

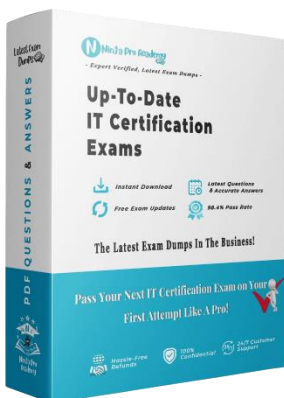


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Vendor: *Microsoft*

Exam Code: *AZ-120*

Exam Name: *Planning and Administering Microsoft Azure for SAP Workloads*

Total Questions: *284 Q&A*

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QUESTION 1

HOTSPOT -

You are designing the backup for an SAP database.

You have an Azure Storage account that is configured as shown in the following exhibit.

The cost of your storage account depends on the usage and the options you choose below.
[Learn more](#)

Account kind
StorageV2 (general purpose v2)

Performance ⓘ
 Standard Premium

* Secure transfer required ⓘ
 Disabled Enabled

Access tier (default) ⓘ
 Cool Hot

Replication ⓘ
Geo-redundant storage (GRS) ▼

Azure Active Directory authentication for Azure Files (Preview) ⓘ
 Disabled Enabled

Data Lake Storage Gen2
Hierarchical namespace ⓘ
 Disabled Enabled

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

Data in the storage account is stored on
[answer choice].

	▼
hard disk drives (HDDs)	
premium solid-state drives (SSDs)	
standard solid-state drives (SSDs)	

Backups will be replicated
[answer choice].

	▼
to a storage cluster in the same datacenter	
to another Azure region	
to another zone within the same Azure region	

Answer:

Answer Area

Data in the storage account is stored on
[answer choice].

	▼
hard disk drives (HDDs)	
premium solid-state drives (SSDs)	
standard solid-state drives (SSDs)	

Backups will be replicated
[answer choice].

	▼
to a storage cluster in the same datacenter	
to another Azure region	
to another zone within the same Azure region	

Explanation/Reference:

Box 1: standard solid-state drives (SSDs)

Standard SSD Managed Disks, a low-cost SSD offering, are optimized for test and entry-level production workloads requiring consistent latency.

Box 2: to another Azure region -

Geo-redundant storage (GRS) copies your data synchronously three times within a single physical location in the primary region using LRS. It then copies your data asynchronously to a single physical location in a secondary region that is hundreds of miles away from the primary region.

References:

<https://azure.microsoft.com/en-us/pricing/details/managed-disks/>

<https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy#geo-redundant-storage>

QUESTION 2

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:

Answer Area

Statements	Yes	No
Oracle Real Application Clusters (RAC) can be used to provide high availability of SAP databases on Azure.	<input type="radio"/>	<input type="radio"/>
You can host SAP databases on Azure by using Oracle on a virtual machine that runs Windows Server 2016.	<input type="radio"/>	<input type="radio"/>
You can host SAP databases on Azure by using Oracle on a virtual machine that runs SUSE Linux Enterprise Server 12 (SLES 12).	<input type="radio"/>	<input type="radio"/>

Answer:

Answer Area

Statements	Yes	No
Oracle Real Application Clusters (RAC) can be used to provide high availability of SAP databases on Azure.	<input checked="" type="radio"/>	<input type="radio"/>
You can host SAP databases on Azure by using Oracle on a virtual machine that runs Windows Server 2016.	<input checked="" type="radio"/>	<input type="radio"/>
You can host SAP databases on Azure by using Oracle on a virtual machine that runs SUSE Linux Enterprise Server 12 (SLES 12).	<input checked="" type="radio"/>	<input type="radio"/>

Explanation/Reference:

Box 1: Yes -

Box 2: Yes -

Oracle Database 12c Release 2 (12.2) is certified on Microsoft Windows Server 2016 (Standard, Datacenter, and Essentials Editions), which includes support for the database client, server, and Oracle Real Application Clusters.

Organizations can run SAP applications with Oracle databases on the same code base on Unix, Linux, and Windows operating systems.

Box 3: Yes -

References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/workloads/oracle/oracle-overview>

<https://docs.oracle.com/en/database/oracle/oracle-database/12.2/ntdbn/index.html#>

QUESTION 3

Your company has an SAP environment that contains the following components:

SAP systems based on SAP HANA and SAP Adaptive Server Enterprise (SAP ASE) that run on SUSE Linux Enterprise Server 12 (SLES 12)

Multiple SAP applications

The company plans to migrate all the applications to Azure. You need to get a comprehensive list of all the applications that are part of the SAP environment.

What should you use?

- A. the SAP license information
- B. the SAP Solution Manager
- C. the data volume management report
- D. the network inventory and locations

Correct Answer: B

Explanation

Explanation/Reference:

The SAP Solution Manager is a centralized robust application management and administration solution used to implement, support, operate and monitor your SAP enterprise solutions, SAP Solution Manager is a platform providing integrated content, tools, methodologies and access to SAP systems.

Incorrect Answers:

C: Data volume management is a framework that helps the solution operations team of an SAP-centric solution to balance the need of business' access to a wealth of data and IT efforts to monitor and control data growth and to minimize data volume.

References:

<https://blogs.sap.com/2009/02/20/sap-solution-manager-overview-for-dummies/>

QUESTION 4

HOTSPOT -

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.

Hot Area:

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/Reference:

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 5

HOTSPOT

-

You have an Azure AD tenant named contoso.com that syncs to an Active Directory domain hosted on an Azure virtual machine.

You plan to deploy an SAP NetWeaver landscape on Azure that will use SUSE Linux Enterprise Server (SLES).

You need to recommend an authentication solution for the following scenarios. The solution must support Azure Multi-Factor Authentication (MFA):

- Administrators sign in to SLES Azure virtual machines.
- A user signs in to an SAP NetWeaver application.

What should you recommend for each scenario? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Administrators signs in to SLES Azure virtual machines:

▼
Active Directory
Azure AD
Azure Active Directory Domain Services (Azure AD DS)

A user signs in to an SAP NetWeaver application:

▼
Active Directory
Azure AD
Azure Active Directory Domain Services (Azure AD DS)

Answer:

Answer Area

Administrators signs in to SLES Azure virtual machines:

Active Directory
Azure AD
Azure Active Directory Domain Services (Azure AD DS)

A user signs in to an SAP NetWeaver application:

Active Directory
Azure AD
Azure Active Directory Domain Services (Azure AD DS)

QUESTION 6

HOTSPOT

-

You have an on-premises SAP ERP Central Component (SAP ECC) deployment on servers that run Windows Server 2016 and have Microsoft SQL Server 2016 installed.

You plan to migrate the deployment to Azure.

You need to identify which migration method and migration option to use. The solution must minimize downtime of the SAP ECC deployment.

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

NOTE: Each correct selection is worth one point.

Answer Area

Migration method:

Classical migration:
SAP Database Migration Option (DMO):
SAP Database Migration Option (DMO) with System Move:

Migration option:

Parallel
Parallel export/import
Sequential unload and load
Serial

Answer:

Answer Area

Migration method: ▼

- Classical migration:
- SAP Database Migration Option (DMO):
- SAP Database Migration Option (DMO) with System Move:**

Migration option: ▼

- Parallel
- Parallel export/import**
- Sequential unload and load
- Serial

QUESTION 7

DRAG DROP

-

You have an on-premises SAP NetWeaver-based ABAP deployment hosted on servers that run Windows Server or Linux.

You plan to migrate the deployment to Azure.

What will invalidate the existing NetWeaver ABAP licenses for each operating system once the servers are migrated to Azure? To answer, drag the appropriate actions to the correct operating systems. Each action may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Actions

Changing the hostname assigned to the operating system

Deallocating the Azure virtual machine

Deleting the Azure virtual machine and recreating a new virtual machine that uses the same disks

Using the Redeploy option from the Azure portal of the Azure virtual machine

Replacing the primary NIC

Answer Area

Windows Server:

Linux:

Answer:**Answer Area**

Windows Server:

Deleting the Azure virtual machine and recreating a new virtual machine that uses the same disks

Changing the hostname assigned to the operating system

Linux:

Replacing the primary NIC

QUESTION 8**HOTSPOT**

-

You have an Azure subscription.

You need to deploy multiple virtual machines that will host SAP HANA by using an Azure Resource Manager (ARM) template. The solution must meet SAP certification requirements.

How should you complete the template? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

```
{
  "apiVersion": "2017-06-01",
  "type": "Microsoft.Network/networkInterfaces",
  "name": "[parameters('vmName')]",
  "location": "[resourceGroup().location]",
  "properties": {
     true,
    "AuxiliaryMode":
    "enableAcceleratedNetworking":
    "enableIPForwarding":
    "ipConfigurations": [
      ...]
    "type": "Microsoft.Compute/virtualMachines",
    "name": "[parameters('vmName')]",
    "location": "[resourceGroup().location]",
    "properties": {
      "hardwareProfile": {
        "vmSize": 
        ...
        "Standard_DS16_v4"
        "Standard_E16"
        "Standard_M64s"
      }
    }
  }
}
```

Answer:

Answer Area

```
{
  "apiVersion": "2017-06-01",
  "type": "Microsoft.Network/networkInterfaces",
  "name": "[parameters('vmName')]",
  "location": "[resourceGroup().location]",
  "properties": {
     true,
    "AuxiliaryMode":
    "enableAcceleratedNetworking":
    "enableIPForwarding":
    "ipConfigurations": [
      ...]
    "type": "Microsoft.Compute/virtualMachines",
    "name": "[parameters('vmName')]",
    "location": "[resourceGroup().location]",
    "properties": {
      "hardwareProfile": {
        "vmSize": 
        ...
      }
    }
  }
}
```

QUESTION 9

You have an on-premises SAP landscape that is hosted on VMware vSphere and contains 50 virtual machines.

You need to perform a lift-and-shift migration to Azure by using Azure Migrate. The solution must minimize administrative effort.

What should you deploy first?

- A. an Azure Backup server
- B. an Azure VPN gateway
- C. an Azure Migrate configuration server
- D. an Azure Migrate process server

Correct Answer: C

Explanation**Explanation/Reference:**

The configuration server is part of the Azure Migrate appliance, which you set up on-premises for discovery and assessment. Once the configuration server is set up, it orchestrates replication and performs push installations of the Mobility service on VMs you want to replicate.

QUESTION 10

You are designing an SAP HANA deployment.

You estimate that the database will be 1.8 TB in three years.

You need to ensure that the deployment supports 60,000 IOPS. The solution must minimize costs and provide the lowest latency possible.

Which type of disk should you use?

- A. Standard HDD
- B. Standard SSD
- C. Ultra disk
- D. Premium SSD

Correct Answer: D

Explanation**Explanation/Reference:**

Reference:

<https://learn.microsoft.com/en-us/azure/virtual-machines/disks-types>

QUESTION 11

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. Azure Migrate
- B. Azure Database Migration Service
- C. SAP Software Provisioning Manager
- D. SAP Software Update Manager

Correct Answer: C

Explanation

Explanation/Reference:

SAP Software Provisioning Manager is specifically designed for SAP system migrations, conversions, and installations. It provides automation and guidance for the process, helping to minimize administrative effort. Additionally, it offers options for performing system conversions with minimal downtime, allowing you to maintain business continuity during the migration process.

While Azure services like Azure Migrate and Azure Database Migration Service are useful for migrating various workloads to Azure, they are not specifically tailored for SAP system migrations and may not provide the same level of automation and optimization for SAP workloads as SAP Software Provisioning Manager does.

QUESTION 12

HOTSPOT

-

You have an on-premises SAP NetWeaver production landscape and an Azure subscription that contains the resources shown in the following table.

Name	Description	Location
SAPDB1	Solaris SPARC server that runs an Oracle database of 10 TB	On-premises
Vnet1	Azure virtual network	Azure
SAPSQLVM1	Azure virtual machine that runs Microsoft SQL Server 2017 and connects to VNet1	Azure
SAPEXP1	Intel server that runs Windows Server	On-premises
SAPEXP2	Intel server that runs Windows Server	On-premises
SAPEXP3	Intel server that runs Windows Server	On-premises
SAPEXP4	Intel server that runs Windows Server	On-premises
SAPIMP1	Azure virtual machine that runs Windows Server and connects to VNet1	Azure

You have a 10-Gbps ExpressRoute circuit between the on-premises environment and VNet1.

You plan to migrate the landscape to Azure.

As part of the solution, you need to migrate the on-premises Oracle database to SAPSQLVM1. The solution must minimize how long it will take to complete the data migration.

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

NOTE: Each correct selection is worth one point.

Answer Area

To export the Oracle database:

	▼
R3load	
RMAN	
Azure Import/Export	

To transfer the database files to Azure before the import:

	▼
R3load	
Robocopy	
R3ta	
Azure Import/Export	

Answer:

Answer Area

To export the Oracle database:

	▼
R3load	
RMAN	
Azure Import/Export	

To transfer the database files to Azure before the import:

	▼
R3load	
Robocopy	
R3ta	
Azure Import/Export	

QUESTION 13

You have an Azure subscription and an Enterprise Agreement (EA).

You plan to deploy an SAP on Azure production landscape that will contain the following virtual machines:

- One M-series virtual machine with 128 cores
- 15 E-series virtual machines with a total of 300 cores
- 10 D-series virtual machines with a total of 160 cores

During the deployment of the E-series virtual machines, you receive the following error message. Operation results in exceeding quota limits of Core.

You need to ensure you can complete the E-series virtual machine deployment. The solution must meet the following requirements:

- Maintain the performance of the SAP landscape.
- Minimize administrative effort.
- Minimize costs.

What should you do?

- A. Convert the subscription to Pay-As-You-Go (PAYG).
- B. Create a second subscription and split the virtual machines evenly between both subscriptions.
- C. Resize the D-series and E-series virtual machines.
- D. Request a quota increase for the Azure region.

Correct Answer: D

Explanation

Explanation/Reference:

The error message indicates that you have exceeded the core quota limit for your subscription in the Azure region where you're deploying the E-series virtual machines. To resolve this issue and meet the requirements, you should: Request a quota increase for the Azure region.

- Maintain the performance of the SAP landscape: This requirement suggests that downgrading or changing the VM sizes might not be ideal, as it could affect performance. Hence, maintaining the current VM sizes is preferred.
- Minimize administrative effort: Creating a new subscription (Option B) would add administrative overhead, such as managing multiple subscriptions, billing, and resource governance across subscriptions. Hence, it doesn't align with the goal of minimizing administrative effort.
- Minimize costs: Converting the subscription to Pay-As-You-Go (PAYG) (Option A) might not be the best approach, as it doesn't directly address the quota issue and might not necessarily reduce costs. Moreover, an Enterprise Agreement (EA) often offers discounted rates compared to PAYG.
- Request a quota increase for the Azure region: This option directly addresses the issue by increasing the quota for the required resources in the Azure region. It allows you to deploy the necessary E-series virtual machines without changing their sizes or splitting resources across multiple subscriptions, thus meeting the requirements efficiently.

QUESTION 14

HOTSPOT -

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.

Hot Area:

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.	<input type="radio"/>	<input type="radio"/>
You can deploy Azure Availability Sets within an Azure Availability Zone.	<input type="radio"/>	<input type="radio"/>
The solution must use Azure managed disks.	<input type="radio"/>	<input type="radio"/>

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.	<input type="radio"/>	<input checked="" type="radio"/>
You can deploy Azure Availability Sets within an Azure Availability Zone.	<input checked="" type="radio"/>	<input type="radio"/>
The solution must use Azure managed disks.	<input checked="" type="radio"/>	<input type="radio"/>

Explanation/Reference:

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 15

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

Correct Answer: D

Explanation

Explanation/Reference:

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 16

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 deploy SAP HANA on Azure (Large Instances).

You need to back up the SAP HANA database to Azure.

Solution: You create a Recovery Services vault and a backup policy.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Explanation

Explanation/Reference:

Reference:

<https://blogs.sap.com/2021/02/24/backup-and-recovery-of-sap-hana-database-on-azure-using-azure-backup-plugin-for-hana-part-i/>

<https://docs.microsoft.com/en-us/azure/virtual-machines/workloads/sap/hana-backup-restore>

QUESTION 17

DRAG DROP

-

You have an Azure subscription.

You plan to deploy a SAP NetWeaver landscape that will use SQL Server on Azure virtual machines. The solution must meet the following requirements:

- The SAP application and database tiers must reside in the same Azure zone.
- The application tier in the Azure virtual machines must belong to the same Availability Set.

Which four 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.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Actions

Answer Area

- Create a host group
- Create a proximity placement group
- Create an Availability Set
- Deploy the application tier in the Azure virtual machines
- Deploy SQL Server on Azure virtual machines



Answer:

Answer Area

- Create a proximity placement group
- Create an Availability Set
- Deploy SQL Server on Azure virtual machines
- Deploy the application tier in the Azure virtual machines

QUESTION 18
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:

- Network latency between SAP NetWeaver and HANA must be minimized.

- An SAP production landscape on Azure must be supported.
- 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.

Answer Area

Deploy HANA and NetWeaver to:	<div style="border: 1px solid black; padding: 5px;"> <div style="border-bottom: 1px solid black; height: 20px; display: flex; justify-content: flex-end; align-items: center; padding-right: 5px;">▼</div> <p>An availability set An availability zone A proximity placement group</p> </div>
Networking configuration:	<div style="border: 1px solid black; padding: 5px;"> <div style="border-bottom: 1px solid black; height: 20px; display: flex; justify-content: flex-end; align-items: center; padding-right: 5px;">▼</div> <p>Enable Write Accelerator Deploy ExpressRoute Direct Enable Accelerated Networking</p> </div>
Validate network performance by using:	<div style="border: 1px solid black; padding: 5px;"> <div style="border-bottom: 1px solid black; height: 20px; display: flex; justify-content: flex-end; align-items: center; padding-right: 5px;">▼</div> <p>ABAPMeter Apache JMeter Network Performance Monitor</p> </div>

Answer:

Answer Area

Deploy HANA and NetWeaver to:	<div style="border: 1px solid black; padding: 5px;"> <div style="border-bottom: 1px solid black; height: 20px; display: flex; justify-content: flex-end; align-items: center; padding-right: 5px;">▼</div> <p>An availability set An availability zone A proximity placement group</p> </div>
Networking configuration:	<div style="border: 1px solid black; padding: 5px;"> <div style="border-bottom: 1px solid black; height: 20px; display: flex; justify-content: flex-end; align-items: center; padding-right: 5px;">▼</div> <p>Enable Write Accelerator Deploy Expressroute Direct Enable Accelerated Networking</p> </div>
Validate network performance by using:	<div style="border: 1px solid black; padding: 5px;"> <div style="border-bottom: 1px solid black; height: 20px; display: flex; justify-content: flex-end; align-items: center; padding-right: 5px;">▼</div> <p>ABAPMeter Apache JMeter Network Performance Monitor</p> </div>

QUESTION 19
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.

Answer Area

Statements	Yes	No
You must split data files and database logs between different Azure virtual disks to increase the database read/write performance	<input type="radio"/>	<input type="radio"/>
Enabling Accelerate Networking on virtual NICs for all SAP servers will reduce network latency between the servers	<input type="radio"/>	<input type="radio"/>
When you use SAP HANA on Azure (Large Instances), you should set the MTU on the primary network interface to match the MTU on SAP application servers to reduce CPU utilization and network latency	<input type="radio"/>	<input type="radio"/>

Answer:

Answer Area

Statements	Yes	No
You must split data files and database logs between different Azure virtual disks to increase the database read/write performance	<input checked="" type="radio"/>	<input type="radio"/>
Enabling Accelerate Networking on virtual NICs for all SAP servers will reduce network latency between the servers	<input checked="" type="radio"/>	<input type="radio"/>
When you use SAP HANA on Azure (Large Instances), you should set the MTU on the primary network interface to match the MTU on SAP application servers to reduce CPU utilization and network latency	<input checked="" type="radio"/>	<input type="radio"/>

Explanation/Reference:

1. Splitting data files and database logs between different Azure virtual disks can improve the read/write performance of a database. By doing so, the workload can be distributed over multiple disks, resulting in better I/O performance.

2. Accelerated Networking is a feature in Azure that can help to reduce network latency between virtual

machines. By enabling Accelerated Networking, you can offload some of the networking processing to the NIC hardware, which can result in reduced CPU usage and lower network latency.

3. The Maximum Transmission Unit (MTU) size determines the maximum size of a packet that can be transmitted over a network. If the MTU sizes are not the same between the SAP HANA on Azure (Large Instances) and the SAP application servers, this can result in packet fragmentation and retransmission, which can increase CPU utilization and network latency. Setting the MTU on the primary network interface to match the MTU on SAP application servers can help to reduce these issues.

QUESTION 20

HOTSPOT

-

You are implementing a highly available deployment of SAP HANA on Azure virtual machines.

You need to ensure that the deployment meets the following requirements:

- Supports host auto-failover
- Minimizes cost

How should you configure the highly available components of the deployment? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

HANA database and log volumes:

	▼
NFSv3 volumes	
NFSv4 volumes	
Premium SSD disks	

I/O fencing:

	▼
NFSv3	
NFSv4	
An SBD device	

Answer:

Answer Area

HANA database and log volumes:

NFSv3 volumes
NFSv4 volumes
Premium SSD disks

I/O fencing:

NFSv3
NFSv4
An SBD device

QUESTION 21

DRAG DROP

You need to deploy an SAP production landscape on Azure. The solution must be supported by the SAP production landscape and must minimize costs.

Which Azure virtual machine series should you use for each SAP workload? To answer, drag the appropriate series to the correct workloads. Each series may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

The screenshot shows an exam question interface with two main panes. The left pane, titled "Azure virtual machine series", contains a list of four series: B-Series, D-Series, M-Series, and N-Series, each in a separate box. The right pane, titled "Answer Area", contains two input fields: "SAP Central Services (SCS):" and "SAP HANA:". A vertical split bar is visible between the two panes. A watermark "©NinjaPro Academy" is overlaid diagonally across the interface.

Answer:

Answer Area

SAP Central Services (SCS):	<input type="text" value="B-Series"/>
SAP HANA:	<input type="text" value="M-Series"/>

Explanation/Reference:

Reference:

<https://learn.microsoft.com/en-us/training/modules/identify-sap-certified-configurations/3-identify-deployment-options-sap-solutions-on-azure>

QUESTION 22

You have an Azure subscription that contains an SAP HANA on Azure (Large Instances) deployment.

The deployment is forecasted to require an additional 256 GB of storage.

What is the minimum amount of additional storage you can allocate?

- A. 256 GB
- B. 512 GB
- C. 1 TB
- D. 2 TB

Correct Answer: C

Explanation

Explanation/Reference:

For SAP HANA on Azure (Large Instances), storage increments are typically provided in TBs. When considering the storage options for the HANA Large Instances, the most appropriate answer given the available choices would be: 1 TB

QUESTION 23

You are deploying an SAP production landscape on Azure.

You deploy virtual machines that have SAP Digital Boardroom and SAP HANA installed.

You need to measure network latency between the virtual machines.

What should you use?

- A. Network Performance Monitor
- B. Iometer
- C. Connection Monitor in Azure Network Watcher

D. SockPerf

Correct Answer: C

Explanation

Explanation/Reference:

Azure Network Watcher provides tools to monitor, diagnose, view metrics, and enable or disable logs for resources in an Azure virtual network. Connection Monitor specifically measures latency and network connectivity between VMs.

QUESTION 24

You deploy an SAP environment on Azure.

Your company has a Service Level Agreement (SLA) of 99.99% for SAP. You implement Azure Availability Zones that have the following components:

Redundant SAP application servers

ASCS/ERS instances that use a failover cluster

Database high availability that has a primary instance and a secondary instance

▪

You need to validate the high availability configuration of the ASCS/ERS cluster. What should you use?

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

Correct Answer: B

Explanation

Explanation/Reference:

Incorrect Answers:

C: You can use SAPControl to start or stop an SAP system from the command line.

References:

<https://docs.microsoft.com/en-us/azure/architecture/reference-architectures/sap/sap-netweaver>

QUESTION 25

HOTSPOT -

You have the following Azure Resource Manager template.

```

{
  "$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#",
  "contentVersion": "1.0.0.0",
  "parameters": {},
  "resources": [
    {
      "apiVersion": "2016-01-01",
      "type": "Microsoft.Storage/storageAccounts",
      "name": "[concat(copyIndex(), 'storage', uniqueString(resourceGroup().id))]",
      "location": "[resourceGroup().location]",
      "sku": {
        "name": "Premium_LRS"
      },
      "kind": "Storage",
      "properties": {},
      "copy": {
        "name": "storagecopy",
        "count": 6,
        "mode": "Serial",
        "batchSize": 1
      }
    }
  ]
}

```

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
Six storage accounts will be created.	<input type="radio"/>	<input type="radio"/>
The storage accounts will be created in parallel.	<input type="radio"/>	<input type="radio"/>
The storage accounts will be replicated to multiple regions.	<input type="radio"/>	<input type="radio"/>

Answer:

Answer Area

Statements	Yes	No
Six storage accounts will be created.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The storage accounts will be created in parallel.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
The storage accounts will be replicated to multiple regions.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Explanation/Reference:

Box 1: Yes -
Count is 6.

Box 2: No -
Mode is serial.

Box 3: No -

Reference:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/copy-resources>

QUESTION 26

You deploy an SAP environment on Azure by following the SAP workload on Azure planning and deployment checklist.

You need to verify whether Azure Diagnostics is enabled.
Which cmdlet should you run?

- A. Get-AzureVMAvailableExtension
- B. Get-AzVmDiagnosticsExtension
- C. Test-AzDeployment
- D. Test-VMConfigForSAP

Correct Answer: B

Explanation

Explanation/Reference:

The Get-AzVM.DiagnosticsExtension cmdlet gets the settings of the Azure Diagnostics extension on a virtual machine.

Incorrect Answers:

D: You can check the configuration of a virtual machine by calling the Test- VMConfigForSAP_GUI commandlet.

Reference:

<https://docs.microsoft.com/en-us/powershell/module/az.compute/get-azvmdiagnosticsextension>

QUESTION 27

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:

Answer Area

Statements	Yes	No
Azure AD Connect is required to sign into Linux virtual machines hosted in Azure.	<input type="radio"/>	<input type="radio"/>
An SAP application server that runs on a Linux virtual machine in Azure must be joined to Active Directory.	<input type="radio"/>	<input type="radio"/>
Before you can sign into an SAP application server that runs on a Linux virtual machine in Azure, you must create a Managed Service Identity (MSI).	<input type="radio"/>	<input type="radio"/>

Answer:

Answer Area

Statements	Yes	No
Azure AD Connect is required to sign into Linux virtual machines hosted in Azure.	<input type="radio"/>	<input checked="" type="radio"/>
An SAP application server that runs on a Linux virtual machine in Azure must be joined to Active Directory.	<input checked="" type="radio"/>	<input type="radio"/>
Before you can sign into an SAP application server that runs on a Linux virtual machine in Azure, you must create a Managed Service Identity (MSI).	<input type="radio"/>	<input checked="" type="radio"/>

Explanation/Reference:

Box 1: No -

To log in to a Linux VM with Azure AD credentials, install the Azure Active Directory login VM extension.
Note: Azure AD Connect is the Microsoft tool designed to meet and accomplish your hybrid identity goals.

Box 2: Yes -

If you deploy SAP VMs in a cross-premises scenario, where on-premises Active Directory and DNS are extended in Azure, it is expected that the VMs are joining an on-premises domain.

Box 3: No -

Reference:

<https://docs.microsoft.com/en-us/azure/virtual-machines/workloads/sap/deployment-guide>

QUESTION 28

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>

Correct Answer: C

Explanation

Explanation/Reference:

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:

SAML 2.0 Configuration of ABAP System: T01/122 Logoff

Local Provider | Trusted Providers | Policies | Name ID Management

Edit | **Save** | Cancel | Disable | Metadata | Delete Configuration | Export Configuration

Provider Name:

Operation Mode:

Status: Enabled

General Settings | Authentication Contexts | Service Provider Settings

Signature and Encryption

Signing Keypair:

Encryption Keypair:

Include Certificate in Signature

Sign Metadata

Miscellaneous

Clock Skew Tolerance: Seconds

Reference:

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

QUESTION 29

You plan to migrate an SAP environment to Azure.

You need to create a design to facilitate end-user access to SAP applications over the Internet, while restricting user access to the virtual machines of the SAP application servers.

What should you include in the design?

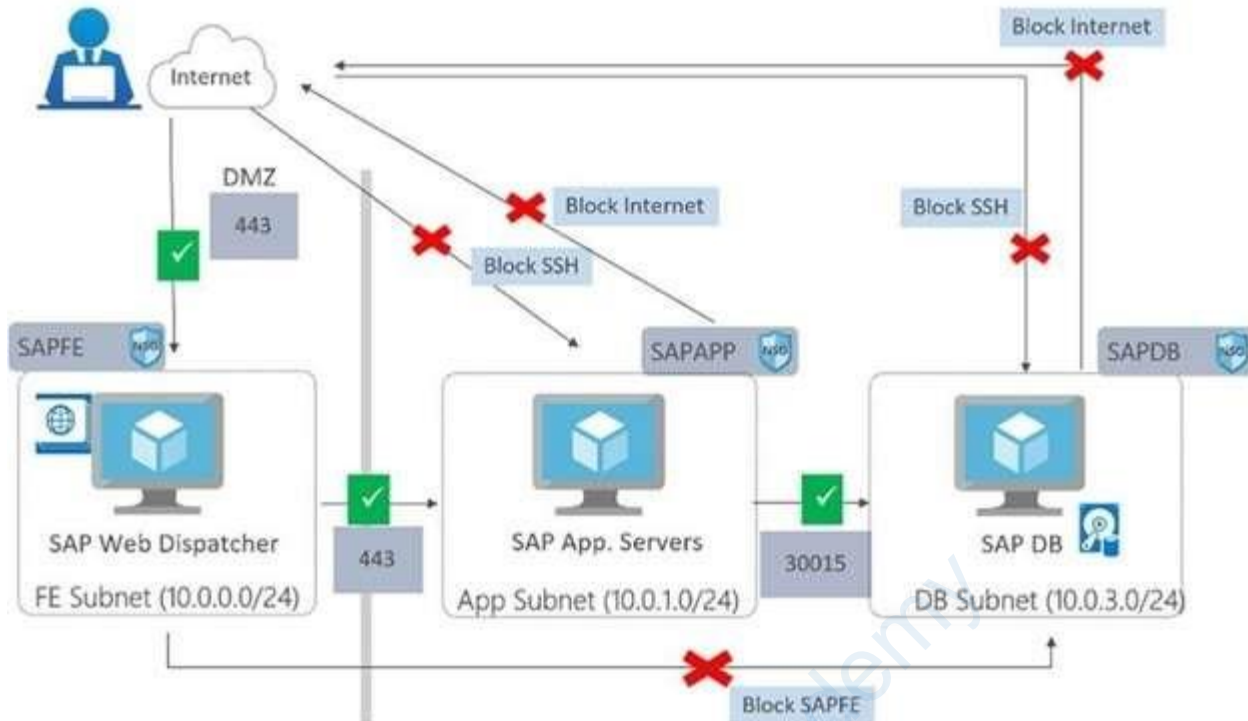
- A. Configure a public IP address for each SAP application server
- B. Deploy an internal Azure Standard Load Balancer for incoming connections
- C. Use an SAP Web Dispatcher to route all incoming connections
- D. Configure point-to-site VPN connections for each user

Correct Answer: C

Explanation

Explanation/Reference:

1. A public internet user can reach the SAP Web-Dispatcher over port 443
2. The SAP Web-Dispatcher can reach the SAP Application server over port 443
3. The App Subnet accepts traffic on port 443 from 10.0.0.0/24
4. The SAP Application server sends traffic on port 30015 to the SAP DB server
5. The DB subnet accepts traffic on port 30015 from 10.0.1.0/24.
6. Public Internet Access is blocked on both App Subnet and DB Subnet.



References:

<https://azure.microsoft.com/en-in/blog/sap-on-azure-architecture-designing-for-security/>

QUESTION 30

You migrate an SAP environment to Azure.

You need to inspect all the outbound traffic from the SAP application servers to the Internet. Which two Azure resources should you use? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Azure Traffic Manager
- B. Azure Firewall
- C. Network Performance Monitor
- D. Azure user-defined routes
- E. Azure Load Balancer NAT rules
- F. a Web Application Firewall (WAF) for Azure Application Gateway

Correct Answer: AD

Explanation

Explanation/Reference:

> Prevent end users from accessing the database servers & Isolate the application servers from the database servers.

The best way to do this within Azure without adding unnecessary complexity or cost is to use subnets within a single virtual network. By segmenting the application servers and database servers into different subnets, you can effectively control traffic between them using Network Security Groups (NSGs). This meets the requirement of isolation between the application and database layers.

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

To allow access over the Internet, you'd typically employ a load balancer. An Azure Load Balancer can be set up to distribute incoming traffic to the SAP application servers. When thinking about internet access, the load balancer should ideally be an external (or public) load balancer. The option D mentions an "internal" load

balancer, which might seem a bit counterintuitive, but given the choices available, this is the closest to what you'd need. It's important to note that in a real-world scenario, you'd choose an external load balancer for this requirement.

> Minimize the costs associated with the communications between the application servers and database servers.

If the application servers and database servers are in the same virtual network (even if in different subnets), the traffic between them remains within the VNet, and there is no additional data transfer cost. Placing them in different virtual networks could incur data transfer costs between VNets.

A is correct because it allows for the efficient segmentation of traffic and minimizes cost by keeping all servers within a single VNet, but on different subnets.

D is correct because a load balancer is necessary for internet access.

QUESTION 31

You plan to automate a deployment of SAP NetWeaver on Azure virtual machines by using Azure Resource Manager templates. The database tier will consist of two instances of an Azure Marketplace Microsoft SQL Server 2017 virtual machine image that each has 8 TB of RAM.

Which task should you include in the templates used to deploy the SQL Server virtual machines?

- A. Enable read caching on the disks used to store the SQL Server database log files.
- B. Run the SQL Server setup and specify the /ACTION=INSTALL and /SQLMAXMEMORY switches.
- C. Enable buffer pool extensions in SQL Server.
- D. Run the SQL Server setup and specify the /ACTION=REBUILDDATABASE and /SQLCOLLATION switches.

Correct Answer: B

Explanation

Explanation/Reference:

When deploying SQL Server on Azure virtual machines, it's recommended to use a custom script extension in the Azure Resource Manager templates to automate the installation and configuration of SQL Server. By specifying the /ACTION=INSTALL and /SQLMAXMEMORY switches during the installation, you can ensure that SQL Server is configured with the appropriate maximum memory allocation for the virtual machine. This is especially important in scenarios where you have large amounts of RAM available on the virtual machine, such as in this case where the SQL Server virtual machine image has 8 TB of RAM.

QUESTION 32

DRAG DROP

-

You plan to deploy SAP on Azure.

The deployment must meet the following requirements:

- Support failover to another Azure region in the event of a regional outage.
- Minimize data loss during a failover.
- Minimize costs.

Which fault tolerance technology should you choose for the SAP Web Dispatcher and the Microsoft SQL Server 2017 servers to meet the requirements? To answer, drag the appropriate technologies to the correct targets. Each technology may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Technologies

Answer Area

- Availability Sets
- Azure Site Recovery
- Native replication
- Rsync

SAP Web Dispatcher:

SQL Server 2017 servers:

Answer:

Answer Area

SAP Web Dispatcher:

Availability Sets

SQL Server 2017 servers:

Native replication

QUESTION 33

You have an SAP production landscape that uses SAP HANA databases on Azure. The HANA database server is a Standard_M32ms Azure virtual machine that has 864 GB of RAM.

The HANA database is 400 GB. You expect the database to grow by 40 percent during the next 12 months.

You resize the HANA database server virtual machine to Standard_m64ms and 1,024 GB of RAM.

You need to recommend additional changes to minimize performance degradation caused by database growth.

What should you recommend for the HANA database server?

- A. Configure additional disks.
- B. Add a scale out node.
- C. Add a secondary network interface.

D. Increase the number of vCPUs.

Correct Answer: A

Explanation

Explanation/Reference:

For SAP HANA running on Azure, performance can be influenced by various factors, including memory, CPU, and storage I/O. Given the context:

- 1) You already resized the VM to increase memory, so you've addressed potential memory bottlenecks.
 - 2) The described challenge pertains to database growth. As the database grows, storage performance becomes crucial.
- Ensuring that the storage subsystem can handle the I/O requirements of a growing database is critical.

Given the choices:

A. Configure additional disks: This can help distribute I/O and potentially increase IOPS and throughput. Ensuring that the storage subsystem is appropriately configured can significantly help in supporting the performance requirements of a growing HANA database.

QUESTION 34

HOTSPOT

-

You plan to deploy SAP HANA to an Azure virtual machine for a production landscape.

You need to stripe multiple disks together by using the HANA indexserver.

How should you configure the Azure disks? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Cache setting: ▼

Disk type: ▼

Enable Write Accelerator on: ▼

None
Read
Read/Write

Premium_LRS
Standard_GRS
Standard_LRS
StandardSSD_LRS

Hana/data only
Hana/log only
Hana/Log and hana/data

Answer:

Answer Area

Cache setting:

Disk type:

Enable Write Accelerator on:

QUESTION 35

You deploy an SAP environment on Azure.

Your company has a Service Level Agreement (SLA) of 99.99% for SAP.

You implement Azure Availability Zones that have the following components:

- Redundant SAP application servers
- ASCS/ERS instances that use a failover cluster
- Database high availability that has a primary instance and a secondary instance

You need to initiate failover of the ASCS/ERS cluster.

What should you use?

- A. SAP Web Dispatcher
- B. Azure Traffic Manager
- C. SAPControl

D. SAP Solution Manager

Correct Answer: C

Explanation

Explanation/Reference:

SAPControl is the correct option to initiate failover of the ASCS/ERS cluster. SAPControl is a central control and monitoring component for SAP systems, and it allows you to monitor and manage SAP instances and components. With SAPControl, you can perform tasks such as starting and stopping SAP instances, checking the status of instances, and initiating failover of the ASCS/ERS cluster. Azure Traffic Manager is a DNS-based traffic load balancer that distributes traffic across multiple endpoints, while the SAP Web Dispatcher is used to route incoming HTTP(S) requests to the appropriate SAP application server. SAP Solution Manager is a management platform for SAP systems, but it is not used to initiate failover of the ASCS/ERS cluster.

QUESTION 36

You have an SAP HANA on Azure (Large Instances) deployment that has two Type II SKU nodes. Each node is provisioned in a separate Azure region.

You need to monitor storage replication for the deployment.
What should you use?

- A. xfsdump
- B. azacsnap
- C. rear
- D. tar

Correct Answer: B

Explanation

Explanation/Reference:

For SAP HANA on Azure (Large Instances) with multi-node configurations where storage replication is involved, azacsnap is the tool provided by Azure specifically to help manage and monitor storage replication and snapshots for SAP HANA Large Instances.

QUESTION 37

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

Explanation

Explanation/Reference:

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 38

You deploy an SAP production landscape on Azure virtual machines that run SUSE Linux Enterprise Server (SLES).

You need to generate a report that details performance differences between instances of an SAP AS ABAP system.

What should you use?

- A. JMeter
- B. ABAPmeter
- C. Micro Focus LoadRunner
- D. SAP UI5 Speedtest Tool

Correct Answer: B
Explanation

Explanation/Reference:

ABAPmeter is designed to work with SAP environments and can give insights into performance differences between different instances of SAP AS ABAP systems.

QUESTION 39

You have a highly available deployment of SAP NetWeaver on Azure virtual machines. The database tier is hosted on two virtual machines that run Windows Server 2019 and have Microsoft SQL Server 2017 installed. The NetWeaver, application, and database tiers each reside on a separate subnet within the same virtual network.

You run ABAPMeter against the deployment and discover that the average value of Acc DB is 2 ms.

You need to lower the Acc DB value.

What should you do?

- A. Redeploy the NetWeaver, application, and SQL Server virtual machines to the same proximity placement group.
- B. Increase the tempdb size on the SQL Server virtual machines.
- C. Configure the SQL Server database to use asynchronous replication.
- D. Move the application virtual machines to the same subnet as the SQL Server virtual machines.

Correct Answer: A
Explanation

Explanation/Reference:

The "Acc DB" value in ABAPMeter indicates the time taken for database access. To reduce this value, you should minimize the latency between the application tier and the database tier.

A. Redeploy the NetWeaver, application, and SQL Server virtual machines to the same proximity placement group: Proximity placement groups in Azure are a way to co-locate Azure compute resources in the same data center to minimize network latency. By having all related VMs in the same proximity placement group, you can reduce the network latency between them.

QUESTION 40

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 have an SAP production landscape on-premises and an SAP development landscape on Azure.

You deploy a network virtual appliance to act as a firewall between the Azure subnets and the on-premises network.

You need to ensure that all traffic is routed through the network virtual appliance.

Solution: You deploy an Azure Standard Load Balancer.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

Explanation

Explanation/Reference:

Deploying an Azure Standard Load Balancer can meet the goal of ensuring that all traffic is routed through the network virtual appliance. Standard Load Balancer can route traffic to multiple virtual machines or network virtual appliances in a single availability zone or multiple availability zones. By configuring the backend pool of the load balancer to include the network virtual appliance and the appropriate subnets, traffic can be forced to flow through the network virtual appliance for security and monitoring purposes.

QUESTION 41

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 deploy SAP HANA on Azure (Large Instances).

You need to back up the SAP HANA database to Azure.

Solution: You use a third-party tool that uses backint to back up the SAP HANA database to Azure blob storage.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

Explanation

Explanation/Reference:

The backint API is an interface provided by SAP HANA to integrate third-party backup tools. When third-party backup tools support the backint interface, they can be used to backup SAP HANA databases. If the third-party tool supports backing up to Azure blob storage using the backint interface, then this approach would indeed meet the goal of backing up the SAP HANA database to Azure.

QUESTION 42

You are deploying an SAP production landscape to Azure.

Your company's chief information security officer (CISO) requires that the SAP deployment complies with ISO 27001.

You need to generate a compliance report for ISO 27001. Your solution must minimize administrative effort.

What should you use?

- A. Azure Log Analytics
- B. Azure Monitor
- C. Azure AD
- D. Microsoft Defender for Cloud

Correct Answer: D

Explanation

Explanation/Reference:

Reference:

<https://learn.microsoft.com/en-us/azure/defender-for-cloud/update-regulatory-compliance-packages>

QUESTION 43

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 have an SAP production landscape on-premises and an SAP development landscape on Azure.

You deploy a network virtual appliance to act as a firewall between the Azure subnets and the on-premises network.

You need to ensure that all traffic is routed through the network virtual appliance.

Solution: You configure a user-defined route table.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

Explanation

Explanation/Reference:

User-defined routes (UDRs) in Azure allow for customizing the routing within an Azure subnet. By defining a user-defined route, you can ensure that traffic is forwarded to a specific virtual appliance, such as a firewall or other network function. If you want to ensure that all traffic between Azure subnets and the on-premises network goes through a network virtual appliance, setting up a user-defined route table that directs traffic through that appliance is the appropriate solution.

QUESTION 44

You are deploying SAP on Azure. The database server will use SAP HANA. The application servers will run Windows Server.

You need to test network latency and throughput between the frontend SAP servers and the database servers.

Which three tools can you use to achieve the goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. HCMT
- B. SockPerf

- C. IOMeter
- D. NIPING
- E. latte.exe

Correct Answer: ABD

Explanation

Explanation/Reference:

To test network latency and throughput between the frontend SAP servers and the database servers, the following tools can be used:

A. HCMT (HANA Cloud Measurement Tool): It's specifically designed to check system performance for HANA on cloud environments.

B. SockPerf: SockPerf is a network performance measuring tool, which can be used to check the network latency and throughput.

D. NIPING: This is an SAP tool to measure network performance between SAP systems or components.

QUESTION 45

HOTSPOT -

You have an SAP production landscape on Azure that contains the virtual machines shown in the following table.

Name	Location	Application
HANA1	East US	SAP HANA 2.0
HANA2	East US	SAP HANA 2.0
HANA3	South Central US	SAP HANA 2.0
App1	East US	SAP Web Dispatcher
App2	East US	SAP Web Dispatcher

You configure HANA system replication as shown in the following table.

Source	Destination	Mode
HANA1	HANA2	Sync
HANA2	HANA3	Sync

You configure two load balancers as shown in the following table.

Name	Location	Type	Pool
LB1	East US	Standard	HANA1, HANA2
LB2	East US	Basic	App1, App2

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
HANA2 and HANA3 are in a supported configuration.	<input type="radio"/>	<input type="radio"/>
App1 and App2 are in a supported configuration.	<input type="radio"/>	<input type="radio"/>
Azure Site Recovery is in a supported configuration for App1 and App2 to fail over to the South Central US Azure region.	<input type="radio"/>	<input type="radio"/>

Answer:

Answer Area

Statements	Yes	No
HANA2 and HANA3 are in a supported configuration.	<input type="radio"/>	<input checked="" type="radio"/>
App1 and App2 are in a supported configuration.	<input checked="" type="radio"/>	<input type="radio"/>
Azure Site Recovery is in a supported configuration for App1 and App2 to fail over to the South Central US Azure region.	<input checked="" type="radio"/>	<input type="radio"/>

Explanation/Reference:

Reference:

<https://help.sap.com/viewer/6b94445c94ae495c83a19646e7c3fd56/2.0.02/en-US/f730f308fede4040bcb5ccea6751e74d.html>

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

QUESTION 46

You plan to deploy an SAP environment on Azure. The SAP environment will have landscapes for production, development and quality assurance.

You need to minimize the costs associated with running the development and quality assurance landscapes on Azure.

What should you do?

- A. Configure scaling for Azure App Service
- B. Create a scheduled task that runs the stopsap command
- C. Configure Azure virtual machine scale sets
- D. Create Azure Automation runbooks to stop, deallocate, and start Azure virtual machines

Correct Answer: D

Explanation

Explanation/Reference:

The primary objective here is to minimize costs associated with the non-production landscapes (development and quality assurance) on Azure.

Option D: "Create Azure Automation runbooks to stop, deallocate, and start Azure virtual machines" is the best approach. By creating runbooks to stop and deallocate VMs during off-hours (e.g., nights and weekends) when they're not in use, you can save on compute costs. Remember, with Azure, you pay for VMs when they are running (allocated). Starting them up again during working hours ensures resources are available when needed.

QUESTION 47

HOTSPOT

-

You have an SAP production landscape on Azure that contains the resources shown in the following table.

Name	Type
PN0	SAP security identifier (SID)
00	Instance ID
VM1	Virtual machine
RG1	Resource group

You need to stop the SAP services so that you can perform monthly maintenance.

Which command should you run from the Azure Cloud Shell? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

```
name=PN0 nr=00" | out-file .\command.ps1
```

- "Stopsap
- "Sapsiscli
- "runSAP3Class.cmd
- "sapshcut.exe

```
-ResourceGroupName "RG1" -VMName "VM2" -ScriptPath .\command.ps1 -CommandId "RunPowerShellScript"
```

- Invoke-AzVMRunCommand
- Invoke-AzResourceAction
- Get-Command
- Set-AzVMCustomScriptExtension

Answer:

Answer Area

```
name=PN0 nr=00" | out-file .\command.ps1
```

- "Stopsap"**
- "Sapsiscli
- "runSAP3Class.cmd
- "sapshcut.exe

```
-ResourceGroupName "RG1" -VMName "VM2" -ScriptPath .\command.ps1 -CommandId "RunPowerShellScript"
```

- Invoke-AzVMRunCommand**
- Invoke-AzResourceAction
- Get-Command
- Set-AzVMCustomScriptExtension

QUESTION 48

You have an instance of Azure SAP HANA (Large Instances) named HLI1 that has storage volume snapshots enabled.

You need to monitor the storage usage of HLI1. The solution must monitor the following:

- The number of stored snapshots
- The storage used by the snapshots

Which Linux OS command should you use?

A. hdbuserstore

- B. ls
- C. du
- D. sapcontrol

Correct Answer: C

Explanation

Explanation/Reference:

To monitor storage usage, specifically in the context of directories and files (like snapshots), the Linux commands that are commonly used are "ls" for listing the files and "du" for checking disk usage.

In this context, to count the number of stored snapshots and to monitor their storage usage, you'd typically use the "ls" command to list them and the "du" command to check their space consumption.

Between the two:

"hdbuserstore" is related to managing secure user credentials for HANA.

"sapcontrol" is used to control SAP instances.

Given the choices and the requirements, the most appropriate command would be:

C. du

This command would allow you to assess the disk usage of the snapshots. Using "ls" in conjunction with "du" would give a clearer picture of both the number of snapshots and their respective sizes.

QUESTION 49

Your on-premises network contains a Microsoft SQL server named DCSQL1.

You have an Azure subscription that contains an SAP production landscape and a SQL server named AZSQL1. The SAP landscape uses DCSQL1 and AZSQL1. The on-premises network is connected to Azure by using ExpressRoute.

You need to monitor network latency between AZSQL1 and DCSQL1 by using Connection Monitor.

What should you install on AZSQL1?

- A. the Azure VM extension for SAP solutions
- B. the Network Watcher extension
- C. the Azure Diagnostics extension
- D. the Log Analytics agent

Correct Answer: B

Explanation

Explanation/Reference:

To monitor network latency between AZSQL1 and DCSQL1 using Connection Monitor, you should install the Network Watcher extension on AZSQL1.

Network Watcher is a tool that provides monitoring and diagnostics for Azure networks.

The Connection Monitor feature within Network Watcher allows you to track and measure network latency and connectivity between resources.

QUESTION 50

You have an SAP production landscape in Azure that is hosted on virtual machines that run Windows Server and Red Hat Enterprise Linux.

You need to monitor the virtual machines. The solution must ensure that you can collect logs from the virtual machines by using data collection rules (DCRs).

What should you install on each virtual machine?

- A. the Log Analytics agent
- B. the Guest Configuration extension
- C. the Azure Monitor agent
- D. the Azure Diagnostics extension

Correct Answer: A

Explanation

Explanation/Reference:

To collect logs from virtual machines using data collection rules (DCRs) for monitoring, you should install the Log Analytics agent on each virtual machine.

The Log Analytics agent collects data and sends it to Azure Monitor, where you can analyze and visualize the data using Azure Monitor Logs.

QUESTION 51

You have an Azure subscription that contains multiple virtual machines. The virtual machines host an SAP non-production landscape on Azure.

You need to configure the virtual machines to stop and start at specific times. The solution must minimize administrative effort.

What should you use?

- A. an Azure Monitor workbook
- B. an Azure Resource Manager (ARM) template
- C. a virtual machine scale set
- D. an Azure Automation account

Correct Answer: D

Explanation

Explanation/Reference:

Azure Automation allows you to automate the management of your Azure resources by creating and scheduling runbooks, which are PowerShell or Python scripts that can perform various tasks, including starting and stopping virtual machines.

You can create runbooks to stop and start the virtual machines based on a schedule defined by you, such as specific times of the day or week. This automation helps minimize manual effort and ensures that the non-production landscape is only running when needed, optimizing costs.

QUESTION 52

Overview -

Litware, Inc. is an international manufacturing company that has 3,000 employees. Litware has two main offices. The offices are located in Miami, FL, and Madrid, Spain.

Existing Environment -

Infrastructure -

Litware currently uses a third-party provider to host a datacenter in Miami and a disaster recovery datacenter in Chicago, IL.

The network contains an Active Directory domain named litware.com. Litware has two third-party applications hosted in Azure.

Litware already implemented a site-to-site VPN connection between the on-premises network and Azure.

SAP Environment -

Litware currently runs the following SAP products:

Enhancement Pack6 for SAP ERP Central Component 6.0 (SAP ECC 6.0)

SAP Extended Warehouse Management (SAP EWM)
SAP Supply Chain Management (SAP SCM)
SAP NetWeaver Process Integration (PI)
SAP Business Warehouse (SAP BW)
SAP Solution Manager

All servers run on the Windows Server platform. All databases use Microsoft SQL Server.

Currently, you have 20 production servers.

You have 30 non-production servers including five testing servers, five development servers, five quality assurance (QA) servers, and 15 pre-production servers. Currently, all SAP applications are in the litware.com domain.

Problem Statements -

The current version of SAP ECC has a transaction that, when run in batches overnight, takes eight hours to complete. You confirm that upgrading to SAP Business Suite on HANA will improve performance because of code changes and the SAP HANA database platform.

Litware is dissatisfied with the performance of its current hosted infrastructure vendor. Litware experienced several hardware failures and the vendor struggled to adequately support its 24/7 business operations.

Requirements -

Business Goals -

Litware identifies the following business goals:

Increase the performance of SAP ECC applications by moving to SAP HANA. All other SAP databases will remain on SQL Server.

Move away from the current infrastructure vendor to increase the stability and availability of the SAP services.

Use the new Environment, Health and Safety (EH&S) in Recipe Management function. Ensure that any migration activities can be completed within a 16-hour period during a weekend.

Planned Changes -

Litware identifies the following planned changes:

Migrate SAP to Azure.

Upgrade and migrate SAP ECC to SAP Business Suite on HANA Enhancement Pack 8.

Technical Requirements -

Litware identifies the following technical requirements:

Implement automated backups.

Support load testing of both SAP GUI and Fiori applications. Identify opportunities to reduce costs during the migration. Continue to use the litware.com domain for all SAP landscapes. Ensure that all SAP applications and databases are highly available. Establish an automated monitoring solution to avoid unplanned outages.

Remove all SAP components from the on-premises network once the migration is complete. Minimize the purchase of additional SAP licenses. SAP HANA licenses were already purchased. Ensure that SAP can provide technical support for all the SAP landscapes deployed to

Question

You are evaluating the migration plan.

Licensing for which SAP product can be affected by changing the size of the virtual machines?

- A. SAP ECC
- B. SAP Solution Manager
- C. PI
- D. SAP SCM

Correct Answer: A

Explanation

Explanation/Reference:

Scenario: Increase the performance of SAP ECC applications by moving to SAP HANA.

References:

<https://azure.microsoft.com/en-us/pricing/details/virtual-machines/rhel-sap-hana/>

QUESTION 53

Overview -

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Question

You need to ensure that you can receive technical support to meet the technical requirements. What should you deploy to Azure?

- A. SAP Landscape Management (LaMa)
- B. SAP Gateway
- C. SAP Web Dispatcher
- D. SAPRouter

Correct Answer: A

Explanation

Explanation/Reference:

Scenario: Ensure that SAP can provide technical support for all the SAP landscapes deployed to Azure.

References:

<https://blogs.sap.com/2019/07/22/sap-landscape-management-on-microsoft-azure-part-1/>

QUESTION 54

Overview -

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Remove all SAP components from the on-premises network once the migration is complete. Minimize the purchase of additional SAP licenses. SAP HANA licenses were already purchased. Ensure that SAP can provide technical support for all the SAP landscapes deployed to

Question

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:

Answer Area

Statements	Yes	No
After the migration, all user authentication to the SAP applications must be handled by Azure Active Directory (Azure AD).	<input type="radio"/>	<input type="radio"/>
The migration requires that the on-premises Active Directory domain syncs to Azure Active Directory (Azure AD).	<input type="radio"/>	<input type="radio"/>
After the migration users will be able to authenticate to the SAP applications by using their existing credentials in litware.com.	<input type="radio"/>	<input type="radio"/>

Answer:

Answer Area

Statements	Yes	No
After the migration, all user authentication to the SAP applications must be handled by Azure Active Directory (Azure AD).	<input checked="" type="radio"/>	<input type="radio"/>
The migration requires that the on-premises Active Directory domain syncs to Azure Active Directory (Azure AD).	<input checked="" type="radio"/>	<input type="radio"/>
After the migration users will be able to authenticate to the SAP applications by using their existing credentials in litware.com.	<input checked="" type="radio"/>	<input type="radio"/>

Explanation/Reference:

In a Hybrid-IT scenario, Active Directory from on-premises can be extended to serve as the authentication mechanism through an Azure deployed domain controller (as well as potentially using the integrated DNS). It is important to distinguish between traditional Active Directory Servers and Microsoft Azure Active Directory that provides only a subset of the traditional on-premises AD offering. This subset include Identity and Access Management, but does not have the full AD schema or services that many 3rd party application take advantage of. While Azure Active Directory IS a requirement to establish authentication for the Azure virtual machines in use, and it can synchronize users with customers' on-premises AD, the two are explicitly different and customers will likely continue to require full Active Directory servers deployed in Microsoft Azure.

References:

https://www.suse.com/media/guide/sap_hana_on_azure_101.pdf

QUESTION 55

Overview -

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SAP NetWeaver Process Integration (PI)

SAP Business Warehouse (SAP BW)

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Business Goals -

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Remove all SAP components from the on-premises network once the migration is complete. Minimize the purchase of additional SAP licenses. SAP HANA licenses were already purchased. Ensure that SAP can provide technical support for all the SAP landscapes deployed to

Question

You need to recommend a solution to reduce the cost of the SAP non-production landscapes after the migration.

What should you include in the recommendation?

- A. Configure scaling of Azure App Service
- B. Migrate the SQL Server databases to Azure SQL Data Warehouse
- C. Deallocate virtual machines when not in use
- D. Deploy non-production landscapes to Azure DevTest Labs

Correct Answer: D

Explanation

Explanation/Reference:

Relevant use cases Dev/test environments for SAP workloads on Azure. Noncritical SAP nonproduction workloads (such as sandbox, development, test, and quality assurance).

Noncritical SAP business workloads.

References:

<https://docs.microsoft.com/en-us/azure/architecture/example-scenario/apps/sap-dev-test>

QUESTION 56

Overview -

Contoso, Ltd. is a manufacturing company that has 15,000 employees.

The company uses SAP for sales and manufacturing.

Contoso has sales offices in New York and London and manufacturing facilities in Boston and Seattle.

Existing Environment -

Active Directory -

The network contains an on-premises Active Directory domain named ad.contoso.com. User email addresses use a domain name of contoso.com.

SAP Environment -

The current SAP environment contains the following components:

SAP Solution Manager

SAP ERP Central Component (SAP ECC)

SAP Supply Chain Management (SAP SCM)

▪

SAP application servers that run Windows Server 2008 R2 SAP HANA database servers that run SUSE Linux Enterprise Server 12 (SLES 12)

Problem Statements -

Contoso identifies the following issues in its current environment:

The SAP HANA environment lacks adequate resources. The Windows servers are nearing the end of support.

The datacenters are at maximum capacity.

Requirements -

Planned Changes -

Contoso identifies the following planned changes:

Deploy Azure Virtual WAN.

Migrate the application servers to Windows Server 2016. Deploy ExpressRoute connections to all of the offices and manufacturing facilities. Deploy SAP landscapes to Azure for development, quality assurance, and production. All resources for the production landscape will be in a resource group named SAPProduction.

Business goals -

Contoso identifies the following business goals:

Minimize costs whenever possible.

Migrate SAP to Azure without causing downtime.

Ensure that all SAP deployments to Azure are supported by SAP. Ensure that all the production databases can withstand the failure of an Azure region. Ensure that all the production application servers can restore daily backups from the last 21 days.

Technical Requirements -

Contoso identifies the following technical requirements:

Inspect all web queries.

Deploy an SAP HANA cluster to two datacenters.

Minimize the bandwidth used for database synchronization. Use Active Directory accounts to administer Azure resources.

▪

Ensure that each production application server has four 1-TB data disks. Ensure that an application server can be restored from a backup created during the last five days within 15 minutes.

Implement an approval process to ensure that an SAP administrator is notified before another administrator attempts to make changes to the Azure virtual machines that host SAP. It is estimated that during the migration, the bandwidth required between Azure and the New York office will be 1 Gbps. After the migration, a traffic burst of up to 3 Gbps will occur.

Proposed Backup Policy -
An Azure administrator proposes the backup policy shown in the following exhibit.

* Policy name ⓘ
SapPolicy ✓

Backup schedule

* Frequency * Time * Timezone
Daily 3:30 AM (UTC) Coordinated Universal Time

Instant Restore ⓘ

Retain instant recovery snapshot(s) for
5 Day(s) ✓

Retention range

Retention of daily backup point.
* At For
3:30 AM 14 Day(s) ✓

Retention of weekly backup point.
* On * At For
Sunday 3:30 AM 8 Week(s) ✓

Retention of monthly backup point.
Week Based Day Based
* On * Day * At For
First Sunday 3:30 AM 12 Month(s) ✓

Retention of yearly backup point.
Week Based Day Based
* In * On * Day * At For
January First Sunday 3:30 AM 7 Year(s) ✓

Azure Resource Manager Template -
An Azure administrator provides you with the Azure Resource Manager template that will be used to provision the production application servers.

```

{
  "apiVersion": "2017-03-30",
  "type": "Microsoft.Compute/virtualMachines",
  "name": "[parameters('vmname')]",

  "location": "EastUS",
  "dependsOn": [
    "[resourceId('Microsoft.Network/networkInterfaces/', parameters('vmname'))]"
  ],
  "properties": {
    "hardwareProfile": {
      "vmSize": "[parameters('vmSize')]"
    },
    "osProfile": {
      "computerName": "[parameters('vmname')]",
      "adminUsername": "[parameters('adminUsername')]",
      "adminPassword": "[parameters('adminPassword')]"
    },
    "storageProfile": {
      "imageReference": {
        "publisher": "MicrosoftWindowsServer",
        "offer": "WindowsServer",
        "sku": "2016-datacenter",
        "version": "latest"
      },
      "osDisk": {
        "name": "[concat(parameters('vmname'), '-OS')]",
        "caching": "ReadWrite",
        "createOption": "FromImage",
        "diskSizeGB": 128,
        "managedDisk": {
          "storageAccountType": "[parameters('storageAccountType')]"
        }
      },
      "copy": [
        (
          "name": "DataDisks",
          "count": "[parameters('diskCount')]",
          "input": {
            "Caching": "None",
            "diskSizeGB": 1024,
            "lun": "[copyIndex('datadisks')]",

```


Explanation/Reference:

The SAP Cloud Platform Identity Authentication and Active Directory Federation Services enable you to implement SSO across applications or services that are protected by Azure AD (as an IdP) with SAP applications and services that are protected by SAP Cloud Platform Identity Authentication.

Scenario: Use Active Directory accounts to administer Azure resources.

Incorrect Answers:


Not D: With Windows 10, Azure Active Directory (Azure AD) users gain the ability to securely synchronize their user settings and application settings data to the cloud. Enterprise State Roaming provides users with a unified experience across their Windows devices and reduces the time needed for configuring a new device.

Enterprise State Roaming operates similar to the standard consumer settings sync that was first introduced in Windows 8.

References:

<https://docs.microsoft.com/en-us/azure/active-directory/saas-apps/sap-hana-cloud-platform-identity-authentication-tutorial>

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