

➤ **Vendor: Microsoft**

➤ **Exam Code: AZ-120**

➤ **Exam Name: Planning and Administering Microsoft Azure for SAP Workloads**

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QUESTION 82

Drag and Drop Question

You deploy an SAP environment on Azure.

You need to grant an SAP administrator read-only access to the Azure subscription. The SAP administrator must be prevented from viewing network information.

How should you configure the role-based access control (RBAC) role definition? 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.

Values	Answer Area
<input type="text" value="*/read"/>	<pre>{ "Name": "CustomRole001", "IsCustom": true, "Description": "", "Actions": [<input type="text" value="*/read"/>], "NotActions": [<input type="text" value="Microsoft.Network/*/*read"/>], "DataActions": [], "AssignableScopes": ["/subscriptions/0eae253-d1ee-423e-a95a-418939ee14ae"] }</pre>
<input type="text" value="Microsoft.Authorization/*/*read"/>	
<input type="text" value="Microsoft.Compute/*/*read"/>	
<input type="text" value="Microsoft.Insights/*/*read"/>	
<input type="text" value="Microsoft.Management/managementGroups/read"/>	
<input type="text" value="Microsoft.Network/*/*read"/>	
<input type="text" value="Microsoft.Resources/*/*read"/>	
<input type="text" value="Microsoft.Storage/*/*read"/>	

Answer:

Values	Answer Area
<input type="text" value="Microsoft.Authorization/*/*read"/>	<pre>{ "Name": "CustomRole001", "IsCustom": true, "Description": "", "Actions": [<input type="text" value="*/read"/>], "NotActions": [<input type="text" value="Microsoft.Network/*/*read"/>], "DataActions": [], "AssignableScopes": ["/subscriptions/0eae253-d1ee-423e-a95a-418939ee14ae"] }</pre>
<input type="text" value="Microsoft.Compute/*/*read"/>	
<input type="text" value="Microsoft.Insights/*/*read"/>	
<input type="text" value="Microsoft.Management/managementGroups/read"/>	
<input type="text" value="Microsoft.Resources/*/*read"/>	
<input type="text" value="Microsoft.Storage/*/*read"/>	

Explanation:

Box 1: "*/read"

"*/read" allows you to view everything in the subscription.

You need to grant an SAP administrator read-only access to the Azure subscription

Box 2: "Microsoft.Network/*/*read"

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The SAP administrator must be prevented from viewing network information.

QUESTION 83

Hotspot Question

You have an SAP environment that contains the following components:

- Enhancement Package 6 for SAP ERP Central Component 6.0 (SAP ECC 6.0)
- Servers that run SUSE Linux Enterprise Server 12 (SLES 12)
- Databases on IBM DB2 10.5
- SAP Solution Manager 7.1

You plan to migrate the SAP environment 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.

Answer Area

Statements	Yes	No
The version of SAP Solution Manager supports deployment to Azure.	<input type="radio"/>	<input type="radio"/>
The version of SAP ECC supports deployment to Azure.	<input type="radio"/>	<input type="radio"/>
The DB2 databases must be migrated to a different database platform before migrating to Azure.	<input type="radio"/>	<input type="radio"/>

Answer:

Answer Area

Statements	Yes	No
The version of SAP Solution Manager supports deployment to Azure.	<input checked="" type="radio"/>	<input type="radio"/>
The version of SAP ECC supports deployment to Azure.	<input type="radio"/>	<input checked="" type="radio"/>
The DB2 databases must be migrated to a different database platform before migrating to Azure.	<input type="radio"/>	<input checked="" type="radio"/>

Explanation:

Box 1: Yes

Box 2: No

Upgrade to ECC 7.01 or later.

Box 3: No

With Microsoft Azure, you can migrate your existing SAP application running on IBM Db2 for Linux, UNIX, and Windows (LUW) to Azure virtual machines. With SAP on IBM Db2 for LUW, administrators and developers can still use the same development and administration tools, which are available on-premises.

Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/connector-sap-table>

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

QUESTION 84

Drag and Drop Question

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Time!

You have an on-premises SAP environment that runs on SUSE Linux Enterprise Server (SLES) servers and Oracle. The version of the SAP ERP system is 6.06 and the version of the portal is SAP NetWeaver 7.3. You need to recommend a migration strategy to migrate the SAP ERP system and the portal to Azure. The solution must be hosted on SAP HANA.

What should you recommend? To answer, drag the appropriate tools to the correct components. Each tool 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.

Tools	Answer Area
SAP heterogeneous system copy	To migrate the SAP ERP system: <input type="text"/>
Software Update Manager (SUM) Database Migration Option (DMO) with System Update	To migrate the portal: <input type="text"/>
Software Update Manager (SUM) Database Migration Option (DMO) with System Move	
Software Update Manager (SUM) Database Migration Option (DMO) without System Update	

Answer:

Tools	Answer Area
SAP heterogeneous system copy	To migrate the SAP ERP system: Software Update Manager (SUM) Database Migration Option (DMO) with System Update
Software Update Manager (SUM) Database Migration Option (DMO) with System Move	To migrate the portal: Software Update Manager (SUM) Database Migration Option (DMO) without System Update

Explanation:

Box 1: Software Update Manager (SUM) Database Migration option (DMO) with System Update The SAP ERP system is 6.06.

Box 2: Software Update Manager (SUM) Database Migration option (DMO) without System Update The portal is SAP NetWeaver 7.3.

SAP ERP portal migrate azure Software update manager database

Reference:

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

QUESTION 85

Case Study 1 - Litware, Inc

Overview

Litware, Inc. is an international manufacturing company that has 3,000 employees.

Litware has two main offices. The offices are located in Miami, FL, and Madrid, Spain.

Existing Environment

Infrastructure

Litware currently uses a third-party provider to host a datacenter in Miami and a disaster recovery datacenter in Chicago, IL.

The network contains an Active Directory domain named litware.com. Litware has two third-party applications hosted in Azure.

Litware already implemented a site-to-site VPN connection between the on-premises network and Azure.

SAP Environment

Litware currently runs the following SAP products:

- Enhancement Pack6 for SAP ERP Central Component 6.0 (SAP ECC 6.0)
- SAP Extended Warehouse Management (SAP EWM)
- SAP Supply Chain Management (SAP SCM)
- SAP NetWeaver Process Integration (PI)
- SAP Business Warehouse (SAP BW)
- SAP Solution Manager

All servers run on the Windows Server platform. All databases use Microsoft SQL Server. Currently, you have 20 production servers.

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Time!

You have 30 non-production servers including five testing servers, five development servers, five quality assurance (QA) servers, and 15 pre-production servers.

Currently, all SAP applications are in the litware.com domain.

Problem Statements

The current version of SAP ECC has a transaction that, when run in batches overnight, takes eight hours to complete. You confirm that upgrading to SAP Business Suite on HANA will improve performance because of code changes and the SAP HANA database platform.

Litware is dissatisfied with the performance of its current hosted infrastructure vendor. Litware experienced several hardware failures and the vendor struggled to adequately support its 24/7 business operations.

Requirements**Business Goals**

Litware identifies the following business goals:

- Increase the performance of SAP ECC applications by moving to SAP HANA. All other SAP databases will remain on SQL Server.
- Move away from the current infrastructure vendor to increase the stability and availability of the SAP services.
- Use the new Environment, Health and Safety (EH&S) in Recipe Management function.
- Ensure that any migration activities can be completed within a 48-hour period during a weekend.

Planned Changes

Litware identifies the following planned changes:

- Migrate SAP to Azure.
- Upgrade and migrate SAP ECC to SAP Business Suite on HANA Enhancement Pack 8.

Technical Requirements

Litware identifies the following technical requirements:

- Implement automated backups.
- Support load testing during the migration.
- Identify opportunities to reduce costs during the migration.
- Continue to use the litware.com domain for all SAP landscapes.
- Ensure that all SAP applications and databases are highly available.
- Establish an automated monitoring solution to avoid unplanned outages.
- Remove all SAP components from the on-premises network once the migration is complete.
- Minimize the purchase of additional SAP licenses. SAP HANA licenses were already purchased.
- Ensure that SAP can provide technical support for all the SAP landscapes deployed to Azure.

Litware is evaluating whether to add high availability after the migration.

What should you recommend to meet the technical requirements?

- A. SAP HANA system replication and Azure Availability Sets
- B. Azure virtual machine auto-restart with SAP HANA service auto-restart.
- C. Azure Site Recovery

Answer: A

QUESTION 86**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:

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Time!

- 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.
- 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.

* Policy name ⓘ
 ✓

Backup schedule

* Frequency
 ✓

* Time
 ✓

* Timezone
 ✓

Instant Restore ⓘ

Retain instant recovery snapshot(s) for
 ✓ Day(s)

Retention range

☒ Retention of daily backup point.

* At
 ✓

For
 ✓ Day(s)

☒ Retention of weekly backup point.

* On
 ✓

* At
 ✓

For
 ✓ Week(s)

☒ Retention of monthly backup point.

☒ Week Based ☐ Day Based

* On
 ✓

* Day
 ✓

* At
 ✓

For
 ✓ Month(s)

☒ Retention of yearly backup point.

☒ Week Based ☐ Day Based

* In
 ✓

* On
 ✓

* Day
 ✓

* At
 ✓

For
 ✓ Year(s)

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

```
{
  "name": "[concat(parameters('vmname'), '-DD',copyIndex('datadisks'))]",
  "createOption": "Empty"
}
},
"networkProfile": {
  "networkInterfaces": [
    {
      "id": "[resourceId('Microsoft.Network/networkInterfaces', parameters('vmName'))]"
    }
  ]
},
"resources": [
  {
    "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"
      },
      "protectedsettings": {
        "Password": "[parameters('domainPassword')]"
      }
    }
  }
]
```

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

Answer: B

QUESTION 87

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 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 deploy an Azure Standard Load balancer.

Does this meet the goal?

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- A. Yes
- B. No

Answer: A

QUESTION 88

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 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

Answer: B

QUESTION 89

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 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

QUESTION 90

You have an on- premises SAP environment hosted on VMware VSphere that in Microsoft SQL Server as the database platform.

You plan to migrate the environment to Azure. The database platform will remain the same.

You need gather information to size the target Azure Environment for the migration.

What should you use?

- A. Azure Monitor
- B. the SAP NANA sizing report
- C. the SAP EarlyWatch Alert report
- D. Azure Advisor

Answer: D

QUESTION 91

Your company has a an on-premises SAP environment.

Recently, the company split into two companies named Litware, inc and Contoso.Ltd. Litware retained the SAP environment.

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Litware plans to export data that is relevant only to Contoso. The export will be 1.5 TB.

Contoso build a new SAP environment on Azure.

You need to recommend a solution for Litware to make the data available to Contoso in Azure. The solution must meet the following requirements:

- Minimize the impact on the network.
- Minimize the administrative effort for Litware.

What should you include in the recommendation.

- A. Azure Migrate
- B. Azure Databox
- C. Azure Site Recovery
- D. Azure import/Export service

Answer: C

QUESTION 92

You plan to migrate an on-premises SAP environment to Azure.

You need to identify whether any SAP application servers host multiple SAP system identifiers (SIDs).

What should you do?

- A. Run SAP HANA sizing report.
- B. From the SAP EarlyWatch Alert report, compare the physical host names to the virtual host names.
- C. Run the SAP Report from ABAPMeter.
- D. From the SAP EarlyWatch Alert report, compare the services to the reference objects

Answer: C