SAP HANA databases:
▼
AzCopy
Azure Site Recovery
SAP HANA system replication
System Copy for SAP Systems

Explanation:
Box 1: Azure Site Recovery
Microsoft Azure Site Recovery (ASR) now supports SUSE Linux Enterprise Server 11 SP3/SP4 and SUSE Linux Enterprise Server 12 SP1/SP2/SP3. This is great for customers that are planning to migrate systems to Microsoft Azure or customers who need to have a business continuity strategy for their Azure deployments.
Azure Site Recovery enables SUSE customers to migrate their non-Azure virtual machines or physical servers to Microsoft Azure virtual machines.
Box 2: System Copy for SAP Systems
In order to migrate an existing SAP HANA system into Azure, a SAP homogeneous system copy can be performed.
Reference:
https://www.suse.com/c/asr_supports_suse/
https://www.netapp.com/us/media/tr-4746.pdf

QUESTION 80
Hotspot Question
You have SAP ERP on Azure.
For SAP high availability, you plan to deploy ASCS/ERS instances across Azure Availability Zones and to use failover clusters.
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
To create a failover solution, you can use an Azure Basic Load Balancer for Azure virtual machines deployed across the Azure Availability Zones.	○	○
You can deploy Azure Availability Sets within an Azure Availability Zone.	○	○
The solution must use Azure managed disks.	○	○

Answer:

Answer Area

Statements	Yes	No
To create a failover solution, you can use an Azure Basic Load Balancer for Azure virtual machines deployed across the Azure Availability Zones.	○	●
You can deploy Azure Availability Sets within an Azure Availability Zone.	●	○
The solution must use Azure managed disks.	●	○

Explanation:
Box 1: No
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.
Box 2: Yes
Azure Availability Zones is one of the high-availability features that Azure provides. Using Availability Zones improves the overall availability of SAP workloads on Azure. The SAP application layer is deployed across one Azure availability set. For high availability of SAP Central Services, you can deploy two VMs in a separate availability set.
Box 3: Yes
You must use Azure Managed Disks when you deploy to Azure Availability Zones.
Reference:
https://docs.microsoft.com/en-us/azure/virtual-machines/workloads/sap/sap-ha-availability-zones

QUESTION 81
Hotspot Question
You are deploying an SAP environment across Azure Availability Zones. The environment has the following components:
- ASCS/ERS instances that use a failover cluster
- SAP application servers across the Azure Availability Zones
- 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.

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.	◯	◯

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.	◉	◯

Explanation:
Box 1: No
Azure Availability Zones are physically separate locations within an Azure region protecting customers' applications and data from datacenter-level failures. It is good for applications that require low-latency synchronous replication with protection from datacenter-level failures.
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.
Reference:
https://azure.microsoft.com/sv-se/blog/azure-availability-zones-expand-with-new-services-and-to-new-regions-in-europe-and-united-states/
https://azure.microsoft.com/en-us/blog/sap-on-azure-architecture-designing-for-performance-and-scalability/
https://wiki.scn.sap.com/wiki/pages/viewpage.action?pageId=360974069

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