



Microsoft

AZ-303

Microsoft Azure Architect Technologies

Question & Answers

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Section 1: Sec One (1 to 5)**Details: Implement and Monitor an Azure Infrastructure Question Set 1****QUESTION: 1**

You have an Azure subscription that contains 10 virtual machines on a virtual network. You need to create a graph visualization to display the traffic flow between the virtual machines. What should you do from Azure Monitor?

- A. From Activity log, use quick insights.
- B. From Metrics, create a chart.
- C. From Logs, create a new query.
- D. From Workbooks, create a workbook.

Answer: C

Explanation:

Navigate to Azure Monitor and select Logs to begin querying the data

Reference:

<https://azure.microsoft.com/en-us/blog/analysis-of-network-connection-data-with-azure-monitor-for-virtual-machines/>

QUESTION: 2**HOTSPOT**

You plan to create an Azure Storage account in the Azure region of East US 2. You need to create a storage account that meets the following requirements:

- Replicates synchronously
- Remains available if a single data center in the region fails

How should you configure the storage account? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Replication:

Geo-redundant storage (GRS)
Locally-redundant storage (LRS)
Read-access geo-redundant storage (RA GRS)
Zone-redundant storage (ZRS)

Account type:

Blob storage
Storage (general purpose v1)
StorageV2 (general purpose v2)

Answer:

Exhibit

Answer Area

Replication:

Geo-redundant storage (GRS)
Locally-redundant storage (LRS)
Read-access geo-redundant storage (RA GRS)
Zone-redundant storage (ZRS)

Account type:

Blob storage
Storage (general purpose v1)
StorageV2 (general purpose v2)

Explanation:

Box 1: Zone-redundant storage (ZRS)

Zone-redundant storage (ZRS) replicates your data synchronously across three storage clusters in a single region. LRS would not remain available if a data center in the region fails GRS and RA GRS use asynchronous replication.

Box 2: StorageV2 (general purpose V2) ZRS only support GPv2.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy>

<https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy-zrs>

QUESTION: 3**HOTSPOT**

You plan to deploy an Azure virtual machine named VM1 by using an Azure Resource Manager template. You need to complete the template. What should you include in the template? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
{
  "type": "Microsoft.Compute/virtualMachines",
  "apiVersion": "2018-10-01",
  "name": "VM1",
  "location": "[parameters('location')]",
  "dependsOn": [
    "[resourceId('Microsoft.Storage/storageAccounts/', variables('Name3'))]",
    "[resourceId(
      'Microsoft.Network/publicIPAddresses/',
      variables('Name4'))]",
    "Microsoft.Network/virtualNetworks/",
    "Microsoft.Network/networkInterfaces/",
    "Microsoft.Network/virtualNetworks/subnets",
    "Microsoft.Storage/storageAccounts/"
  ],
},
{
  "type": "Microsoft.Network/networkInterfaces",
  "apiVersion": "2018-11-01",
  "name": "NIC1",
  "location": "[parameters('location')]",
  "dependsOn": [
    "[resourceId('Microsoft.Network/publicIPAddresses/', variables('Name1'))]",
    "[resourceId(
      'Microsoft.Network/publicIPAddresses/',
      variables('Name2'))]",
    "Microsoft.Network/publicIPAddresses/",
    "Microsoft.Network/virtualNetworks/",
    "Microsoft.Network/networkInterfaces/",
    "Microsoft.Network/virtualNetworks/subnets",
    "Microsoft.Storage/storageAccounts/"
  ],
},
```

Answer:

Exhibit

Answer Area

```

{
  "type": "Microsoft.Compute/virtualMachines",
  "apiVersion": "2018-10-01",
  "name": "VM1",
  "location": "[parameters('location')]",
  "dependsOn": [
    "[resourceId('Microsoft.Storage/storageAccounts/', variables('Name3'))]",
    "[resourceId(
      

|                                             |   |
|---------------------------------------------|---|
|                                             | ▼ |
| 'Microsoft.Network/publicIPAddresses/'      |   |
| 'Microsoft.Network/virtualNetworks/'        |   |
| 'Microsoft.Network/networkInterfaces/'      |   |
| 'Microsoft.Network/virtualNetworks/subnets' |   |
| 'Microsoft.Storage/storageAccounts/'        |   |


      variables('Name4'))]"
  ],
},
{
  "type": "Microsoft.Network/networkInterfaces",
  "apiVersion": "2018-11-01",
  "name": "NIC1",
  "location": "[parameters('location')]",
  "dependsOn": [
    "[resourceId('Microsoft.Network/publicIPAddresses/', variables('Name1'))]",
    "[resourceId(
      

|                                             |   |
|---------------------------------------------|---|
|                                             | ▼ |
| 'Microsoft.Network/publicIPAddresses/'      |   |
| 'Microsoft.Network/virtualNetworks/'        |   |
| 'Microsoft.Network/networkInterfaces/'      |   |
| 'Microsoft.Network/virtualNetworks/subnets' |   |
| 'Microsoft.Storage/storageAccounts/'        |   |


      variables('Name2'))]"
  ],
},

```

Explanation:

Within your template, the dependsOn element enables you to define one resource as a dependent on one or more resources. Its value can be a comma-separated list of resource names.

Box 1: 'Microsoft.Network/networkInterfaces'

This resource is a virtual machine. It depends on two other resources:

Microsoft.Storage/storageAccounts Microsoft.Network/networkInterfaces

Box 2: 'Microsoft.Network/virtualNetworks/'

The dependsOn element enables you to define one resource as a dependent on one or more resources. The resource depends on two other resources:

Microsoft.Network/publicIPAddresses Microsoft.Network/virtualNetworks

```

"resources": [
  { ...
  },
  { ...
  },
  { ...
  },
  {
    "type": "Microsoft.Network/networkInterfaces",
    "name": "[variables('nicName')]",
    "location": "[parameters('location')]",
    "apiVersion": "2018-08-01",
    "dependsOn": [
      "[resourceId('Microsoft.Network/publicIPAddresses/', variables('publicIPAddressName'))]",
      "[resourceId('Microsoft.Network/virtualNetworks/', variables('virtualNetworkName'))]"
    ],
    "properties": {
      "ipConfigurations": [
        {
          "name": "ipconfig1",
          "properties": {
            "privateIPAllocationMethod": "Dynamic",
            "publicIPAddress": {
              "id": "[resourceId('Microsoft.Network/publicIPAddresses', variables('publicIPAddressName'))]"
            },
            "subnet": {
              "id": "[variables('subnetRef')]"
            }
          }
        }
      ]
    }
  }
],
},

```

Reference:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-tutorial-create-templates-with-dependent-resources>

QUESTION: 4**HOTSPOT**

Your network contains an Active Directory domain named adatum.com and an Azure Active Directory (Azure AD) tenant named adatum.onmicrosoft.com. Adatum.com contains the user accounts in the following table.

Name	Member of
User1	Domain Admins
User2	Schema Admins
User3	Incoming Forest Trust Builders
User4	Replicator
User5	Enterprise Admins

Adatum.onmicrosoft.com contains the user accounts in the following table.

Name	Role
UserA	Global administrator
UserB	User administrator
UserC	Security administrator
UserD	Service administrator

You need to implement Azure AD Connect. The solution must follow the principle of least privilege. Which user accounts should you use in Adatum.com and Adatum.onmicrosoft.com to implement Azure AD Connect? To answer select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Adatum.com:

	▼
User1	
User2	
User3	
User4	
User5	

Adatum.onmicrosoft.com:

	▼
UserA	
UserB	
UserC	
UserD	

Answer:

Exhibit

Answer Area

Adatum.com:

	▼
User1	
User2	
User3	
User4	
User5	

Adatum.onmicrosoft.com:

	▼
UserA	
UserB	
UserC	
UserD	

Explanation:

Box 1: User5

In Express settings, the installation wizard asks for the following:

AD DS Enterprise Administrator credentials
 Azure AD Global Administrator credentials
 The AD DS Enterprise Admin account is used to configure your on-premises Active Directory. These credentials are only used during the installation and are not used after the installation has completed. The Enterprise Admin, not the Domain Admin should make sure the permissions in Active Directory can be set in all domains. Box 2: UserA

Azure AD Global Admin credentials are only used during the installation and are not used after the installation has completed. It is used to create the Azure AD Connector account used for synchronizing changes to Azure AD. The account also enables sync as a feature in Azure AD.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/connect/active-directory-aadconnect-accounts-permissions>

QUESTION: 5

You have an Azure subscription that contains 100 virtual machines. You have a set of Pester tests in PowerShell that validate the virtual machine environment. You need to run the tests whenever there is an operating system update on the virtual machines. The solution must minimize implementation time and recurring costs. Which three resources should you use to implement the tests? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Azure Automation runbook
- B. an alert rule
- C. an Azure Monitor query
- D. a virtual machine that has network access to the 100 virtual machines
- E. an alert action group

Answer: A, B, E

Explanation:

AE: You can call Azure Automation runbooks by using action groups or by using classic alerts to automate tasks based on alerts.

B: Alerts are one of the key features of Azure Monitor. They allow us to alert on actions within an Azure subscription

Reference:

<https://docs.microsoft.com/en-us/azure/automation/automation-create-alert-triggered-runbook>

<https://techsnips.io/snips/how-to-create-and-test-azure-monitor-alerts/?page=13>