AZ-120^{Q&As}

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Planning and Administering Microsoft Azure for SAP Workloads

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QUESTION 1

You have an on-premises third-party enterprise resource planning (ERP) system that uses Microsoft SQL Server 2016.

You plan to migrate the ERP system to SAP Business Suite on SAP HANA on Azure virtual machines.

You need to identify the appropriate sizing for Business Suite on HANA.

What should you use?

A. SAP Quick Sizer for HANA Cloud

B. HANA Cockpit

C. SAP Quick Sizer for HANA

D. SAP Cloud Platform Cockpit

Correct Answer: A

If a customer runs non-SAP systems, the only way of Sizing the required Hardware for SAP HANA is the Quick-Sizer tool.

HANA-based Cloud Quick Sizer: Please use this version, if the product that you want to size shall run in the Cloud; e.g. SAP S/4HANA Cloud and SAP Data Warehouse Cloud.

Reference:

https://www.sap.com/about/benchmark/sizing.html#quick-sizer

QUESTION 2

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
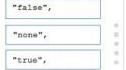
split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Values

"false",

"none",

"true",

Answer Area

```
{
    "apiVersion": "2017-06-01",
    "type": "Microsoft.Network/networkInterfaces",
    "name": "[concat(parameters('vmName'), '-static')]",
    "location": "[resourceGroup().location]",
    "properties": {
        "enableAcceleratedNetworking":        Value

        "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": {
                "piblisher": "RedHat",
                "offer": "RHEL-SAP-HANA",
                "sku": "7.2",
                "version": "latest"
            },
            "osDisk": {
                "createOption": "FromImage"
            },
            "dataDisks": [
                {
                    "lun": 7,
                    "name" : "[concat(parameters('vmName'), '-log')]",
                    "createOption": "Empty",

                    "writeAcceleratorEnabled":        Value

                    "diskSizeGB" : 2048,
                    "managedDisk" : {
                        "storageAccountType" : "Premium_LRS"
                    }
                }
            ]
        },
        "networkProfile": {
            "networkInterfaces": [
                {
                    "id":"[resourceId('Microsoft.Network/networkInterfaces',concat(parameters('vmName'), '-static'))]"
                }
            ]
        }
    }
}
```

Correct Answer:

Values	Answer Area

```
"false",

"none",

"true",
```

```
{
    "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": {
                "piblisher": "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 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
The Azure Enhanced Monitoring Extension for SAP stores performance data in an Azure Storage account.	○	○
You can enable the Azure Enhanced Monitoring Extension for SAP on a SUSE Linux Enterprise Server 12 (SLES 12) server by running the Set-AzVMAEMExtension cmdlet.	○	○
You can enable the Azure Enhanced Monitoring Extension for SAP on a server that runs Windows Server 2016 by running the Set-AzVMAEMExtension cmdlet.	○	○

Correct Answer:

Answer Area

Statements	Yes	No
The Azure Enhanced Monitoring Extension for SAP stores performance data in an Azure Storage account.	⊙	◯
You can enable the Azure Enhanced Monitoring Extension for SAP on a SUSE Linux Enterprise Server 12 (SLES 12) server by running the Set-AzVMAEMExtension cmdlet.	⊙	◯
You can enable the Azure Enhanced Monitoring Extension for SAP on a server that runs Windows Server 2016 by running the Set-AzVMAEMExtension cmdlet.	⊙	◯

Box 1: Yes

The SAP Azure Enhanced Monitoring Extension builds on top of the Azure Diagnostic extension, which stores its data in an Azure Storage account that you specify.

Box 2: Yes

The Set-AzVMAEMExtension cmdlet updates the configuration of a virtual machine to enable or update the support for monitoring for SAP systems that are installed on the virtual machine. The cmdlet installs the Azure Enhanced Monitoring

(AEM) extension that collects the performance data and makes it discoverable for the SAP system.

The -OSType specifies the OS. Either Windows or Linux.

Box 3: Yes

References:

https://docs.microsoft.com/en-us/azure/azure-monitor/platform/diagnostics-extension-overview

https://docs.microsoft.com/en-us/powershell/module/az.compute/set-azvmaemextension

QUESTION 4

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 route filters for Microsoft peering.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

QUESTION 5

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. Create Azure Automation runbooks to stop, deallocate, and start Azure virtual machines.

B. Create a scheduled task that runs the stopsap command.

C. Configure scaling for Azure App Service.

D. Configure Azure virtual machine scales sets.

Correct Answer: A

You can optimize your Azure Costs by Automating SAP System Start ?Stop using runbooks.

Reference: https://techcommunity.microsoft.com/t5/running-sap-applications-on-the/optimize-your-azure-costs-by-automating-sap-system-start-stop/ba-p/2120675

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