



AZ-120^{Q&As}

Planning and Administering Microsoft Azure for SAP Workloads

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QUESTION 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You plan to migrate an SAP HANA instance to Azure.

You need to gather CPU metrics from the last 24 hours from the instance.

Solution: You run SAP HANA Quick Sizer.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

The SAP HANA cockpit provides a single point of access to a range of SAP HANA administration and monitoring tasks. It is used to monitor and ensure the overall health of the system.

The HANA Monitoring dashboard also visualizes key HANA Metrics of SAP HANA system.

References:

<https://developers.sap.com/tutorials/dt-monitoring-hana-part1.html>

<https://www.hanatutorials.com/p/hana-monitoring-dashboard.html>

QUESTION 2

Once the migration completes, to which size should you set the ExpressRoute circuit to the New York office to meet the business goals and technical requirements?

- A. 500 Mbps
- B. 1,000 Mbps
- C. 2,000 Mbps
- D. 5,000 Mbps

Correct Answer: C

ExpressRoute circuits are configured to allow you to burst up to two times the bandwidth limit you procured for no additional cost.



Scenario: 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.

References:

<https://docs.microsoft.com/en-us/azure/expressroute/expressroute-faqs>

QUESTION 3

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
SAP HANA certification for M-Series Azure virtual machines requires that Write Accelerator be enabled on the /hana/data volume.	<input type="radio"/>	<input type="radio"/>
SAP HANA certification for M-Series Azure virtual machines requires that Write Accelerator be enabled on the /hana/log volume.	<input type="radio"/>	<input type="radio"/>
To enable Write Accelerator, you must use Azure Premium managed disks.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

Statements	Yes	No
SAP HANA certification for M-Series Azure virtual machines requires that Write Accelerator be enabled on the /hana/data volume.	<input type="radio"/>	<input checked="" type="radio"/>
SAP HANA certification for M-Series Azure virtual machines requires that Write Accelerator be enabled on the /hana/log volume.	<input checked="" type="radio"/>	<input type="radio"/>
To enable Write Accelerator, you must use Azure Premium managed disks.	<input checked="" type="radio"/>	<input type="radio"/>

Box 1: No



Box 2: Yes The minimum SAP HANA certified conditions for the different storage types are: Azure Premium SSD - /hana/log is required to be cached with Azure Write Accelerator. The /hana/data volume could be placed on Premium SSD without Azure Write Accelerator or on Ultra disk
Box 3: Yes
References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/workloads/sap/hana-vm-operations-storage>

QUESTION 4

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

Correct Answer: A

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/azuredscexthistory>

QUESTION 5

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"/>

Correct 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"/>

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 6

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

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 7

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": ,
    "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'))]"
        }
      ]
    }
  }
}

```

Box 1: true

enableAcceleratedNetworking: If the network interface is accelerated networking enabled.

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.

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 8

You have an Azure subscription.

You deploy Active Directory domain controllers to Azure virtual machines.

You plan to deploy Azure for SAP workloads.

You plan to segregate the domain controllers from the SAP systems by using different virtual networks.

You need to recommend a solution to connect the virtual networks. The solution must minimize costs.

What should you recommend?

- A. a site-to-site VPN
- B. virtual network peering
- C. user-defined routing
- D. ExpressRoute

Correct Answer: C

You can create custom, or user-defined, routes in Azure to override Azure's default system routes, or to add additional routes to a subnet's route table. In Azure, you create a route table, then associate the route table to zero or more virtual network subnets.

Incorrect Answers:

D: ExpressRoute is a costly solution.

QUESTION 9

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

Correct Answer: CD

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>

QUESTION 10

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

1.
SAP systems based on SAP HANA and SAP Adaptive Server Enterprise (SAP ASE) that run on SUSE Linux Enterprise Server 12 (SLES 12)
2.
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 11

DRAG DROP

You have an SAP environment on Azure.

You use Azure Site Recovery to protect an SAP production landscape.

You need to validate whether you can recover the landscape in the event of a failure. The solution must minimize the impact on the 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.

Select and Place:

Actions	Answer Area
Validate the SAP production landscape	
Create a virtual network that has the same subnets as the SAP production landscape	
Create a network security group (NSG) that restricts traffic to the primary region	
Shut down production virtual machines	
Select Test failover from the Recovery Plans blade	
Add a public IP address to a management server in the disaster recovery region	

Navigation icons: Left arrow, Right arrow, Up arrow, Down arrow.

Correct Answer:



Actions

Validate the SAP production landscape
Create a network security group (NSG) that restricts traffic to the primary region

Answer Area

Create a virtual network that has the same subnets as the SAP production landscape
Add a public IP address to a management server in the disaster recovery region
Shut down production virtual machines
Select Test failover from the Recovery Plans blade

Step 1: Create a virtual network...

We recommend that for test failover, you choose a network that's isolated from the production recovery site network specific in the Compute and Network settings for each VM. By default, when you create an Azure virtual network, it is isolated from other networks. The test network should mimic your production network:

The test network should have same number of subnets as your production network. Subnets should have the same names.

The test network should use the same IP address range.

Step 2: Add a public IP address...

Because Site Recovery does not replicate the cloud witness, we recommend that you deploy the cloud witness in the disaster recovery region.

Step 3: Shut down production virtual machines

Make sure that the primary VM is shut down when you run the test failover. Otherwise there will be two VMs with the same identity, running in the same network at the same time. This can lead to unexpected consequences.

Step 4: Select Test failover from the Recovery Plans blade

References:

<https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-test-failover-to-azure>



QUESTION 12

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

Correct Answer: AD

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. Incorrect Answers:

E: Data Volume Management focuses on whether the collection of DVM content for the EarlyWatch Alert report is not performed, not activated, or not possible because the SAP Solution Manager system does not meet the technical requirements.

References: <https://wiki.scn.sap.com/wiki/display/SM/Hardware+Capacity+Checks+in+EWA>

QUESTION 13

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
Enabling Accelerated Networking on an SAP application server will decrease CPU usage.	<input type="radio"/>	<input type="radio"/>
Enabling Accelerated Networking on an SAP application server will increase jitter.	<input type="radio"/>	<input type="radio"/>
You can enable Accelerated Networking on any Azure virtual machine.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

Statements	Yes	No
Enabling Accelerated Networking on an SAP application server will decrease CPU usage.	<input checked="" type="radio"/>	<input type="radio"/>
Enabling Accelerated Networking on an SAP application server will increase jitter.	<input checked="" type="radio"/>	<input type="radio"/>
You can enable Accelerated Networking on any Azure virtual machine.	<input type="radio"/>	<input checked="" type="radio"/>

Box 1: Yes

By moving much of Azure's software-defined networking stack off the CPUs and into FPGA-based SmartNICs, compute cycles are reclaimed by end user applications, putting less load on the VM, decreasing jitter and inconsistency in latency.

Box 2: Yes

Box 3: No

Accelerated Networking (AN) is generally available (GA) and widely available for Windows and the latest distributions of Linux

References:

<https://azure.microsoft.com/en-us/blog/maximize-your-vm-s-performance-with-accelerated-networking-now-generally-available-for-both-windows-and-linux/>



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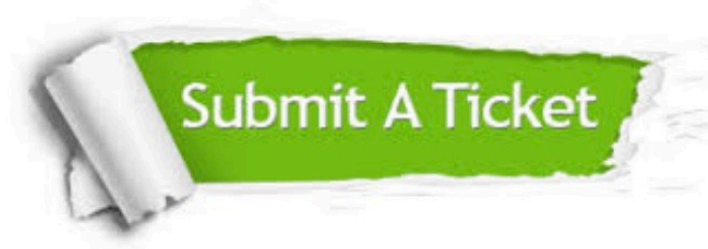
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