70-487^{Q&As}

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Developing Microsoft Azure and Web Services

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QUESTION 1

You have a Web.config file that contains the following markup.

```xml
<?xml version="1.0"?>
<configuration>
 <appSettings>
  <add key="Key1" value="Value1" />
  <add key="Key2" value="Value2" />
  <add key="Key3" value="Value3" />
 </appSettings>
</configuration>
```

You need to use an XSLT transformation to remove the add tag for Key3. Which markup should you use?

A.

B.

C.

D.

Correct Answer: D

References: https://msdn.microsoft.com/en-us/library/dd465326(v=vs.110).aspx

QUESTION 2

DRAG DROP

A company is developing an application that will store various kinds of data from different sources.

You need to recommend storage solutions.

Which storage solutions should you recommend? To answer, drag the appropriate storage solutions to the correct data type. Each storage 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.

NOTE: Each correct selection is worth one point.

Select and Place:

Storage solutions

Cosmos DB

Blob storage

Queue storage

SQL Server database

Answer Area

Data type

Entities of named properties and values

Entities such as binary files

In-Memory OLTP tables

Document-based data

Storage solution

Storage solution

Storage solution

Storage solution

Storage solution

Correct Answer:

Storage solutions

Cosmos DB

Blob storage

Queue storage

SQL Server database

Answer Area

Data type

Entities of named properties and values

Entities such as binary files

In-Memory OLTP tables

Document-based data

Storage solution

SQL Server database

Blob storage

SQL Server database

Blob storage

Box 1: SQL Server database Box 2: Blob storage

Azure Blob storage is Microsoft\\'s object storage solution for the cloud. Blobs are basically files. They store pictures, documents, HTML files, virtual hard disks (VHDs), big data such as logs, database backups. Blob storage is optimized for storing massive amounts of unstructured data, such as text or binary data. Box 3: SQL Server database

In-Memory OLTP has been part of the SQL Server product since 2012 and 2014, respectively. Azure SQL Database and SQL Server share the same implementation of In-Memory technologies. Box 4: Blob storage

Azure Blob storage is Microsoft\\'s object storage solution for the cloud. Blobs are basically files. They store pictures, documents, HTML files, virtual hard disks (VHDs), big data such as logs, database backups. Blob storage is optimized for

storing massive amounts of unstructured data, such as text or binary data.

Incorrect Answers:

Azure Cosmos DB is Microsoft\\'s globally distributed, multi-model database service. Cosmos DB enables you to elastically and independently scale throughput and storage across any number of Azure regions worldwide.

Azure Queue Storage is a service for storing large numbers of messages. You access messages from anywhere in the world via authenticated calls using HTTP or HTTPS. A queue message can be up to 64 KB in size. Queues are commonly

used to create a backlog of work to process asynchronously.

References:

https://docs.microsoft.com/en-us/azure/storage/common/storage-introduction https://azure.microsoft.com/en-us/blog/in-memory-oltp-in-azure-sql-database/ https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/data-storage https://docs.microsoft.com/en-us/azure/storage/queues/storage-queues-introduction

QUESTION 3

You are developing an ASP.NET MVC web application that contains the following HTML.

You also have an ASP.NET Web API application that contains a call for retrieving customers.

You must send and retrieve the data in the most compact format possible.

You need to update the HTML for the customers table to contain data from the Web API application.

Which script segment should you use?

```
A.  <script>
      $(function () {
        var $customers = $("#customers");
        $.ajax({
          url: "api/customers",
          dataType: "json",
          success: function (data) {
            ...
          }
        });
      });
    </script>
```

```
B.  <script>
      $(function () {
        var $customers = $("#customers");
        $.xml({
          url: "api/customers",
          dataType: "ajax",
          success: function (data) {
            ...
          }
        });
      });
    </script>
```

```
C.  <script>
      $(function () {
        var $customers = $("#customers");
        $.json({
          url: "api/customers",
          dataType: "ajax",
          success: function (data) {
            ...
          }
        });
      });
    </script>
```

```
D.  <script>
      $(function () {
        var $customers = $("#customers");
        $.ajax({
          url: "api/customers",
          dataType: "xml",
          success: function (data) {
            ...
          }
        });
      });
    </script>
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

QUESTION 4

DRAG DROP

You need to configure settings to identify regional outages.

Which values should you use? To answer, drag the appropriate values to the correct settings. Each value may be used once, more than once, or mot at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Correct Answer:

Box 1, Probing interval: 10 Probing Interval. This value specifies how often an endpoint is checked for its health from a Traffic Manager probing agent. You can specify two values here: 30 seconds (normal probing) and 10 seconds (fast probing). If no values are provided, the profile sets to a default value of 30 seconds.

Box 2: Tolerated Number of Failures: 3 Tolerated Number of Failures. This value specifies how many failures a Traffic Manager probing agent tolerates before marking that endpoint as unhealthy. Its value can range between 0 and 9. A value of 0 means a single monitoring failure can cause that endpoint to be marked as unhealthy. If no value is specified, it uses the default value of 3.

Scenario: Regional access to the Event Service API

Data for partners in Germany and Brazil must be served from Azure datacenters in their respective geographies unless there is a regional Azure outage. All other partners must use the US West Azure datacenter.

The solution will be highly available. You define regional Azure outages as periods of 60 seconds or more where the Event Service is not available.

References: https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-monitoring

QUESTION 5

You are developing a Windows Communication Foundation (WCF) service named WCF1.

WCF1 will use a certificate to secure the communication channel.

You need to ensure that the WCF service uses a certificate to secure the communication channel.

How should you complete the code? To answer, drag the appropriate code blocks to the correct locations. Each code block 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 blocks

ClientCredentialType
GetType
MessageCredentialType.Certificate
MessageCredentialType.IssuedToken
MessageCredentialType.Windows
SetCertificate

●●●●

Answer Area

```
WSHttpBinding aBinding = new WSHttpBinding();
    aBinding.Security.Mode = SecurityMode.Message;

    aBinding.Security.Message [ Code Block ]  =

         [ Code Block ]  ;

EndpointAddress wcfEP = new EndpointAddress("http://wcf1");
WCFClient wcfClient = new WCFClient(aBinding, wcfEP);

wcfClient.ClientCredentials.ClientCertificate. [ Code block ]  (

    StoreLocation.CurrentUser, StoreName.My, X509FindType.FindBySubjectName, "wcf1.com");
```

Correct Answer:

Code blocks

```
GetType

MessageCredentialType.IssuedToken

MessageCredentialType.Windows
```

....

Answer Area

```
WSHttpBinding aBinding = new WSHttpBinding();
    aBinding.Security.Mode = SecurityMode.Message;

    aBinding.Security.Message  ClientCredentialType      =

        MessageCredentialType.Certificate   ;

    EndpointAddress wcfEP = new EndpointAddress("http://wcf1");
    WCFClient wcfClient = new WCFClient(aBinding, wcfEP);

    wcfClient.ClientCredentials.ClientCertificate.  SetCertificate      (

        StoreLocation.CurrentUser, StoreName.My, X509FindType.FindBySubjectName, "wcf1.com");
```

QUESTION 6

You are developing an ASP.NET MVC application.

Deployment administrators do not have access to Visual Studio 2102, but will have the elevated permissions required to deploy the application to the servers. You need to select a deployment tool for use by the deployment administrators.

Which tool should you use?

A. Publish Web Site Tool

B. Web Deployment Package

C. One-Click Publish

D. Deployment Package Editor

Correct Answer: B

QUESTION 7

You have a web application that was developed by using Microsoft ASP.NET MVC. The application is deployed to an Azure web app and uses an Azure SQL Database.

From a development environment, you use Microsoft Visual Studio to change the application code, and you modify the schema of the database.

You need to deploy the changes to Azure.

Which publishing method should you use?

A. BACPAC

B. FTP

C. Msdeploy

D. Robocopy

Correct Answer: A

You can deploy a .bacpac file to an Azure SQL Database using an Azure Resource Manager Template. .bacpac contains the schema and data necessary to deploy your database.

Note: A BACPAC file is a ZIP file with an extension of BACPAC containing the metadata and data from a SQL Server database. A BACPAC file can be stored in Azure blob storage or in local storage in an on-premises location and later imported back into Azure SQL Database or into a SQL Server on-premises installation. References: https://docs.microsoft.com/en-us/azure/sql-database/sql-database-export

QUESTION 8

You are adding a new REST service endpoint to the FlightDataController controller. It returns flights from the consolidated data sources only for flights that are late.

You need to write a LINQ to Entities query to extract the required data.

Which code segment should you use?

```
A.   var historical = LoadHistorical();
     var query = _Context.FlightInfo.AsQueryable()
      .Join(historical, x => x.Flight, y => y.Flight, (x, y) => new { Current = x,
Historical = y })
       .Where(x => x.Historical.WasLate)
       .Select(x => x.Current);
```

```
B.   var historical = LoadHistorical();
     var query = _Context.FlightInfo.AsEnumerable()
      .Where(x => historical.All(y => y.WasLate && x.Flight == y.Flight))
      .Select(x => x);
```

```
C.   var historical = LoadHistorical();
     var query = _Context.FlightInfo.AsQueryable()
      .Where(x => historical.Select(y => y.Flight).Contains(x.Flight))
      .Where(x => historical.Any(y => y.WasLate))
      .Select(x => x);
```

```
D.   var historical = LoadHistorical();
     var query = _Context.FlightInfo.AsEnumerable()
      .Join(historical, x => x.Flight, y => y.Flight, (x, y) => new { Current = x,
Historical = y })
       .Where(x => x.Historical.WasLate)
       .Select(x => x.Current);
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

QUESTION 9

You are developing a WCF service.

A new service instance must be created for each client request.

You need to choose an instancing mode.

Which instancing mode should you use?

A. Single

B. PerRequest

C. PerCall

D. Multiple

E. PerSession

Correct Answer: C

QUESTION 10

DRAG DROP

The GetExternalOrders() method must use members of the EntityClient namespace to query the database for all records in the InboundQueue entity.

You need to modify the GetExternalOrders() method to return the correct data.

You have the following code:

```
public List<Entitites.InboundQueue> GetExternalOrders ()
{
    EntityConnection connection =
     new EntityConnection ("name = Target 1");
    connection.Open();
    EntityCommand cmd = connection.CreateCommand()
    cmd.CommandText = @ "select q.OrderNum, q.VendorId.
      q.FilePath, q.OrderValue
       from Target 2.InboundQueues as q';
    EntityDataReader rdr=
    cmd. Target 3
    (CommandBehavior. Target 4);
    List<InboundQueue> queueItems = new List<InboundQueue> ();
    while (rdr.Read())
    {
        queueItems.OrderNum = Convert.ToInt32(rdr["OrderNum"]);
        queueItems.VendorId = Convert.ToInt32(rdr["VendorId"]);
        queueItems.FilePath = rdr["FilePath"]).ToString();
        queueItems.OrderValue = Convert.ToDecimal (rdr["OrderValue"]);
        queueItems.Add(queueItem);
    }
    rdr.Close();
    connection.Close();
    return queueItems;
}
```

Which code segments should you include in Target1, Target2, Target3 and Target4 to complete the code? To answer, drag the appropriate code segments to the correct targets in the answer area. 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.

NOTE: Each correct selection is worth one point.

Select and Place:

Correct Answer:

```
                    ........
                                Answer Area

ExecuteReader          public List<Entities.InboundQueue> GetExternalOrders()
                       {
ExecuteScalar              EntityConnection connection =

SequentialAccess
                               new EntityConnection("name=  ExternalOrdersEntities       ");
KeyInfo
                           connection.Open();
ExternalOrders             EntityCommand cmd = connection.CreateCommand ();
                           cmd.CommandText = @"select q.OrderNum, q.VendorId,
ExternalOrdersEntities                         q.FilePath, q.OrderValue

                                       from   ExternalOrdersEntities       .InboundQueues as q";

                           EntityDataReader rdr =

                               cmd.   ExecuteReader              (CommandBehavior.  SequentialAccess      );

                           List<InboundQueue> queueItems = new List<InboundQueue>();
                           while (rdr.Read        ())
                           {
                               InboundQueue queueItem = new InboundQueue();
                               queueItem.OrderNum = Convert.ToInt32(rdr["OrderNum"]);
                               queueItem.VendorId = Convert.ToInt32(rdr["VendorId"]);
                               queueItem.FilePath = rdr["FilePath"].ToString();
                               queueItem.OrderValue = Convert.ToDecimal(rdr["OrderValue"]);
                               queueItems.Add(queueItem);
                           }
                           rdr.Close      ();
                           connection.Close      ();
                           return queueItems;
                       }
```
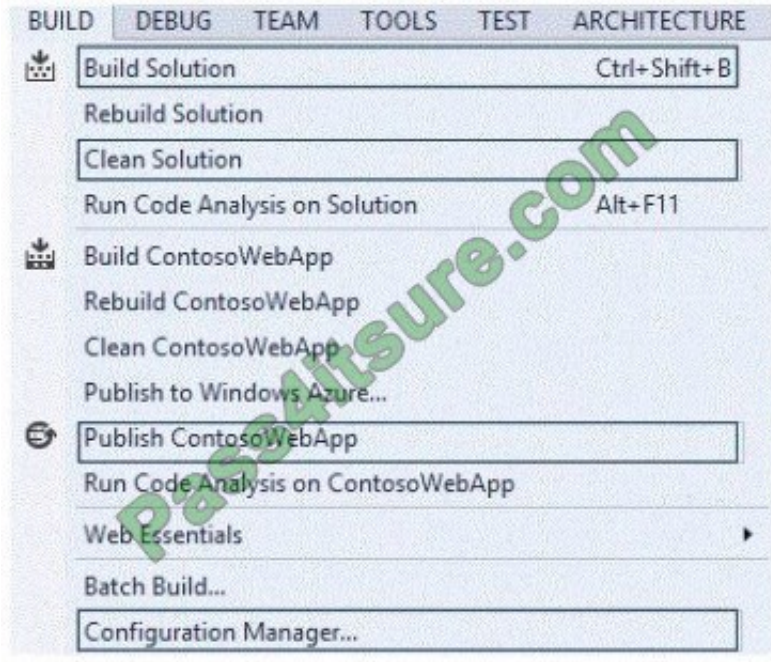
QUESTION 11

You are developing an ASP.NET MVC application named ContosoWebApp. You are ready to deploy the application to your production web server.

You need to import the publishing profile.

Which menu item should you use? (To answer, select the appropriate menu item in the answer area).

Hot Area:

```
BUILD    DEBUG    TEAM    TOOLS    TEST    ARCHITECTURE
  📥  | Build Solution                            Ctrl+Shift+B |
       Rebuild Solution
      | Clean Solution                                         |
       Run Code Analysis on Solution               Alt+F11

  📥   Build ContosoWebApp
       Rebuild ContosoWebApp
       Clean ContosoWebApp
       Publish to Windows Azure...
  🔁  | Publish ContosoWebApp                                  |
       Run Code Analysis on ContosoWebApp
       Web Essentials                                         ▶
       Batch Build...
      | Configuration Manager...                               |
```

Correct Answer:

```
BUILD    DEBUG    TEAM    TOOLS    TEST    ARCHITECTURE
  📥  | Build Solution                            Ctrl+Shift+B |
       Rebuild Solution
      | Clean Solution                                         |
       Run Code Analysis on Solution               Alt+F11

  📥   Build ContosoWebApp
       Rebuild ContosoWebApp
       Clean ContosoWebApp
       Publish to Windows Azure...
  🔁  | Publish ContosoWebApp                                  |
       Run Code Analysis on ContosoWebApp
       Web Essentials                                         ▶
       Batch Build...
      | Configuration Manager...                               |
```

QUESTION 12

DRAG DROP

You need to add code to line SU12 to implement the customer identification requirement.

How should you complete the 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.

NOTE: Each correct selection is worth one point.

Select and Place:

Method names

| Scoped |
| Session |
| Identity |
| Singleton |

Generic types

| () |
| <IEventDB, EventDB>() |
| <EventDB>() |

Answer area

services.Add [Method name] [Generic type] ;

Correct Answer:

Method names

| Scoped |
| Session |
| |
| Singleton |

Generic types

| () |
| <IEventDB, EventDB>() |
| |

Answer area

services.Add [Identity] [<EventDB>()] ;

QUESTION 13

You are deploying an Internet of Things (IoT) environment. You plan to collect data from various sources on irregular intervals. You need to implement a solution that meets the requirements of the following groups of users:

Group	Descriptions
Analysts	Analysts access raw data collected from IoT devices.
Researchers	Researchers analyze data stored in an Azure SQL Database instance.
Data scientists	Data scientists analyze collected data to identify trends and to make predictions about future behavior.

What should you implement? To answer, drag the appropriate products to the correct groups. Each product may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content. NOTE: Each correct selection is worth one point.

Select and Place:

Products

| Event Hubs |
| IoT Hubs |
| Machine Learning Studio |
| Stream Analytics |

Answer area

Group	Product
Analysts	Product
Researchers	Product
Data Scientists	Product

Correct Answer:

Products

| Event Hubs |
| |
| |
| |

Answer area

Group	Product
Analysts	IoT Hubs
Researchers	Stream Analytics
Data Scientists	Machine Learning Studio

References: https://docs.microsoft.com/en-us/azure/machine-learning/studio/what-is-ml-studio
https://docs.microsoft.com/en-us/azure/iot-hub/ https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-introduction

You are designing an ASP.NET Web API for a bank. The API has a controller named AccountsController that includes the following actions:

Action	Description
GetTransactions	This action accepts a date range and account identifier and retrieves all transactions for the given account identifier in the given date range from a SQL Server database.
GenerateLoanPaymentPlan	This action generates a loan payment plan for the given account identifier and loan amount, payment duration, and interest rate. This action is processed locally on the web server. No database calls are required.
GetCreditScore	This action gets the credit score for the owner of the given account identifier by using a SOAP web service provided by a credit rating agency.
GetOffers	This action serves a PDF file of recent offers. The PDF files are stored locally on the web server and no database calls are required.

QUESTION 14

You are developing a Windows Azure based web application that provides users the ability to rent training videos. The application is deployed to hosted services in Asia and Europe. The web application must meet the following requirements:

1.

Video files are large and must be able to be streamed.

2.

Streaming videos requires low latency network connections.

3.

Rental data contains structured information about the uer and the video.

4.

Rental permissions are checked every five seconds during video playback.

You need to recommend a storage architecture for the application.

What should you do? (To answer, drag the appropriate technologies to the correct location or locations in the answer area. 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:
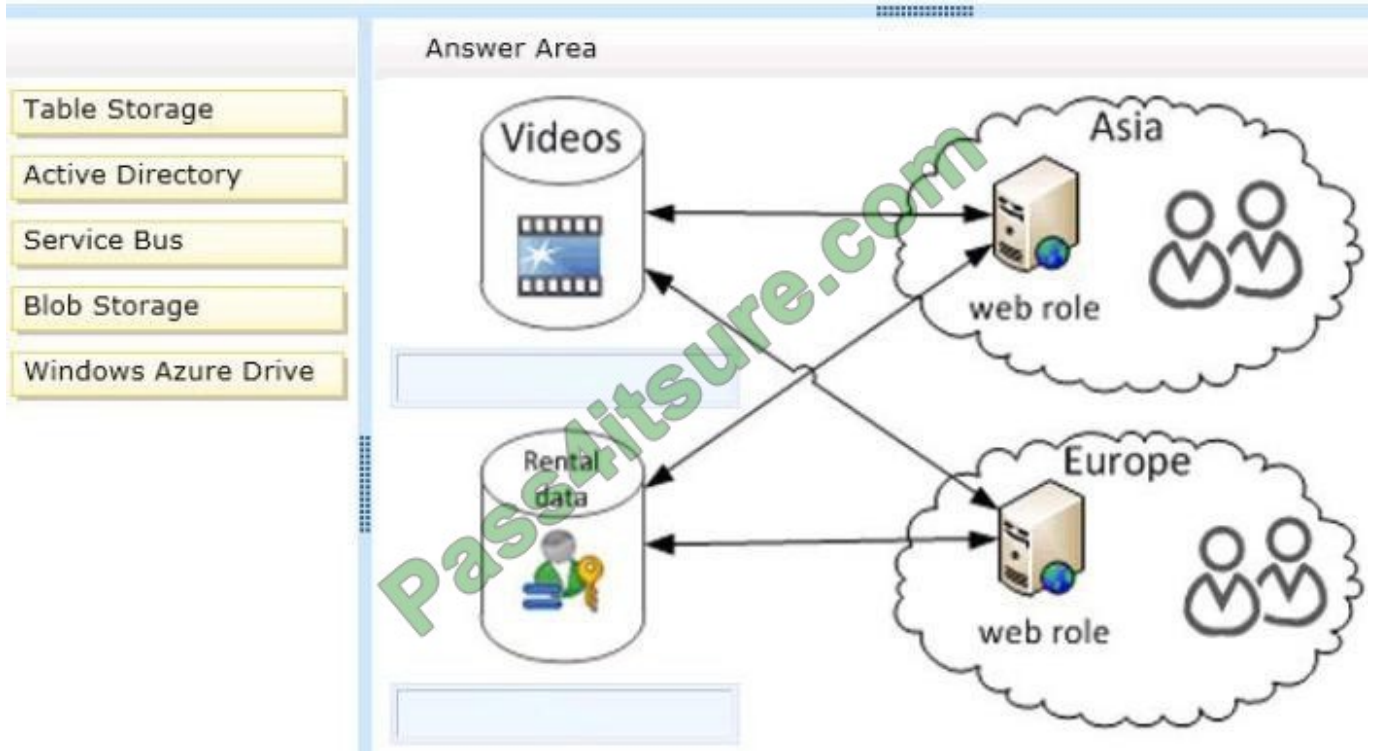
Correct Answer:
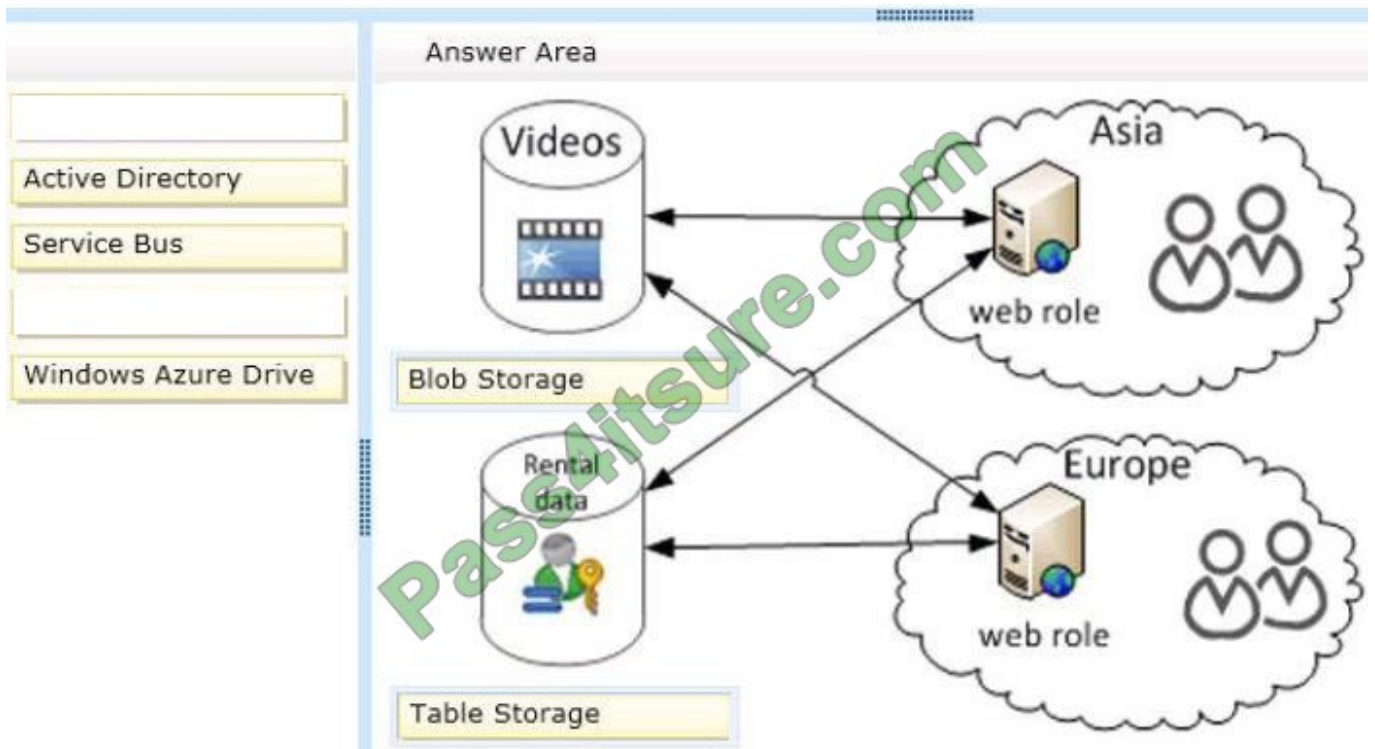
QUESTION 15

You add a .NET application to a Docker container and deploy the container to Azure Service Fabric. You use a corporate base image that includes Microsoft SQL Server for storing data.

You deploy the application to development and staging environments. No issues are reported. You deploy the application to your production environment. Data is not persisted in the production environment.

You need to resolve the issue.

What should you do?

A. Install Docker tools in the container.

B. In the docker-compose.override.yml file, configure the db service to start before the web application.

C. Update the connection string in the web.config file to point to the SQL Server database in the container.

D. Remove SQL Server from the base image and convert the database to Azure SQL Database.

Correct Answer: C

References: https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-host-app-in-a-container

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