



AZ-120^{Q&As}

Planning and Administering Microsoft Azure for SAP Workloads

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**QUESTION 1****HOTSPOT**

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.

Hot Area:

Answer Area

Application server operating system:	<div><div></div><div>Oracle Linux</div><div>SLES</div><div>Windows Server 2016</div></div>
Database server operating system:	<div><div></div><div>Oracle Linux</div><div>SLES</div><div>Windows Server 2016</div></div>
Database platform:	<div><div></div><div>Azure SQL Database</div><div>Microsoft SQL Server</div><div>Oracle</div><div>SAP HANA</div></div>

Correct Answer:



Answer Area

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	

QUESTION 2

Which Azure service should you deploy for the approval process to meet the technical requirements?

- A. Just in time (JIT) VM access
- B. Azure Active Directory (Azure AD) Identity Protection
- C. Azure Active Directory (Azure AD) Privileged identity Manager (PIM)
- D. Azure Active Directory (Azure AD) conditional access

Correct Answer: B

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

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

You have an on-premises SAP landscape that contains a 20-TB IBM DB2 database. The database contains large tables that are optimized for read operations via secondary indexes.

You plan to migrate the database platform to SQL Server on Azure virtual machines.

You need to recommend a database migration approach that minimizes the time of the export stage.

What should you recommend?

- A. log shipping
- B. deleting secondary indexes
- C. SAP Database Migration Option (DMO) in parallel transfer mode
- D. table splitting

Correct Answer: B

Secondary indexes for very large tables can be removed from the STR file and built ONLINE with scripts after the main portion of the import has finished and post processing tasks such as configuring STMS are occurring.

References: <https://techcommunity.microsoft.com/t5/running-sap-applications-on-the/very-large-database-migration-to->

azure-8211-recommendations/ba-p/368146

QUESTION 5**HOTSPOT**

Your on-premises network contains SAP and non-SAP applications.

You have JAVA-based SAP systems that use SPNEGO for single-sign on (SSO) authentication.

Your external portal uses multi-factor authentication (MFA) to authenticate users.

You plan to extend the on-premises authentication features to Azure and to migrate the SAP applications to Azure.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
Azure Active Directory (Azure AD) pass-through authentication can be used to enable MFA for on-premises users.	<input type="radio"/>	<input type="radio"/>
Azure Active Directory (Azure AD) password hash synchronization ensures that users can use on their on-premise credentials to authenticate to ABAP-based SAP systems on Azure.	<input type="radio"/>	<input type="radio"/>
Active Directory Federation Services (AD FS) can be used to enable MFA for on-premises users.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

**Answer Area**

Statements	Yes	No
Azure Active Directory (Azure AD) pass-through authentication can be used to enable MFA for on-premises users.	<input checked="" type="radio"/>	<input type="radio"/>
Azure Active Directory (Azure AD) password hash synchronization ensures that users can use on their on-premise credentials to authenticate to ABAP-based SAP systems on Azure.	<input checked="" type="radio"/>	<input type="radio"/>
Active Directory Federation Services (AD FS) can be used to enable MFA for on-premises users.	<input checked="" type="radio"/>	<input type="radio"/>

Box 1: Yes

Box 2: Yes Password hash synchronization is one of the sign-in methods used to accomplish hybrid identity. Azure AD Connect synchronizes a hash, of the hash, of a users password from an on-premises Active Directory instance to a cloud-based Azure AD instance.

Password hash synchronization is an extension to the directory synchronization feature implemented by Azure AD Connect sync. You can use this feature to sign in to Azure AD services like Office 365. You sign in to the service by using the same password you use to sign in to your on-premises Active Directory instance.

Box 3: Yes If your organization is federated with Azure AD, you can use Azure Multi-Factor Authentication to secure AD FS resources, both on-premises and in the cloud. Azure MFA enables you to eliminate passwords and provide a more secure way to authenticate.

References: <https://docs.microsoft.com/en-us/azure/active-directory/hybrid/whatis-phs> <https://docs.microsoft.com/en-us/windows-server/identity/ad-fs/operations/configure-ad-fs-and-azure-mfa> <https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-pta>

QUESTION 6**HOTSPOT**

You deploy SAP HANA by using SAP HANA on Azure (Large Instances).

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
You can use SAP HANA Studio to monitor CPU, memory, network, and storage usage for SAP HANA on Azure (Large Instances).	<input type="radio"/>	<input type="radio"/>
Azure Enhanced Monitoring is required to monitor the performance of SAP HANA on Azure (Large Instances).	<input type="radio"/>	<input type="radio"/>
You can use the SAP HANA HW Configuration Check Tool (HWCCT) to monitor SAP HANA running on SAP HANA on Azure (Large Instances).	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

Statements	Yes	No
You can use SAP HANA Studio to monitor CPU, memory, network, and storage usage for SAP HANA on Azure (Large Instances).	<input checked="" type="radio"/>	<input type="radio"/>
Azure Enhanced Monitoring is required to monitor the performance of SAP HANA on Azure (Large Instances).	<input checked="" type="radio"/>	<input type="radio"/>
You can use the SAP HANA HW Configuration Check Tool (HWCCT) to monitor SAP HANA running on SAP HANA on Azure (Large Instances).	<input type="radio"/>	<input checked="" type="radio"/>

Box 1: Yes

Box 2: Yes

The SAP Azure Enhanced Monitoring Extension allows for collecting diagnostic data including OS and Application performance counters from Azure VMs running SAP workloads.

Box 3: No

References:

<http://www.deployazure.com/compute/virtual-machines/sap-azure-enhanced-monitoring-extension/>

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

QUESTION 7



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"/>

Correct 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 type="radio"/>	<input checked="" 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"/>

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: NO

Box 3: No



References:

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

QUESTION 8**HOTSPOT**

You have an SAP environment on Azure that contains a single-tenant SAP HANA server at instance 03.

You need to monitor the network throughput from an SAP application server to the SAP HANA server.

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

NOTE: Each correct selection is worth one point.

Answer Area

```
$HANA = Get-AzNetworkInterface -Name HANAP01-NIC -ResourceGroupName Production
$APP = Get-AzNetworkUsage -ResourceGroupName Production
Get-AzNetworkWatcher
Get-AzVM

New-AzNetworkWatcherConnectionMonitor -NetworkWatcher (Get-AzNetworkWatcher)
-Name HANA -DestinationAddress (($HANA).IpConfigurations.PrivateIpAddress)
-DestinationPort 1433 -SourceResourceId $APP.Id
```

The image shows a screenshot of the 'Answer Area' for a hotspot question. It displays a PowerShell script for monitoring network throughput. Two dropdown menus are present: one for selecting a command to complete the script, and another for selecting a destination port. The first dropdown menu is currently showing 'Get-AzNetworkInterface', 'Get-AzNetworkUsage', 'Get-AzNetworkWatcher', and 'Get-AzVM'. The second dropdown menu is currently showing '1433', '1434', '30115', and '30315'.

Hot Area:



\$APP = Get -

Get-AzNetworkInterface
Get-AzNetworkUsage
Get-AzNetworkWatcher
Get-AzVM

-DestinationPort

1433
1434
30115
30315

Correct Answer:

**\$APP = Get -**

Get-AzNetworkInterface
Get-AzNetworkUsage
Get-AzNetworkWatcher
Get-AzVM

-DestinationPort

1433
1434
30115
30315

QUESTION 9**DRAG DROP**

You plan to deploy multiple SAP HANA virtual machines to Azure by using an Azure Resource Manager template.

How should you configure Accelerated Networking and Write Accelerator in the template? To answer, drag the appropriate values to the correct targets. Each value 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.

Select and Place:



Values

Answer Area

```
{
  "apiVersion": "2017-06-01",
  "type": "Microsoft.Network/networkInterfaces",
  "name": "[concat(parameters('vmName'), '-static')]",
  "location": "[resourceGroup().location]",
  "properties": {
    "enableAcceleratedNetworking": 
    "ipConfigurations": [
      {
        "name": "ipconfig1",
        "properties": {
          "privateIPAllocationMethod": "Static",
          "privateIPAddress": "[parameters('StaticIP')]",
          "subnet": {
            "id": "[variables('subnetRef')]"
          }
        }
      }
    ]
  }
},
{
  "apiVersion": "2014-12-01",
  "type": "Microsoft.Compute/virtualMachines",
  "name": "[parameters('vmName')]",
  "location": "[resourceGroup().location]",
  "dependsOn": [
  ],
  "properties": {
    "availabilitySet": {
      "id": "[resourceId('Microsoft.Compute/availabilitySets',parameters('AvailSetName'))]"
    },
    "hardwareProfile": {
      "vmSize": "Standard_M64ms"
    },
    "osProfile": {
      "computerName": "[parameters('vmName')]",
      "adminUsername": "[parameters('vmUserName')]",
      "adminPassword": "[parameters('vmPassword')]"
    },
    "storageProfile": {
      "imageReference": {
        "publisher": "RedHat",
        "offer": "RHEL-SAP-HANA",
        "sku": "7.2",
        "version": "latest"
      },
      "osDisk": {
        "createOption": "FromImage"
      },
      "dataDisks": [
        {
          "lun": 7,
          "name": "[concat(parameters('vmName'), '-log')]",
          "createOption": "Empty",
          "writeAcceleratorEnabled": 
          "diskSizeGB": 2048,
          "managedDisk": {
            "storageAccountType": "Premium_LRS"
          }
        }
      ]
    },
    "networkProfile": {
      "networkInterfaces": [
        {
          "id": "[resourceId('Microsoft.Network/networkInterfaces',concat(parameters('vmName'), '-static'))]"
        }
      ]
    }
  }
}
```

Correct Answer:



Values

Answer Area

```
{
  "apiVersion": "2017-06-01",
  "type": "Microsoft.Network/networkInterfaces",
  "name": "[concat(parameters('vmName'), '-static')]",
  "location": "[resourceGroup().location]",
  "properties": {
    "enableAcceleratedNetworking": "true",
    "ipConfigurations": [
      {
        "name": "ipconfig1",
        "properties": {
          "privateIPAllocationMethod": "Static",
          "privateIPAddress": "[parameters('StaticIP')]",
          "subnet": {
            "id": "[variables('subnetRef')]"
          }
        }
      }
    ]
  }
},
{
  "apiVersion": "2014-12-01",
  "type": "Microsoft.Compute/virtualMachines",
  "name": "[parameters('vmName')]",
  "location": "[resourceGroup().location]",
  "dependsOn": [
  ],
  "properties": {
    "availabilitySet": {
      "id": "[resourceId('Microsoft.Compute/availabilitySets', parameters('AvailSetName'))]"
    },
    "hardwareProfile": {
      "vmSize": "Standard_M64ms"
    },
    "osProfile": {
      "computerName": "[parameters('vmName')]",
      "adminUsername": "[parameters('vmUserName')]",
      "adminPassword": "[parameters('vmPassword')]"
    },
    "storageProfile": {
      "imageReference": {
        "publisher": "RedHat",
        "offer": "RHEL-SAP-HANA",
        "sku": "7.2",
        "version": "latest"
      },
      "osDisk": {
        "createOption": "FromImage"
      },
      "dataDisks": [
        {
          "lun": 7,
          "name": "[concat(parameters('vmName'), '-log')]",
          "createOption": "Empty",
          "writeAcceleratorEnabled": "true",
          "diskSizeGB": 2048,
          "managedDisk": {
            "storageAccountType": "Premium_LRS"
          }
        }
      ]
    },
    "networkProfile": {
      "networkInterfaces": [
        {
          "id": "[resourceId('Microsoft.Network/networkInterfaces', concat(parameters('vmName'), '-static'))]"
        }
      ]
    }
  }
}
```

Box 1: true

enableAcceleratedNetworking: If the network interface is accelerated networking enabled.

To further reduce network latency between Azure VMs, we [Micorosoft] 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.

Box 2: true

Write Accelerator should be used for the volumes that contain the transaction log or redo logs of a DBMS. It is not



recommended to use Write Accelerator for the data volumes of a DBMS as the feature has been optimized to be used against

log disks.

References:

https://docs.microsoft.com/en-us/azure/virtual-machines/workloads/sap/dbms_guide_general

QUESTION 10

This question requires that you evaluate the underlined text to determine if it is correct.

You are planning for the administration of resources in Azure.

To meet the technical requirements, you must first implement Active Directory Federation Services (AD FS).

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. Azure AD Connect
- C. Azure AD join
- D. Enterprise State Roaming

Correct Answer: B

AD connect, it's not mandatory to have AD FS, you can use Password Hash Synchronisation or Passthrough Authentication, but AD Connect is mandatory to synchronise your on-premises accounts to Azure AD. References: <https://docs.microsoft.com/en-us/azure/active-directory/saas-apps/sap-hana-cloudplatform-identity-authentication-tutorial>

QUESTION 11

HOTSPOT

You plan to deploy two Azure virtual machines that will host an SAP HANA database for an SAP landscape. The virtual machines will be deployed to the same availability set. You need to meet the following requirements:

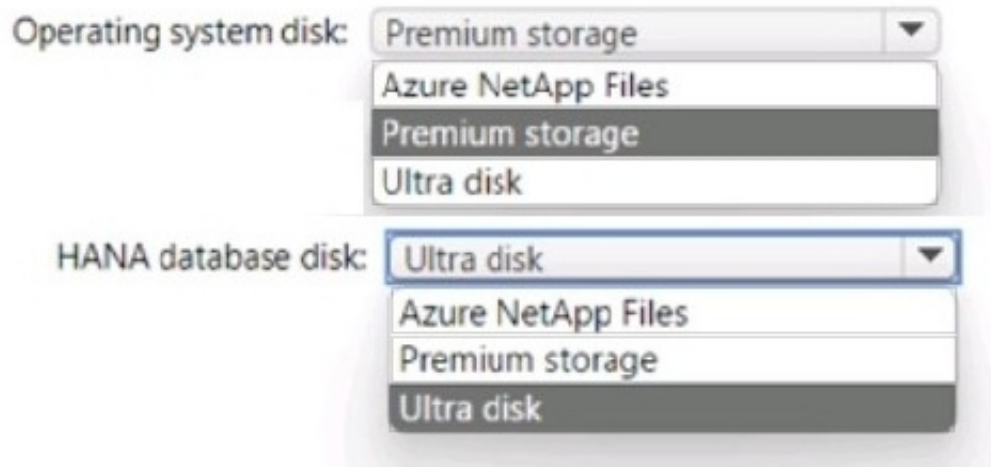
Ensure that the virtual machines support disk snapshots.

Ensure that the virtual machine disks provide submillisecond latency for writes.

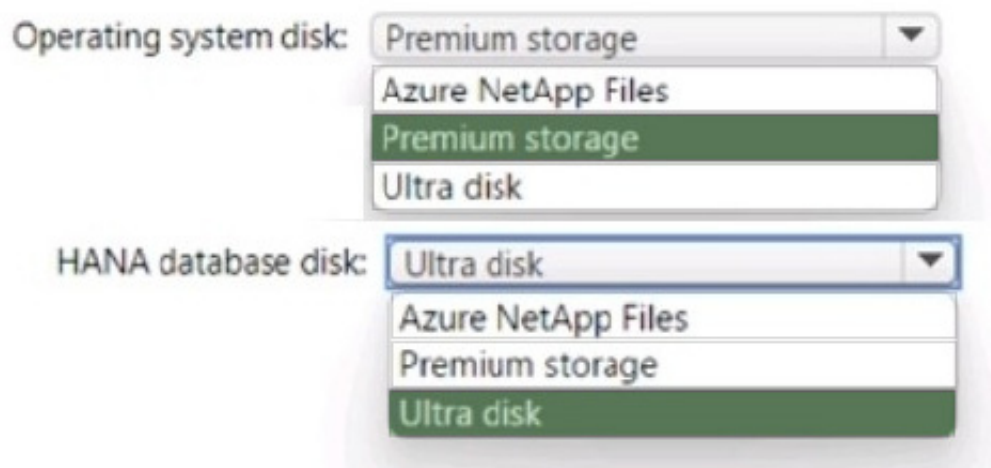
Ensure that each virtual machine can be allocated disks from a different storage cluster.

Which type of operating system disk and HANA database disk should you use? To answer, select the appropriate options in the answer area. NOTE Each correct selection is worth one point.

Hot Area:



Correct Answer:



QUESTION 12

HOTSPOT

You have an on-premises deployment of SAP HANA that contains a production environment and a development environment.

You plan to migrate both environments to Azure.

You need to identify which Azure virtual machine-series to use for each environment. The solution must meet the following requirements:

1.

Minimize costs.

2.



Be SAP HANA-certified.

What should you identify for each requirement? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:

SAP HANA Developer Edition:

D-series
M-series
NC-series

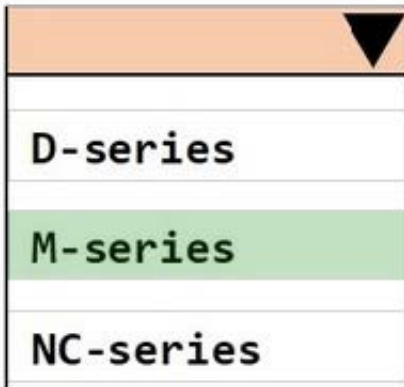
SAP S/4 HANA:

D-series
M-series
NC-series

Correct Answer:



SAP HANA Developer Edition:



SAP S/4 HANA:



QUESTION 13

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

Correct Answer: B

**QUESTION 14****HOTSPOT**

You have an SAP production landscape that uses SAP HANA databases.

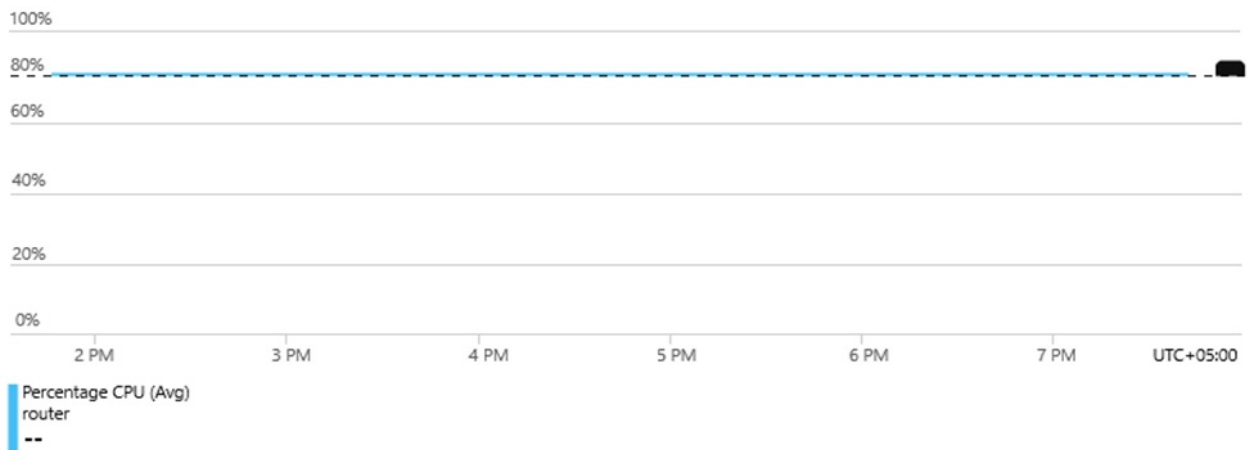
You configure a metric alert for the primary HANA server as shown in the following exhibit.

Configure signal logic**Percentage CPU (Platform)**

The percentage of allocated compute units that are currently in use by the Virtual Machine(s)

Chart period ⓘ

Over the last 6 hours

**Alert logic**

Threshold ⓘ

Static

Dynamic

Operator ⓘ

Greater than

Aggregation type * ⓘ

Average

Threshold value * ⓘ

80

%

Condition preview

Whenever the percentage cpu us greater then 80 %

Evaluated based on

Aggregation granularity (Period) * ⓘ

15 minutes

Frequency of evaluation ⓘ

Every 5 Minutes

You have an action group shown in the following exhibit.



HANA Admins

Save Discard Refresh Delete

Short name

HANA Admins

Action group name

HANA Admins

Resource group

default-activitylogalerts

Subscription

Corporate Subscription

Actions

Action group name*	Action Type*	Status	Configure	Action
hanaadmins_email	Email/SMS/Push/Voice	Subscribed	Edit details	X
amy_email	Email/SMS/Push/Voice	Subscribed	Edit details	X

Unique name for the action

Select an action type

The amy_email is configured as shown in the following exhibit.



Email/SMS/Push/Voice

Add or edit an Email/SMS/Push/Voice action



Email

Email*

amy@contoso.com



SMS (Carrier charges may apply)

Country code

1



Phone number

1234567890



Azure app Push Notifications

Azure account email ⓘ email@example.com



Voice

Country code

1



Phone number

1234567890

Enable the common alert schema. [Learn more](#)

Yes

No

OK

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
HANA Admins will be alerted by email if the server is at 85 percent for one minute, and then lowers to 40 percent	<input type="radio"/>	<input type="radio"/>
HANA Admins will be alerted if the server is at 95 percent for 15 minutes	<input type="radio"/>	<input type="radio"/>
Amy@contoso.com will be alerted by email if the server CPU cycles between 80 and 90 percent for 15 minutes	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

Statements	Yes	No
HANA Admins will be alerted by email if the server is at 85 percent for one minute, and then lowers to 40 percent	<input type="radio"/>	<input checked="" type="radio"/>
HANA Admins will be alerted if the server is at 95 percent for 15 minutes	<input checked="" type="radio"/>	<input type="radio"/>
Amy@contoso.com will be alerted by email if the server CPU cycles between 80 and 90 percent for 15 minutes	<input checked="" type="radio"/>	<input type="radio"/>

Box 1: No The period is 15 minutes. Only alerts or emails will be sent. Box 2: Yes Box 3: Yes

QUESTION 15

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 UI Speedtest Tool

Correct Answer: B

Use ABAPMETER in NetWeaver AS ABAP when you want to test the general performance/health of each instance in a NetWeaver AS ABAP system. Incorrect Answers:

D: The SAP UI Speedtest Tool is used to network bandwidth and latency.



The UI5 Speedtest Tool regularly checks your network connection and allows you to review the results via a UI5 web interface.

Reference:

<https://userapps.support.sap.com/sap/support/knowledge/en/2879613>

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