



70-533

Implementing Microsoft Azure Infrastructure Solutions

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QUESTION NO: 1 HOTSPOT

You manage an Azure Service Bus for your company. You plan to enable access to the Azure Service Bus for an application named ContosoLOB.

You need to create a new shared access policy for subscriptions and queues that has the following requirements:

- Receives messages from a queue
- Deadletters a message
- Defers a message for later retrieval
- Enumerates subscriptions
- Gets subscription description

In the table below, identify the permission you need to assign to ensure that ContosoLOB is able to accomplish the above requirements. Make only one selection in each column.

Answer Area

Access Level	Queues	Subscriptions
Send	<input type="radio"/>	<input type="radio"/>
Listen	<input type="radio"/>	<input type="radio"/>
Manage	<input type="radio"/>	<input type="radio"/>

Answer: <

map><m x1="239" x2="272" y1="160" y2="192" ss="0" a="0" /><m x1="390" x2="425" y1="212" y2="242" ss="0" a="0" /></map>

Answer Area

Access Level	Queues	Subscriptions
Send	<input type="radio"/>	<input type="radio"/>
Listen	<input checked="" type="radio"/>	<input type="radio"/>
Manage	<input type="radio"/>	<input checked="" type="radio"/>

For Service Bus, the three permission claims are 'Send' for all send operations, 'Listen' to open up listeners or receive messages, and 'Manage' to observe or manage the state of the Service Bus tenant.

Reference:

Service Bus Authentication and Authorization with the Access Control Service
 URL: <http://msdn.microsoft.com/en-us/library/azure/hh403962.aspx>

QUESTION NO: 2

Your network includes a legacy application named LegacyApp1. The application only runs in the Microsoft .NET 3.5 Framework on Windows Server 2008. You plan to deploy to Azure Cloud Services. You need to ensure that LegacyApp1 will run correctly in the new environment. What are two possible ways to achieve this goal? Each correct answer presents a complete solution.

- A. Upload a VHD with Windows Server 2008 installed.
- B. Deploy LegacyApp1 to a cloud service instance configured with Guest OS Family 2.
- C. Deploy LegacyApp1 to a cloud service instance configured with Guest OS Family 1.
- D. Deploy LegacyApp1 to a cloud service instance configured with Guest OS Family 3.

Answer: BC

Guest OS Family 1 and Guest OS Family 2 supports .NET 3.5 and .Net 4.0.
 Guest OS Family 3 and Guest OS Family 4 supports .NET 4.0 and .Net 4.5.

Reference:

Azure Guest OS Releases and SDK Compatibility Matrix

URL: <http://msdn.microsoft.com/en-us/library/azure/ee924680.aspx>

QUESTION NO: 3 DRAG DROP

You administer a cloud service named contosoapp that has a web role and worker role. Contosoapp requires you to perform an in-place upgrade to the service. You need to ensure that at least six worker role instances and eight web role instances are available when you apply upgrades to the service. You also need to ensure that updates are completed for all instances by using the least amount of time. Which value should you use with each configuration? To answer, drag the appropriate value to the correct configuration. 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.

Values	Configuration
1	Web role instances <input type="text" value="Value"/>
3	
4	Worker role instances <input type="text" value="Value"/>
6	
8	Upgrade domains <input type="text" value="Value"/>
9	
12	

Answer: <

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```
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```

ConfigurationWeb role instances Worker role instances Upgrade domains *** Scenario:**

You need to ensure that at least six worker role instances and eight web role instances are available when you apply upgrades to the service.

* You can decide whether you want to update all of the roles in your service or a single role in the service. In either case, all instances of each role that is being upgraded and belong to the first upgrade domain are stopped, upgraded, and brought back online. Once they are back online, the instances in the second upgrade domain are stopped, upgraded, and brought back online.

Reference:

Update an Azure Service

URL: <http://msdn.microsoft.com/en-us/library/azure/hh472157.aspx#proceed>**QUESTION NO: 4**

You migrate a Windows Server .NET web application to Azure Cloud Services.

You need enable trace logging for the application.

Which two actions should you perform? Each correct answer presents part of the solution.

- A. Update the service definition file.
- B. Update the Azure diagnostics configuration.
- C. Update the service configuration file.
- D. Enable verbose monitoring.

E. Update the application web.config file.

Answer: AB

You can use Azure logging right out of the box—it's part of Azure SDK.

A: Azure Service Definition Schema (.csdef File)

The service definition file defines the service model for an application. The file contains the definitions for the roles that are available to a cloud service, specifies the service endpoints, and establishes configuration settings for the service.

B: Take Control of Logging and Tracing in Microsoft Azure

The Microsoft.WindowsAzure.Diagnostics namespace, which inherits from and extends standard System.Diagnostics classes, enables the use of System.Diagnostics as a logging framework in Azure environment.

URLs:

<http://msdn.microsoft.com/en-us/library/azure/ee758711.aspx>

<http://msdn.microsoft.com/en-us/magazine/ff714589.aspx>

QUESTION NO: 5

You manage a cloud service that is running in two small instances. The cloud service hosts a help desk application. The application utilizes a virtual network connection to synchronize data to the company's internal accounting system. You need to reduce the amount of time required for data synchronization. What should you do?

- A. Configure the servers as large instances and re-deploy.
- B. Increase the instance count to three.
- C. Deploy the application to Azure Web Sites.
- D. Increase the processors allocated to the instances.

Answer: A

Reference:

Virtual Machine and Cloud Service Sizes for Azure

URL : <http://msdn.microsoft.com/en-us/library/azure/dn197896.aspx>

QUESTION NO: 6

You manage a cloud service that has a web application named WebRole1. WebRole1 writes error messages to the Windows Event Log.

Users report receiving an error page with the following message: "Event 26 has occurred. Contact your system administrator."

You need to access the WebRole1 event log.

Which three actions should you perform? Each correct answer presents part of the solution.

- A. Enable verbose monitoring.
- B. Update the WebRole1 web.config file.
- C. Update the cloud service definition file and the service configuration file.
- D. Run the Set-AzureVM.DiagnosticsExtension PowerShell cmdlet.
- E. Run the Enable-AzureWebsiteApplicationDiagnostic PowerShell cmdlet.
- F. Create a storage account.

Answer: ACF

AF: You can monitor key performance metrics for your cloud services in the Azure Management Portal. You can set the level of monitoring to minimal and verbose for each service role, and can customize the monitoring displays. Verbose monitoring data is stored in a storage account, which you can access outside the portal.

C:

* The service configuration file specifies the number of role instances to deploy for each role in the service, the values of any configuration settings, and the thumbprints for any certificates associated with a role. If the service is part of a Virtual Network, configuration information for the network must be provided in the service configuration file, as well as in the virtual networking configuration file. The default extension for the service configuration file is .cscfg.

* The service definition file defines the service model for an application. The file contains the definitions for the roles that are available to a cloud service, specifies the service endpoints, and establishes configuration settings for the service.

URLs:

<http://azure.microsoft.com/en-us/documentation/articles/cloud-services-how-to-monitor/>
<http://msdn.microsoft.com/en-us/library/azure/ee758710.aspx>
<http://msdn.microsoft.com/en-us/library/azure/ee758711.aspx>

QUESTION NO: 7 DRAG DROP

You manage an application hosted on cloud services. The development team creates a new version of the application. The updated application has been packaged and stored in an Azure Storage account.

You have the following requirements:

Deploy the latest version of the application to production with the least amount of downtime.

Ensure that the updated application can be tested prior to deploying to the Production site.

Ensure that the original version of the application can be restored until the new version is verified.

Which four steps 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.

Action	Answer Area
Deploy the new package to the Staging slot.	
Create a new cloud service.	
Provide the URL to the development team.	
Deallocate the Staging deployment.	
Deploy the new package to the Production slot.	
Perform VIP Swap.	

Answer:

```
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x2="295" y1="205" y2="245" ss="0" a="0" /><m x1="13" x2="296" y1="257" y2="298" ss="0" a="0"
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ss="1" a="0" /><m x1="311" x2="609" y1="92" y2="145" ss="1" a="0" /><m x1="312" x2="612"
y1="164" y2="223" ss="1" a="0" /><m x1="312" x2="609" y1="237" y2="305" ss="1" a="0" /><c
start="1" stop="0" /><c start="2" stop="1" /><c start="0" stop="2" /><c start="5" stop="3"
/></map>
```

Box 1: Create a new cloud service.

Box 2: Provide the URL to the development team.

Box 3: Deploy the new package to the Staging slot.

Box 4: Perform VIP SWAP

* Cloud Services provides more control and improved access to service instances than the Azure Web Sites feature, with a cost for each role approximately the same as when using Web Sites Reserved mode. Applications can be staged for final testing before release.

* Azure Cloud Services provides both a staging and a production area for roles you deploy; you can deploy an application to either a staging or a production environment within the same Cloud Service. A common scenario is to deploy first to the staging environment and then, at the appropriate time, move the new version to the production environment. The only difference is in the URL you use to access them.

* The operations staff can deploy a new version of the application to the staging deployment slot, perform some final tests, and then swap the production and staging slots to make the new version of the application available to users.

Reference:

Moving to Microsoft Azure Cloud Services

URL: <http://msdn.microsoft.com/en-us/library/ff803371.aspx>

QUESTION NO: 8

You manage a cloud service that utilizes data encryption.

You need to ensure that the certificate used to encrypt data can be accessed by the cloud service application.

What should you do?

- A. Upload the certificate referenced in the application package.
- B. Deploy the certificate as part of the application package.
- C. Upload the certificate's public key referenced in the application package.
- D. Use RDP to install the certificate.

Answer: C

The developer must deploy the public key with their application so that, when Windows Azure spins up role instances, it will match up the thumbprint in the service definition with the uploaded service certificate and deploy the private key to the role instance. The private key is intentionally non-exportable to the .pfx format, so you won't be able to grab the private key through an RDC connection into a role instance.

Reference:

Field Note: Using Certificate-Based Encryption in Windows Azure Applications

QUESTION NO: 9

You administer a Windows Server virtual machine (VM).

You upload the VM to Azure.

You need to ensure that you are able to deploy the BGInfo and VMAccess extensions.

What should you do?

- A. Select the Install the VM Agent checkbox while provisioning a VM based on your uploaded VHD.
- B. Select the Enable the VM Extensions checkbox while provisioning a VM based on your uploaded VHD.
- C. Install the VM Agent MSI and execute the following Power Shell commands:
\$vm = Get-AzureVM -serviceName \$svc -Name \$name
\$vm.VM.ProvisionGuestAgent = \$true
Update-AzureVM -Name \$name -VM \$vm.VM -ServiceName \$svc
- D. Install the VM Agent MSI and execute the following Power Shell commands:

```
$vm = Get-AzureVM -serviceName $svc -Name $name  
Set-AzureVMBGInfoExtension -VM $vm.VM  
Set-AzureVM Access Extension -VM $vm.VM  
Update-AzureVM -Name $name -VM $vm.VM -ServiceName $svc
```

Answer: C

The VM Agent can be enabled by manually downloading and installing the VM Agent (either the Windows or Linux version) on an existing VM instance and then setting the ProvisionGuestAgent value to true using Powershell or a REST call. (If you do not set this value after manually installing the VM Agent, the addition of the VM Agent is not detected properly.) The following code example shows how to do this using PowerShell where the \$svc and \$name arguments have already been determined.

```
$vm = Get-AzureVM -serviceName $svc -Name $name  
$vm.VM.ProvisionGuestAgent = $TRUE  
Update-AzureVM -Name $name -VM $vm.VM -ServiceName $svc
```

Reference:

VM Agent and VM Extensions Overview

QUESTION NO: 10

**You manage a cloud service that supports features hosted by two instances of an Azure virtual machine (VM).
You discover that occasional outages cause your service to fail.
You need to minimize the impact of outages to your cloud service.
Which two actions should you perform? Each correct answer presents part of the solution.**

- A. Deploy a third instance of the VM.
- B. Configure Load Balancing on the VMs.
- C. Redeploy the VMs to belong to an Affinity Group.
- D. Configure the VMs to belong to an Availability Set.

Answer: BD

Adding your virtual machine to an availability set helps your application stay available during network failures, local disk hardware failures, and any planned downtime.

Combine the Azure Load Balancer with an Availability Set to get the most application resiliency. The Azure Load Balancer distributes traffic between multiple virtual machines.

Incorrect

Not C: Affinity groups allow you to optimize performance by grouping the services that need to work together in the same data center.

Reference:

Manage the availability of virtual machines, Understand planned versus unplanned maintenance

QUESTION NO: 11

You administer an Azure subscription with an existing cloud service named contosocloudservice. Contosocloudservice contains a set of related virtual machines (VMs) named ContosoDC, ContosoSQL and ContosoWeb1.

You want to provision a new VM within contosocloudservice.

You need to use the latest gallery image to create a new Windows Server 2012 R2 VM that has a target IOPS of 500 for any provisioned disks.

Which PowerShell command should you use?

- A. `PS C:\> $image = (Get-AzureVMImage | ? { $_.OS -eq "Windows" -and $_.ImageFamily -eq "Windows Server 2012 R2 Datacenter" } | Sort-Object PublishDate -Descending | Select-Object -First 1).ImageName
PS C:\> New-AzureVMConfig -Name "ContosoWeb2" -InstanceSize Small -ImageName $image | Add-AzureProvisioningConfig -Windows -AdminUser $adminUser -Password $adminPassword | New-AzureVM`
- B. `PS C:\> $image = (Get-AzureVMImage | ? { $_.OS -eq "Windows" -and $_.ImageFamily -eq "Windows Server 2012 R2 Datacenter" } | Sort-Object PublishDate -Descending | Select-Object -First 1).ImageName
PS C:\> New-AzureVMConfig -Name "ContosoWeb2" -InstanceSize Basic_A1 -ImageName $image | Add-AzureProvisioningConfig -Windows -AdminUser $adminUser -Password $adminPassword | New-AzureVM -ServiceName "contosocloudservice"`
- C. `PS C:\> New-AzureQuickVM -Windows -ServiceName "contosocloudservice" -Name "ContosoWeb2" -ImageName (Get-AzureVMImage | ? { $_.OS -eq "Windows" -and $_.ImageFamily -eq "Windows Server 2012 R2 Datacenter" }).ImageName | ? { $ - Password $adminPasswd -InstanceSize Small`
- D. `PS C:\> $image = (Get-AzureVMImage | ? { $_.OS -eq "Windows" -and $_.ImageFamily -eq "Windows Server 2012 R2 Datacenter" } | Sort-Object PublishDate -Descending | Select-Object -First 1).ImageName
PS C:\> New-AzureQuickVM -Windows -ServiceName "contosocloudservice" -Name "ContosoWeb2" -ImageName $image - Password $adminPasswd -InstanceSize Small`

- A. Option A
B. Option B
C. Option C
D. Option D

Answer: A

This example creates a new Windows virtual machine configuration with operating system disk, data disk and provisioning configuration. This configuration is then used to create a new virtual machine.

```
C:\PS> $image = (Get-AzureVMImage)[4].ImageName
C:\PS>New-AzureVMConfig -Name "MyVM1" -InstanceSize ExtraSmall -ImageName $image ` | Add-
AzureProvisioningConfig -Windows -Password $adminPassword ` | Add-AzureDataDisk -CreateNew -
DiskSizeInGB 50 -DiskLabel 'datadisk1' -LUN 0 ` | New-AzureVM -ServiceName "MySvc1"
```

Reference:

New-AzureVMConfig

URL: <http://msdn.microsoft.com/en-us/library/dn495159.aspx>

QUESTION NO: 12 DRAG DROP

You administer an Azure Virtual Machine (VM) named server1. The VM is in a cloud service named ContosoService1.

You discover that the VM is experiencing storage issues due to increased application logging on the server.

You need to create a new 256-GB disk and attach it to the server.

Which PowerShell cmdlets should you use? To answer, drag the appropriate cmdlet to the correct location in the PowerShell command. Each cmdlet 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.

PowerShell cmdlets	PowerShell command
Add-AzureDisk	C:\PS> PowerShell Command "ContosoService1"
Add-AzureDataDisk	-Name "server1" PowerShell Command -CreateNew -DiskSizeInGB 256
Add-AzureVhd	-DiskLabel "data1" -LUN 1 PowerShell Command
Get-AzureVM	
Get-AzureVMImage	
Update-AzureVM	
Update-AzureVMImage	

```
map><m x1="22" x2="200" y1="52" y2="84" ss="0" a="0" /><m x1="23"
x2="198" y1="95" y2="125" ss="0" a="0" /><m x1="22" x2="201" y1="139"
y2="169" ss="0" a="0" /><m x1="21" x2="199" y1="181" y2="215" ss="0" a="0" /><m x1="21"
x2="199" y1="223" y2="254" ss="0" a="0" /><m x1="20" x2="200" y1="268" y2="298" ss="0" a="0"
/><m x1="21" x2="201" y1="310" y2="338" ss="0" a="0" /><m x1="287" x2="464" y1="33" y2="63"
ss="1" a="0" /><m x1="357" x2="536" y1="73" y2="104" ss="1" a="0" /><m x1="417" x2="592"
y1="113" y2="147" ss="1" a="0" /><c start="3" stop="0" /><c start="1" stop="1" /><c start="5"
stop="2" /></map>
```

Answer: <

PowerShell command

```
C:\PS> Get-AzureVM "ContosoService1"
-Name "server1" | Add-AzureDataDisk -CreateNew -DiskSizeInGB 256
-DiskLabel "data1" -LUN 1 | Update-AzureVM
```

This example gets a virtual machine object for the virtual machine named “MyVM” in the “myservice” cloud service, updates the virtual machine object by attaching an existing data disk from the repository using the disk name, and then updates the Azure virtual machine.

Windows PowerShell

```
C:\PS>Get-AzureVM "myservice" -Name "MyVM" `| Add-AzureDataDisk -Import -DiskName "MyExistingDisk" -LUN 0 `| Update-AzureVM
```

Reference:

Add-AzureDataDisk

URL: <http://msdn.microsoft.com/en-us/library/dn495298.aspx>

QUESTION NO: 13

Your company has two cloud services named CS01 and CS02. You create a virtual machine (VM) in CS02 named Accounts.

You need to ensure that users in CS01 can access the Accounts VM by using port 8080.

What should you do?

- A. Create a firewall rule.
- B. Configure load balancing.
- C. Configure port redirection.
- D. Configure port forwarding.
- E. Create an end point.

Answer: E

All virtual machines that you create in Azure can automatically communicate using a private network channel with other virtual machines in the same cloud service or virtual network. However, other resources on the Internet or other virtual networks require endpoints to handle the inbound network traffic to the virtual machine.

Reference:

How to Set Up Endpoints to a Virtual Machine

URL: <http://azure.microsoft.com/en-us/documentation/articles/virtual-machines-set-up-endpoints/>

QUESTION NO: 14

You administer a solution deployed to a virtual machine (VM) in Azure. The VM hosts a web service that is used by several applications. You are located in the US West region and have a worldwide user base.

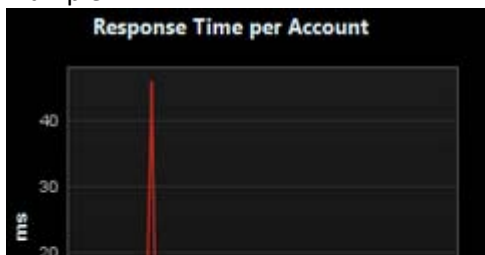
Developers in Asia report that they experience significant delays when they execute the services.

You need to verify application performance from different locations.

Which type of monitoring should you configure?

- A. Disk Read
- B. Endpoint
- C. Network Out
- D. CPU
- E. Average Response Time

Example:



Answer: E

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