

# Microsoft

## Exam Questions AZ-120

Planning and Administering Microsoft Azure for SAP Workloads



**NEW QUESTION 1**

- (Exam Topic 1)

You are evaluating which migration method Litware can implement based on the current environment and the business goals. Which migration method will cause the least amount of downtime?

- A. Use the Database migration Option (DMO) to migrate to SAP HANA and Azure During the samemaintenance window.
- B. Use Near-Zero Downtime (NZDT) to migrate to SAP HANA and Azure during the same maintenance window.
- C. Migrate SAP to Azure, and then migrate SAP ECC to SAP Business Suite on HANA.
- D. Migrate SAP ECC to SAP Business Suite on HANA an the migrate SAP to Azure.

**Answer:** A

**Explanation:**

The SAP Database Migration Option (DMO) with System Move option of SUM, used as part of the migration allows customer the options to perform the migration in a single step, from source system on-premises, or to the target system residing in Microsoft Azure, minimizing overall downtime.

References:

<https://blogs.sap.com/2017/10/05/your-sap-on-azure-part-2-dmo-with-system-move/>

**NEW QUESTION 2**

- (Exam Topic 2)

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.

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"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Yes

Count is 6.

Box 2: No Mode is serial. Box 3: Yes

References:

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

NEW QUESTION 3

- (Exam Topic 2)

You have an on-premises SAP environment. Application servers run on SUSE Linux Enterprise Server (SLES) servers. Databases run on SLES servers that have Oracle installed.

You need to recommend a solution to migrate the environment to Azure. The solution must use currently deployed technologies whenever possible and support high availability.

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

NOTE: Each correct selection is worth one point.

Application server operating system:

▼

Oracle Linux

SLES

Windows Server 2016

Database server operating system:

▼

Oracle Linux

SLES

Windows Server 2016

Database platform:

▼

Azure SQL Database

Microsoft SQL Server

Oracle

SAP HANA

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Application server operating system:

▼

Oracle Linux

SLES

Windows Server 2016

Database server operating system:

▼

Oracle Linux

SLES

Windows Server 2016

Database platform:

▼

Azure SQL Database

Microsoft SQL Server

Oracle

SAP HANA

NEW QUESTION 4

A. an on-premises data gateway to vSphere  
B. Microsoft System Center Virtual Machine Manager (VMM)  
C. an Azure Backup server  
D. a configuration server to vSphere

<https://docs.microsoft.com/en-us/azure/site-recovery/vmware-azure-manage-vcenter>

A. R3load  
B. Azure SQL Data Warehouse  
C. SQL Server Management Studio (SSMS)  
D. R3trans

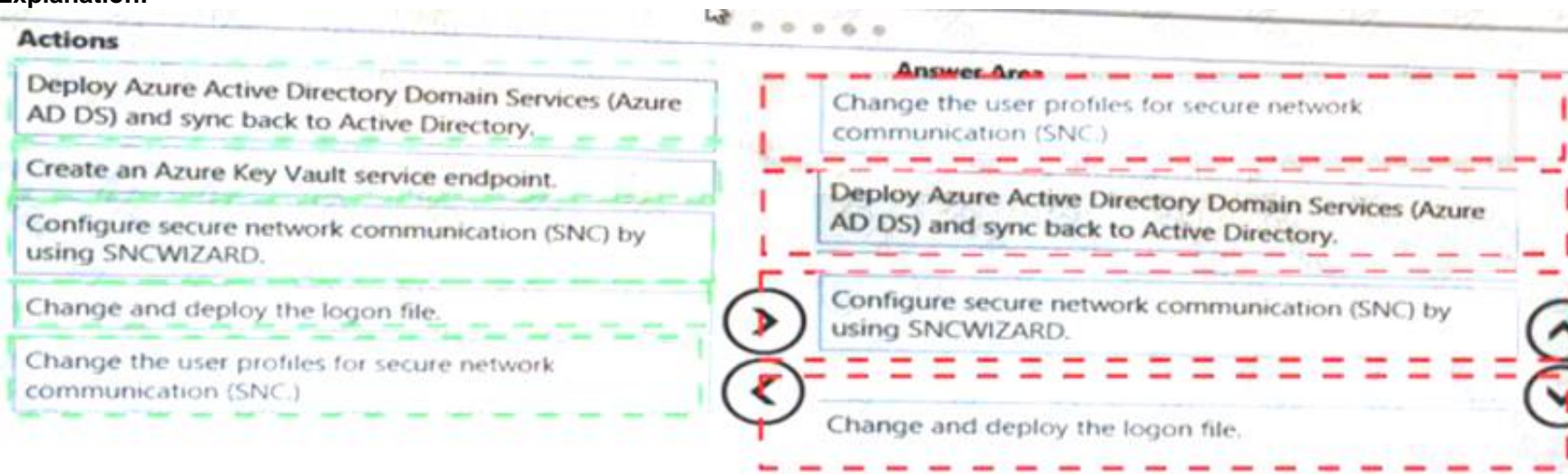
A. Azure Storage Explorer  
B. Azure Import/Export service  
C. AzCopy  
D. Azure Site Recovery



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**



### NEW QUESTION 8

- (Exam Topic 2)

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 subnet and the on-premises network. Solution: You configure a user-defined route table. Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

### NEW QUESTION 9

- (Exam Topic 2)

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 a complex SAP environment that has both ABAP- and Java-based systems. The current on-premises landscapes are based on SAP NetWeaver 7.0 (Unicode and Non-Unicode) running on Windows Server and Microsoft SQL Server. You need to migrate the SAP environment to a HANA-certified Azure environment. Solution: You migrate SAP to Azure by using Azure Site Recovery, and then you upgrade to SAP NetWeaver 7.4. Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

We need upgrade to SAP NetWeaver 7.4 before the migration. Reference: <https://docs.microsoft.com/en-us/azure/site-recovery/vmware-azure-architecture>

### NEW QUESTION 10

- (Exam Topic 2)

You plan to deploy SAP application servers that run Windows Server 2016. You need to use PowerShell Desired State Configuration (DSC) to configure the SAP application server once the servers are deployed. Which Azure virtual machine extension should you install on the servers?

- A. the Azure DSC VM Extension
- B. the Azure virtual machine extension
- C. the Azure Chef extension
- D. the Azure Enhanced Monitoring Extension for SAP

**Answer:** A

**Explanation:**

The Azure Desired State Configuration (DSC) VM Extension is updated as-needed to support enhancements and new capabilities delivered by Azure, Windows Server, and the Windows Management Framework (WMF) that includes Windows PowerShell.

References: <https://docs.microsoft.com/en-us/powershell/scripting/dsc/getting-started/azuredscenthistory>

### NEW QUESTION 10

- (Exam Topic 2)

This question requires that you evaluate the underlined text to determine if it is correct. When deploying SAP HANA to an Azure virtual machine, you can enable Write Accelerator to reduce the latency between the SAP application servers and the database layer.

Instructions: Review the underlined text. If it makes the statement correct, select “No change is needed”. If the statement is incorrect, select the answer choice that makes the statement correct.

- A. No change is needed
- B. install the Mellanox driver
- C. start the NIPING service
- D. enable Accelerated Networking

Answer: D

Explanation:

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

NEW QUESTION 15

- (Exam Topic 2)

A customer has an on-premises SAP environment. The customer plans to migrate SAP to Azure.

You need to prepare the environment for the planned migration.

Which three actions should you perform in sequence before the migration? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

Run a compatibility assessment and resolve any issues.

Create a conditional access policy.

Deploy the core networking components to Azure.

Build Azure virtual machines.

Back up the infrastructure.

Create an ExpressRoute connection.

>

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Answer Area

&u2191

&u2193

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Actions

Run a compatibility assessment and resolve any issues.

Create a conditional access policy.

Deploy the core networking components to Azure.

Build Azure virtual machines.

Back up the infrastructure.

Create an ExpressRoute connection.

>

<

Answer Area

Run a compatibility assessment and resolve any issues.

Deploy the core networking components to Azure.

Create an ExpressRoute connection.

&u2191

&u2193

NEW QUESTION 16

- (Exam Topic 2)

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.

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



- A. Mastered  
B. Not Mastered

**Answer:** A

**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-i> <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>

**NEW QUESTION 21**

- (Exam Topic 2)

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

**Answer:** A

**Explanation:**

Backup architecture

➤ The backup process begins by creating a Recovery services vault in Azure. This vault will be used to store the backups and recovery points created over time.

➤ The Azure VM running SAP HANA server is registered with the vault, and the databases to be backed-up are discovered. To enable the Azure Backup service to discover databases, a preregistration script must be run on the HANA server as a root user.

➤ This script creates AZUREWLBACKUPHANAUSER DB user and a corresponding key with the same name in hdbuserstore. Refer to the setting up permissions section to understand more about what the script does.

➤ Azure Backup Service now installs the Azure Backup Plugin for HANA on the registered SAP HANA server.

➤ The AZUREWLBACKUPHANAUSER DB user created by the preregistration script is used by the Azure Backup Plugin for HANA to perform all backup and restore operations. If you attempt to

configure backup for SAP HANA DBs without running this script, you might receive the following error: UserErrorHanaScriptNotRun.

➤ To configure backup on the databases that are discovered, choose the required backup policy and enable backups.

➤ Once the backup is configured, Azure Backup service sets up the Backint parameters at the DATABASE level on the protected SAP HANA server.

➤ The Azure Backup Plugin for HANA maintains all the backup schedules and policy details. It triggers the scheduled backups and communicates with the HANA Backup Engine through the Backint APIs.

➤ The HANA Backup Engine returns a Backint stream with the data to be backed up.

➤ All the scheduled backups and on-demand backups (triggered from the Azure portal) that are either full or differential are initiated by the Azure Backup Plugin for HANA. However, log backups are managed and triggered by HANA Backup Engineitself.

References:

<https://docs.microsoft.com/en-us/azure/backup/sap-hana-db-about>

<https://docs.microsoft.com/en-us/azure/backup/backup-azure-sap-hana-database#configure-backup>

**NEW QUESTION 24**

- (Exam Topic 2)

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

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"/>

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

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

References:

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

**NEW QUESTION 27**

- (Exam Topic 2)

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

**Answer:** B

**Explanation:**

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>

**NEW QUESTION 28**

- (Exam Topic 2)

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.

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	

- A. Mastered
- B. Not Mastered

**Answer:** A

**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.suse.com/c/asr_supports_suse/) <https://www.netapp.com/us/media/tr-4746.pdf>

**NEW QUESTION 29**

- (Exam Topic 2)

You plan to migrate an SAP ERP Central Component (SAP ECC) production system to Azure. You are reviewing the SAP EarlyWatch Alert report for the system.

You need to recommend sizes for the Azure virtual machines that will host the system.

Which two sections of the report should you review? Each correct answer presents a complete solution.



NOTE: Each correct selection is worth one point.

- A. Hardware Capacity
- B. Patch Levels under SAP Software Configuration
- C. Hardware Configuration under Landscape
- D. Database and ABAP Load Optimization
- E. Data Volume Management

**Answer:** AD

**Explanation:**

It is important to note that there are 2 types of data collected for Hardware Capacity. Performance Data - e.g. CPU and Memory utilization data. Hardware Capacity data shown in the EWA is measuring CPU and Memory utilization data. This is known as Performance Data. Configuration Data - e.g. OS information, CPU type. It is also collecting system information about the host such as hardware manufacturer, CPU type etc. This is known as Configuration Data.

**NEW QUESTION 34**

- (Exam Topic 2)

You have an on-premises SAP environment.

Backups are performed by using tape backups. There are 50 TB of backups.

A Windows file server has BMP images of checks used by SAP Finance. There are 9 TB of images.

You need to recommend a method to migrate the images and the tape backups to Azure. The solution must maintain continuous replication of the images.

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

NOTE: Each correct selection is worth one point.

**Tape backups:**

	▼
AzCopy	
Azure Data Box Edge	
Azure Databox	
Azure Storage Explorer	

**File server:**

	▼
AzCopy	
Azure Data Box Edge	
Azure Databox	
Azure Storage Explorer	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Tape backups: Azure DataBox

The Microsoft Azure Data Box cloud solution lets you send terabytes of data into Azure in a quick, inexpensive, and reliable way. The secure data transfer is accelerated by shipping you a proprietary Data Box storage device. Each storage device has a maximum usable storage capacity of 80 TB and is transported to your datacenter through a regional carrier. The device has a rugged casing to protect and secure data during the transit.

File server: Azure Storage Explorer

Azure Storage Explorer is an application which helps you to easily access the Azure storage account through any device on any platform, be it Windows, MacOS, or Linux. You can easily connect to your subscription and manipulate your tables, blobs, queues, and files.

**NEW QUESTION 37**

- (Exam Topic 2)

A customer enterprise SAP environment plans to migrate to Azure. The environment uses servers that runs Windows Server 2016 and Microsoft SQL Server.

The environment is critical and requires a comprehensive business continuity and disaster recovery (BCDRJ strategy that minimizes the recovery point objective (RPO) and the recovery time objective (RTO).

The customer wants a resilient environment that has a secondary site that is at least 250 Kilometers away. You need to recommend a solution for the customer.

Which two solutions should you recommend? Each correct answer presents part of the solution. NOTE; Each correct selection Is worth one point.

- A. an internal load balancer to route Internet traffic
- B. warm standby virtual machines in Azure Availability Zones.
- C. warm standby virtual machines in paired regions
- D. Warm standby virtual machine an Azure Availability Set that uses geo-redundant storage (GRS)
- E. Azure Traffic Manager to route incoming traffic.

**Answer:** CD

**Explanation:**

References:

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

**NEW QUESTION 38**

- (Exam Topic 2)

You have a large and complex SAP environment on Azure.

You are designing a training landscape that will be used 10 times a year.

You need to recommend a solution to create the training landscape. The solution must meet the following requirements:

- Minimize the effort to build the training landscape.
- Minimize costs.

In which order should you recommend the actions be performed for the first training session? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
Build the training landscape	
Create a custom image by using the snapshot	
Deliver the training	
Take a snapshot of the virtual machine disks	
Shut down and delete the virtual machines	

⬅️➡️

⬆️⬆️

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

References:

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

**NEW QUESTION 42**

- (Exam Topic 2)

You are planning high availability for an SAP environment on Azure. The SAP environment will use datacenters in to different zones.

Testing shows that the latency between the two zones supports synchronous DBMS replication.

You need to design a solution to ensure that SAP services are available if an Azure datacenter within a zone fails. The solution must meet the following requirements:

- \* Provide automatic failover
- \* Minimize costs

Which high availability configuration meet the requirements?

- A. Azure Availability Zones with an active/passive deployment
- B. Azure Site Recovery
- C. Azure Availability Sets with active/passive clustering
- D. Azure Availability Sets with active/active clustering

**Answer:** D

**NEW QUESTION 44**

- (Exam Topic 2)

You are deploying an SAP environment on Azure that will use an SAP HANA database server.

You provision an Azure virtual machine for SAP HANA by using the M64s virtual machine SKU.

You need to set the swap space by using the Microsoft Azure Linux Agent (waagent) configuration file. Which two settings should you configure? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. ResourceDisk.EnableSwapEncryption=n
- B. AutoUpdate.Enabled=n
- C. ResourceDisk.SwapSizeMB=229376
- D. ResourceDisk.EnableSwap=y

**Answer:** CD

**Explanation:**

To create a swap file in the directory that's defined by the ResourceDisk.MountPoint parameter, you can update the /etc/waagent.conf file by setting the following three parameters:

ResourceDisk.Format=y ResourceDisk.EnableSwap=y ResourceDisk.SwapSizeMB=xx References:

<https://support.microsoft.com/en-us/help/4010058/how-to-add-a-swap-file-in-linux-azure-virtual-machines>

**NEW QUESTION 46**

- (Exam Topic 2)

You plan to migrate an on-premises SAP development system to Azure.

Before the migration, you need to check the usage of the source system hardware, such as CPU, memory, network, etc.

Which transaction should you run from SAP GUI?

- A. SM51
- B. DB01
- C. DB12
- D. OS07N

**Answer:** D

**Explanation:**

SAP transaction OS07N (Remote Operating System Activity) is classified in the Basis Component module under application component Operating System Monitors and runs Monitoring Operating System program RSHOST1N upon execution.

**NEW QUESTION 51**

- (Exam Topic 2)

You migrate SAP ERP Central Component (SAP ECC) production and non-production landscapes to Azure. You are licensed for SAP Landscape Management (LaMa).

You need to refresh from the production landscape to the non-production landscape.

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.

Actions

From the Azure portal, create a service principal

From the Cloud Managers tab in LaMa, add an adapter

From SAP Solution Manager, deploy the LaMa adapter

Add permissions to the service principal

Install and configure LaMa on an SAP NetWeaver instance

Answer Area

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Step 1: From the Azure portal, create a service principal

The Azure connector can use a Service Principal to authorize against Microsoft Azure. Follow these steps to create a Service Principal for SAP Landscape Management (LaMa).

Step 2: Add permissions to the service principal

The Service Principal does not have permissions to access your Azure resources by default. You need to give the Service Principal permissions to access them.

Step 3: From the Cloud Managers tab in LaMa, add an adapter Create a new connector in SAP LaMa

Open the SAP LaMa website and navigate to Infrastructure. Go to tab Cloud Managers and click on Add. Select the Microsoft Azure Cloud Adapter

Step 4: Install and configure LaMA on an SAP NetWeater instance Provision a new adaptive SAP system

You can manually deploy a new virtual machine or use one of the Azure templates in the quickstart repository. It contains templates for SAP NetWeaver ASCS, SAP NetWeaver application servers, and the database. You can also use these templates to provision new hosts as part of a system copy/clone etc.

Note: To support customers on their journey into a cloud model (hybrid or entirely public cloud), SAP and Microsoft partnered to create an adapter that integrates the SAP management capabilities of LaMa with the IaaS advantages of Microsoft Azure.

References:

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

**NEW QUESTION 54**

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