# 70-534

**Architecting Microsoft Azure Solutions**

**Exam A**

**QUESTION 1**
Drag and Drop Question
You need to recommend data storage mechanisms for the solution.
What should you recommend? To answer, drag the appropriate data storage mechanism to the correct information type. Each data storage mechanism 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.

**Select and Place:**

| Table storage |
| --- |

| Blob storage |
| --- |

| Queue storage |
| --- |

| MySQL |
| --- |

| Information Type | Data Storage Mechanism |
| --- | --- |
| Contractor information | Data Storage Mechnism |
| Project images | Data Storage Mechnism |

**Correct Answer:**

| Information Type | Data Storage Mechanism |
|---|---|
| Contractor information | Table storage |
| Project images | Blob storage |

Queue storage

MySQL

**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 2**
Hotspot Question
You need to design the contractor information app.
What should you recommend? To answer, select the appropriate options in the answer area.

**Hot Area:**

You must authenticate employees to the contractor information app.

| Azure Password Sync |
| Azure Mobile Services |
| Azure Active Directory |
| Azure Active Directory Syr |

You must synchronize data with the contractor information app.

| Azure Password Sync |
| Azure Mobile Services |
| Azure Active Directory |
| Azure Active Directory Sy |

**Correct Answer:**

You must authenticate employees to the contractor information app.

| |
|---|
| Azure Password Sync |
| Azure Mobile Services |
| Azure Active Directory |
| Azure Active Directory Syr |

You must synchronize data with the contractor information app.

| |
|---|
| Azure Password Sync |
| Azure Mobile Services |
| Azure Active Directory |
| Azure Active Directory Sy |

**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 3**
You need to ensure that users do not need to re-enter their passwords after they authenticate to cloud applications for the first time.
What should you do?

A.  Enable Microsoft Account authentication
B.  Set up a virtual private network (VPN) connection between the VanArsdel premises and
    Azure datacenter.
    Set up a Windows Active Directory domain controller in Azure VM.

Implement Integrated Windows authentication.

C. Deploy ExpressRoute

D. Configure Azure Active Directory Sync to use single sign-on (SSO).

**Correct Answer:** D
**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 4**
You are designing an Azure web application.
The solution will be used by multiple customers.
Each customer has different business logic and user interface requirements.
Not all customers use the same version of the .NET runtime.
You need to recommend a deployment strategy.
What should you recommend?

A. Deploy with multiple web role instances.

B. Deploy each application in a separate tenant.

C. Deploy all applications in one tenant.

D. Deploy with multiple worker role instances.

**Correct Answer:** B
**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 5**
You design an Azure application that processes images.
The maximum size of an image is 10 MB.
The application includes a web role that allows users to upload images and a worker role with multiple instances that processes the images.
The web role communicates with the worker role by using an Azure Queue service.
You need to recommend an approach for storing images that minimizes storage transactions.
What should you recommend?

A.  Store images in Azure Blob service.
    Store references to the images in the queue.
B.  Store images in the queue.
C.  Store images in OneDrive attached to the worker role instances.
    Store references to the images in the queue.
D.  Store images in local storage on the web role instance.
    Store references to the images in the queue.

**Correct Answer:** A
**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 6**
You are designing an Azure application.
The application includes two web roles and three instances of a worker role.
The web roles send requests to the worker role by using one or more Azure Queues.
You need to recommend a queue design for sending requests to the worker role.
What should you recommend?

A.  Create a queue for each combination of web roles and worker role instances.
    Send requests to all worker role instances based on the sending web role.
B.  Create a single queue.
    Send all requests on the single queue.
C.  Create a queue for each worker role instance.
    Send requests on each worker queue by using a round robin rotation.
D.  Create a queue for each web role.
    Send requests on all queues at the same time.

**Correct Answer:** B

**QUESTION 7**
You are designing an Azure application that will use a worker role.
The worker role will create temporary files.
You need to minimize storage transaction charges.
Where should you create the files?

A. In Azure local storage
B. In Azure Storage page blobs
C. On an Azure Drive
D. In Azure Storage block blobs

**Correct Answer:** A

**QUESTION 8**
You are designing an Azure web application.
The application uses one worker role.
It does not use SQL Database.
You have the following requirements:
- Maximize throughput and system resource availability
- Minimize downtime during scaling
You need to recommend an approach for scaling the application.
Which approach should you recommend?

A. Increase the role instance size.
B. Set up horizontal partitioning
C. Increase the number of role instances
D. Set up vertical partitioning

**Correct Answer:** C

**QUESTION 9**
You are evaluating an Azure application.
The application includes the following elements:
- A web role that provides the ASP.NET user interface and business logic
- A single SQL database that contains all application data
Each webpage must receive data from the business logic layer before returning results to the client. Traffic has increased significantly.
The business logic is causing high CPU usage.
You need to recommend an approach for scaling the application.
What should you recommend?

A. Store the business logic results in Azure Table storage.

B. Vertically partition the SQL database

C. Move the business logic to a worker role.

D. Store the business logic results in Azure local storage.

**Correct Answer:** C

**QUESTION 10**
You are planning an upgrade strategy for an existing Azure application.
Multiple instances of the application run in Azure.
The management team is concerned about application downtime, due to a business service level agreement (SLA).
You are evaluating which change in your environment will require downtime.
You need to identify the changes to the environment that will force downtime.
Which change always requires downtime?

A. Adding an HTTPS endpoint to a web role

B. Upgrading the hosted service by deploying a new package

C. Changing the value of a configuration setting

D. Changing the virtual machine size

**Correct Answer:** A
**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 11**
You are designing an Azure application that processes graphical image files.
The graphical Images are processed in batches by remote applications that run on multiple servers.
You have the following requirements:
- The application must remain operational during batch-processing operations.
- Users must be able to roll back each image to a previous version.
You need to ensure that each remote application has exclusive access to an image while the application processes the image.
Which type of storage should you use to store the images?

A. Table service
B. Queue service
C. Blob service
D. A single Azure VHD that is attached to the web role

**Correct Answer:** C
**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 12**
You are designing an Azure application that stores data.
You have the following requirements:

- The data storage system must support storing more than 500 GB of data.
- Data retrieval must be possible from a large number of parallel threads.
- Threads must not block each other.
You need to recommend an approach for storing data.
What should you recommend?

A. Azure Notification Hubs

B. A single SQL database in Azure

C. Azure Queue storage

D. Azure Table storage

**Correct Answer:** D
**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 13**
You are designing a Windows Azure application.
The application includes processes that communicate by using Windows Communications
Foundation (WCF) services.
The WCF services must support streaming.
You need to recommend a host for the processes and a WCF binding.
Which two actions should you recommend?
(Each correct answer presents part of the solution. Choose two.)

A. Host the processes in web roles.

B. Host the processes in worker roles.

C. Use NetTcpBinding for the WCF services.

D. Use WSHttpBinding for the WCF services.

**Correct Answer:** BC
**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 14**

You are designing a Windows Azure application.
Messages will be placed into a Windows Azure Queue and then processed by a worker role. There is no requirement for adherence to the Windows Azure Service Level Agreement (SLA). You need to recommend an approach for concurrently processing messages while minimizing compute cost.
What should you recommend?

A.  A single role instance that processes messages individually

B.  A single role instance with multithreaded request processing

C.  Multiple role instances that process messages individually

D.  Multiple role instances, each with multithreaded request processing

**Correct Answer:** B
**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 15**
You are designing a Windows Azure application that will use a worker role.
The worker role will create temporary files.
You need to recommend an approach for creating the temporary files that minimizes storage transactions.
What should you recommend?

A.  Create the files on a Windows Azure Drive.

B.  Create the files in Windows Azure local storage.

C.  Create the files in Windows Azure Storage page blobs.

D.  Create the files in Windows Azure Storage block blobs.

**Correct Answer:** B
**Section: (none)**
**Explanation**

**Explanation/Reference:**

**Exam B**

**QUESTION 1**
Hotspot Question
You have an Azure website that runs on several instances.
You have a WebJob that provides additional functionality to the website.
The WebJob must run on all instances of the website.
You need to ensure that the WebJob runs even when the website is idle for long periods of time. How should you create and configure the WebJob object? To answer, select the appropriate options in the answer area.

**Hot Area:**

| Requirement | Action |
|---|---|
| Create the WebJob object | Create the WebJob as a scheduled task. |
|  | Create the WebJob as an on-demand task. |
|  | Create the WebJob as a continuously running tas |
| Configure the WebJob object | Enable AlwaysOn for the website. |
|  | Enable AlwaysOn for the database. |
|  | Configure the WebJob to run continuously. |

**Correct Answer:**

| Requirement | Action |
|---|---|
| Create the WebJob object | Create the WebJob as a scheduled task.<br>Create the WebJob as an on-demand task.<br>**Create the WebJob as a continuously running tas** |
| Configure the WebJob object | **Enable AlwaysOn for the website.**<br>Enable AlwaysOn for the database.<br>Configure the WebJob to run continuously. |

**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 2**
Drag and Drop Question
You have a website that displays text, pictures, video files, and audio files.

The website processes requests from countries and regions all over the world.
You plan to migrate the website to the Azure platform.
The website has the following requirements:
- Encode, store, and stream audio and video at scale.
- Load-balance communications with the website instance that is closest to the user's location.
- Deliver content with high-bandwidth and low latency.
You need to recommend the technologies to implement the solution.
Which technologies should you recommend? To answer, drag the appropriate technology to the correct requirement. Each technology 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.

**Select and Place:**

## Technologies

TrafficManager

MediaServices

Multifactor Authentication

Service Bus

Azure Active Directory

Azure Content Delivery Network

Windows Network Load Balancing

Azure Blob Service

## Answer Area

| Requirement | Technology |
| --- | --- |
| Encode media | Technology |
| Load-balanced communication | Technology |
| Deliver content | Technology |

**Correct Answer:**

## Technologies

| Technologies |
|---|
| |
| |
| Multifactor Authentication |
| Service Bus |
| Azure Active Directory |
| |
| Windows Network Load Balancing |
| Azure Blob Service |

## Answer Area

| Requirement | Technology |
|---|---|
| Encode media | MediaServices |
| Load-balanced communication | TrafficManager |
| Deliver content | Azure Content Delivery Network |

**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 3**
Drag and Drop Question
You need to automate tasks with Azure by using Azure PowerShell workflows.
How should you complete the Azure PowerShell script? To answer, drag the appropriate cmdlet to the correct location. 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.

**Select and Place:**

## Azure PowerShell cmdlets

| Checkpoint-Workflow |
| --- |

| New-AzureAutomationRunbook |

| Get-AutomationVariable |

| Get-AzureAutomationRunbook |

| Write-Output "Runbook Complete" |

## Answer Area

```
workflow Use-WorkflowCheckpointSample
{
    Set-AutomationVariable -Name 'HasBeenSuspended' -Value $False
    Write-Output "Before Checkpoint"
```

    [ Azure PowerShell cmdlet ]

```
    Write-Output "After Checkpoint"

    $HasBeenSuspended = `
```

    [ Azure PowerShell cmdlet ] -Name 'HasBeenSusp

```
    if (!$HasBeenSuspended) {
        Set-AutomationVariable -Name 'HasBeenSuspended' -Value $True
        1 + "abc"
    }
```

    [ Azure PowerShell cmdlet ]

```
}
```

**Correct Answer:**

**Azure PowerShell cmdlets**

[ ]

| New-AzureAutomationRunbook |

[ ]

| Get-AzureAutomationRunbook |

[ ]

**Answer Area**

workflow Use-WorkflowCheckpointSample
{
Set-AutomationVariable -Name 'HasBeenSuspended' -Value $False
Write-Output "Before Checkpoint"

> **Checkpoint-Workflow**

Write-Output "After Checkpoint"

$HasBeenSuspended = `

> **Get-AutomationVariable**         -Name 'HasBeenSusp
if (!$HasBeenSuspended) {
  Set-AutomationVariable -Name 'HasBeenSuspended' -Value $True
  1 + "abc"
}

> Write-Output "Runbook Complete"

}

**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 4**

Hotspot Question

A company uses Azure for several virtual machine (VM) and website workloads.
The company plans to assign administrative roles to a specific group of users.
You have a resource group named GROUP1 and a virtual machine named VM2.
The users have the following responsibilities:

| User | Responsibility |
|------|----------------|
| Admin1 | Control access to VM2. |
| Admin2 | Prepare reports with billing and usage information. |
| Admin3 | Maintain all resources in the GROUP1 resource group. |

You need to assign the appropriate level of privileges to each of the administrators by using the principle of least privilege.
What should you do? To answer, select the appropriate target objects and permission levels in the answer area.

**Point and Shoot:**

**Answer Area**

| Administrator Name | Target Object | Permission Level |
|---|---|---|
| Admin1 | VM2<br>GROUP1<br>SUBSCRIPTION | Reader<br>Owner<br>Contributor |
| Admin2 | VM2<br>GROUP1<br>SUBSCRIPTION | Reader<br>Owner<br>Contributor |
| Admin3 | VM2<br>GROUP1<br>SUBSCRIPTION | Reader<br>Owner<br>Contributor |

**Correct Answer:**

**Answer Area**

| Administrator Name | Target Object | Permission Level |
|---|---|---|
| Admin1 | VM2 / GROUP1 / SUBSCRIPTION | Reader / Owner / Contributor |
| Admin2 | VM2 / GROUP1 / SUBSCRIPTION | Reader / Owner / Contributor |
| Admin3 | VM2 / GROUP1 / SUBSCRIPTION | Reader / Owner / Contributor |

**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 5**
Hotspot Question
A company uses Azure for several virtual machine (VM) and website workloads.
The company plans to assign administrative roles to a specific group of users.
You have a resource group named GROUP1 and a virtual machine named VM2.
The users have the following responsibilities:

| User | Responsibility |
| --- | --- |
| Admin1 | Control access to VM2. |
| Admin2 | Prepare reports with billing and usage information. |
| Admin3 | Maintain all resources in the GROUP1 resource group. |

You need to assign the appropriate level of privileges to each of the administrators by using the principle of least privilege.
What should you do? To answer, select the appropriate target objects and permission levels in the answer area.

**Hot Area:**

**Answer Area**

| Administrator Name | Target Object | Permission Level |
|---|---|---|
| Admin1 | VM2 / GROUP1 / SUBSCRIPTION | Reader / Owner / Contributor |
| Admin2 | VM2 / GROUP1 / SUBSCRIPTION | Reader / Owner / Contributor |
| Admin3 | VM2 / GROUP1 / SUBSCRIPTION | Reader / Owner / Contributor |

**Correct Answer:**

## Answer Area

| Administrator Name | Target Object | Permission Level |
|---|---|---|
| Admin1 | VM2 / GROUP1 / SUBSCRIPTION | Reader / Owner / Contributor |
| Admin2 | VM2 / GROUP1 / SUBSCRIPTION | Reader / Owner / Contributor |
| Admin3 | VM2 / GROUP1 / SUBSCRIPTION | Reader / Owner / Contributor |

**QUESTION 6**
You have business services that run on an on-premises mainframe server.
You must provide an intermediary configuration to support existing business services and Azure. The business services cannot be rewritten.
The business services are not exposed externally.
You need to recommend an approach for accessing the business services.
What should you recommend?

A.  Connect to the on-premises server by using a custom service in Azure.

B.  Expose the business services to the Azure Service Bus by using a custom service that uses
    relay binding

C.  Expose the business services externally.

D.  Move all business service functionality to Azure

**Correct Answer:** B

**QUESTION 7**
You design an Azure web application.
The web application is accessible by default as a standard cloudapp.net URL.
You need to recommend a DNS resource record type that will allow you to configure access to the web application by using a custom domain name.
Which DNS record type should you recommend?

A.  SRV

B.  MX

C.  CNAME

D.  A

**Correct Answer:** C

**Explanation**

**Explanation/Reference:**

**QUESTION 8**
A company hosts a website and exposes web services on the company intranet.
The intranet is secured by using a firewall. Company policies prohibit changes to firewall rules.
Devices outside the firewall must be able to access the web services.
You need to recommend an approach to enable inbound communication.
What should you recommend?

A. The Azure Access Control Service
B. Windows Azure Pack
C. The Azure Service Bus
D. A web service in an Azure role that relays data to the internal web services

**Correct Answer:** C
**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 9**
You are designing an Azure application.
The application includes services hosted in different geographic locations.
The service locations may change.
You must minimize the cost of communication between services.
You need to recommend an approach for data transmission between your application and Azure services.
The solution must minimize administrative effort.
What should you recommend?

A. Azure Table storage
B. Service Bus
C. Service Management API
D. Azure Queue storage

**Correct Answer:** B
**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 10**
You are designing a distributed application for Azure.
The application must securely integrate with on-premises servers.
You need to recommend a method of enabling Internet Protocol security (IPsec)-protected connections between on-premises servers and the distributed application.
What should you recommend?

A.  Azure Access Control
B.  Azure Content Delivery Network (CDN)
C.  Azure Service Bus
D.  Azure Site-to-Site VPN

**Correct Answer:** D
**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 11**
A company has 10 on-premises SQL databases.
The company plans to move the databases to SQL Server 2012 that runs in Azure Infrastructure-as-a-Service (IaaS).
After migration, the databases will support a limited number of Azure websites in the same Azure Virtual Network.
You have the following requirements:
- You must restore copies of existing on-premises SQL databases to the SQL servers that run in Azure IaaS.
- You must be able to manage the SQL databases remotely.
- You must not open a direct connection from all of the machines on the on-premises network to Azure.
- Connections to the databases must originate from only five Windows computers.
- You need to configure remote connectivity to the databases.
Which technology solution should you implement?

A.  Azure Virtual Network site-to-site VPN
B.  Azure Virtual Network multi-point VPN
C.  Azure Virtual Network point-to-site VPN
D.  Azure ExpressRoute

**Correct Answer:** C
**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 12**
You have several virtual machines (VMs) that run in Azure.
You also have a single System Center 2012 R2 Configuration Manager (SCCM) primary site on-premises.
You have the following requirements:
- All VMs must run on the same virtual network.
- Network traffic must be minimized between the on-premises datacenter and Azure.
- The solution minimize complexity.
You need to use SCCM to collect inventory and deploy software to Azure VMs.
What should you do first?

A. Configure client push for the Azure virtual network.
B. Enable and configure Operations Insights in Azure
C. Install a cloud distribution point on an Azure VM.
D. Install a secondary site underneath the primary site onto an Azure VM.

**Correct Answer:** C
**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 13**
You are running a Linux guest in Azure Infrastructure-as-a-Service (IaaS).

You must run a daily maintenance task.
The maintenance task requires native BASH commands.
You need to configure Azure Automation to perform this task.
Which three actions should you perform? Each correct answer presents part of the solution.

A. Create an automation account.
B. Create an Orchestrator runbook
C. Create an asset credential
D. Run the Invoke-Workflow Azure PowerShell cmdlet.
E. Import the SSH PowerShell Module.

**Correct Answer:** ACE
**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 14**
A company has multiple Azure subscriptions.
It plans to deploy a large number of virtual machines (VMs) into Azure.
You install the Azure PowerShell module, but you are unable connect to all of the company's Azure subscriptions.
You need to automate the management of the Azure subscriptions.
Which two Azure PowerShell cmdlets should you run?

A. Get-AzurePublishSettingsFile
B. Import-AzurePublishSettingsFile
C. Add-AzureSubscription
D. Import-AzureCertificate
E. Get-AzureCertificate

**Correct Answer:** AB
**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 15**

You are designing a Windows Azure application that will use Windows Azure Table storage.
The application will allow teams of users to collaborate on projects.
Each user is a member of only one team.
You have the following requirements:
-Ensure that each user can efficiently query records related to his or her team's projects.
-Minimize data access latency.
You need to recommend an approach for partitioning table storage entities.
What should you recommend?

A.  Partition by user.

B.  Partition by team.

C.  Partition by project.

D.  Partition by the current date.

**Correct Answer:** B
**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 16**
You are designing a Windows Azure application that will store data in two SQL Azure databases. The application will insert data in both databases as part of a single logical operation. You need to recommend an approach for maintaining data consistency across the databases.
What should you recommend?

A.  Execute database calls on parallel threads.

B.  Wrap the database calls in a single transaction scope.

C.  Use Microsoft Distributed Transaction Coordinator (MSDTC).

D.  Handle errors resulting from the database calls by using compensatory logic.

**Correct Answer:** D
**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 17**
You are designing a Windows Azure application.

The application includes two web roles and three instances of a worker role.
The web roles will send requests to the worker role through one or more Windows Azure Queues.
You have the following requirements:
```
-Ensure that each request is processed exactly one time.
-Minimize the idle time of each worker role instance.
-Maximize the reliability of request processing.
```
You need to recommend a queue design for sending requests to the worker role.
What should you recommend?

A. Create a single queue.
   Send requests on the single queue.

B. Create a queue for each web role.
   Send requests on all queues at the same time.

C. Create a queue for each worker role instance.
   Send requests on each worker queue in a round robin.

D. Create a queue for each combination of web roles and worker role instances.
   Send requests to all worker role instances based on the sending web role.

**Correct Answer:** A
**Section: (none)**
**Explanation**

**Explanation/Reference:**

**Exam C**

**QUESTION 1**
 Hotspot Question
Resources must authenticate to an identity provider.
You need to configure the Azure Access Control service.
What should you recommend? To answer, select the appropriate responses for each requirement in the answer area

**Hot Area:**

## Answer Area

| Action | Requirement |
|---|---|
| You must distribute an authorization token to a client when it authenticates against Windows Live ID. | Distribute an Identity Provider (IDP) token. <br> Distribute an Access Control Service token. <br> Distribute an Application Programming Interface (API <br> ◀ |
| You must integrate an application with the Azure Access Control service. | Use WS-Trust. <br> Use Kerberos. |

**Correct Answer:**

## Answer Area

| Action | Requirement |
|---|---|
| You must distribute an authorization token to a client when it authenticates against Windows Live ID. | Distribute an Identity Provider (IDP) token.<br>Distribute an Access Control Service token.<br>Distribute an Application Programming Interface (API |
| You must integrate an application with the Azure Access Control service. | Use WS-Trust.<br>Use Kerberos. |

**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 2**
Drag and Drop Question
Contoso, Ltd., uses Azure websites for their company portal sites.
Admin users need enough access to effectively perform site monitoring or management tasks. You need to grant admin access to a group of 10 users.
How should you configure the connection? To answer, drag the role or object to the correct connection setting. Each item 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.

**Select and Place:**

## Connection Settings

| Contributor |
| --- |

| Reader |
| --- |

| Website |
| --- |

| Application |
| --- |

| Azure Active Directory |
| --- |

| Active Directory Domain Services |
| --- |

## Answer Area

| Connection Setting | Role or Object |
| --- | --- |
| Role | Connection Setting |
| Resource | Connection Setting |
| Provider | Connection Setting |

**Correct Answer:**

## Connection Settings

| Reader |
| --- |

| Application |

| Active Directory Domain Services |

## Answer Area

| Connection Setting | Role or Object |
| --- | --- |
| Role | Contributor |
| Resource | Website |
| Provider | Azure Active Directory |

**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 3**
Drag and Drop Question
You are migrating Active Directory Domain Services (AD DS) domains to Azure.

You need to recommend the least complex directory synchronization solution.
What should you recommend? To answer, drag the appropriate solution to the correct client requirement. Each solution 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.

**Select and Place:**

## Solutions

| Directory Sync (DirSync) with Password Sync |
| --- |

| Directory Sync (DirSync) with single sign-on (SSO) |
| --- |

| Azure Access Control Service |
| --- |

## Answer Area

| Client requirements | Solution |
| --- | --- |
| Customize the user sign-in page. | Solution |
| Enable users to sign in and access cloud services using their on-premises password. | Solution |
| Ensure user authentications occur in the on-premises Active Directory. | Solution |
| Control password policies from the on-premises Active Directory. | Solution |

**Correct Answer:**

## Solutions

| Client requirements | Solution |
|---|---|
| Customize the user sign-in page. | Azure Access Control Service |
| Enable users to sign in and access cloud services using their on-premises password. | Directory Sync (DirSync) with Password S |
| Ensure user authentications occur in the on-premises Active Directory. | Directory Sync (DirSync) with single sign-on ( |
| Control password policies from the on-premises Active Directory. | Solution |

**Answer Area**

**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 4**
Drag and Drop Question
You have a web application on Azure.
The web application does not employ Secure Sockets Layer (SSL).
You need to enable SSL for your production deployment web application on Azure.
Which four actions 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.

**Select and Place:**

| Actions | Answer Area |
|---|---|
| Upload the deployment package and certificate. | |
| Get an SSL certificate from a certification authority (CA). | |
| Self-sign the SSL certificate. | |
| Modify the service definition and configuration files. | |
| Connect to the role instance by using HTTPS. | |

**Correct Answer:**

## Actions

| |
|---|
| Upload the deployment package and certificate. |
| |
| |
| |

## Answer Area

Get an SSL certificate from a certification authority (CA).

Modify the service definition and configuration files.

Self-sign the SSL certificate.

Connect to the role instance by using HTTPS.

**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 5**
Drag and Drop Question
You need to recommend a test strategy for the disaster recovery system.
What should you do? To answer, drag the appropriate test strategy to the correct business application. Each test strategy 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.

**Select and Place:**

**Test Strategies**

| On-premises to on-premises deployment |
| --- |
| Use Azure's on-premises to Azure deployment |
| Use Azure's built-in cloud redundancy |

**Answer Area**

| Business Application | Test Strategy |
| --- | --- |
| Distribution Tracking | Test Strategy |
| Human Services | Test Strategy |
| Metrics System | Test Strategy |

**Correct Answer:**

**Test Strategies**

| |
| --- |
| |
| |

**Answer Area**

| Business Application | Test Strategy |
| --- | --- |
| Distribution Tracking | Use Azure's on-premises to Azure deployment |
| Human Services | On-premises to on-premises deployment |
| Metrics System | Use Azure's built-in cloud redundancy |

**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 6**
Hotspot Question
You need to plan the business continuity strategy.
For each requirement, what should you recommend? To answer, select the appropriate option from each list in the answer area.

**Hot Area:**

## Answer Area

You must ensure that customer facing data
is replicated geographically.

| |
|---|
| Shard the database horizontally and place each shard in a different datacenter. |
| Create multiple instances of the SQL Database. Replicate the data between the instances. |
| Use SQL Azure's backup feature to create a BACPAC file. Place the file in Blob storage. |
| Replicate the data by using asynchronous replication. |

You must ensure that client connect
to Azure websites that run in the
region closest to them.

| |
|---|
| Use Traffic Manager to route traffic between geographic instances. |
| Configure a local endpoint in the Azure Load Balancer Server. Configure the endpoints to use the same IP ad |
| Assign separate URLs to multiple website instances. Configure DNS records to resolve the URL for each instar |
| Configure the site in an Azure WebSite and configure a WebJob to automate the failover. |

**Correct Answer:**

## Answer Area

You must ensure that customer facing data is replicated geographically.

| ▼ |
| --- |
| Shard the database horizontally and place each shard in a different datacenter. |
| Create multiple instances of the SQL Database. Replicate the data between the instances. |
| Use SQL Azure's backup feature to create a BACPAC file. Place the file in Blob storage. |
| Replicate the data by using asynchronous replication. |

You must ensure that client connect to Azure websites that run in the region closest to them.

| |
| --- |
| Use Traffic Manager to route traffic between geographic instances. |
| Configure a local endpoint in the Azure Load Balancer Server. Configure the endpoints to use the same IP ad |
| Assign separate URLs to multiple website instances. Configure DNS records to resolve the URL for each instar |
| Configure the site in an Azure WebSite and configure a WebJob to automate the failover. |

**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 7**
Drag and Drop Question
You need to ensure that customer data is secured both in transit and at rest.
Which technologies should you recommend? To answer, drag the appropriate technology to the correct security requirement. Each technology 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.

**Select and Place:**

## Technologies

| |
|---|
| Transparent Data Encryption |
| TLS/SSL |
| PGP key |
| Service Bus |
| Azure Rights Management service |
| Azure Import/Export service |

## Answer Area

| Security requirement | Technology |
|---|---|
| Customer connections to the website or from the mobile app | Technology |
| SQL Server data migration for large datasets | Technology |
| Encryption management for data based on key exchanges between servers | Technology |

**Correct Answer:**

## Technologies

| |
|---|
| |
| |
| PGP key |
| Service Bus |
| |
| Azure Import/Export service |

## Answer Area

| Security requirement | Technology |
|---|---|
| Customer connections to the website or from the mobile app | Azure Rights Management serv |
| SQL Server data migration for large datasets | Transparent Data Encryption |
| Encryption management for data based on key exchanges between servers | TLS/SSL |

**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 8**
Hotspot Question
You need to design a data storage strategy for each application.
In the table below, identify the strategy that you should use for each application. Make only one selection in each column.

**Hot Area:**

| Strategy | Human Resources Application | Metrics Applicati |
|---|---|---|
| Create separate SQL databases on individual virtual machines and partition appropriately. | ○ | ○ |
| Migrate the existing SQL database to a larger virtual machine. | ○ | ○ |
| Migrate the existing data to Azure table storage in the cloud. | ○ | ○ |

**Correct Answer:**

| Strategy | Human Resources Application | Metrics Applicati... |
|---|---|---|
| Create separate SQL databases on individual virtual machines and partition appropriately. | ○ | ○ |
| Migrate the existing SQL database to a larger virtual machine. | ○ | ○ |
| Migrate the existing data to Azure table storage in the cloud. | ○ | ○ |

**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 9**
Drag and Drop Question
You need to deploy the virtual machines to Azure.
Which four Azure PowerShell scripts should you run in sequence? To answer, move the appropriate scripts from the list of scripts to the answer area and arrange them in the correct order.

**Select and Place:**

**Scripts**

| |
|---|
| New-AzureStorageContainer $ContainerName -Permission Container |
| New-AzureStorageAccount -StorageAccountName $StorageAccountName -AffinityGroup $AffinityGroup |
| New-AzureResourceGroup –Name $Name –Location $Location –TemplateFile $TemplateJSONFile – TemplateParameterFile $ParmsJSONFile |
| Add-AzureWorkerRole MyWorkerRole -I 2 |
| $AffinityGroup = New-AzureAffinityGroup -Name $Name -Location $Location -Description New-AzureResourceGroup –Name $Name –Location $Location –TemplateFile $TemplateJSONFile – TemplateParameterFile $ParmsJSONFile |
| $newVM = New-AzureVMConfig -name $vmname -InstanceSize $instancesize -ImageName $winimage \| Add-AzureProvisioningConfig -Windows -AdminUsername |

**Answer Area**

**Correct Answer:**

## Scripts

New-AzureStorageAccount -
StorageAccountName
$StorageAccountName -
AffinityGroup $AffinityGroup

$newVM = New-
AzureVMConfig -name
$vmname -InstanceSize
$instancesize -ImageName
$winimage | Add-
AzureProvisioningConfig -
Windows -AdminUsername

## Answer Area

New-AzureStorageContainer
$ContainerName -Permission
Container

New-AzureResourceGroup –
Name $Name –Location
$Location –TemplateFile
$TemplateJSONFile –
TemplateParameterFile
$ParmsJSONFile

Add-AzureWorkerRole
MyWorkerRole -I 2

$AffinityGroup = New-
AzureAffinityGroup -Name
$Name -Location $Location -
Description
New-AzureResourceGroup –
Name $Name –Location
$Location –TemplateFile
$TemplateJSONFile –
TemplateParameterFile
$ParmsJSONFile

**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 10**
Drag and Drop Question
You need to recommend network connectivity solutions for the experimental applications.
What should you recommend? To answer, drag the appropriate solution to the correct network connection requirements. Each solution 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.

**Select and Place:**

**Solutions**

| ExpressRoute |
| --- |

| point-to-site VPN |
| --- |

| site-to-site VPN |
| --- |

**Answer Area**

| Network connection requirements | Solution |
| --- | --- |
| A dedicated connection between one on-premises location and its development environment within Azure | Solution |
| Encrypted Internet connection between one developer's server and the development environment within Azure | Solution |
| Encrypted Internet connection between one on-premises location and its development environment within Azure | Solution |
| Most secure, highest bandwidth, lowest latency option for connecting an on-premises network to Azure | Solution |

**Correct Answer:**

## Solutions

## Answer Area

| Network connection requirements | Solution |
|---|---|
| A dedicated connection between one on-premises location and its development environment within Azure | ExpressRoute |
| Encrypted Internet connection between one developer's server and the development environment within Azure | point-to-site VPN |
| Encrypted Internet connection between one on-premises location and its development environment within Azure | Solution |
| Most secure, highest bandwidth, lowest latency option for connecting an on-premises network to Azure | site-to-site VPN |

**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 11**
You are designing a plan for testing a Windows Azure service.
The service runs in the development fabric but fails on Windows Azure.

You need to recommend an approach for identifying errors that occur when the service runs on Windows Azure.
What should you recommend?

A. Attach a debugger to the Windows Azure role instance.
B. Analyze debugging information captured by Windows Azure Diagnostics.
C. Modify the service configuration for the Windows Azure role to access development storage.
D. Analyze debugging information written to the output window of the Windows Azure role instance.

**Correct Answer:** B
**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 12**
You are designing a Windows Azure web application.
The application will be accessible at a standard cloudapp.net URL.
You need to recommend a DNS resource record type that will allow you to configure access to the application through a custom domain name.
Which type should you recommend?

A. A
B. CNAME
C. MX
D. SRV

**Correct Answer:** B
**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 13**
You are designing an Azure application that provides online backup storage for hundreds of media files. Each file is larger than 1GB.
The data storage solution has the following requirements:
- It must be capable of storing an average of 1TB of data for each user.
- It must support sharing of data between all Windows Azure instances.
- It must provide random read/write access.
You need to recommend a durable data storage solution.
What should you recommend?

A. Azure Drive

B. Azure Page Blob service

C. Azure Block Blob service

D. Local storage on an Azure instance

**Correct Answer:** D
**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 14**
You are designing an Azure web application.
All users must authenticate by using Active Directory Domain Services (AD DS) credentials.
You need to recommend an approach to enable single sign-on to the application for domain-authenticated users.
Which two actions should you recommend? Each correct answer presents part of the solution.

A. Use Forms authentication to generate claims.

B. Use the SQL membership provider in the web application

C. Use Windows Identity Foundation in the web application.

D. Use Active Directory Federation Services (AD FS) to generate claims.

**Correct Answer:** AD
**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 15**
You need to configure the distribution tracking application.
What should you do?

A. Map each role to a single upgrade domain to optimize resource utilization.

B. Design all services as stateless services.

C. Configure operations to queue when a role reaches its capacity.

D. Configure multiple worker roles to run on each virtual machine

**Correct Answer:** C
**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 16**
You need to recommend a solution for publishing one of the company websites to Azure and configuring it for remote debugging.
Which two actions should you perform? Each correct answer presents part of the solution.

A. From Visual Studio, attach the debugger to the solution.

B. Set the application logging level to Verbose and enable logging.

C. Set the Web Server logging level to Information and enable logging.

D. Set the Web Server logging level to Verbose and enable logging.

E. From Visual Studio, configure the site to enable Debugger Attaching and then publish the site.

**Correct Answer:** AD
**Section: (none)**
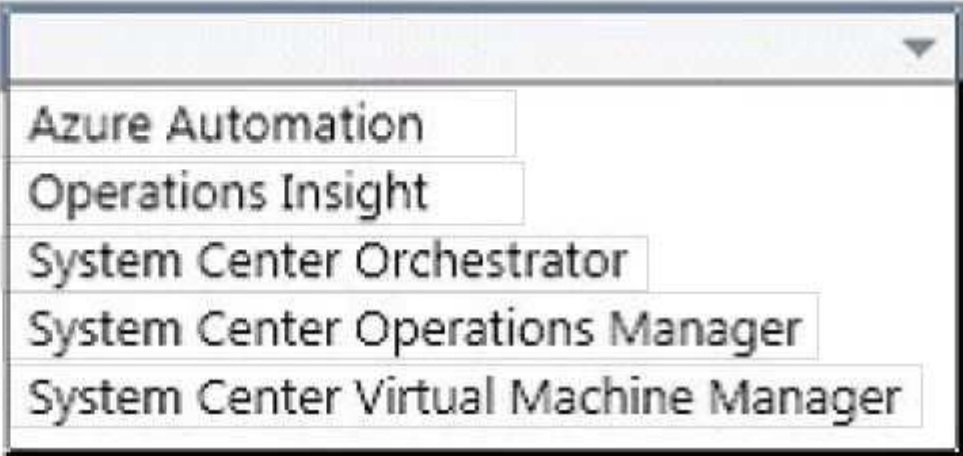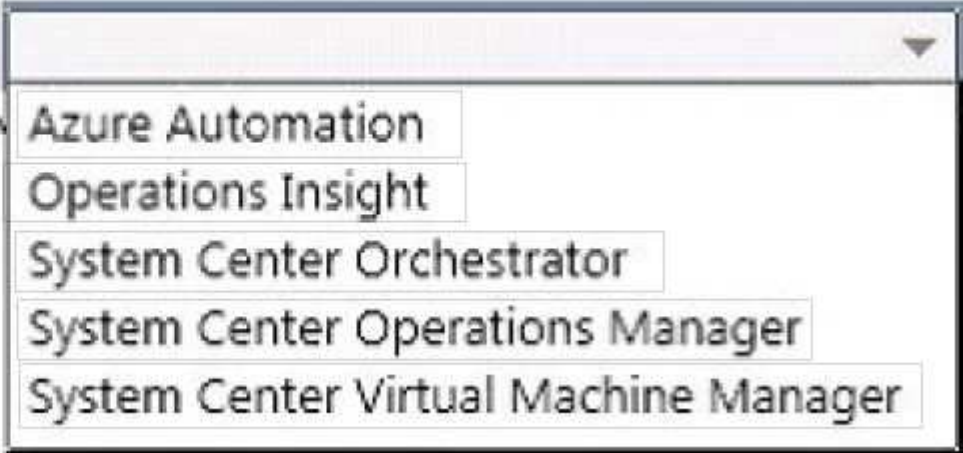**Explanation**

**Explanation/Reference:**
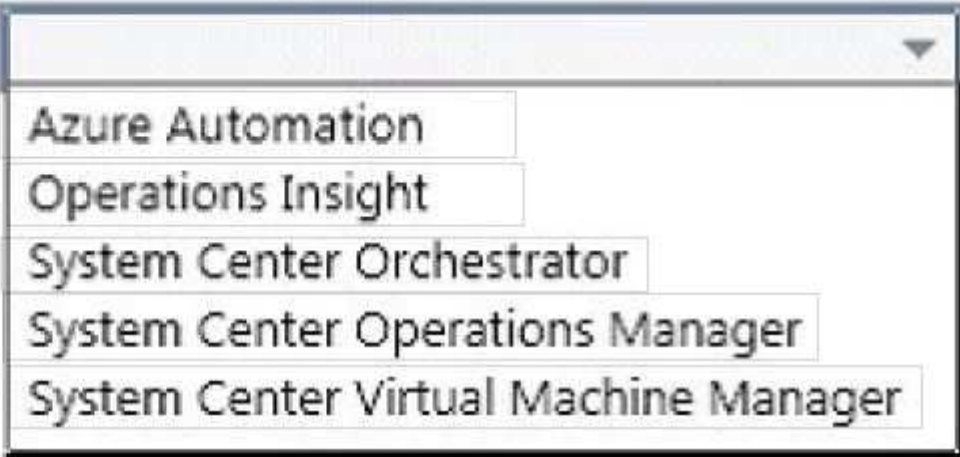
**Exam D**
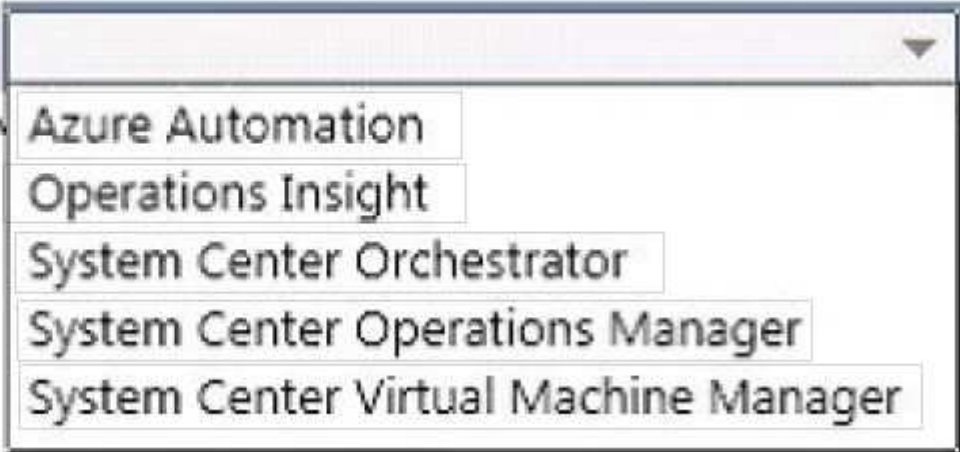
**QUESTION 1**
Hotspot Question
You need implement tools at the client's location for monitoring and deploying Azure resources.
Which tools should you use? To answer, select the appropriate on-premises tool for each task in the answer area.

**Hot Area:**

| Task | On-premises tool |
|------|------------------|
| Deployment | [dropdown] |
| | Azure Automation |
| | Operations Insight |
| | System Center Orchestrator |
| | System Center Operations Manager |
| | System Center Virtual Machine Manager |
| Application health | [dropdown] |
| | Azure Automation |
| | Operations Insight |
| | System Center Orchestrator |
| | System Center Operations Manager |
| | System Center Virtual Machine Manager |

**Correct Answer:**

| Task | On-premises tool |
|------|------------------|
| Deployment | |
| | Azure Automation |
| | Operations Insight |
| | System Center Orchestrator |
| | System Center Operations Manager |
| | System Center Virtual Machine Manager |
| Application health | |
| | Azure Automation |
| | Operations Insight |
| | System Center Orchestrator |
| | System Center Operations Manager |
| | System Center Virtual Machine Manager |

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 2**
Hotspot Question
The company has two corporate offices. Customers will access the websites from datacenters around the world.
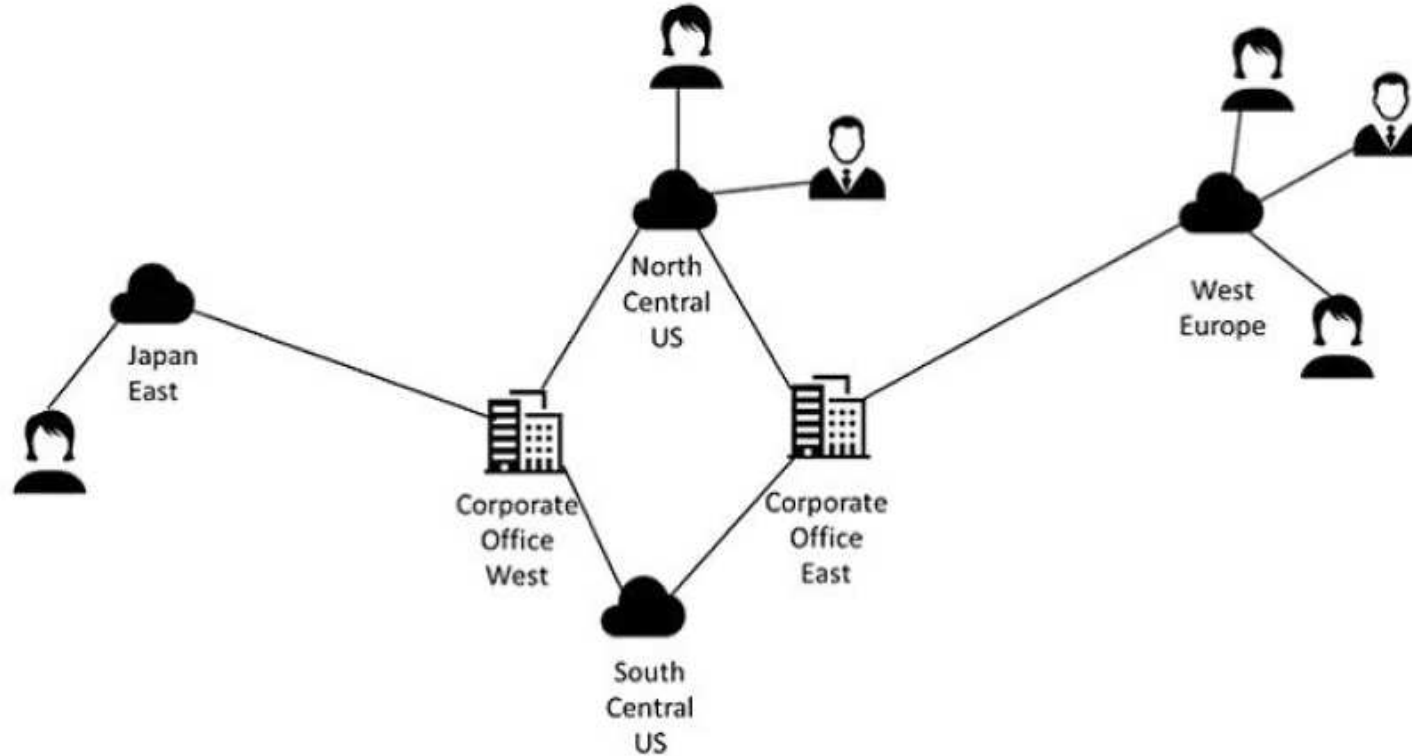


You need to architect the global website strategy to meet the business requirements. Use the drop-down menus to select the answer choice that answers each question.

**Hot Area:**

## Answer Area

'here should you deploy the websites?

| South Central US |
| --- |
| Corporate Office West and Corporate Office East |
| East Asia, North Central US, and West Europe |

'here should you store the media?

| South Central US |
| --- |
| Corporate Office West and Corporate Office East |
| East Asia, North Central US, and West Europe |

'here should you deploy the data warehouse?

| South Central US |
| --- |
| East Asia, North Central US, and West Europe |
| Corporate Office West and Corporate Office East |

**Correct Answer:**

## Answer Area

'here should you deploy the websites?

| |
|---|
| South Central US |
| Corporate Office West and Corporate Office East |
| East Asia, North Central US, and West Europe |

'here should you store the media?

| |
|---|
| South Central US |
| Corporate Office West and Corporate Office East |
| East Asia, North Central US, and West Europe |

'here should you deploy the data warehouse?

| |
|---|
| South Central US |
| East Asia, North Central US, and West Europe |
| Corporate Office West and Corporate Office East |

**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 3**
Hotspot Question
You need to recommend strategies for storing data.
Which services should you recommend? To answer, select the appropriate storage technology for each data type in the answer area.

**Hot Area:**

| Data Type | Storage Technology |
|---|---|
| Media metadata | **▼** |
| | Azure Queue Storage service |
| | Azure Media Services |
| | Azure Mobile Services |
| | Database using REST |
| Images | **▼** |
| | Azure Queue Storage service |
| | Azure Media Services |
| | Azure Mobile Services |
| | SQL Database using REST |
| Audio | **▼** |
| | Azure Queue Storage service |
| | Azure Media Services |
| | Azure Mobile Services |
| | SQL Database using REST |
| Video | **▼** |
| | Azure Queue Storage service |
| | Azure Media Services |
| | Azure Mobile Services |

**Correct Answer:**

| Data Type | Storage Technology |
|---|---|
| Media metadata | ▼ |
| | Azure Queue Storage service |
| | Azure Media Services |
| | Azure Mobile Services |
| | Database using REST |
| Images | ▼ |
| | Azure Queue Storage service |
| | Azure Media Services |
| | Azure Mobile Services |
| | SQL Database using REST |
| Audio | ▼ |
| | Azure Queue Storage service |
| | Azure Media Services |
| | Azure Mobile Services |
| | SQL Database using REST |
| Video | ▼ |
| | Azure Queue Storage service |
| | Azure Media Services |
| | Azure Mobile Services |

**QUESTION 4**
Drag and Drop Question
You need to design the notification service for the customer-facing mobile app.
Which three actions 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.

**Select and Place:**

**Actions**

| Update the mobile service script to send push notifications. |
|---|
| Connect the mobile app to the mobile service. |
| Push a notification to the target applications. |
| Configure a notification hub. |
| Connect the mobile app to the notification hub. |
| Configure Mobile Services for push notifications. |

**Answer Area**

**Correct Answer:**

**Actions**

| |
|---|
| Connect the mobile app to the mobile service. |
| Push a notification to the target applications. |
| |
| |
| Configure Mobile Services for push notifications. |

**Answer Area**

| |
|---|
| Configure a notification hub. |

| |
|---|
| Connect the mobile app to the notification hub. |

| |
|---|
| Update the mobile service script to send push notifications. |

**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 5**
Drag and Drop Question

You need to provide a data access solution for the NorthRide app.
Which four actions 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.

**Select and Place:**

## Actions

| Obtain the default management credentials for the namespace. |
|---|

| Create a service namespace under Service Bus. |
|---|

| Configure the Service Bus to consume a web service. |
|---|

| Configure Service Bus Queue. |
|---|

| Configure the application to use Service Bus Relay. |
|---|

## Answer Area

**Correct Answer:**

## Actions

| |
|---|
| Obtain the default management credentials for the namespace. |

| |
|---|

| |
|---|

| |
|---|

## Answer Area

| |
|---|
| Create a service namespace under Service Bus. |

| |
|---|
| Configure Service Bus Queue. |

| |
|---|
| Configure the Service Bus to consume a web service. |

| |
|---|
| Configure the application to use Service Bus Relay. |

**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 6**
Drag and Drop Question
You are the Azure architect for an organization.
You are working with C-level management to assign Azure role-based access control roles to a team within the organization. A single director oversees two teams, a development team and a test team. The director is wholly responsible for the organization's Azure account, including billing, infrastructure, and access control.
The director is the only member of the team with the ability to alter access controls.
You have the following requirements:
- Members of the development team must be able to view or alter Azure infrastructure to support application

development.
- Members of the test team must be able to view Azure infrastructure to support test cases.
You need to assign built-in Azure role-based access control roles to team members within the organization.
Which role should you assign to each team member? To answer, drag the appropriate role to the correct team member. Each role 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.

**Select and Place:**

Roles

| Owner |
| Contributor |
| Reader |
| Editor |
| Publisher |

Answer Area

| Team Member | Role |
| --- | --- |
| The director | Role |
| Members of the development team | Role |
| Members of the test team | Role |

**Correct Answer:**

## Roles

| | |
|---|---|
| | |
| Contributor | |
| | |
| Editor | |
| | |

## Answer Area

| Team Member | Role |
|---|---|
| The director | Owner |
| Members of the development team | Publisher |
| Members of the test team | Reader |

**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 7**
You need to configure availability for the virtual machines that the company is migrating to Azure.
What should you implement?

A. Traffic Manager

B. Express Route

C. Update Domains

D. Cloud Services

**Correct Answer:** B
**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 8**
You need to ensure that the website scales.
What should you do?

A. Deploy Traffic Manager and configure it to route user traffic to specified endpoints to other Azure datacenters.

B. Enter multiple DNS entries in each virtual network to route requests to other Azure datacenters

C. Set up a new Azure datacenter to Azure datacenter VPN to enable the solution to communicate across regions.

D. Use a virtual network to route network traffic in a single Azure datacenter.

**Correct Answer:** C
**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 9**
You need to analyze Lucerne's performance monitoring solution.
Which three applications should you monitor? Each correct answer presents a complete solution.

A. The Lucerne Media-D application

B. The data mining application

C. The Lucerne Media-W application

D. The Lucerne Media-M app

E. The Lucerne Media-N app

**Correct Answer:** BCD
**Section: (none)**

**Explanation**

**Explanation/Reference:**


**QUESTION 10**
You need to configure the deployment of the storage analysis application.
What should you do?

A.  Create a new Mobile Service.
B.  Configure the deployment from source control.
C.  Add a new deployment slot.
D.  Turn on continuous integration.

**Correct Answer:** B
**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 11**
You need to recommend an appropriate solution for the data mining requirements.
Which solution should you recommend?

A.  Design a schedule process that allocates tasks to multiple virtual machines, and use the Azure Portal to create new VMs as needed.
B.  Use Azure HPC Scheduler Tools to schedule jobs and automate scaling of virtual machines
C.  Use Traffic Manager to allocate tasks to multiple virtual machines, and use the Azure Portal to spin up new virtual machines as needed.
D.  Use Windows Server HPC Pack on-premises to schedule jobs and automate scaling of virtual machines in Azure.

**Correct Answer:** C
**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 12**
You administer a cloud service.
You plan to host two web applications named contosoweb and contosowebsupport.

You need to ensure that you can host both applications and qualify for the Azure Service Level Agreement.
You want to achieve this goal while minimizing costs.
How should you host both applications?

A.  in different web roles with two instances in each web role

B.  in the same web role with two instances

C.  in different web roles with one instance in each web role

D.  in the same web role with one instance

**Correct Answer:** B
**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 13**
You need to design the authentication solution for the NorthRide app. Which solution should you use?

A.  Azure Active Directory Basic with multi-factor authentication for the cloud and on- premises users.

B.  Active Directory Domain Services with mutual authentication

C.  Azure Active Directory Premium and add multi-factor authentication the for cloud users

D.  Active Directory Domain Services with multi-factor authentication

**Correct Answer:** A
**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 14**
You need to recommend a solution that meets the requirements for data storage for the NorthRide app.
What should you include in the recommendation?

A.  Azure Remote App

B.  Azure Service Bus

C.  Azure Connect

D.  Azure SQL Database

**Correct Answer:** A
**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 15**
You plan to host two web applications named contosoweb and contosowebsupport.
You need to ensure that you can host both applications and qualify for the Azure Service Level Agreement.
You want to achieve this goal while minimizing costs.
How should you host both applications?

A.  in different web roles with two instances in each web role

B.  in the same web role with two instances

C.  in different web roles with one instance in each web role

D.  in the same web role with one instance

**Correct Answer:** B
**Section: (none)**
**Explanation**

**Explanation/Reference:**

**Exam E**

**QUESTION 1**

Drag and Drop Question
You are converting an existing ASP.NET web application to use the Azure Active Directory (AD) Access Control service for authentication. The application will authenticate users by using their Yahoo account credentials.
You need to determine the correct payload for each stage of the authentication process.
What should you do? To answer, drag the appropriate payload format to the correct location on the dialog box. Each payload format 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.

**Select and Place:**

**Payload Format**

| HTML-based sign-on system |
| Active Directory login form post |
| Access Control token |
| OpenID 2.0 token |
| X.509 certificate |

**Answer Area**

Yahoo

Windows Azure
Active Directory
Access Control

Browser

ASP.NET Web
Application
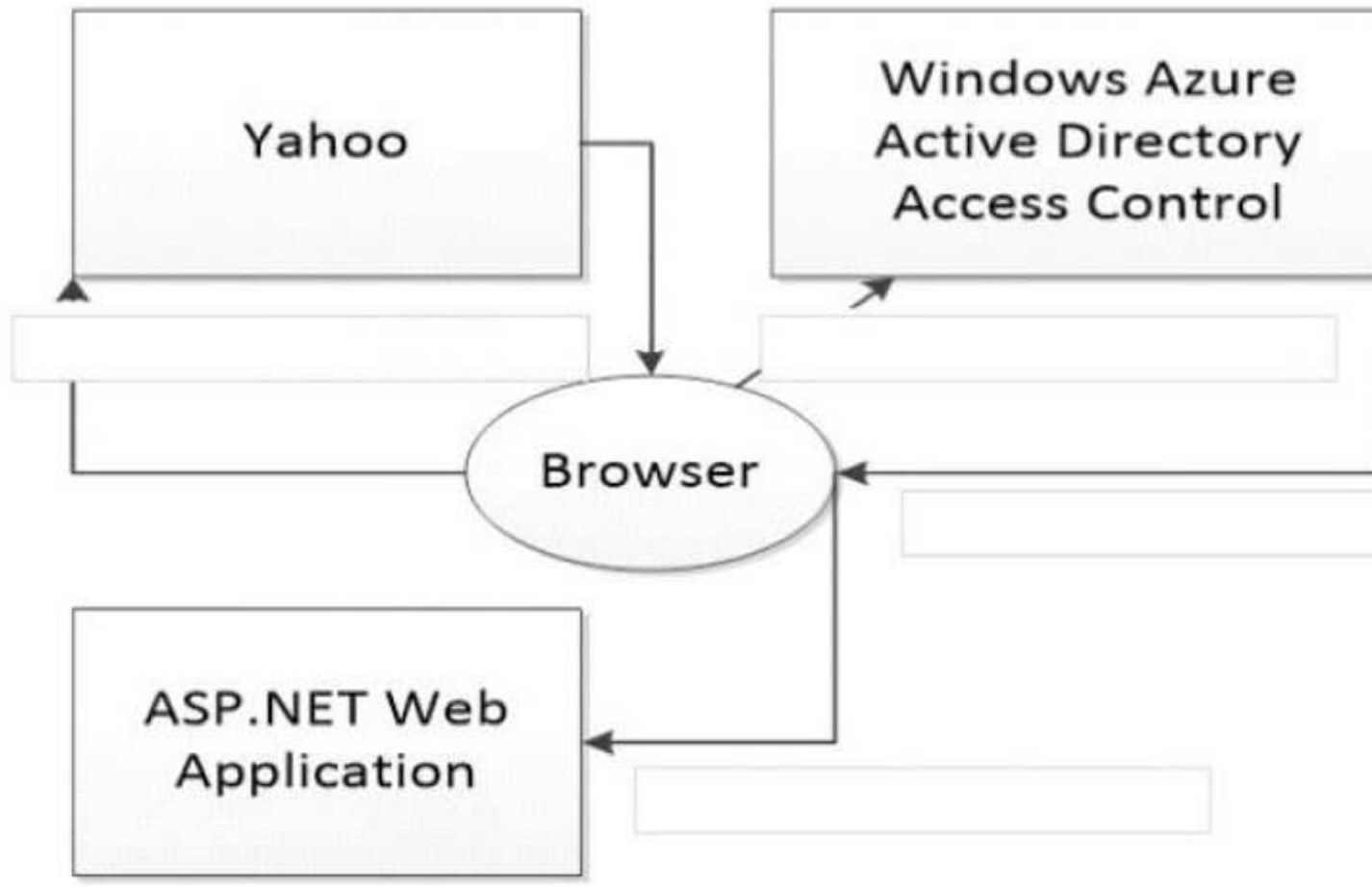
**Correct Answer:**

**Payload Format**

| |
|---|

| Active Directory login form post |
|---|

| Access Control token |
|---|

| |
|---|

| X.509 certificate |
|---|

**Answer Area**

| Yahoo | | Windows Azure Active Directory Access Control |
|---|---|---|

HTML-based sign-on system

OpenID 2.0 token

Browser

ASP.NET Web Application
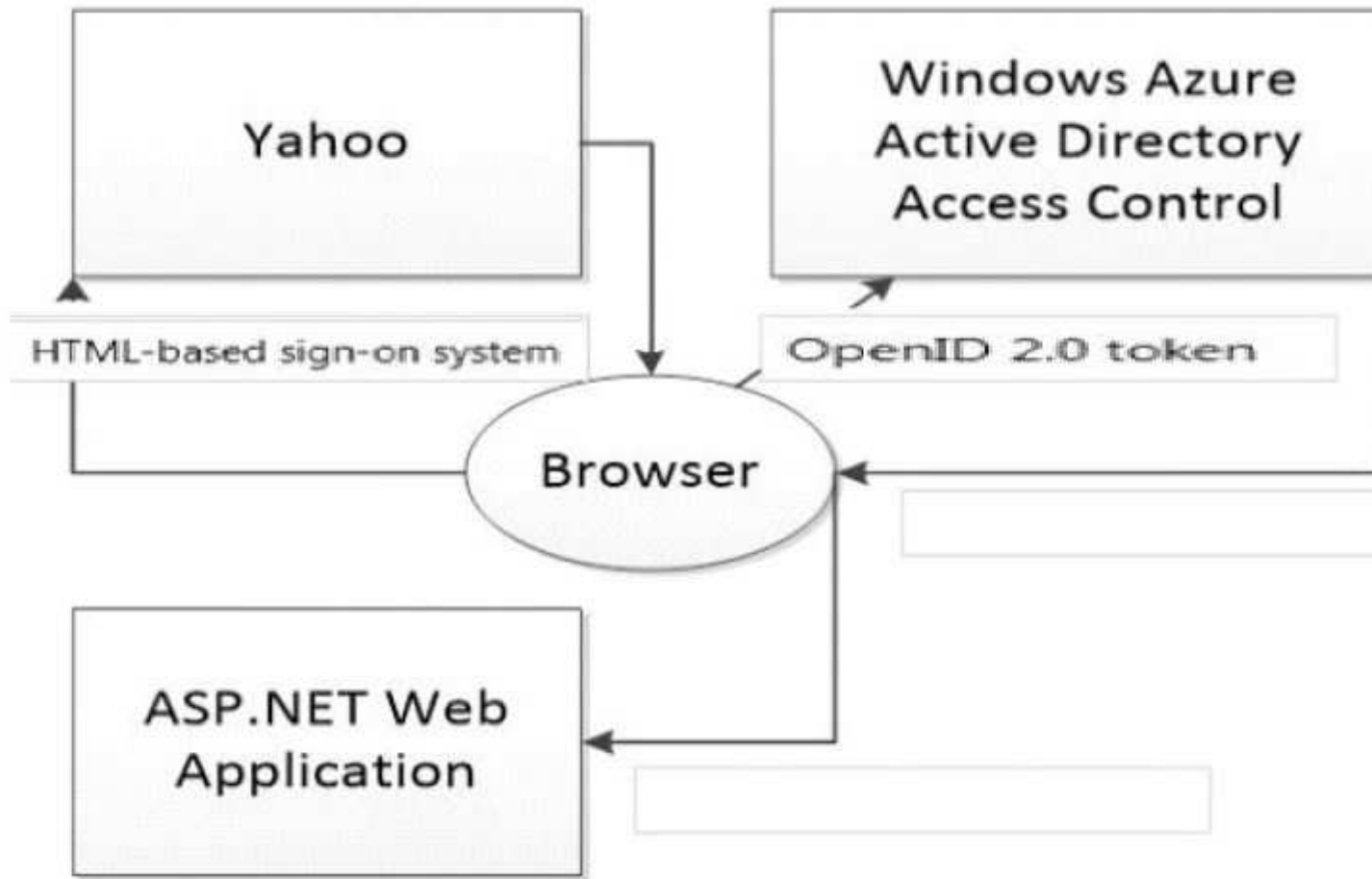
**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 2**
Hotspot Question
You have a cloud service that runs an external process that is named MyStartupTask.cmd.
The cloud service runs this external process when the web role starts.
The external process writes information to the Windows registry.
You set the value of an environment variable named MyID to the deployment ID for the current web role instance.
The external process must complete writing the information to the Windows registry before the web role starts to accept web traffic.
You need to configure the cloud service.
How should you complete the relevant markup? To answer, select the appropriate option or options in the answer area.

**Hot Area:**

## Answer Area

```
<Startup>
    <Task commandLine="MyStartupTask.cmd"
```

| |
|---|
| executionContext="elevated" taskType="simple" |
| executionContext="limited" taskType="foreground" |
| executionContext="elevated" taskType="foreground" |
| executionContext="elevated" taskType="background" |

```
        <Environment>
            <Variable name="MyId">
```

| |
|---|
| <RoleInstanceValue xpath="/RoleEnvironment/Deployment/@id"/> |
| <RoleInstanceValue xpath="/DeploymentId"/> |
| <RoleEnvironment.DeploymentId></Value> |
| <Value>@DeploymentId</Value> |

```
            </Variable>
        </Environment>
    </Task>
</Startup>
```

**Correct Answer:**

## Answer Area

```
<Startup>
    <Task commandLine="MyStartupTask.cmd"
```

| |
|---|
| executionContext="elevated" taskType="simple" |
| executionContext="limited" taskType="foreground" |
| executionContext="elevated" taskType="foreground" |
| executionContext="elevated" taskType="background" |

```
        <Environment>
            <Variable name="MyId">
```

| |
|---|
| <RoleInstanceValue xpath="/RoleEnvironment/Deployment/@id"/> |
| <RoleInstanceValue xpath="/DeploymentId"/> |
| <RoleEnvironment.DeploymentId></Value> |
| <Value>@DeploymentId</Value> |

```
            </Variable>
        </Environment>
    </Task>
</Startup>
```

**QUESTION 3**
Hotspot Question
You have an Azure SQL Database named Contosodb. Contosodb is running in the Standard/S2 tier and has a service level objective of 99 percent.
You review the service tiers in Microsoft Azure SQL Database as well as the results of running performance queries for the usage of the database for the past week as shown in the exhibits. (Click the Exhibits button.)

| Average CPU Utilization In Percent | Maximum CPU Utilization In Percent | Average Physical Data Read Utilization In Percent | Maximum Physical Data Read Utilization In Percent | Average Log Write Utilization In Percent | Maximum Log Write Utilization In Percent |
|---|---|---|---|---|---|
| 23.4 | 93.1 | 21.0 | 48.0 | 21.7 | 61.0 |

| CPU Fit Percent | Log Write Fit Percent | Physical Data Read Fit Percent |
|---|---|---|
| 99.7 | 99.8 | 99.6 |

File    Message    Insert    Options    Format Text    Review    Developer

Calibri (Body    11    A A    Attach File    Follow Up
                                             Attach Item    High Importance
Paste    B  I  U    A    Address  Check    Signature    Low Importance    Zoo
                         Book    Names
Clipboard    Basic Text    Names    Include    Tags    Zoo

To...    Royce.Beaman@TreyResearch.com

Cc...

Send

Subject:    Item cost Optimization Audit

Royce,

I am looking for ways to save money on our Azure infrastructure.

Please send me a cost breakdown of our current spend.

Regards,

Colin Trombley

**Hot Area:**

For each of the following statements, select Yes if the statement is true. Otherwise, select N

|  | Yes | No |
|---|---|---|
| The database can be moved to the Basic tier without compromising performance. | ○ | ○ |
| The database can be moved to the Standard/ S1 tier without compromising performance. | ○ | ○ |
| The database must be moved to the Premium/P1 tier to satisfy the service level objective. | ○ | ○ |

**Correct Answer:**

For each of the following statements, select Yes if the statement is true. Otherwise, select N

|  | Yes | No |
|---|---|---|
| The database can be moved to the Basic tier without compromising performance. | O | O |
| The database can be moved to the Standard/ S1 tier without compromising performance. | O | O |
| The database must be moved to the Premium/P1 tier to satisfy the service level objective. | O | O |

**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 4**
Drag and Drop Question
You plan to deploy a cloud service named contosoapp that has a web role named contosoweb and a worker role named contosoimagepurge.
You need to ensure the service meets the following requirements:
- Contosoweb can be accessed over the Internet by using http.
- Contosoimagepurge can only be accessed through tcp port 5001 from contosoweb.
- Contosoimagepurge cannot be accessed directly over the Internet.
Which configuration should you use? To answer, drag the appropriate configuration setting to the correct location in the service configuration file. Each configuration setting 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.

**Select and Place:**

## Configuration Settings

```
<InputEndpoint name="Endpoint1" protocol="http" port="80" />
```

```
<InternalEndpoint name="Endpoint1" protocol="http" port="80" />
```

```
<InputEndpoint name="Endpoint1" protocol="tcp" port="5001" />
```

```
<Destinations>
 <RoleEndpoint endpointName="EndPoint1" roleName="contosoimagepurge"/>
</Destinations>
<WhenSource matches="AnyRule">
 <FromRole roleName="contosoweb"/>
</WhenSource>
```

```
<Destinations>
 <RoleEndpoint endpointName="EndPoint1" roleName="contosoimagepurge"/>
</Destinations>
<AllowAllTraffic/>
```

## Service Configuration File

```
<ServiceDefinition name="contosoapp"
  <WebRole name="contosoweb" vmsize="Small">

                        Configuration setting




  </Endpoints>
  </WebRole>
  <WorkerRole name="contosoimagepurge" vmsize="Small">
   <Endpoints>

                        Configuration setting




  </Endpoints>
  </WorkerRole>
  <NetworkTrafficRules>
   <OnlyAllowTrafficTo>

                        Configuration setting




  </OnlyAllowTrafficTo>
  </NetworkTrafficRules>
</ServiceDefinition>
```

**Correct Answer:**

**Configuration Settings**

**Service Configuration File**

```xml
<ServiceDefinition name="contosoapp"
  <WebRole name="contosoweb" vmsize="Small">

    <InputEndpoint name="Endpoint1" protocol="http" port="80" />

  </Endpoints>
  </WebRole>
  <WorkerRole name="contosoimagepurge" vmsize="Small">
    <Endpoints>

    <InputEndpoint name="Endpoint1" protocol="tcp" port="5001" />

    </Endpoints>
  </WorkerRole>
  <NetworkTrafficRules>
    <OnlyAllowTrafficTo>

    <Destinations>
      <RoleEndpoint endpointName="EndPoint1" roleName="contosoimagepurge
    </Destinations>
    <WhenSource matches="AnyRule">
      <FromRole roleName="contosoweb"/>
    </WhenSource>

    </OnlyAllowTrafficTo>
  </NetworkTrafficRules>
</ServiceDefinition>
```

```xml
<InternalEndpoint name="Endpoint1" protocol="http" port="80" />
```

```xml
<Destinations>
 <RoleEndpoint endpointName="EndPoint1" roleName="contosoimagepurge"/>
</Destinations>
<AllowAllTraffic/>
```

**QUESTION 5**
Drag and Drop Question
Your development team has created a new solution that is deployed in a virtual network named fabDevVNet.
Your testing team wants to begin testing the solution in a second Azure subscription.
You need to create a virtual network named fabTestVNet that is identical to fabDevVNet.
You want to achieve this goal by using the least amount of administrative effort.
Which three 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.

**Select and Place:**

## Action

| Answer Area |
| --- |

**In the Management Portal, rename the virtual network to fabTestVNet in the testing subscription.**

**In the development subscription, import the network configuration.**

**In the testing subscription, import the network configuration.**

**In the development subscription, export the network configuration.**

**Create a virtual network by using the Management Portal in the testing subscription.**

**In the network configuration file, set the name attribute of the VirtualNetworkSite to fabTestVNet.**

**Correct Answer:**

| Action | Answer Area |
|---|---|
| In the Management Portal, rename the virtual network to fabTestVNet in the testing subscription. | In the development subscription, export the network configuration. |
| In the development subscription, import the network configuration. | In the network configuration file, set the name attribute of the VirtualNetworkSite to fabTestVNet. |
| | In the testing subscription, import the network configuration. |
| Create a virtual network by using the Management Portal in the testing subscription. | |

**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 6**
Drag and Drop Question
You have a solution deployed into a virtual network in Azure named fabVNet. The fabVNet virtual network has three subnets named Apps, Web, and DB that are configured as shown in the exhibit. (Click the Exhibits button.)

## virtual network address spaces

| ADDRESS SPACE | STARTING IP | CIDR (ADDRESS COUNT) | USABLE ADDRESS RANGE |
|---|---|---|---|
| 10.0.0.0/23 | 10.0.0.0 | /23 (507) | 10.0.0.4 - 10.0.1.254 |
| SUBNETS | | | |
| Apps | 10.0.0.0 | /26 (59) | 10.0.0.4 - 10.0.0.62 |
| Web | 10.0.0.64 | /29 (3) | 10.0.0.68 - 10.0.0.70 |
| DB | 10.0.0.72 | /29 (3) | 10.0.0.76 - 10.0.0.78 |

add subnet

add address space

# fabvnet

## virtual network

<--> fabVNet
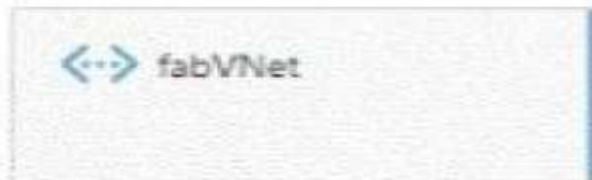
## resources

| NAME | ROLE | IP ADDRESS | SUBNET NAME | |
|------|------|------------|-------------|---|
| fabApps1 | Virtual Machine | 10.0.0.4 | Apps | |
| fabDB1 | Virtual Machine | 10.0.0.76 | DB | |
| fabDB2 | Virtual Machine | 10.0.0.77 | DB | |
| Svc2WebRole_IN_0 | Svc2WebRole | 10.0.0.68 | Web | |

You want to deploy two new VMs to the DB subnet.

You need to modify the virtual network to expand the size of the DB subnet to allow more IP addresses.

Which three 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.

**Select and Place:**

| Action | Answer Area |
|--------|-------------|
| Empty and delete the Web Subnet. | |
| Empty and reconfigure the DB subnet to be larger. | |
| Empty and delete the Virtual Network. | |
| Empty and reconfigure the Web subnet to be larger. | |
| Recreate the Virtual Network as now required. | |
| Create the Web subnet to be larger. | |
| Empty and delete the DB Subnet. | |
| Create the DB subnet to be larger. | |

**Correct Answer:**

| Action | Answer Area |
|---|---|
| Empty and delete the Web Subnet. | |
| Empty and reconfigure the DB subnet to be larger. | |
| Empty and delete the Virtual Network. | |
| Empty and reconfigure the Web subnet to be larger. | |
| Recreate the Virtual Network as now required. | |
| Create the Web subnet to be larger. | |
| Empty and delete the DB Subnet. | |
| Create the DB subnet to be larger. | |

**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 7**
Hotspot Question
A company creates an Azure worker role to manage products.
The number of customers who inquire about how many products are in inventory rapidly increases.
You need to ensure that the worker role can scale to accommodate the increased workload.
How should you complete the relevant code? To answer, select the appropriate option or options in the answer area.

**Hot Area:**

## Answer Area

```
[ ▼ ]          scaler      =
  Scaler
  Autoscaler
  Metronome
  Configuration
```

```
      EnterpriseLibraryContainer.Current.GetInstance< [ ▼ ]
                                                        Scaler
      scaler. [ ▼ ]                      ();           Autoscaler
              Start()                                  Metronome
              Create()                                 Configuration
              ActivityID(true)
              AllEventsCategory(true)
```

**Correct Answer:**

# Answer Area



```
                        [ ▼ ]          scaler    =
                        | Scaler       |
                        | Autoscaler   |
                        | Metronome    |
                        | Configuration|
```

```
EnterpriseLibraryContainer.Current.GetInstance<          [ ▼ ]
                                                    | Scaler        |
    scaler. [                    ▼ ]    ();         | Autoscaler    |
            | Start()              |                | Metronome     |
            | Create()             |                | Configuration |
            | ActivityID(true)     |
            | AllEventsCategory(true)|
```

**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 8**
Drag and Drop Question
Your company manages several Azure Web Sites that are running in an existing web- hosting plan named plan1.
You need to move one of the websites, named contoso, to a new web-hosting plan named plan2.
Which Azure PowerShell cmdlet should you use with each PowerShell command line? To
answer, drag the appropriate Azure PowerShell cmdlet to the correct location in the PowerShell code. Each PowerShell 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.

**Select and Place:**

## PowerShell cmdlets

| |
|---|
| New-AzureResource |

| |
|---|
| Set-AzureResource |

| |
|---|
| plan1 |

| |
|---|
| plan2 |

| |
|---|
| Microsoft.Web/serverFarms |

| |
|---|
| Microsoft.Web/sites |

## PowerShell code

```
PS C:\> $props = @("serverfarm" = "          [ PowerShell cmdlet ]

PS C:\>  [ PowerShell cmdlet ]          -name contoso

-ResourceGroup group1 -PropertyObject $props -ResourceType
[ PowerShell cmdlet ]          -apiversion 2014-04-01
```

**Correct Answer:**

## PowerShell cmdlets

| |
|---|
| New-AzureResource |

| |
|---|
| |

| |
|---|
| plan1 |

| |
|---|
| |

| |
|---|
| Microsoft.Web/serverFarms |

| |
|---|
| |

## PowerShell code

```
PS C:\> $props = @("serverfarm" = "    plan2

PS C:\>    Set-AzureResource    -name contoso

-ResourceGroup group1 -PropertyObject $props -ResourceType

Microsoft.Web/sites    -apiversion 2014-04-01
```

**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 9**
Hotspot Question
You manage an Azure Web Site for a consumer-product company.
The website runs in Standard mode on a single medium instance.
You expect increased traffic to the website due to an upcoming sale during a holiday weekend.

You need to ensure that the website performs optimally when user activity is at its highest.
Which option should you select? To answer, select the appropriate option in the answer area.

**Hot Area:**

INSTANCE SIZE

Small (1 core, 1.75 GB Memory )

EDIT SCALE SETTINGS FOR SCHEDULE

set up schedule times

Recurring schedules
Weekday
Weekend

SCALE BY METRIC

NONE    CPU

INSTANCES

1.5

1

**Correct Answer:**

INSTANCE SIZE     Small (1 core, 1.75 GB Memory )     ∨

EDIT SCALE SETTINGS FOR SCHEDULE     [ ▼ ]     **set up schedule times**

**Recurring schedules**
Weekday
Weekend

SCALE BY METRIC     [ NONE | CPU ]     ✓ INSTANCES

1.5

[1]

**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 10**
You connect to an existing service over the network by using HTTP. The service listens on HTTP port 80. You plan to create a test environment for this existing service by using an Azure virtual machine (VM) that runs Windows Server.
The service must be accessible from the public Internet over HTTP port 8080.
You need to configure the test environment.
Which two actions should you take? Each correct answer presents part of the solution.

A. Configure an endpoint to route traffic from port 8080 to port 80.
B. Configure an endpoint to route traffic from port 80 to port 8080.
C. Ensure that the public IP address is configured as a static IP address.
D. Configure the Windows Server firewall to allow incoming and outgoing traffic on port 8080.
E. Configure the Windows Server firewall to allow incoming and outgoing traffic on port 80

**Correct Answer:** AE

**QUESTION 11**
Your company network includes two branch offices. Users at the company access internal virtual machines (VMs).
You want to ensure secure communications between the branch offices and the internal VMs and network.
You need to create a site-to-site VPN connection.
What are two possible ways to achieve this goal? Each correct answer presents a complete solution.

A. a private IPv4 IP address and a compatible VPN device
B. a private IPv4 IP address and a RRAS running on Windows Server 2012
C. a public-facing IPv4 IP address and a compatible VPN device
D. a public-facing IPv4 IP address and a RRAS running on Windows Server 2012

**Correct Answer:** CD

**QUESTION 12**
You administer a DirSync server configured with Azure Active Directory (Azure AD).
You need to provision a user in Azure AD without waiting for the default DirSync synchronization interval.
What are two possible ways to achieve this goal? Each correct answer presents a complete solution.

A. Restart the DirSync server
B. Run the Start-OnlineCoexistenceSync PowerShell cmdlet.
C. Run the Enable-SyncShare PowerShell cmdlet.
D. Run the Azure AD Sync tool Configuration Wizard.
E. Replicate the Directory in Active Directory Sites and Services

**Correct Answer:** BD

**Explanation/Reference:**

**Exam F**

**QUESTION 1**
Hotspot Question
You deploy a new version of a cloud-service application to a staging slot. The application consists of one web role. You prepare to swap the new version of the application into the production slot. Your Azure account has access to multiple Azure subscriptions. You load the Azure PowerShell cmdlets into the Windows PowerShell command shell. The command shell is NOT configured for certificate-based authentication.
You must use the Windows PowerShell command window to configure the application.
You need to create five instances of the web role.
How should you configure the relevant Windows PowerShell script? To answer, select the appropriate option or options in the answer area.

**Hot Area:**

## Answer Area

$subscription = 'mysubscription'
$service = 'myservice'
$rolename = 'myrole'

```
Add-AzureAccount
Get-AzureAccount -Name $subscription
Get-AzureAccount
```

```
Select-AzureSubscription -SubscriptionName $subscription
Set-AzureSubscription -SubscriptionName $subscription
Set-AzureSubscription -SubscriptionId $subscription
```

```
Set-AzureRole -ServiceName $service -Slot Staging -RoleName $rolename -Count 5
Set-AzureRole -ServiceName $service -RoleName $rolename -Count 5
Set-AzureRole -ServiceName $service -Slot Production -RoleName $rolename -Count 5
Add-AzureWebRole -Name $service -Instances 5
```

**Correct Answer:**

## Answer Area

$subscription = 'mysubscription'
$service = 'myservice'
$rolename = 'myrole'

```
Add-AzureAccount
Get-AzureAccount -Name $subscription
Get-AzureAccount
```

```
Select-AzureSubscription -SubscriptionName $subscription
Set-AzureSubscription -SubscriptionName $subscription
Set-AzureSubscription -SubscriptionId $subscription
```

```
Set-AzureRole -ServiceName $service -Slot Staging -RoleName $rolename -Count 5
Set-AzureRole -ServiceName $service -RoleName $rolename -Count 5
Set-AzureRole -ServiceName $service -Slot Production -RoleName $rolename -Count 5
Add-AzureWebRole -Name $service -Instances 5
```

**QUESTION 2**
 An application sends Azure push notifications to a client application that runs on Windows Phone, iOS, and Android devices.
Users cannot use the application on some devices.
The authentication mechanisms that the application uses are the source of the problem.
You need to monitor the number of notifications that failed because of authentication errors.
Which three metrics should you monitor? Each correct answer presents part of the solution.

A.  Microsoft Push Notification Service (MPNS) authentication errors

B.  External notification system errors

C.  Apple Push Notification Service (APNS) authentication errors

D.  Channel errors

E.  Windows Push Notification Services (WNS) authentication errors

F.  Windows Push Notification Services (WNS) authentication errors

**Correct Answer:** ACF
**Section: (none)**
**Explanation**

**Explanation/Reference:**


**QUESTION 3**
You administer an Azure Active Directory (Azure AD) tenant that has a SharePoint web application named TeamSite1. TeamSite1 accesses your Azure AD tenant
for user information.
The application access key for TeamSite1 has been compromised.
You need to ensure that users can continue to use TeamSite1 and that the compromised key does not allow access to the data in your Azure AD tenant.
Which two actions should you perform? Each correct answer presents part of the solution.

A.  Remove the compromised key from the application definition for TeamSite1.

B.  Delete the application definition for TeamSite1.

C.  Generate a new application key for TeamSite1.

D.  Generate a new application definition for TeamSite1.

E.  Update the existing application key.

**Correct Answer:** AC
**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 4**
You manage a cloud service on two instances.
The service name is Service1 and the role name is ServiceRole1.
Service1 has performance issues during heavy traffic periods.
You need to increase the existing deployment of Service1 to three instances.
Which Power Shell cmdlet should you use?

A.  PS C:\>Set-AzureService -ServiceName "Service1" -Label "ServiceRole1' -Description "Instance count=3"

B.  PS C:\>Set-AzureRole -ServiceName "Service1" -Slot "Production" -RoleName "ServiceRole1" -Count 3

C.  PS C:\>Add-AzureWebRole -Name 'ServiceRole1" -Instances 3

D.  PS C:\> $instancecount = New-Object Hashtable$settings['INSTANCECOUNT=3] PS C:\> Set-AzureWebsite -AppSettings $instancecount ServiceRole1

**Correct Answer:** B
**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 5**
Your company has a subscription to Azure.
You configure your contoso.com domain to use a private Certificate Authority.
You deploy a web site named MyApp by using the Shared (Preview) web hosting plan.
You need to ensure that clients are able to access the MyApp website by using https.

A.  Back up the Site and import into a new website.
B.  Use the internal Certificate Authority and ensure that clients download the certificate chain.
C.  Add custom domain SSL support to your current web hosting plan.
D.  Change the web hosting plan to Standard.

**Correct Answer:** D
**Section: (none)**
**Explanation**

**Explanation/Reference:**