70-532.15q

Number: 70-532
Passing Score: 800
Time Limit: 120 min
File Version: 1.0

70-532

Developing Microsoft Azure Applications

Question Set 1

QUESTION 1
You need to move the VM.
What should you do?

A. Use the Blob Service REST API

B. Use the Service Management REST API

C. Run the Azure PowerShell Convert-VHD cmdlet.

D. Run the Azure PowerShell New-AzureVMcmdlet

Correct Answer: A
Section: [none]
Explanation

Explanation/Reference:

QUESTION 2
You need to configure session affinity for the website. Which two actions will achieve the goal? Each correct answer presents a complete solution.

A. In the Azure management portal, reate a new traffic manager. Configure the traffic manager to use round-robin load balancing and the HTTP monitoring protocol. Add a new service andpoint to the traffic manager. Configure the endpoint to use the Web Site service type. Configure the website to use the endpoint.

B. Add the following code to the Global.asax.cs file:
protected void Application_PreSendRequestHeaders()
{
    Response.Headers.Add("Arr-Disable-Session-Affinity", "True");
}

C. Add the following code to the Global.asax.cs file:
protected void Application_Start()
{
    …
    Var affinityCookie = new HttpCookie ("Arr-Disable-Session-Affinity")
    {
        Value = "True",
HttpOnly = true
    };
    Response.Cookies.Add(affinityCookie);

}

D. Add the following markup to the web.config file:
<system.webServer>
   <httpProtocol>
      <customHeaders>
         <add name = "Arr-Disable-Session-Affinity" value = "true" />
      <customHeaders>
   <httpProtocol>
<system.webServer>

A. Option A
B. Option B
C. Option C
D. Oprion D

Correct Answer: BD
Section: [none]
Explanation

Explanation/Reference:

QUESTION 3
You need to implement the web application deployment workflow. In the Azure management portal, what should you do?

A. Set the web hosting plan to Shared. Increase the instance count to 2.
    Publish the incremental updates to the new instance.
B. Set the web hosting plan to Standard.
    Use Windows PowerShell to create a new deployment slot to publish the incremental updates.
    Swap the deployment slot after the business users have validated the updates.
C. Set the web hosting plan to Standard.
    Create a new website to host the updated web application.
    Create a Windows PowerShell script to move the contents of the new website to the production website location after the business users have
    validated the updates.
D. Download the publish profile.
    Use Visual Studio to import the publish profile.
    Deploy the web application by using the Visual Studio Publish Web wizard after the business users have validated the updates.

Correct Answer: B

Section: [none]
Explanation

Explanation/Reference:

QUESTION 4
You need to choose an Azure storage service solution.
Which solution should you choose?

A. Queue storage
B. Blob storage
C. File storage
D. Table storage

Correct Answer: C
Section: [none]
Explanation

Explanation/Reference:

QUESTION 5
DRAG DROP

You need to create the VM to replace the on-premises server. 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	Answer Area
Generalize the on-premises server by using the Sysprep utility. Create an Azure storage account. Create a container in the storage account.	
Connect Windows PowerShell to Azure, and upload the VHD.	
Use the Azure management portal to create a new VM.	
Create a new VHD.	

Correct Answer:

Actions	Answer Area
	Generalize the on-premises server by using the Sysprep utility. Create an Azure storage account. Create a container in the storage account.
	Connect Windows PowerShell to Azure, and upload the VHD.
	Use the Azure management portal to create a new VM.
Create a new VHD.	

Section: [none]
Explanation

Explanation/Reference:

QUESTION 6
HOTSPOT

You need to deploy the FileProcessor.exe program.
How should you update the project configuration file for the program? To answer, select the appropriate option or options in the answer area.

Hot Area:

Answer Area

```
<Target Name="                    ▼  ">
                   ┌─────────────────────┐
<Copy              │ AfterBuild          │
                   │ BeforeBuild         │
                   │ BeforeCompile       │
                   │ AfterCompile        │
                   └─────────────────────┘

DestinationFolder="                                          ▼  "
          ┌──────────────────────────────────────────────────────┐
          │ ..\MortgageWebApp\App_Data\jobs\continuous\FileProcessor       │
          │ ..\MortgageWebApp\App_Data\jobs\continuous\FileProcessorWebJob │
          │ ..\MortgageWebApp\App_Data\jobs\triggered\FileProcessor        │
          │ ..\MortgageWebApp\App_Data\jobs\triggered\FileProcessorWebJob  │
          └──────────────────────────────────────────────────────┘


SourceFiles="$(OutputPath)\FileProcessor.exe"
/>
</Target>
```

Correct Answer:

Answer Area

```
<Target Name="                    ▼ ">
```

| AfterBuild |
| BeforeBuild |
| BeforeCompile |
| AfterCompile |

```
<Copy
```

```
DestinationFolder="                                        ▼ "
```

| ..\MortgageWebApp\App_Data\jobs\continuous\FileProcessor |
| ..\MortgageWebApp\App_Data\jobs\continuous\FileProcessorWebJob |
| ..\MortgageWebApp\App_Data\jobs\triggered\FileProcessor |
| ..\MortgageWebApp\App_Data\jobs\triggered\FileProcessorWebJob |

```
SourceFiles="$(OutputPath)\FileProcessor.exe"
/>
</Target>
```

Section: [none]
Explanation

Explanation/Reference:

Testlet 1

CASE STUDY

Background
You are developing an Azure solution that individuals and small businesses will use to prepare and file tax-related documents.
Business Requirements
General
The solution must provide a way for customers to enter personal and demographic information. Customers must be able to upload income documents and related documents to the solution. The solution must provide reports and summary documents for customers in PDF format.
Scope and Device Accessibility
The solution must support two operational modes: On-Peak and Off-Peak. On-Peak is defined as the first quarter of a year. Off-Peak is defined as the other three quarters of a year. Customers must be able to access the solution by using desktop computers, laptop computers, mobile devices, and tablets.
High Availability and Business Continuity
The solution must be available at all times. When the solution transitions between Off-Peak mode and On-Peak mode, solution availability must not be affected. Disaster recovery must be established for the customers' stored data.
Diagnostics
The solution must log relevant diagnostic data that can be used to troubleshoot the cloud service.
Scalability
The solution must scale out while transitioning from Off-Peak mode to On-Peak mode.
Cost
The solution must use cloud resources optimally to minimize operating costs.
Storage and Security
The solution must be secure to prevent any anonymous access (including read access) to the customers' tax documents.
Cross-Premises Networking
The solution must extend the developers' on-premises network into Azure.
Technical Requirements
The logical design for the solution is shown in the following exhibit.
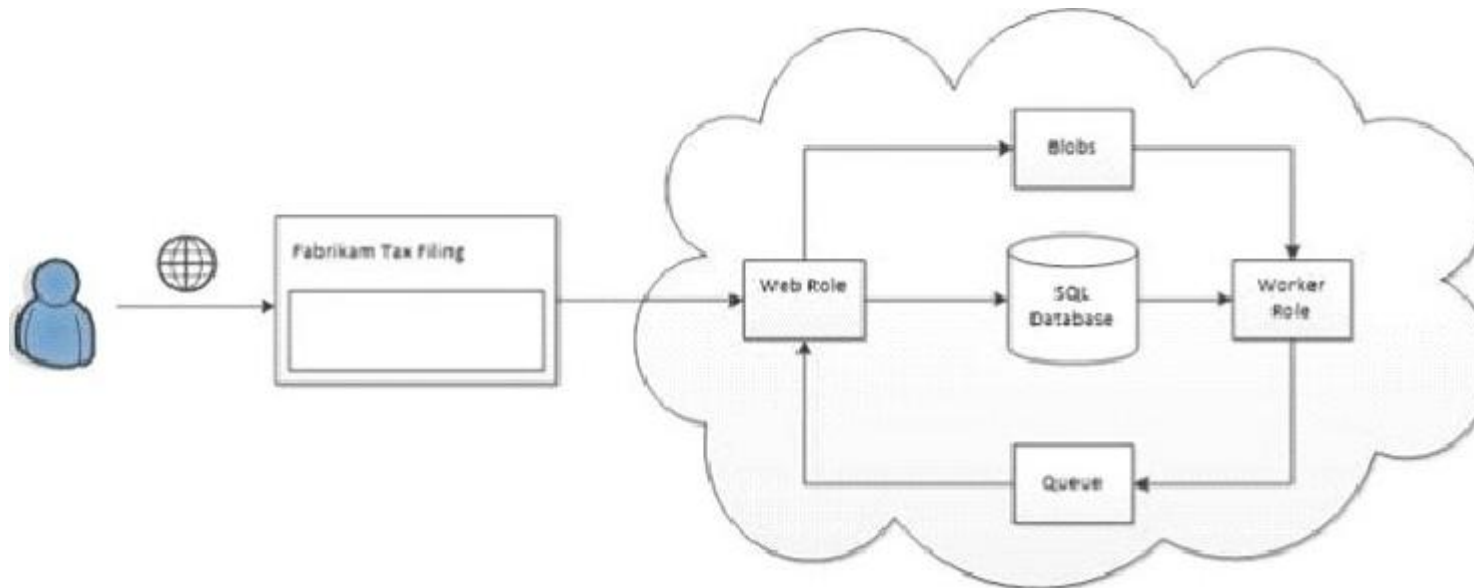
Platform-as-a-Service (PaaS)
The solution must have two roles: a web role and worker role. The web interface of the solution uses a web role to accept and send user input and any related documents. The worker role must access the stored data and prepare the tax documents in the background.

Compute
The solution must support a minimum of 10 role instances. When the solution is in On- Peak mode, each role instance must be allocated at least 6 GB of memory. The memory can be scaled down to 3 GB when the solution is in Off-Peak mode. The solution must cache documents locally. The cache does not need to be refreshed during the lifecycle of the worker role.
Role instances that are running should not be affected by topology changes such as an increase in instance count.

Storage
The web role must store documents in blob storage. A SQL database is used to store customer information. The worker role must use queues to process the final tax documents.

Performance and Scalability
When the solution is in Off-Peak mode, it must support at least 150 concurrent database sessions, and the maximum size of the database is 50 GB. When the solution is in On- Peak mode, it must support 750 concurrent database sessions, and the maximum size of the database is 300 GB. Geo-replication must be enabled and must be configurable by using the Azure management portal.

Software Prerequisites
The solution must install the software that is necessary to generate PDF documents on the server. The software will be provided as a Windows Installer package.

Debugging
Solution errors and warnings that occur in a web role must be logged. The worker role must log any crash dump files. Detailed information about errors and their context must be collected so that the environment in which errors occurred can be simulated locally.

Security

At the time that a customer's tax information and documents are accepted, the solution must send an email to the customer. The email contains a secure hyperlink that the customer can use to upload any additional necessary documents. The customer is asked to upload these documents within 48 hours. If the customer does not upload the documents within 48 hours, the solution should not issue a new hyperlink. The solution must send an email to the customer to remind the customer to use the original hyperlink to upload any additional necessary documents.

Network Services

The solution must use a cross-premises secure network. The network must be configurable by using the Azuremanagement portal.

Social Structure

Relevant portions of the solution files are shown in the following code segments. Line numbers in the code segments are included for reference only and include a two-character prefix that denotes

InstallPrereqs.cmd

```
IP01  msiexec.exe /i pdfwriter.msi /qb
IP02  EXIT /B 0
```

ServiceDefinition.csdef

```
SD01 <ServiceDefinition name="Fabrikam"
        xmlns=http://schemas.microsoft.com/ServiceHosting/2008/10/ServiceDefinition
        schemaVersion="2014-01.2.3">
SD02     <WorkerRole name="WorkerRole" vmsize="Small">
SD03       <Imports>
SD04         <Import moduleName="Diagnostics" />
SD05       </Imports>
SD06
SD07     </WorkerRole>
SD08     <WebRole name="WebRole" vmsize="Small">
SD09       <Sites>
SD10         <Site name="Web">
SD11           <Bindings>
SD12             <Binding name="Endpoint1" endpointName="Endpoint1" />
SD13           </Bindings>
SD14         </Site>
SD15       </Sites>
SD16       <Endpoints>
SD17         <InputEndpoint name="Endpoint1" protocol="http" port="80" />
SD18       </Endpoints>
SD19       <Imports>
SD20         <Import moduleName="Diagnostics" />
SD21       </Imports>
SD22
SD23     </WebRole>
SD24 </ServiceDefinition>
```

QUESTION 1
You need to configure diagnostics for the Azure solution. Which two types of diagnostic data should you collect? Each correct answer presents part of the solution.

A. Application logs
B. Event logs
C. Crash dumps
D. Infrastructure logs
E. IIS logs
F. Performance counters

Correct Answer: BC
Section: [none]
Explanation

Explanation/Reference:

QUESTION 2
You need to configure role instances.
Which size should you specify for the VM?

A. Use Small for Off-Peak mode.
B. Use Large for On-Peak mode.
C. Use Extra Large for On-Peak mode.
D. Use Extra Small for Off-Peak mode.

Correct Answer: B
Section: [none]
Explanation

Explanation/Reference:

QUESTION 3
You need to meet the performance and scalability requirements.
Which SQL Database configuration should you use?

A. Use the S1 performance level for On-Peak mode.
B. Use the P2 performance level for On-Peak mode.
C. Use the S2 performance level for On-Peak mode.
D. Use the PI performance level for On-Peak mode.

Correct Answer: D
Section: [none]
Explanation

Explanation/Reference:

QUESTION 4

DRAG DROP

You need to insert
markup at line SD22 to install the software that generates PDF documents. How should you complete the relevant markup? To answer, drag the appropriate code segments to the correct locations. Each code segment 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:

Code Segments

| Startup |
| Runtime |
| msiexec.exe /i pdfwriter.msi /qb |
| InstallPrereqs.cmd |
| elevated |
| limited |
| simple |
| background |

Answer Area

< [   ] >

<Task

  commandLine=" [   ] "

  taskType=" [   ] "

  executionContext=" [   ] "

/>

</ [   ] >

Correct Answer:

Code Segments

| Startup |
| Runtime |
| msiexec.exe /i pdfwriter.msi /qb |
| InstallPrereqs.cmd |
| elevated |
| limited |
| simple |
| background |

Answer Area

```
< | Startup | >

<Task
    commandLine=" | InstallPrereqs.cmd | "
    taskType=" | simple | "
    executionContext=" | elevated | "
/>

</ | Startup | >
```

Section: [none]
Explanation

Explanation/Reference:

QUESTION 5
HOTSPOT
You need to insert code at line SB11 to apply the storage access policy. How should you complete the relevant code segment? To answer, select the appropriate option or options in the answer area.

Hot Area:

Answer Area

```
private SharedAccessBlobPolicy GetSharedAccessBlobPolicy()
{
  SharedAccessBlobPolicy policy = new SharedAccessBlobPolicy()
  {

    SharedAccessStartTime = [                    ▼] ,
                            ┌──────────────────────────┐
                            │ DateTime.UtcNow           │
                            │ DateTime.Today            │
                            └──────────────────────────┘

    SharedAccessExpiryTime = [                        ▼] ,
                            ┌────────────────────────────────────────────────┐
                            │ DateTime.UtcNow.AddHours(48)                     │
                            │ DateTime.UtcNow.Subtract(TimeSpan.FromHours(48)) │
                            │ DateTime.Today(AddHours(48)                      │
                            └────────────────────────────────────────────────┘


    Permissions = SharedAccessBlobPermissions.List |
                  [                                               ▼]
                  ┌──────────────────────────────────────────────────────────────────┐
                  │ SharedAccessBlobPermissions.Read | SharedAccessBlobPermissions.Write │
                  │ SharedAccessBlobPermissions.Read | SharedAccessBlobPermissions.Delete│
                  │ SharedAccessBlobPermissions.ReadWrite                               │
                  └──────────────────────────────────────────────────────────────────┘

  };
  return policy;
}
private void ApplySharedAccessPolicy(CloudBlobContainer blobContainer)
{
  SharedAccessBlobPolicy sharedAccessPolicy = this.GetSharedAccessBlobPolicy();
  BlobContainerPermissions permissions = new BlobContainerPermissions();
  permissions.SharedAccessPolicies.Add("DocumentBlob", sharedAccessPolicy);

  permissions.PublicAccess = [                ▼] ;
                            ┌────────────────────────────────────┐
  }                         │ BlobContainerPublicAccessType.Off    │
                            │ BlobContainerPulicAccessType.Container│
                            │ BlobContainerPublicAccessType.Blob   │
                            └────────────────────────────────────┘
```

Correct Answer:

Answer Area

```
private SharedAccessBlobPolicy GetSharedAccessBlobPolicy()
{
    SharedAccessBlobPolicy policy = new SharedAccessBlobPolicy()
    {

        SharedAccessStartTime = [                    ▼] ,
                                 ┌──────────────────────────┐
                                 │ DateTime.UtcNow           │
                                 │ DateTime.Today            │
                                 └──────────────────────────┘

        SharedAccessExpiryTime = [                         ▼] ,
                                 ┌──────────────────────────────────────────────┐
                                 │ DateTime.UtcNow.AddHours(48)                  │
                                 │ DateTime.UtcNow.Subtract(TimeSpan.FromHours(48)) │
                                 │ DateTime.Today(AddHours(48)                   │
                                 └──────────────────────────────────────────────┘


        Permissions = SharedAccessBlobPermissions.List |
                      [                                              ▼]
                      ┌───────────────────────────────────────────────────────────────────┐
                      │ SharedAccessBlobPermissions.Read | SharedAccessBlobPermissions.Write │
                      │ SharedAccessBlobPermissions.Read | SharedAccessBlobPermissions.Delete│
                      │ SharedAccessBlobPermissions.ReadWrite                               │
                      └───────────────────────────────────────────────────────────────────┘

    };
    return policy;
}
private void ApplySharedAccessPolicy(CloudBlobContainer blobContainer)
{
    SharedAccessBlobPolicy sharedAccessPolicy = this.GetSharedAccessBlobPolicy();
    BlobContainerPermissions permissions = new BlobContainerPermissions();
    permissions.SharedAccessPolicies.Add("DocumentBlob", sharedAccessPolicy);

    permissions.PublicAccess = [                    ▼] ;
                               ┌──────────────────────────────────┐
                               │ BlobContainerPublicAccessType.Off       │
                               │ BlobContainerPulicAccessType.Container   │
                               │ BlobContainerPublicAccessType.Blob       │
                               └──────────────────────────────────┘
}
```

Section: [none]
Explanation

Explanation/Reference:

QUESTION 6
You need to debug the Azure solution.
Which tool should you use?

A. Compute emulator
B. Remote debugging
C. Emulator Express
D. IntelliTrace
E. Profiling

Correct Answer: C
Section: [none]
Explanation

Explanation/Reference:

QUESTION 7
DRAG DROP

You need to meet the high availability and business continuity requirements. 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

Create a primary database on the Standard service tier.

Configure a secondary database to use a different region than the primary database is deployed to.

Configure a secondary database to use the same server that the primary database is deployed to.

In the Azure management portal, enable geo-replication.

Configure a secondary database to use the same region that the primary database is deployed to.

Create a primary database on the Premium service tier.

Answer Area

Correct Answer:

Actions	Answer Area
	Create a primary database on the Standard service tier.
	In the Azure management portal, enable geo-replication.
Configure a secondary database to use the same server that the primary database is deployed to.	Configure a secondary database to use a different region than the primary database is deployed to.
Configure a secondary database to use the same region that the primary database is deployed to.	
Create a primary database on the Premium service tier.	

Section: [none]
Explanation

Explanation/Reference:

QUESTION 8
DRAG DROP

You need to insert code at line SB17 to create the hyperlink that customers use to upload additional necessary documents.
How should you complete the relevant code? To answer, drag the appropriate code segments to the correct locations. Each code segment 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:

Code Segments

- GetSharedAccessSignature
- CreateCloudBlobClient
- CreateIfNotExists
- blobContainer.Uri, token
- Token, blobContainer.Uri
- GetSharedAccessBlobPolicy

Answer Area

```
private string GetSASContainerURI(CloudBlobContainer blobContainer)
{
    string token = blobContainer. [            ] (null, "DocumentBlob");

    return String.Format("{0}{1}", [            ] );

}
private CloudBlobContainer GetBlobContainer()
{
    CloudStorageAccount storageAccount =
        CloudStorageAccount.Parse (CloudConfigurationManager.GetSetting("StorageConnectionString"));

    CloudBlobClient blobClient = storageAccount. [            ] ();

    CloudBlobContainer blobContainer
        = blobClient.GetContainerReference("blobContainerSAS");

    blobContainer. [            ] ();

}
```

Correct Answer:

Code Segments

Answer Area

```
private string GetSASContainerURI(CloudBlobContainer blobContainer)
{
    string token = blobContainer. GetSharedAccessSignature (null, "DocumentBlob");

    return String.Format("{0}{1}", blobContainer.Uri, token );
}
private CloudBlobContainer GetBlobContainer()
{
    CloudStorageAccount storageAccount =
      CloudStorageAccount.Parse (CloudConfigurationManager.GetSetting("StorageConnectionString"));

    CloudBlobClient blobClient = storageAccount. CreateCloudBlobClient ();

    CloudBlobContainer blobContainer
      = blobClient.GetContainerReference("blobContainerSAS");

    blobContainer. CreateIfNotExists ();
}
```

Code Segments:
- Token, blobContainer.Uri
- GetSharedAccessBlobPolicy

Section: [none]
Explanation

Explanation/Reference:

QUESTION 9
You have an ASP.NET application that runs in a cloud service. A new version of the application is ready for release. The new version contains code changes and new SSL certificates. The application consists of six instances of a web role and four instances of a worker role. The application performs at or near full capacity. The cloud service uses the default number of fault domains and upgrade domains. You plan to deploy the new version of the application. The performance and capacity of the web roles must not degrade during the deployment. Temporary degradation of the worker roles is acceptable.
The deployment must take a maximum of six hours.
You need to deploy the new version of the ASP.NET application to the cloud service. Which two approaches will achieve the goal? Each correct answer presents a complete solution.

A. Increase the number of web role instances to eight, and then deploy the new version of the application by using an in-place update.

Reduce the number of web role instances to six after the upgrade is completed.
B. Deploy the new version of the application by using an in-place update.
    Use upgrade domains to ensure that there is sufficient capacity during the upgrade.
C. Deploy the new version of the application into the staging slot for the cloud service.
    Then activate the new version of the application by swapping virtual IP (VIP) addresses.
D. Delete the old version of the application, and deploy the new version of the application.

Correct Answer: BC
Section: [none]
Explanation

Explanation/Reference: