

> Vendor: Microsoft

> Exam Code: AZ-120

- Exam Name: Planning and Administering Microsoft Azure for SAP Workloads
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QUESTION 7

Case Study 2 - Contoso, Ltd

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.

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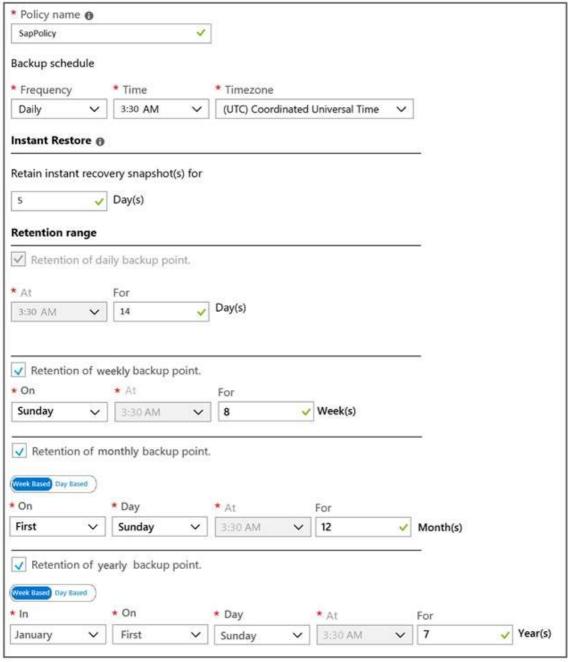
One Time!

- 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.



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.



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"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')]"
1.
"osProfile": {
  "computerName": "[parameters('vmname')]",
 "adminUsername": "[parameters('adminUsername')]",
 "adminPassword": "[parameters('adminPassword')]"
1,
"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')]"
   }
  1.
  "сору": [
   -{
      "name": "DataDisks",
      'count": "[parameters('diskCount')]",
      "input" : {
       "Caching" : "None",
      "diskSizeGB" : 1024,
       "lun": "[copyIndex('datadisks')]",
```



One Time!

```
"name": "[concat(parameters('vmname'), '-DD',copyIndex('datadisks'))]",
         "createOption": "Empty"
    1
  "networkProfile": {
   "networkInterfaces": [
        "id": "[resourceId('Microsoft.Network/networkInterfaces', parameters('vmName'))]"
      }
    ]
 }
},
"resources": [
    1
      "apiVersion": "2017-03-30"
      "type": "Microsoft.Compute/virtualMachines/extensions",
      "name": "[concat(parameters('VMName'), '/joindomain')]",
      "location": "eastus",
      "properties": {
        "publisher": "Microsoft.Compute",
        "type": "JsonADDomainExtension",
        "typeHandlerVersion": "1.3",
        "autoUpgradeMinorVersion": true,
        "settings": {
            "Name": "[parameters('domainName')]",
            "User": "[parameters('domainusername')]",
            "Restart": "true",
            "Options": "3"
        1.
        "protectedsettings": {
            "Password": "[parameters('domainPassword')]"
       }
     }
   }
 ]
}
```

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 <u>Active Directory Federation Services (AD FS)</u>. 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

Answer: A Explanation:

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

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One Time!

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

QUESTION 8

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Technical Requirements

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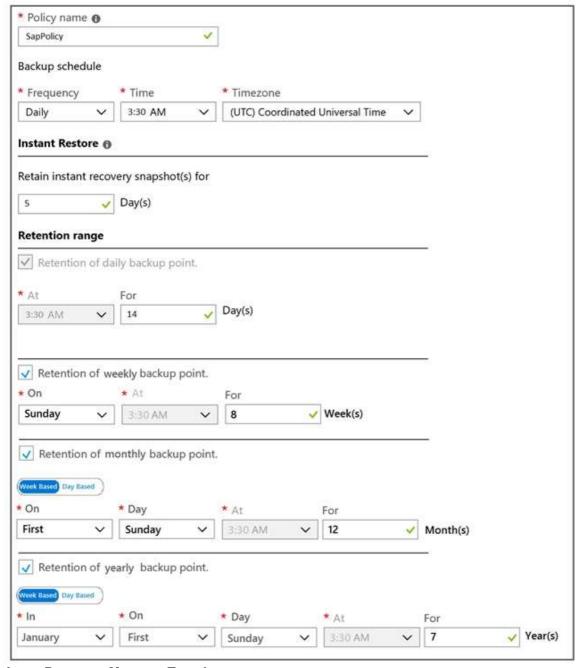
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"properties":{
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"osProfile": {
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"storageProfile": {
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    "version" : "latest"
  },
  "osDisk": {
    "name": "[concat(parameters('vmname'), '-OS')]",
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  1.
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One Time!

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"name": "[concat(parameters('vmname'), '-DD',copyIndex('datadisks'))]",
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     3
    1
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        "settings": {
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        1.
        "protectedsettings": {
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       }
     }
    }
 ]
}
```

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

Answer: C

Explanation:

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 9

Case Study 2 - Contoso, Ltd

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One Time!

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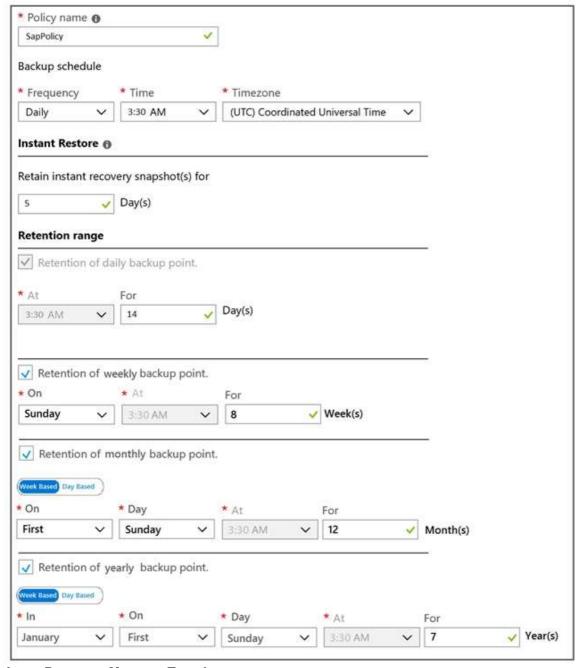
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One Time!

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       }
     }
    }
 ]
```

You are planning the Azure network infrastructure to support the disaster recovery requirements. What is the minimum number of virtual networks required for the SAP deployment?

- A. 1
- B. 2
- C. 3
- D. 4

Answer: B

Explanation:

Scenario: Ensure that all the production databases can withstand the failure of an Azure region.

Note: Use Azure Site Recovery to replicate applications across regions. Azure Site Recovery replicates workloads running on physical and virtual machines from a primary site (either on-premises or in Azure) to a secondary location (in Azure). When an outage occurs at the customer's primary site, a failover can be triggered to quickly return the customer to an operational state. After the primary location is restored, customers can then fail back. References:

https://docs.microsoft.com/en-us/azure/architecture/resiliency/recovery-loss-azure-region

QUESTION 10

Case Study 2 - Contoso, Ltd

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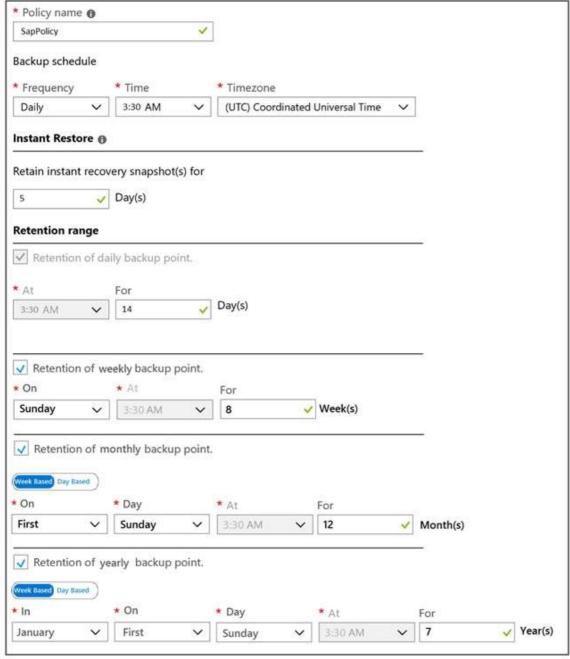
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  "ImageReference": {
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  },
  "osDisk": {
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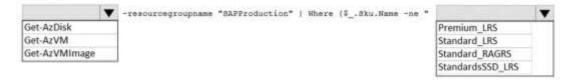
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Hotspot Question

Before putting the SAP environment on Azure into production, which command should you run to ensure that the virtual machine disks meet the business requirements? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area



Answer:

Answer Area



Explanation:

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One Time!

Scenario: Ensure that all the production databases can withstand the failure of an Azure region. References:

https://docs.microsoft.com/en-us/powershell/module/az.compute/get-azvmimage