

## 70-534 Dumps

### Architecting Microsoft Azure Solutions

<https://www.certleader.com/70-534-dumps.html>



**NEW QUESTION 1**

You need to design the system that alerts project managers to data changes in the contractor information app. Which service should you use?

- A. Azure Mobile Service
- B. Azure Service Bus Message Queueing
- C. Azure Queue Messaging
- D. Azure Notification Hub

**Answer:** C

**Explanation:** \* Scenario:

/ Mobile Apps: Event-triggered alerts must be pushed to mobile apps by using a custom Node.js script.

/ The service level agreement (SLA) for the solution requires an uptime of 99.9%

\* If you are already using Azure Storage Blobs or Tables and you start using queues, you are guaranteed 99.9% availability. If you use Blobs or Tables with Service Bus queues, you will have lower availability.

Note: Microsoft Azure supports two types of queue mechanisms: Azure Queues and Service Bus Queues.

/ Azure Queues, which are part of the Azure storage infrastructure, feature a simple REST- based Get/Put/Ppeek interface, providing reliable, persistent messaging within and between services.

/ Service Bus queues are part of a broader Azure messaging infrastructure that supports queuing as well as publish/subscribe, Web service remoting, and integration patterns.

References: <https://msdn.microsoft.com/en-us/library/azure/hh767287.aspx>

**NEW QUESTION 2**

You are designing a plan to deploy a new application to Azure. The solution must provide a single sign-on experience for users. You need to recommend an authentication type. Which authentication type should you recommend?

- A. SAML credential tokens
- B. Azure managed access keys
- C. Windows Authentication
- D. MS-CHAP

**Answer:** A

**Explanation:** A Microsoft cloud service administrator who wants to provide their Azure Active Directory (AD) users with sign-on validation can use a SAML 2.0 compliant SP-Lite profile based Identity Provider as their preferred Security Token Service (STS) / identity provider. This is useful where the solution implementer already has a user directory and password store on- premises that can be accessed using SAML 2.0. This existing user directory can be used for sign-on to Office 365 and other Azure AD-secured resources.

References: <https://msdn.microsoft.com/en-us/library/azure/dn641269.aspx?f=255&MSPPErr=-2147217396>

**NEW QUESTION 3**

You need to prepare the implementation of data storage for the contractor information app. What should you do?

- A. Create a storage account and implement multiple data partitions.
- B. Create a Cloud Service and a Mobile Service
- C. Implement Entity Group transactions.
- D. Create a Cloud Service and a Deployment group
- E. Implement Entity Group transactions.
- F. Create a Deployment group and a Mobile Service
- G. Implement multiple data partitions.

**Answer:** B

**Explanation:** \* Scenario:

/ VanArsdel needs a solution to reduce the number of operations on the contractor information table. Currently, data transfer rates are excessive, and queue length for read/write operations affects performance.

/ A mobile service that is used to access contractor information must have automatically scalable, structured storage

\* The basic unit of deployment and scale in Azure is the Cloud Service. References: <https://msdn.microsoft.com/en-us/library/azure/dd894038.aspx>

**NEW QUESTION 4**

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.

**Answer:** D

**Explanation:** \* Scenario: distribution tracking application

The system is processor intensive and should be run in a multithreading environment.

References: <http://mark.mymonster.nl/2013/01/29/running-multiple-workers-inside-one-windows-azure-worker-role>

#### NEW QUESTION 5

##### DRAG DROP

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.

##### 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

##### Answer:

**Explanation:** \* Distribution tracking

The company wants to ensure that the distribution tracking data is stored at a location that is geographically close to the customers who will be using the information.

\* / HRApp

The data must remain on-premises and cannot be stored in the cloud.

\* / Metrics application

Data is stored on an on-premises SQL Server database, but this data should be moved to the cloud.

#### NEW QUESTION 6

##### HOTSPOT

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.

Strategy	Human Resources Application	Metrics Application
Create separate SQL databases on individual virtual machines and partition appropriately.	<input type="radio"/>	<input type="radio"/>
Migrate the existing SQL database to a larger virtual machine.	<input type="radio"/>	<input type="radio"/>
Migrate the existing data to Azure table storage in the cloud.	<input type="radio"/>	<input type="radio"/>

##### Answer:

**Explanation:** \* Scenario:

/ HRApp

The company has a human resources (HR) application named HRApp that stores data in an on-premises SQL Server database.

The data must remain on-premises and cannot be stored in the cloud.

The human resources data is used by all business offices, and each office requires access to the entire database.

/ Metrics application

Data is stored on an on-premises SQL Server database, but this data should be moved to the cloud.

#### NEW QUESTION 7

You need to design the business continuity framework. Which technology should you use?

- A. Hyper-V Replica
- B. Azure Backup
- C. Azure Site Recovery
- D. Azure StoreSimple

**Answer:** C

**Explanation:** Azure Site Recovery can protect Microsoft Hyper-V, VMware, and physical servers, and you can use Azure or your secondary datacenter as your recovery site.

From scenario: The company has a human resources (HR) application named HRApp that stores data in an on-premises SQL Server database. The database must have at least two copies, but data to support backups and business continuity must stay in Trey Research locations only. The data must remain on-premises and cannot be stored in the cloud.

References: <https://azure.microsoft.com/en-us/services/site-recovery/>

#### NEW QUESTION 8

##### HOTSPOT

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.

Task	On-premises tool
Deployment	<div> <div></div> <div> Azure Automation  Operations Insight  System Center Orchestrator  System Center Operations Manager  System Center Virtual Machine Manager </div> </div>
Application health	<div> <div></div> <div> Azure Automation  Operations Insight  System Center Orchestrator  System Center Operations Manager  System Center Virtual Machine Manager </div> </div>

**Answer:**

**Explanation:** \* System Center Virtual Machine Manager (SCVMM) enables rapid provisioning of new virtual machines by the administrator and end users using a self-service provisioning tool.

\* System Center Operations Manager (SCOM) is a cross-platform data center management system for operating systems and hypervisors. It uses a single interface that shows state, health and performance information of computer systems. It also provides alerts generated according to some availability, performance, configuration or security situation being identified.

The basic idea is to place a piece of software, an agent, on the computer to be monitored. The agent watches several sources on that computer, including the Windows Event Log, for specific events or alerts generated by the applications executing on the monitored computer.

\* Scenario:

Leverage familiarity with Microsoft server management tools. Manage hosted resources by using on-premises tools.

Mitigate the need to purchase additional tools for monitoring and debugging.

Use advanced monitoring features and reports of workloads in Azure by using existing Microsoft tools.

References: [http://en.wikipedia.org/wiki/System\\_Center\\_Operations\\_Manager](http://en.wikipedia.org/wiki/System_Center_Operations_Manager)

#### NEW QUESTION 9

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.

**Answer:** AE

**Explanation:** \* Scenario:

/ Mitigate the need to purchase additional tools for monitoring and debugging.

/A debugger must automatically attach to websites on a weekly basis. The scripts that handle the configuration and setup of debugging cannot work if there is a delay in attaching the debugger.



A: After publishing your application you can use the Server Explorer in Visual Studio to access your web sites.

After signing in you will see your Web Sites under the Windows Azure node in Server Explorer. Right click on the site that you would like to debug and select Attach Debugger.

E: When the processes appear in the Available Processes table, select w3wp.exe, and then click Attach.

Open a browser to the URL of your web app.

References: <http://blogs.msdn.com/b/webdev/archive/2013/11/05/remote-debugging-a-window-azure-web-site-with-visual-studio-2013.aspx>

#### NEW 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.

**Answer:** B

**Explanation:** Scenario: Data analysis results:

The solution must provide a web service that allows applications to access the results of analysis.

#### NEW QUESTION 10

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 Batch 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 Microsoft HPC Pack on-premises to schedule jobs and automate scaling of virtual machines in Azure.

**Answer:** B

#### NEW QUESTION 12

You need to encrypt a media file.

Which type of encryption should you use?

- A. secure token service
- B. envelope
- C. PlayReady
- D. storage

**Answer:** C

#### NEW QUESTION 15

You need to upload video to the company's Azure environment. What should you do?

- A. Create a site-to-site VPN connection.
- B. Write directly to the storage REST APIs.
- C. Create an ExpressRoute connection.
- D. Use the Azure Import/Export service to move the data.

**Answer:** C

**Explanation:** / Media files must be stored in Azure BLOB storage.

/ Media uploads must have fast data transfer rates (low latency) without the need to upload the data offline.

Topic 5, Northwind Electric CarsBackground

Overview

Northwind Electric Cars is the premier provider of private, low-cost transportation in Denver. Northwind drivers are company employees who work together as a team. The founding partners believe that by hiring their drivers as employees, their drivers focus on providing a great customer experience. Northwind Electric Cars has a reputation for offering fast, reliable, and friendly service, due largely to their extensive network of drivers and their proprietary dispatching software named NorthRide.

Northwind Electric Cars drivers depend on frequent, automatic updates for the NorthRide mobile app. The Northwind management team is concerned about unplanned system downtime and slow connection speeds caused by high usage. Additionally, Northwind's in-house data storage solution is unsustainable because of the new influx of customer data that is retained. Data backups are made periodically on DVDs and stored on-premises at corporate headquarters.

Apps NorthRide App

Northwind drivers use the NorthRide app to meet customer pickup requests. The app uses

a GPS transponder in each Northwind vehicle and Bing Maps APIs to monitor the location of each vehicle in the fleet in real time. NorthRide allows Northwind dispatchers to optimize their driver coverage throughout the city.

When new customers call, the dispatcher enters their pickup locations into NorthRide. NorthRide identifies the closest available driver. The dispatcher then contacts the driver

with the pick-up details. This process usually results in a pick-up time that is far faster than the industry average.

Drivers use NorthRide to track the number of miles they drive and the number of customers they transport. Drivers also track their progress towards their established goals, which are measured by using key performance indicators (KPIs).

NorthRide App 2.0

Northwind Electric Cars is growing quickly. New callers often wait for their calls to be answered because the dispatchers are contacting their drivers to arrange pickups for other customers.

To support the growth of the business, Northwind's development team completes an overhaul of the NorthRide system that it has named NorthRide 2.0. When a dispatcher enters a customer's pickup location, the address and driving directions are automatically sent to the driver who is closest to the customer's pickup

location.

Drivers indicate their availability on the NorthRide mobile app and can view progress towards their KPI's in real time. Drivers can also record customer ratings and feedback for each pickup.

Business Requirements Apps

NorthRideFinder App

Northwind Electric Cars needs a customer-facing website and mobile app that allows customers to schedule pickups. Customers should also be able to create profiles that will help ensure the customer gets a ride faster by storing customer information.

Predictor App

Northwind Electric Cars needs a new solution named Predictor. Predictor is an employee-facing mobile app. The app predicts periods of high usage and popular pickup locations and provides various ways to view this predictive data. Northwind uses this information to better distribute its drivers. Northwind wants to use the latest Azure technology to create this solution.

Other Requirements

? On-premises data must be constantly backed up.

? Mobile data must be protected from loss, even if connectivity with the backend is lost.

? Dispatch offices need to have seamless access to both their primary data center and the applications and services that are hosted in the Azure cloud.

? Connectivity needs to be redundant to on-premises and cloud services, while providing a way for each dispatch office to continue to operate even if one or all of the connection options fail.

? The management team requires that operational data is accessible 24/7 from any office location. Technical Requirements Apps and Website

NorthRide / NorthRideFinder Apps:

? The solution must support on-premises and Azure data storage.

? The solution must scale as necessary based on the current number of concurrent users.

? Customer pickup requests from NorthRideFinder must be asynchronous.

? The customer pickup request system will be high in volume, and each request will have a short life span.

? Data for NorthRideFinder must be protected during a loss of connectivity.

? NorthRide users must authenticate to the company's Azure Active Directory.

Northwind Public Website

? The customer website must use a WebJob to process profile images into thumbnails

? The customer website must be developed with lowest cost and difficulty in mind.

? The customer website must automatically scale to minimize response times for customers.

Other Requirements Data Storage:

? The data storage must interface with an on-premises Microsoft SQL backend database.

? A disaster recovery system needs to be in place for large amounts of data that will backup to Azure.

? Backups must be fully automated and managed the Azure Management Portal.

? The recovery system for company data must use a hybrid solution to back up both the on-premises Microsoft SQL backend and any Azure storage.

Predictive Routing:

? An Azure solution must be used for prediction systems.

? Predictive analytics must be published as a web service and accessible by using the REST API.

Security:

? The NorthRide app must use an additional level of authentication other than the employee's password.

? Access must be secured in NorthRide without opening a firewall port.

? Company policy prohibits inbound connections from internet callers to the on-premises network.

? Customer usernames in NorthRideFinder cannot exceed 10 characters.

? Customer data in NorthRideFinder can be received only by the user ID that is associated with the data.

## NEW QUESTION 20

### DRAG DROP

You need to recommend the steps required to deploy the Northwind Electric Cars website.

Which three actions should you recommend performing in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

### Actions

Publish an application with a WebJob backend to an Azure web app.

Scale the WebJob separately from the website to spread web traffic loads.

Publish a frontend site to an Azure web app, and publish a WebJob backend to a separate Azure web app.

Schedule the WebJob to run at non-peak times.

Create an Azure storage account.

### Answer Area



**Answer:**

**Explanation:** References:

<https://docs.microsoft.com/en-us/azure/app-service-web/websites-dotnet-webjobs-sdk-get-started>

#### NEW QUESTION 21

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

**Answer:** C

**Explanation:** \* Scenario: The NorthRide app must use an additional level of authentication other than the employee's password.

\* Azure Multi-Factor Authentication is the multi-factor authentication service that requires users to also verify sign-ins using a mobile app, phone call or text message. It is available to use with Azure Active Directory, to secure on-premise resources with the Azure Multi- Factor Authentication Server, and with custom applications and directories using the SDK.

References:

#### NEW QUESTION 22

DRAG DROP

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.

##### 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

**Answer:**

**Explanation:** Box 1: Create a service namespace under Service Bus

Box 2: Obtain the default management credentials for the namespace. Box 3: Configure the application to use Service Bus Relay

Box 4: Configure Service Bus Queue

Note:

Box 1: Create a service namespace under Service Bus

To begin using Service Bus queues in Azure, you must first create a service namespace. A namespace provides a scoping container for addressing Service Bus resources within your application.

Box 2: Obtain the default management credentials for the namespace.

In order to perform management operations, such as creating a queue on the new namespace, you must obtain the management credentials for the namespace.

Box 3: Configure the application to use Service Bus Relay

When you create an application that uses Service Bus, you must add a reference to the Service Bus assembly and include the corresponding namespaces.

The Service Bus NuGet package is the easiest way to get the Service Bus API and to configure your application with all of the Service Bus dependencies.

After installing this package you are now ready to write code for Service Bus. Box 4: Configure Service Bus Queue

This would include:

\* set up a Service Bus connection string

\* create a queue

\* provide code to send/receive messages from the queue

References: <https://azure.microsoft.com/en-gb/documentation/articles/service-bus-dotnet-how-to-use-queues/>

#### NEW QUESTION 23

You need to recommend a technology for processing customer pickup requests. Which technology should you recommend?

- A. Notification hub
- B. Queue messaging
- C. Mobile Service with push notifications
- D. Service Bus messaging

**Answer:** D



**Explanation:** Service Bus queues are part of a broader Azure messaging infrastructure that supports queuing as well as publish/subscribe, Web service remoting, and integration patterns. Service Bus Queue support Push-style API (while Azure Queue messaging does not).

Incorrect:

Not A: Notification Hub is only used to push notification, not for processing requests. Not B As a solution architect/developer, you should consider using Azure Queues when:

- \* Your application must store over 80 GB of messages in a queue, where the messages have a lifetime shorter than 7 days.

- \* Your application wants to track progress for processing a message inside of the queue. This is useful if the worker processing a message crashes. A subsequent worker can then

use that information to continue from where the prior worker left off.

You require server side logs of all of the transactions executed against your queues. Not C: To process the messages we do not need push notification.

Topic 6, Fourth CoffeeBackground

You are the new cloud architect for Fourth Coffee. The company hosts an on-premises ASP.NET MVC web application to allow online purchases and to support their retail store operations.

The new chief information officer (CIO) has announced several initiatives for the new year, including a new mobile application, online training for retail store employees, and moving the current web application and other services to the cloud.

The marketing team hopes to see an increase in the up-time for the web application. The team would also like to allow users to use social-Nogms in addition to the current username and password system.

Fourth Coffee has chosen Microsoft Azure to support their initiatives.

Current environment

In the Azure portal, you create an Azure Mobile App for the API. You create a Service Bus queue in Azure and install the Azure Storage SDK for Nodejs.

Problem statements

The mobile team attempts to use continuous deployment with the Azure App Service and the new API project. They receive the following error message: "Unable to access 'http://fourthcoffeeapi.azurewebsites.net/': Failed to connect to https://fourthcoffeeapi.scm.azurewebsites.net/"

Business requirement Web Application

- \*You must increase up-time for the application.

- \*The application must support additional regions and languages.

- \*Marketing must be able to validate the web application before updates to the application are published to the production environment.

Mobile

- \*The marketing team must be able to send frequent and timely updates to specific users

and devices including Apple iPad, iPhone, Android, Windows, and Windows Phone devices.

- \*Users must be able to use their social accounts to sign in to the application. You must support LinkedIn, Facebook and Google logons.

- \*The application must remain responsive, even during peak periods.

Training

Video streaming content must be made available and streamed to employee's browsers. Training content must only include on-demand streaming. There will be no live content.

Technical requirement Web Application

- \*You must update the deployment process to support cloud deployments.

- \*All data must be formatted as JSON during transport.

- \*You must implement Team Foundation Version Control (TFVC) as the version control system for the web application.

- \*Incoming messages to the API must be persisted to queue storage to ensure they are delivered and processed. You must restrict the size of messages between the mobile app and the API to no more than 5 gigabytes (GB).

- \*The web application must use geo-redundant replication.

Mobile

- \*You must use Node.js as a technology platform. You must support all mobile initiatives when possible.

- \*You must implement Git as the version control system for the mobile app.

- \*You must develop a REST API by using Node.js, Express, and MongoDB. You must use the Mobile Apps feature of the Azure App Service to host the API in Standard mode.

- \*You must implement the following Push Notification Services by using Azure Media Services:

- \*Apple Push Notification Service (APNS) for iPad and iPhone devices

- \*Google Cloud Messaging service (GCM) for Android devices

- \*Windows Notification Service (WNS) for Windows devices

- \*Microsoft Push Notification Service (MPNS) for Windows Phone devices

Security and Disaster Recovery

- \*You must integrate the on-premises Active Directory Domain Services with Azure Active Directory (Azure AD).

- \*You must implement the latest federated identity standards to provide authentication and authorization to applications.

- \*You must implement Multi-Factor Authentication.

- \*The web application and the API must be able to recover from a disaster.

Scaling

The web application and API must auto-scale according to the following rules:

- \*Scale up by one instance if CPU is above 70%.

- \*Scale down by one instance if CPU is below 50%.

Training

- \*Streaming must include Content Delivery Network (CDN) capabilities to support global locations.

- \*Content must be encrypted and protected by using AES and PlayReady.

- \*Streaming must include one gigabit (GB) per second of dedicated egress capacity.

- \*All videos must use adaptive bitrate MP4 encoded content and include a streaming manifest file (.ism).

- \*You must support the following streaming formats for video files: MPEG DASH, H.264, Smooth Streaming, HDS. You must not need to re-encode the content.

## NEW QUESTION 25

### DRAG DROP

You need to build and deploy the API.

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.



### Actions

Create a new controller and include the Authorize attribute

Create a new directory. Initialize Git and Node Package Manager (npm).

Publish the changes

Create instances for an Express App and a Mobile App. Attach the Mobile App to the Express App.

In TFVC, create a new build and publish the project

Install azure-mobile-apps and the Express packages

Create a new directory to include a new ASP.NET Web API project

### Answer Area



Answer:

Explanation:

### Actions

Create a new controller and include the Authorize attribute

Create a new directory. Initialize Git and Node Package Manager (npm).

Publish the changes

Create instances for an Express App and a Mobile App. Attach the Mobile App to the Express App.

In TFVC, create a new build and publish the project

Install azure-mobile-apps and the Express packages

Create a new directory to include a new ASP.NET Web API project

### Answer Area

Create a new directory. Initialize Git and Node Package Manager (npm).

Install azure-mobile-apps and the Express packages

Create instances for an Express App and a Mobile App. Attach the Mobile App to the Express App.

Publish the changes



### NEW QUESTION 28

DRAG DROP

You need to persist the API messages.

Which five 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.

### Actions

- Use Windows PowerShell to obtain the Node.js packages.
- Import the modules and assign values to the namespace and access key environment.
- Set the queue size limit to 10 gigabytes (GB). Then, call the sendQueueMessage and receiveQueueMessage methods.
- Set the queue size limit to 5 gigabytes (GB). Then, call the sendQueueMessage and receiveQueueMessage methods.
- Create a ServiceBusService object.
- Call the createQueueNotExists method.
- Use Windows PowerShell to obtain the Python packages.

### Answer Area



Answer:

Explanation:

### Actions

- Use Windows PowerShell to obtain the Node.js packages.
- Import the modules and assign values to the namespace and access key environment.
- Set the queue size limit to 10 gigabytes (GB). Then, call the sendQueueMessage and receiveQueueMessage methods.
- Set the queue size limit to 5 gigabytes (GB). Then, call the sendQueueMessage and receiveQueueMessage methods.
- Create a ServiceBusService object.
- Call the createQueueNotExists method.
- Use Windows PowerShell to obtain the Python packages.

### Answer Area

- Use Windows PowerShell to obtain the Node.js packages.
- Import the modules and assign values to the namespace and access key environment.
- Create a ServiceBusService object.
- Set the queue size limit to 5 gigabytes (GB). Then, call the sendQueueMessage and receiveQueueMessage methods.
- Call the createQueueNotExists method.

### NEW QUESTION 29

You need to support web and mobile application secure logons. Which technology should you use?

- A. Azure Active Directory B2B
- B. OAuth 1.0
- C. LDAP
- D. Azure Active Directory B2C

Answer: D

### NEW QUESTION 33

DRAG DROP

You are training a new developer.



You need to describe the process flow for sending a notification.

Which three actions must be performed in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

### Actions

A request is sent to the notification service in XML format. The request is authenticated and sent by the push notification service.

A request is sent to the notification service in JSON format. The request is authenticated and sent by the push notification service.

The application stores a device specific handle in the application back-end.

The devices contact the push notification service to request a device token.

The devices contact the push notification service to request a ChannelURI.

### Answer Area



Answer:

Explanation:

### Actions

A request is sent to the notification service in XML format. The request is authenticated and sent by the push notification service.

A request is sent to the notification service in JSON format. The request is authenticated and sent by the push notification service.

The application stores a device specific handle in the application back-end.

The devices contact the push notification service to request a device token.

The devices contact the push notification service to request a ChannelURI.

### Answer Area

The devices contact the push notification service to request a device token.

The application stores a device specific handle in the application back-end.



A request is sent to the notification service in JSON format. The request is authenticated and sent by the push notification service.



### NEW QUESTION 35

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.

Answer: B

**Explanation:** The Service Bus relay service enables you to build hybrid applications that run in both an Azure datacenter and your own on-premises enterprise environment. The Service Bus relay facilitates this by enabling you to securely expose Windows Communication Foundation (WCF) services that reside within a corporate enterprise network to the public cloud, without having to open a firewall connection, or require intrusive changes to a corporate network infrastructure. References: <http://azure.microsoft.com/en-gb/documentation/articles/service-bus-dotnet-how-to-use-relay/>

**NEW QUESTION 38**

**HOTSPOT**

You are managing the automation of your company's Azure resources. You need to choose the appropriate tool to automate specific use cases. Which tool should you choose for each use case? To answer, select the appropriate tool from each list in the answer area.

**Answer Area**

Use case	Tool
Automate a portfolio of scripts.	<div>▼</div> <div>Azure Automation</div> <div>Desired State Configuration</div>
Create an ad hoc script to add a virtual machine.	<div>▼</div> <div>Azure PowerShell</div> <div>Desired State Configuration</div>

**Answer:**

**Explanation:**

**Answer Area**

Use case	Tool
Automate a portfolio of scripts.	<div>▼</div> <div>Azure Automation</div> <div>Desired State Configuration</div>
Create an ad hoc script to add a virtual machine.	<div>▼</div> <div>Azure PowerShell</div> <div>Desired State Configuration</div>

**NEW QUESTION 41**

**HOTSPOT**

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.

**Answer Area**

Requirement	Action
Create the WebJob object	<div>▼</div> <div>Create the WebJob as a scheduled task.</div> <div>Create the WebJob as an on-demand task.</div> <div>Create the WebJob as a continuously running task.</div>
Configure the WebJob object	<div>▼</div> <div>Enable AlwaysOn for the website.</div> <div>Enable AlwaysOn for the database.</div> <div>Configure the WebJob to run continuously.</div>

**Answer:**

**Explanation:** \* You can run programs or scripts in WebJobs in your App Service web app in three ways: on demand, continuously, or on a schedule.

\* For continuous WebJobs there is an important feature called "always on" which is only available for a Standard Website, this will make sure your Website and WebJob are always up.

References: <http://azure.microsoft.com/en-us/documentation/articles/web-sites-create-web-jobs/>



#### NEW QUESTION 45

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.

**Answer:** B

**Explanation:** There are two types of tenant environments. The simplest type is a single-tenant application where one customer has 100% dedicated access to an application's process space. A single Tenant Applications has a separate, logical instance of the application for each customer or client. A single tenant application is much more predictable and stable by its nature since there will never be more than one dedicated customer at any point in time in that VM. That customer has all of its users accessing that dedicated instance of the application.

References: <http://sanganakauthority.blogspot.in/2011/12/multi-tenancy-and-windows- azure.html>

#### NEW QUESTION 46

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.

**Answer:** C

**Explanation:** For Cloud Services in Azure applications need both web and worker roles to scale well.

References: <https://msdn.microsoft.com/en-us/library/azure/dn574746.aspx>

#### NEW QUESTION 48

DRAG DROP

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.

Solutions	Answer Area	
Directory Sync (DirSync) with Password Sync	<b>Client requirements</b>	<b>Solution</b>
Directory Sync (DirSync) with single sign-on (SSO)	Customize the user sign-in page.	Solution
Azure Access Control Service	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

**Answer:**

**Explanation:**

Solutions	Answer Area										
Directory Sync (DirSync) with Password Sync											
Directory Sync (DirSync) with single sign-on (SSO)											
Azure Access Control Service											
	<table> <tr> <th>Client requirements</th><th>Solution</th></tr> <tr> <td>Customize the user sign-in page.</td><td>Azure Access Control Service</td></tr> <tr> <td>Enable users to sign in and access cloud services using their on-premises password.</td><td>Directory Sync (DirSync) with Password Sync</td></tr> <tr> <td>Ensure user authentications occur in the on-premises Active Directory.</td><td>Directory Sync (DirSync) with single sign-on (SSO)</td></tr> <tr> <td>Control password policies from the on-premises Active Directory.</td><td>Directory Sync (DirSync) with Password Sync</td></tr> </table>	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 Sync	Ensure user authentications occur in the on-premises Active Directory.	Directory Sync (DirSync) with single sign-on (SSO)	Control password policies from the on-premises Active Directory.	Directory Sync (DirSync) with Password Sync
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 Sync										
Ensure user authentications occur in the on-premises Active Directory.	Directory Sync (DirSync) with single sign-on (SSO)										
Control password policies from the on-premises Active Directory.	Directory Sync (DirSync) with Password Sync										

## NEW QUESTION 52

You are the administrator for a company named Contoso, Ltd.

Contoso also has an Azure subscription and uses many on-premises Active Directory products as roles in Windows Server including the following:

Contoso must use the directory management services available in Azure Active Directory. You need to provide information to Contoso on the similarities and differences between

Azure Active Directory and the Windows Server Active Directory family of services.

Which feature does Azure Active Directory and on-premises Active Directory both support?

- A. Using the GraphAPI to query the directory
- B. Issuing user certificates
- C. Supporting single sign-on (SSO)
- D. Querying the directory with LDAP

**Answer: C**

**Explanation:** AD FS supports Web single-sign-on (SSO) technologies, and so does Azure Active Directory.

If you want single sign on we usually suggest using ADFS if you're a Windows shop. Going forward though, Azure Active Directory is another alternative you can use.

References: <https://sam1man.wordpress.com/2015/03/02/using-azure-active-directory-for-single-sign-on-with-yammer/>

## NEW QUESTION 57

HOTSPOT

You administer the virtual environment for Contoso, Ltd. You configure and provision a new virtual machine (VM).

You need to add the existing VM to an existing availability set.

How should you complete the Azure PowerShell command? To answer, select the appropriate Azure PowerShell cmdlet from each list in the answer area.

### Answer Area

▼

Get-AzureVM  
New-AzureVM  
Update-AzureVM

-ServiceName contosodc1 -Name contosodc 1 |

▼

Set-AzureAvailabilitySet  
Set-AzureAffinityGroup  
Update-AzureVMImage

-AvailabilitySetName contosodcs |

▼

Get-AzureVM  
New-AzureVM  
Update-AzureVM

**Answer:**

**Explanation:** **Answer Area**

▼

Get-AzureVM  
New-AzureVM  
Update-AzureVM

-ServiceName contosodc1 -Name contosodc 1 |

▼

Set-AzureAvailabilitySet  
Set-AzureAffinityGroup  
Update-AzureVMImage

-AvailabilitySetName contosodcs |

▼

Get-AzureVM  
New-AzureVM  
Update-AzureVM

NEW QUESTION 58

You manage a cloud service that has one Web Role instance, and several Worker Role instances. The cloud service has multiple tiers. Different groups develop and maintain each tier.  
You need to ensure that the cloud service remains highly available and responsive when the Worker Roles are performing extensive work.  
What should you do?

- A. Create an availability set for each tier of the application.
- B. Implement auto-scaling for the Worker Roles.
- C. Create a resource group.
- D. Create an availability set with two or more virtual machines.

Answer: B

NEW QUESTION 63

DRAG DROP

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.

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 'HasBeenSuspended'

if (!\$HasBeenSuspended) {

Set-AutomationVariable -Name 'HasBeenSuspended' -Value \$True

1 + "abc"

}

Azure PowerShell cmdlet

}

Answer:

**Explanation:** workflow Use-WorkflowCheckpointSample  
{  
# An exception occurs if 'HasBeenSuspended' does not already exist.  
# Exceptions that are not caught with a try/catch will cause the runbook to suspend. Set-AutomationVariable -Name 'HasBeenSuspended' -Value \$False  
# This line occurs before the checkpoint. When the runbook is resumed after  
# suspension, 'Before Checkpoint' will not be output a second time. Write-Output "Before Checkpoint"  
# A checkpoint is created. Checkpoint-Workflow  
# This line occurs after the checkpoint. The runbook will start here on resume. Write-Output "After Checkpoint"  
\$HasBeenSuspended = Get-AutomationVariable -Name 'HasBeenSuspended'  
# If branch only executes if the runbook has not previously suspended. if (!\$HasBeenSuspended) {  
Set-AutomationVariable -Name 'HasBeenSuspended' -Value \$True  
# This will cause a runtime exception. Any runtime exception in a runbook  
# will cause the runbook to suspend. 1 + "abc"  
}  
Write-Output "Runbook Complete"  
}

References: <https://gallery.technet.microsoft.com/scriptcenter/How-to-use-workflow- cd57324f>

NEW QUESTION 68

HOTSPOT

You have an Azure subscription. You plan to deploy five virtual machines that will have similar configurations and will run the same workload.  
You need to recommend a solution to ensure the availability of the virtual machines during Azure maintenance periods. At any given time, only one virtual machine can be offline for maintenance.  
What should you include in the recommendation? To answer, select the appropriate options in the answer area.

## Answer Area

Number of cloud services:

0	▲▼
1	
2	
3	
4	
5	

Number of availability sets:

0	▲▼
1	
2	
3	
4	
5	

Number of upgrade domains:

0	▲▼
1	
2	
3	
4	
5	

Answer:

Explanation:

## Answer Area

Number of cloud services:

0	▲▼
1	
2	
3	
4	
5	

Number of availability sets:

0	▲▼
1	
2	
3	
4	
5	

Number of upgrade domains:

0	▲▼
1	
2	
3	
4	
5	



#### NEW QUESTION 72

You have an Azure subscription that contains 10 VMs. All of the VMs are set to use the Basic VM tier and are located in the West US region. The storage account used for the VMs is set to Locally Redundant replication. The VMs are in an availability set.

You plan to deploy several web apps in Azure that will retrieve data from the virtual machines. The web apps will use a new App Service plan.

You need to ensure that the web apps remain available if the hardware in data center fails. The solution must minimize the Azure costs associated with bandwidth utilization.

What should you include in the solution?

- A. Create a new storage account that is set to Geo-Redundant replicatio
- B. Move the virtual machines to the new storage accoun
- C. Set the App Service for the web apps to use the default app service.
- D. Set the App Service plan for the web apps to any region other than West US region.
- E. Create a new storage account that is set to Zone Redundant replicatio
- F. Move the virtual machines to the new storage accoun
- G. Set the App Service plan for the web apps to use the default app service.
- H. Set the App Service plan for the web apps to use the default app servic
- I. Configure ExpressRoute for the Azure subscription.

**Answer:** A

#### NEW QUESTION 75

You are designing an Azure Web App.

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.

**Answer:** CD

**Explanation:** References: <https://msdn.microsoft.com/en-us/library/ee748475.aspx> <https://msdn.microsoft.com/en-us/library/azure/dn441213.aspx>

#### NEW QUESTION 79

DRAG DROP

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.

Roles	Answer Area	
Owner	Team Member	Role
Contributor	The director	Role
Reader	Members of the development team	Role
Editor	Members of the test team	Role
Publisher		

**Answer:**

**Explanation:** References: <http://azure.microsoft.com/en-us/documentation/articles/role-based-access-control-configure/>

#### NEW QUESTION 80

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

**Answer:** A

**Explanation:** If you change the number of endpoints for your service, for example by adding a HTTPS endpoint for your existing Web Role, it will require downtime.

References: <http://blog.toddysm.com/2010/06/re-deploying-your-windows-azure-service-without-incurring-downtime.html>

#### NEW QUESTION 83

You develop an ASP.NET Web API that is hosted as an Azure Web App. The API uses a WebJob to process information. The WebJob has a very long start up time.

You configure to WebJob to run continuously. You observe that the WebJob is not running and processing information as expected.

You need to ensure the WebJob runs continuously. What should you do?

- A. Enable the Always On configuration setting for the Web App.
- B. Update the API self-host by using the Open Web Interface for .NET (OWIN). Migrate the API to Azure Service Fabric.
- C. Schedule the WebJob by using the Azure Scheduler.
- D. Include a settings.job JSON file at the root of the WebJob zip file and include a valid CRON expression.

**Answer:** A

#### NEW QUESTION 85

HOTSPOT

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.

#### Answer Area

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

**Answer:**

**Explanation:** Box 1:

\* Token – A user gains access to an RP application by presenting a valid token that was issued by an authority that the RP application trusts.

\* Identity Provider (IP) – An authority that authenticates user identities and issues security

tokens, such as Microsoft account (Windows Live ID), Facebook, Google, Twitter, and Active Directory. When Azure Access Control (ACS) is configured to trust an IP, it accepts and validates the tokens that the IP issues. Because ACS can trust multiple IPs at the same time, when your application trusts ACS, you can your application can offer users the option to be authenticated by any of the IPs that ACS trusts on your behalf.

Box 2: WS-Trust is a web service (WS-\*) specification and Organization for the Advancement of Structured Information Standards (OASIS) standard that deals with the issuing, renewing, and validating of security tokens, as well as with providing ways to establish, assess the presence of, and broker trust relationships between participants in a secure message exchange. Azure Access Control (ACS) supports WS-Trust 1.3.

Incorrect: ACS does not support Kerberos. References:

#### NEW QUESTION 86

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

**Answer:** C

**Explanation:** A CNAME record maps a specific domain, such as contoso.com or www.contoso.com, to a

canonical domain name. In this case, the canonical domain name is the <myapp>.cloudapp.net domain name of your Azure hosted application. Once created, the CNAME creates an alias for the <myapp>.cloudapp.net. The CNAME entry will resolve to the IP address of your <myapp>.cloudapp.net service automatically, so if the IP address of the cloud service changes, you do not have to take any action.

Incorrect: Not D:

- \* Since an A record is mapped to a static IP address, it cannot automatically resolve changes to the IP address of your Cloud Service.
- \* An A record maps a domain, such as contoso.com or www.contoso.com, or a wildcard domain such as \*.contoso.com, to an IP address. In the case of an Azure Cloud Service, the virtual IP of the service. So the main benefit of an A record over a CNAME record is that you can have one entry that uses a wildcard, such as \*.contoso.com, which would handle requests for multiple sub-domains such as mail.contoso.com, login.contoso.com, or www.contso.com.

**NEW QUESTION 88**

DRAG DROP

Contoso, Ltd., uses Azure websites for their company portal sites. Admin users need enough access to effectively perform site monitoring or management tasks. Management tasks do not include assigning permissions to other users. 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.

Connection Settings

Contributor

Reader

Website

Application

Azure Active Directory

Active Directory Domain Services

Answer Area

Connection Setting	Role or Object
Role	<div>Connection Setting</div>
Resource	<div>Connection Setting</div>
Provider	<div>Connection Setting</div>

Answer:

Explanation: References: <http://azure.microsoft.com/blog/2015/01/05/rbac-and-azure-websites-publishing/>

**NEW QUESTION 90**

An application currently resides on an on-premises virtual machine that has 2 CPU cores, 4 GB of RAM, 20 GB of hard disk space, and a 10 megabit/second network connection. You plan to migrate the application to Azure. You have the following requirements:

- \* You must not make changes to the application.
- \* You must minimize the costs for hosting the application.

You need to recommend the appropriate virtual machine instance type. Which virtual machine tier should you recommend?

- A. Network Optimized (A Series)
- B. General Purpose Compute, Basic Tier (A Series)
- C. General Purpose Compute, Standard Tier (A Series)
- D. Optimized Compute (D Series)

Answer: B

Explanation: General purpose compute: Basic tier  
An economical option for development workloads, test servers, and other applications that don't require load balancing, auto-scaling, or memory-intensive virtual machines.  
CPU core range: 1-8 RAM range: 0.75 – 14 GB  
Disk size: 20-240 GB References:

**NEW QUESTION 93**

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



**Answer:** A

**Explanation:** Local storage is temporary in Azure. So, if the virtual machine supporting your role dies and cannot recover, your local storage is lost! Therefore, Azure developers will tell you, only volatile data should ever be stored in local storage of Azure.

References: <http://www.intertech.com/Blog/windows-azure-local-file-storage-how-to-guide-and-warnings/>

<http://blog.codingoutloud.com/2011/06/12/azure-faq-can-i-write-to-the-file-system-on-windows-azure/>

#### NEW QUESTION 98

You design an Azure web application. The web application is accessible by default as a standard cloudapp.net URL.

You need to recommend DNS resource record types that allow you to configure access to the web application by using a custom domain name.

Which two DNS record types should you recommend?

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

**Answer:** BD

#### NEW QUESTION 99

DRAG DROP

You need to implement resource security and authentication.

For each requirement, which solution should you implement? To answer, drag the appropriate solution to the correct 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.

Solutions	Requirement	Solution
Azure Active Directory Connect	Enable user sign in for employees	Solution
Microsoft Account Authentication	Enable user sign in for partners	Solution
Azure Active Directory B2C	Enable datacenter connectivity for the DataViewer application	Solution
Active Directory Federations Services		

**Answer:**

**Explanation:**

Solutions	Requirement	Solution
Azure Active Directory Connect	Enable user sign in for employees	Azure Active Directory Connect
Microsoft Account Authentication	Enable user sign in for partners	Active Directory Federations Services
Azure Active Directory B2C	Enable datacenter connectivity for the DataViewer application	Active Directory Federations Services
Active Directory Federations Services		

#### NEW QUESTION 101

DRAG DROP

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.

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.	



Answer:

Explanation: References: <http://azure.microsoft.com/en-gb/documentation/articles/cloud-services-configure-ssl-certificate/>

NEW QUESTION 102

DRAG DROP

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.

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	<div>Technology</div>
Load-balanced communication	<div>Technology</div>
Deliver content	<div>Technology</div>

Answer:

Explanation: \* MediaServices

Azure Media Services is being used to power consumer and enterprise streaming solutions worldwide. Combining powerful and highly scalable cloud-based encoding, encryption and steaming components, Azure Media Services is helping customers with valuable and premium video content to easily reach larger audiences on today's most popular digital devices, such as tablets and mobile phones.

\* TrafficManager

\* Azure Content Delivery Network

The Azure Content Delivery Network (CDN) is designed to send audio, video, applications, images, and other files faster and more reliably to customers using servers that are closest to each user. This dramatically increases speed and availability, resulting in significant user experience improvements.

References: <http://azure.microsoft.com/en-us/services/cdn/> <http://azure.microsoft.com/en-gb/services/media-services/> <http://azure.microsoft.com/en-us/services/traffic-manager/>

NEW QUESTION 104

Your company has an Azure subscription.

The company plans to implement an Azure Web App named WebApp1.

You need to recommend a solution to optimize the compute resources consumed by the Web App. The solution must minimize costs and provide a separation of resources.

Which service should you recommend?

- A. Basic
- B. Free
- C. Shared
- D. Premium
- E. Standard

Answer: D

Explanation: Only the Premium service provides App Service Environments which provide the required isolation (separation of resources).

NEW QUESTION 108

You are designing an Azure development environment. Team members learn Azure development techniques by training in the development environment.

The development environment must automatically scale and load balance additional virtual machine (VM) instances.

You need to recommend the most cost-effective compute-instance size that allows team members to work with Azure in the development environment.

What should you recommend?

- A. Azure A1 standard VM Instance
- B. Azure A2 basic VM Instance
- C. Azure A3 basic VM Instance
- D. Azure A9 standard VM Instance

**Answer:** A

**Explanation:** Azure A1 standard VM Instance would be cheapest with 1 CPU core, 0.75 GB RAM, and 40 GB HD. It would be good enough for training purposes.  
References: <http://azure.microsoft.com/en-us/pricing/details/virtual-machines/>

Topic 8, Woodgrove Bank

Background Overview

Woodgrove Bank has 20 regional offices and operates 1,500 branch office locations. Each regional office hosts the servers, infrastructure, and applications that support that region.

Woodgrove Bank plans to move all of their on-premises resources to Azure, including virtual machine (VM)-based, line-of-business workloads, and SQL databases. You are the owner of the Azure subscription that Woodgrove Bank is using. Your team is using Git repositories hosted on GitHub for source control.

Security

Currently, Woodgrove Bank's Computer Security Incident Response Team (CSIRT) has a problem investigating security issues due to the lack of security intelligence integrated with their current incident response tools. This lack of integration introduces a problem during the detection (too many false positives), assessment, and diagnose stages. You decide to use Azure Security Center to help address this problem.

Woodgrove Bank has several apps with regulated data such as Personally Identifiable Information (PII) that require a higher level of security. All apps are currently secured by using an on-premises Active Directory Domain Services (ADDS). The company depends on the following mission-critical apps: WGBLoanMaster, WGBLeaseLeader, and WGBCreditCruncher apps. You plan to move each of these apps to Azure as part of an app migration project.

Apps

The WGBLoanMaster app has been audited for transaction loss. Many transactions have been lost in processing and monetary write-offs have cost the bank. The app runs on two VMs that include several public endpoints.

The WGBLeaseLeader app has been audited for several data breaches. The app includes a SQL Server database and a web-based portal. The portal uses an ASP.NET Web API function to generate a monthly aggregate report from the database.

The WGBCreditCruncher app runs on a VM and is load balanced at the network level. The app includes several stateless components and must accommodate scaling of increased credit processing. The app runs on a nightly basis to process credit transactions that are batched during the day. The app includes a web-based portal where customers can check their credit information. A mobile version of the app allows users to upload check images.

Business Requirements WGBLoanMaster app

The app audit revealed a need for zero transaction loss. The business is losing money due to the app losing and not processing loan information. In addition, transactions fail to process after running for a long time. The business has requested the aggregation processing to be scheduled for 01:00 to prevent system slowdown.

WGBLeaseLeader app

The app should be secured to stop data breaches. If the data is breached, it must not be readable. The app is continuing to see increased volume and the business does not want the issues presented in the WGBLoanMaster app. Transaction loss is unacceptable, and although the lease monetary amounts are smaller than loans, they are still an important profit center for Woodgrove Bank. The business would also like the monthly report to be automatically generated on the first of the month. Currently, a user must log in to the portal and click a button to generate the report.

WGBCreditCruncher app

The web-based portal area of the app must allow users to sign in with their Facebook credentials. The bank would like to allow this feature to enable more users to check their credit within the app.

Woodgrove Bank needs to develop a new financial risk modeling feature that they can include in the WGBCreditCruncher app. The financial risk modeling feature has not been developed due to costs associated with processing, transforming, and analyzing the large volumes of data that are collected. You need to find a way to implement parallel processing to ensure that the features run efficiently, reliably, and quickly. The feature must scale based on computing demand to process the large volumes of data and output several financial risk models.

Technical Requirements

WGBLoanMaster app

The app uses several compute-intensive tasks that create long-running requests to the system. The app is critical to the business and must be scalable to increased loan processing demands. The VMs that run the app include a Windows Task Scheduler task that aggregates loan information from the app to send to a third party. This task runs a console app on the VM.

The app requires a messaging system to handle transaction processing. The messaging system must meet the following requirements:

- ? Allow messages to reside in the queue for up to a month.
- ? Be able to publish and consume batches of messages.
- ? Allow full integration with the Windows Communication Foundation (WCF) communication stack.
- ? Provide a role-based access model to the queues, including different permissions for senders and receivers.

You develop an Azure Resource Manager (ARM) template to deploy the VMs used to support the app. The template must be deployed to a new resource group and you must validate your deployment settings before creating actual resources.

WGBLeaseLeader app

The app must use Azure SQL Databases as a replacement to the current Microsoft SQL Server environment. The monthly report must be automatically generated. The app requires a messaging system to handle transaction processing. The messaging system must meet the following requirements:

- ? Require server-side logs of all of the transactions run against your queues.
- ? Track progress of a message within the queue.
- ? Process the messages within 7 days.
- ? Provide a differing timeout value per message.

WGBCreditCruncher app The app must:

- ? Secure inbound and outbound traffic.
- ? Analyze inbound network traffic for vulnerabilities.
- ? Use an instance-level public IP and allow web traffic on port 443 only.
- ? Upgrade the portal to a Single Page Application (SPA) that uses JavaScript, Azure Active Directory (Azure AD), and the OAuth 2.0 implicit authorization grant to secure the Web API back end.
- ? Cache authentication and host the Web API back end using the Open Web Interface for .NET (OWIN) middleware.
- ? Immediately compress check images received from the mobile web app.
- ? Schedule processing of the batched credit transactions on a nightly basis.
- ? Provide parallel processing and scalable computing resources to output financial risk models.
- ? Use simultaneous computer nodes to enable high performance computing and updating of the financial risk models.

Key security area

Name	Description
Area 1	Uses Role-Based Access Control (RBAC)
Area 2	Uses Azure Monitoring Agent (ASMAgentLauncher.exe) and the Azure Security Monitoring extension (ASMMonitoringAgent.exe) and is a main cost of Azure Security Center
Area 3	Customizes your company’s security requirements and the type of apps of sensitivity of the data. Propagates to all resource groups within the Azure subscription
Area 4	Allows you to detect, assess, and diagnose attacks
Area 5	Prevents and detects future security changes. Changes to the environment are automatically enabled as resources are added

**NEW QUESTION 110**

You need to support processing for the WGBLeaseLeader app. Which technology should you use?

- A. Azure Event Hubs
- B. Azure Service Fabric
- C. Azure Service Bus Queues
- D. Azure Storage Queues

**Answer:** D

**Explanation:** References:

<https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-azure-and-service-bus-queues-compared-contrasted>

**NEW QUESTION 115**

You need to generate the report for the WGBLeaseLeader app. Which Azure service should you use?

- A. Azure Scheduler
- B. Azure Data Lake Store
- C. Azure Storage Queue
- D. Azure Stream Analytics

**Answer:** A

**NEW QUESTION 116**

DRAG DROP

You need to deploy the WGBLoanMaster app by using Azure PowerShell.

Which four Azure PowerShell cmdlets should you run in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Azure PowerShell cmdlets

Test-AzureRmResourceGroup-Deployment

Set-AzureRmCurrentStorage-Account

New-AzureRmStorageAccount

Add-AzureRmAccount

New-AzureRmResourceGroup-Deployment

New-AzureRmResourceGroup

Answer Area

⬅

➡

⬆

⬇

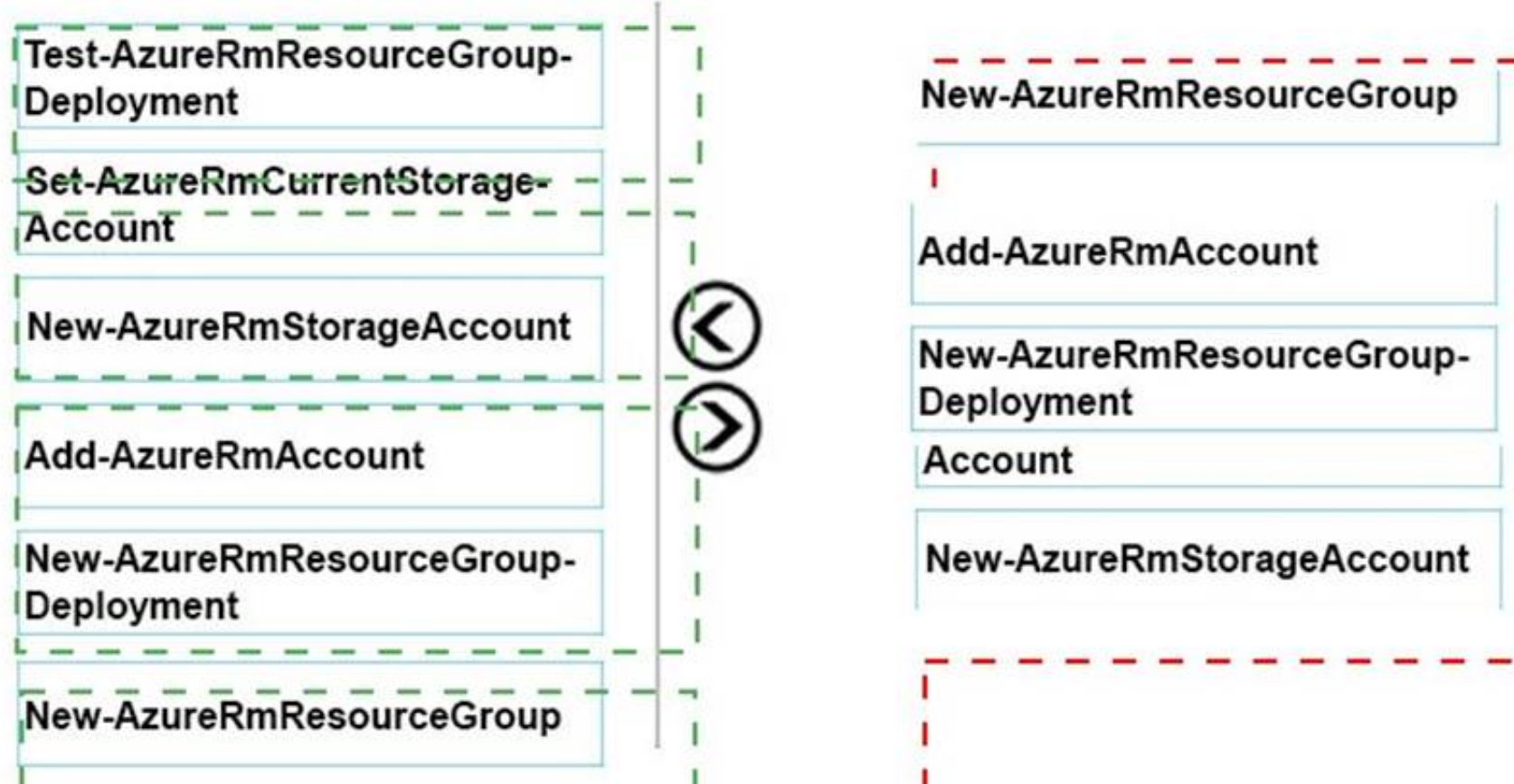


Answer:

Explanation:

## Azure PowerShell cmdlets

## Answer Area



Topic 9, Trey Research Case B

Background

General

Trey Research is the global leader in analytical data collection and research. Trey Research houses its servers in a highly secure server environment. The company has continuous monitoring, surveillance, and support to prevent unauthorized access and data security.

The company uses advanced security measures including firewalls, security guards, and surveillance to ensure the continued service and protection of data from natural disaster, intruders, and disruptive events.

Trey Research has recently expanded its operations into the cloud by using Microsoft Azure. The company creates an Azure virtual network and a Virtual Machine (VM) for moving on-premises Subversion repositories to the cloud. Employees access Trey Research applications hosted on-premises and in the cloud by using credentials stored on-premises.

Applications

Trey Research hosts two mobile apps on Azure, DataViewer and DataManager. The company uses Azure-hosted web apps for internal and external users.

Federated partners of Trey Research have a single sign-on (SSO) experience with the DataViewer application.

Architecture

You have an Azure Virtual Network (VNET) named TREYRESEARCH\_VNET. The VNET includes all hosted VMs. The virtual network includes a subnet named Frontend and a subnet named RepoBackend. A resource group has been created to contain the TREYRESEARCH\_VNET, DataManager and DataViewer. You manage VMs by using System Center VM Manager (SCVMM). Data for specific high security projects and clients are hosted on-premises. Data for other projects and clients are hosted in the cloud.

Azure Administration

User Tier	Role
Tier 1	Manages everything, including resources.
Tier 2	Manages virtual machines, without access to them or their virtual networks and storage accounts.
Tier 3	Manages websites, without access to them.
Tier 4	Access Control.

DataManager

The DataManager app connects to a RESTful service. It allows users to retrieve, update, and delete Trey Research data.

Requirements

General

You have the following general requirements:

? Azure deployment tasks must be automated by using Azure Resource Manager (ARM).

? Azure tasks must be automated by using Azure PowerShell.

Disaster recovery

Disaster recovery and business continuity plans must use a single, integrated service that supports the following features:

? All VMs must be backed up to Azure.

? All on-premises data must be backed up off-site and available for recovery in the event of a disaster.

? Disaster testing must be performed to ensure that recovery times meet management guidelines.

? Fail-over testing must not impact production.

Security

You identify the following security requirements:

? You host multiple subversion (SVN) repositories in the RepoBackend subnet. The SVN servers on this subnet must use inbound and outbound TCP at port 8443.

? Any configuration changes to account synchronization must be tested without disrupting the services.

? High availability is required for account synchronization services.

? Employees must never have to revert to old passwords.

? Usernames and passwords must not be passed in plain text.



? Any identity solution must support Kerberos authentication protocol. You must use Security Assertion Markup Language (SAML) claims to authenticate to on-premises data resources. You must implement an on-premises password policy.  
? Users must be able to reset their passwords in the cloud.  
? Users must be able to access all of the applications and resources that they need in order to do business by signing in only using a single user account.

Subversion server Subversion Server Sheet TREYRESEARCH\_SVN\_VM  
Azure Virtual Machine – Window Server Technical Preview 2016  
Installed SVN Server Outbound TCP 8443  
Resource group – TREYRESEARCHVM\_RG  
Location – West US  
Computer name – TREYRESEARCHSVNVM User name – admin  
Size – Standard A2 Disk type – Standard  
Storage account – (new) TREYRESEARCHstore Virtual network – TREY RESEARCH\_VNET Subnet – RepoBackend (10.0.2.0/24)  
Public IP address – (new) TREYRESEARCHSVNVM Network security group – (new) TREYRESEARCHSVNVM Availability set – None  
Diagnostics – Enabled  
Diagnostics storage account – (new) TREYRESEARCHstore

#### NEW QUESTION 117

DRAG DROP

You need to implement testing for the DataManager mobile application.

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.

Actions	Answer Area
Create a URL ping test in Application Insights.	
In the Microsoft Visual Studio, create a web test.	
Open the .webtest file and start recording.	
Create a multi-step web test and upload a .webtest file to Application Insights.	
Open the URL ping test and set test locations.	
Upload a URL ping list to Application Insights.	
In Microsoft Visual Studio, create a web performance test project.	

**Answer:**

**Explanation:** References:

<https://docs.microsoft.com/en-us/azure/application-insights/app-insights-monitor-web-app-availability#multi-step-web-tests>

#### NEW QUESTION 119

DRAG DROP

You deploy an application as a cloud service to Azure. The application contains a web role to convert temperatures between Celsius and Fahrenheit. The application does not correctly convert temperatures.

You must use Microsoft Visual Studio to determine why the application does not correctly convert temperatures. You need to debug the source code in Azure.

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.

Actions	Answer Area
Attach the debugger to the role instance of the cloud service.	
Publish the application.	
In the Microsoft Azure Publish Settings dialog, set the build configuration to <b>Release</b> and enable the remote debugger for all roles.	
In the Windows Azure Publish Settings dialog, set the build configuration to <b>Debug</b> .	
In the Microsoft Azure Publish Settings dialog, enable Remote Desktop for cloud configuration and enable the remote debugger for all roles.	

**Answer:**

**Explanation:** Step 1:

To debug a cloud service from a remote machine, you must enable that functionality explicitly when you deploy your cloud service so that required services (msvsmon.exe, for example) are installed on the virtual machines that run your role instances.

You can choose the Release configuration.

Step 2:

If you didn't enable remote debugging when you published the service, you have to republish the service with remote debugging enabled.

Step 3:

If you debug a role, the Visual Studio debugger attaches to each instance of that role. References:

#### NEW QUESTION 124

##### HOTSPOT

You are reviewing an Azure Resource Manager (ARM) template that is used to deploy a Web App to multiple regions. The template contains the following JSON code:

```
{
  "$schema" : "http://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#",
  "contentVersion" : "1.0.0.0",
  "parameters" : {
    "siteLocations" : {
      "type" : "array",
      "defaultValue" : [
        "West Europe", "East US", "West US"
      ]
    }
  },
  "resources" : [
    {
      "apiVersion" : "2014-06-01",
      "name" : "[concat('site',copyIndex())]",
      "type" : "Microsoft.Web/sites",
      "location" : "parameters('siteLocations')[mod(copyIndex(),3)]",
      "properties" : {
        "name" : "[concat('site',copyIndex())]",
      },
      "copy" : {
        "name" : "siteCopy",
        "count" : "[mul(length(parameters('siteLocations')),4)]"
      }
    }
  ]
}
```

How should you implement the deployment configuration? To answer, select the appropriate option in the answer area.

## Answer Area

To how many regions will the Web App be deployed?

	▼
9	
12	
15	
81	

To which region will two sites named Site5 and Site8 be deployed?

	▼
West Europe	
East US	
West US	

**Answer:**

**Explanation:**

## Answer Area

To how many regions will the Web App be deployed?

	▼
9	
12	
15	
81	

To which region will two sites named Site5 and Site8 be deployed?

	▼
West Europe	
East US	
West US	

### NEW QUESTION 127

Your company is launching a public website that allows users to stream videos. You upload multiple video files to an Azure storage container. You need to give anonymous users read access to all of the video files in the storage container. What should you do?

- A. Edit each blob's metadata and set the access policy to Public Blob.
- B. Edit the container metadata and set the access policy to Public Container.
- C. Move the files into a container sub-directory and set the directory access level to Public Blob.
- D. Edit the container metadata and set the access policy to Public Blob.

**Answer:** D

**Explanation:** You can enable anonymous, public read access to a container and its blobs in Azure Blob storage. By doing so, you can grant read-only access to these resources without sharing your account key, and without requiring a shared access signature (SAS).

To set permissions to public read access for blobs only, set the `PublicAccess` property to `BlobContainerPublicAccessType.Blob`.

References: <https://docs.microsoft.com/en-us/azure/storage/storage-manage-access-to-resources>

### NEW QUESTION 128

You are designing an Azure Web App.

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 the Azure AD Authentication library in the web application
- D. Use Active Directory Federation Services (AD FS) to generate claims.

**Answer:** CD



NEW QUESTION 129

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

Answer: B

**Explanation:** Partitions represent a collection of entities with the same PartitionKey values. Partitions are always served from one partition server and each partition server can serve one or more partitions. A partition server has a rate limit of the number of entities it can serve from one partition over time.  
References: <https://docs.microsoft.com/en-us/rest/api/storageservices/Designing-a-Scalable-Partitioning-Strategy-for-Azure-Table-Storage?redirectedfrom=MSDN>

NEW QUESTION 130

DRAG DROP

You create a web application. You publish the source code of the web application to a GitHub repository by using Microsoft Visual Studio. You create a website by using the Azure management portal. You must continuously deploy the web application from the GitHub repository website to the Azure website. You need to deploy the source code of the web application. 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.

Actions

Select the repository and the branch from which to deploy the Azure website.

Select **GitHub** as the source control method.

Configure the Azure website to use the **Always On** option.

In the Azure management portal, configure web endpoint monitoring.

In the Azure management portal, choose the option to set up deployment from source control.

Sign in to GitHub by using your deployment credentials.

Answer Area

Answer:

Explanation:

Actions

Select the repository and the branch from which to deploy the Azure website.

Select **GitHub** as the source control method.

Configure the Azure website to use the **Always On** option.

In the Azure management portal, configure web endpoint monitoring.

In the Azure management portal, choose the option to set up deployment from source control.

Sign in to GitHub by using your deployment credentials.

Answer Area

In the Azure management portal, choose the option to set up deployment from source control.

Select **GitHub** as the source control method.

Sign in to GitHub by using your deployment credentials.

Select the repository and the branch from which to deploy the Azure website.

NEW QUESTION 132

You manage a set of virtual machines (VMs) deployed to the cloud service named fabrikamVM. You configure auto scaling according to the following parameters:

- \* With an instance range of two to six instances
- \* To maintain CPU usage between 70 and 80 percent
- \* To scale up one instance at a time
- \* With a scale up wait time of 30 minutes



\* To scale down one instance at a time

\* With a scale down wait time of 30 minutes

You discover the following usage pattern of a specific application:

\* The application peaks very quickly, and the peak lasts for several hours.

\* CPU usage stays above 90 percent for the first 1 to 1.5 hours after usage increases. After 1.5 hours, the CPU usage falls to about 75 percent until application usage begins to decline.

You need to modify the auto scaling configuration to scale up faster when usage peaks. What are two possible ways to achieve this goal? Each correct answer presents a complete solution.

A. Decrease the scale down wait time.

B. Decrease the scale up wait time.

C. Increase the number of scale up instances.

D. Increase the scale up wait time.

E. Increase the maximum number of instances

**Answer:** BC

#### NEW QUESTION 135

Note: This question is part of a series of questions that present the same scenario. Each

question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are designing the deployment of resources in Azure. You plan to use templates to customize deployment options.

You need to ensure that Azure services are deployed and updated identically. Solution: You customize the parameters element of the template.

Does the solution meet the goal?

A. Yes

B. No

**Answer:** B

#### NEW QUESTION 140

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this sections, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are designing a storage solution to support on-premises resources and Azure-hosted resources.

You need to provide on-premises storage that has built-in replication to Azure. Solution: You include Azure File Storage in the design.

Does the solution meet the goal?

A. Yes

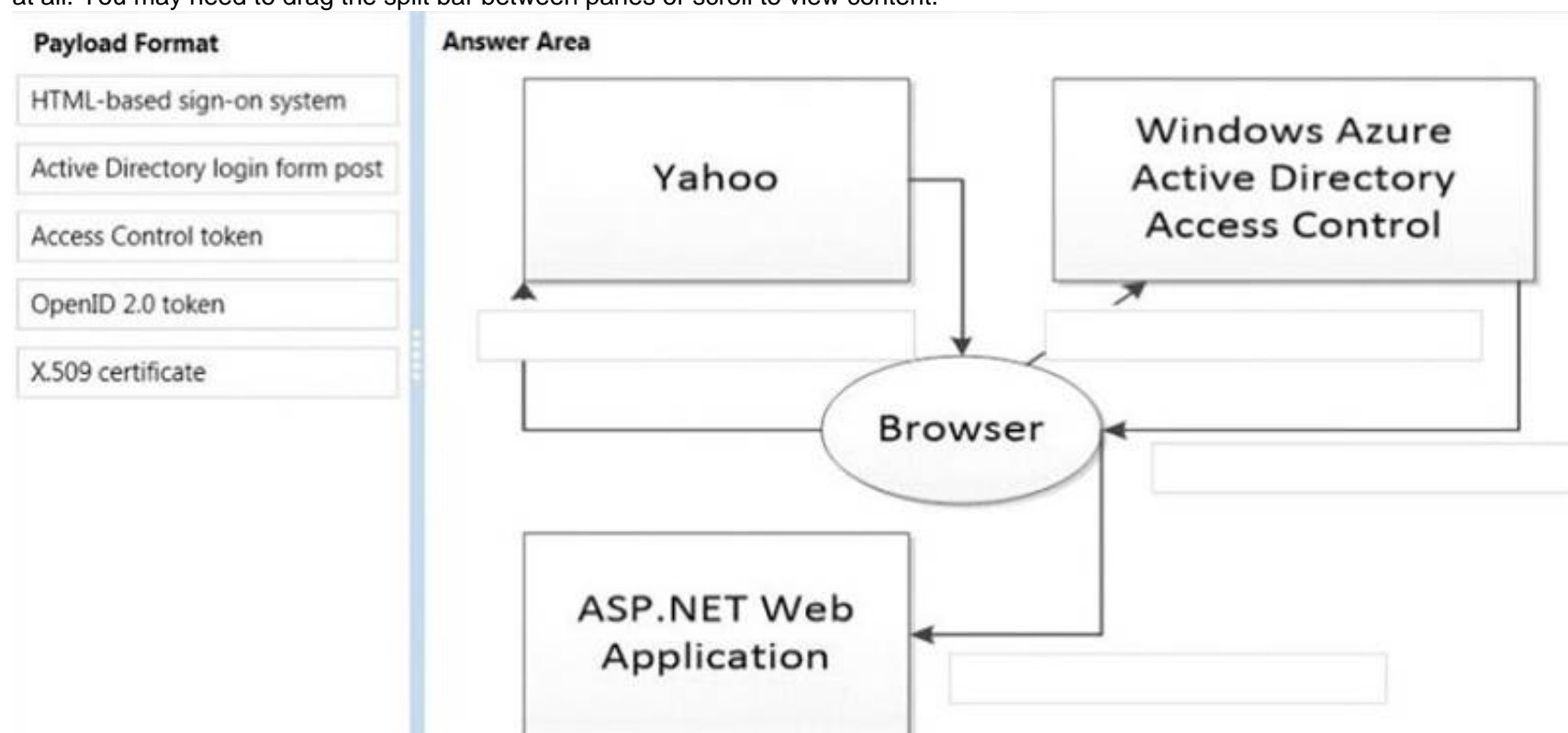
B. No

**Answer:** B

#### NEW QUESTION 144

DRAG DROP

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.



**Answer:**

**Explanation:** Azure AD can support password-based single sign on for any cloud-based app that has an HTML-based sign-in page. By using a custom browser plugin, AAD automates the user's sign in process via securely retrieving application credentials such as the username and the password from the directory, and

enters these credentials into the application's sign in page on behalf of the user.

Microsoft Azure Active Directory Access Control (also known as Access Control Service or ACS) supports federation with Yahoo! as an identity provider using the OpenID 2.0

authentication protocol.

References:

<https://docs.microsoft.com/en-us/azure/active-directory/active-directory-appssoaccess-what-is>

<https://msdn.microsoft.com/en-us/library/azure/gg185921.aspx>

#### NEW QUESTION 146

You work for a company named Contoso, Ltd. The network contains an on premises Active Directory domain that has Active Directory Federation Services (AD FS). Contoso uses an internally developed claims App1. You implement directory synchronization with Azure Active Directory (Azure AD).

You need to recommend which configuration should be performed to Single-Sign-On to App1 to authenticated by Azure AD. Which two configuration should you include in the recommendation?

- A. Azure AD as claims provided trust
- B. App1 as a claims provider
- C. Azure AD as relying party trust
- D. App1 as relying party trust

**Answer:** BC

#### NEW QUESTION 147

You manage a software-as-a-service application named SaaSApp1 that provides user management features in a multi-directory environment. You plan to offer SaaSApp1 to other organizations that use Azure Active Directory.

You need to ensure that SaaSApp1 can access directory objects. What should you do?

- A. Configure the Federation Metadata URL
- B. Register SaaSApp1 as a native client application
- C. Register SaaSApp1 as a web application
- D. Configure the Graph API

**Answer:** D

**Explanation:** The Azure Active Directory Graph API provides programmatic access to Azure AD through REST API endpoints. Applications can use the Graph API to perform create, read, update, and delete (CRUD) operations on directory data and objects.

References: <http://msdn.microsoft.com/en-us/library/azure/hh974476.aspx>

#### NEW QUESTION 149

You manage a web application published to Azure Cloud Services. Your service level agreement (SLA) requires that you are notified in the event of poor performance from customer locations in the US, Asia, and Europe.

You need to configure the Azure Management Portal to notify you when the SLA performance targets are not met. What should you do?

- A. Create an alert rule to monitor web endpoints
- B. Create a Notification Hub alert with response time metrics.
- C. Add an endpoint monitor and alert rule to the Notification Hub.
- D. Configure the performance counter on the cloud service.

**Answer:** A

**Explanation:** References: <https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/insights-alerts-portal>

#### NEW QUESTION 154

DRAG DROP

You are designing an Azure storage solution for a company. The company has the following storage requirements:

\* An app named App1 uses data analytics on stored data. App1 must store data on hierarchical file system that uses Azure Active Directory (Azure AD) access control lists.

\* An app named App2 must have access to object-based storage. The storage must support role-based access control and use shared access signature keys.

You need to design the storage solution.

Which storage solution should you use for each app? To answer, drag the appropriate storage solutions to the correct apps. 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.

### Storage solutions

- Azure Blob Storage
- Azure Data Lake Store
- Azure Site Recovery
- Azure File Storage
- Azure StorSimple virtual device

### Answer Area

App	Storage solution
App1	Storage solution
App2	Storage solution

Answer:

Explanation:

### Storage solutions

- Azure Blob Storage
- Azure Data Lake Store
- Azure Site Recovery
- Azure File Storage
- Azure StorSimple virtual device

### Answer Area

App	Storage solution
App1	Azure Data Lake Store
App2	Azure Blob Storage

**NEW QUESTION 156**

HOTSPOT

You manage two cloud services named Service1 and Service2. The development team updates the code for each application and notifies you that the services are packaged and ready for deployment.

Name	Deployment requirements
Service1	<ul style="list-style-type: none"> <li>You must be able to re-deploy the service using a previous package.</li> <li>The package must be retained for disaster recovery purposes.</li> </ul>
Service2	<ul style="list-style-type: none"> <li>Maintaining the existing service package is not required.</li> </ul>

Each cloud service has specific requirements for deployment according to the following table. In the table below, identify the deployment method for each service. Make only one selection in each column.



Deployment method	Service1	Service2
Manually update DLL on cloud service by means of RDP.	<input type="checkbox"/>	<input type="checkbox"/>
Update by using package in Azure Storage.	<input type="checkbox"/>	<input type="checkbox"/>
Update by using package from your local computer.	<input type="checkbox"/>	<input type="checkbox"/>

Answer:

**Explanation:** Service1: Update by using package in Azure Storage  
The package must be retained for disaster recovery purposes.  
Service 2: Update by using from your local computer Maintaining the existing service package is not required.

NEW QUESTION 157

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

Answer: B

**Explanation:** The Set-AzureRole cmdlet sets the number of instances of a specified role to run in an Azure deployment.  
References: <https://docs.microsoft.com/en-us/powershell/module/Azure/Set-AzureRole?view=azuresmps-4.0.0>

NEW QUESTION 162

DRAG DROP  
Your team uses a proprietary source control product. You use FTP to manually deploy an Azure website. You must move your source code from the proprietary source control product to a secure on-premises Git versioning system. Instead of deploying the website by using FTP, the website must automatically deploy to Azure each time developers check-in source files.  
You need to implement the new deployment strategy. 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.

**Actions**

In the Azure management portal, configure websites to support deployment from the local Git repository.

In the Azure management portal, configure websites to support deployment from external repository sources.

In the Azure management portal, configure websites to support deployment from Microsoft Visual Studio Online.

Commit the website to Azure.

Create the website and add it to the local Git repository.

**Answer Area**

**Answer:**

**Explanation:** References: <http://www.almguides.com/2014/01/deploying-an-azure-website-from-a-local-git-repo/>

**NEW QUESTION 163**

DRAG DROP

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

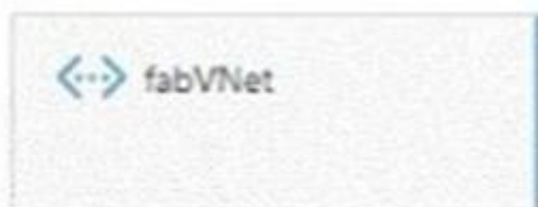
ADDRESS SPACE	STARTING IP	CIDR (ADDRESS COUNT)	USABLE ADDRESS RANGE
10.0.0.0/23	10.0.0.0	/23 (507)	10.0.0.4 - 10.0.1.254
SUBNETS			
Apps	10.0.0.0	/26 (59)	10.0.0.4 - 10.0.0.62
Web	10.0.0.64	/29 (3)	10.0.0.68 - 10.0.0.70
DB	10.0.0.72	/29 (3)	10.0.0.76 - 10.0.0.78

add address space

fabvnet

 DASHBOARD    CONFIGURE    CERTIFICATES

virtual network



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.

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.	

**Answer:**

**Explanation:** References: <https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-faq>

#### NEW QUESTION 168

You are responsible for mobile app development for a company. The company develops apps on Windows Phone, iOS, and Android. You plan to integrate push notifications into every app.

You need to be able to send users alerts from a backend server.

Which two options can you use to achieve this goal? Each correct answer presents a complete solution.

- A. Azure Notification Hubs
- B. Azure SQL Database
- C. Azure Mobile App Service
- D. Azure Web App
- E. a virtual machine

**Answer:** AC

#### NEW QUESTION 173

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.

**Answer:** B

**Explanation:** The TransactionScope class establishes an ambient transaction in .NET. (An “ambient transaction” is one that lives in the current thread.) All connections opened within the TransactionScope participate in the transaction. If different databases participate, the transaction is automatically elevated to a distributed transaction. The outcome of the transaction is controlled by setting the scope to complete to indicate a commit.

Note: Elastic database transactions for SQL DB enable applications to make atomic changes to data stored in several different SQL Databases.

Elastic database transactions targets the following scenarios:

\* Multi-database applications in Azure: With this scenario, data is vertically partitioned across several databases in SQL DB such that different kinds of data reside on different databases. Some operations require changes to data which is kept in two or more databases. The application uses elastic database transactions to coordinate the changes across databases and ensure atomicity.

Etc.

References: <https://docs.microsoft.com/en-us/azure/sql-database/sql-database-elastic-transactions-overview>

#### NEW QUESTION 175

DRAG DROP

You are migrating a company’s infrastructure to Azure. You need to implement all required services.



For each solution, which object or service should you implement? To answer, drag the appropriate Azure object or service to the correct solution. Each service 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

## Objects and Services

- Azure Active Directory
- Virtual Machine
- Virtual Interface Card
- Security Center
- API Management
- Virtual Network
- Network Security Group

## Answer Area

### Solution

- Allows the creation of a perimeter network
- Identity solution for cloud resources
- Firewall restrictions for Azure resources
- Identity solution for on-premises resources

### Object or service

- object or service
- object or service
- object or service
- object or service

Answer:

Explanation:

## Objects and Services

- Azure Active Directory
- Virtual Machine
- Virtual Interface Card
- Security Center
- API Management
- Virtual Network
- Network Security Group

## Answer Area

### Solution

- Allows the creation of a perimeter network
- Identity solution for cloud resources
- Firewall restrictions for Azure resources
- Identity solution for on-premises resources

### Object or service

- Virtual Network
- Azure Active Directory
- Network Security Group
- Azure Active Directory

## NEW QUESTION 180

### HOTSPOT

You are developing a messaging solution for a financial services company named Adatum. The solution must integrate an application named Enrollment and an application named Activation.

The Enrollment application is used to enroll new customers. The Activation application is used to activate accounts for new customers.

You need to ensure that each message that the Enrollment application sends is stored in a queue for ten minutes before the Activation application uses the message.

How should you complete the relevant code? To answer, select the appropriate option or options in the answer area.

## Answer Area

```
var address =
ServiceBusEnvironment.CreateServiceUri("
",
sb
msmq
adatum.servicebus.windows.net/activate
", string.Empty);
var ns = new
(namespace
namespaceManager
ServiceBusNamespaceSettings
)(address, new NamespaceManagerSettings()
{
OperationTimeout =
10
10000
new TimeSpan(0,10,0)
});
ns.CreateQueue("ActivationQueue");
```

### Answer:

**Explanation:** Box 1: sb Servicebus

Box 2: adatum.servicebus.windows.net/activate This is a proper service bus URI.

Note: CreateServiceUri(String, String, String) constructs the Service Bus URI for an application, using the specified scheme, service namespace, and service path. Parameters:

Box 3: NamespaceManager Box 4: New TimeSpan(0,10,0) TimeSpan(Int32,Int32,Int32)

Initializes a new instance of the TimeSpan structure to a specified number of hours, minutes, and seconds.

## NEW QUESTION 182

### Case Study

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### Background Overview

Woodgrove Bank has 20 regional offices and operates 1,500 branch office locations. Each regional office hosts the servers, infrastructure, and applications that support that region.

Woodgrove Bank plans to move all of their on-premises resources to Azure, including virtual machine (VM)-based, line-of-business workloads, and SQL databases. You are the owner of the Azure subscription that Woodgrove Bank is using. Your team is using Git repositories hosted on GitHub for source control.

### Security

Currently, Woodgrove Bank's Computer Security Incident Response Team (CSIRT) has a problem investigating security issues due to the lack of security intelligence integrated with their current incident response tools. This lack of integration introduces a problem during the detection (too many false positives), assessment, and diagnose stages. You decide to use Azure Security Center to help address this problem.

Woodgrove Bank has several apps with regulates data such as Personally Identifiable Information (PII) that require a higher level of security. All apps are currently secured by using an on-premises Active Directory Domain Services (ADDS). The company depends on following mission-critical apps: WGBLoanMaster, WGBLeaseLeader, and WGBCreditCruncher apps. You plan to move each of these apps to Azure as part of an app migration project.

### Apps

The WGBLoanMaster app has been audited for transaction loss. Many transactions have been lost is processing and monetary write-offs have cost the bank. The app runs on two VMs that include several public endpoints.

The WGBLeaseLeader app has been audited for several data breaches. The app includes a SQL Server database and a web-based portal. The portal uses an ASP.NET Web API function to generate a monthly aggregate report from the database.

The WGBCreditCruncher app runs on a VM and is load balanced at the network level. The app includes several stateless components and must accommodate scaling of increased credit processing. The app runs on a nightly basis to process credit transactions that are batched during the day. The app includes a web-



based portal where customers can check their credit information. A mobile version of the app allows users to upload check images.

Business Requirements WGBLoanMaster app

The app audit revealed a need for zero transaction loss. The business is losing money due to the app losing and not processing loan information. In addition, transactions fail to process after running for a long time. The business has requested the aggregation processing to be scheduled for 01:00 to prevent system slowdown.

WGBLeaseLeader app

The app should be secured to stop data breaches. If the data is breached, it must not be readable. The app is continuing to see increased volume and the business does not want the issues presented in the WGBLoanMaster app. Transaction loss is unacceptable, and although the lease monetary amounts are smaller than loans, they are still an important profit center for Woodgrove Bank. The business would also like the monthly report to be automatically generated on the first of the month. Currently, a user must log in to the portal and click a button to generate the report.

WGBCreditCruncher app

The web-based portal area of the app must allow users to sign in with their Facebook credentials. The bank would like to allow this feature to enable more users to check their credit within the app.

Woodgrove Bank needs to develop a new financial risk modeling feature that they can include in the WGBCreditCruncher app. The financial risk modeling feature has not been developed due to costs associated with processing, transforming, and analyzing the large volumes of data that are collected. You need to find a way to implement parallel processing to ensure that the features run efficiently, reliably, and quickly. The feature must scale based on computing demand to process the large volumes of data and output several financial risk models.

Technical Requirements WGBLoanMaster app

The app uses several compute-intensive tasks that create long-running requests to the system. The app is critical to the business and must be scalable to increased loan processing demands. The VMs that run the app include a Windows Task Scheduler task that aggregates loan information from the app to send to a third party. This task runs a console app on the VM.

The app requires a messaging system to handle transaction processing. The messaging system must meet the following requirements:

You develop an Azure Resource Manager (ARM) template to deploy the VMs used to support the app. The template must be deployed to a new resource group and you must validate your deployment settings before creating actual resources.

WGBLeaseLeader app

The app must use Azure SQL Databases as a replacement to the current Microsoft SQL Server environment. The monthly report must be automatically generated.

The app requires a messaging system to handle transaction processing. The messaging system must meet the following requirements:

WGBCreditCruncher app The app must:

Key security area

Name	Description
Area 1	Uses Role-Based Access Control (RBAC)
Area 2	Uses Azure Monitoring Agent (ASMAgentLauncher.exe) and the Azure Security Monitoring extension (ASMMonitoringAgent.exe) and is a main cost of Azure Security Center
Area 3	Customizes your company's security requirements and the type of apps of sensitivity of the data. Propagates to all resource groups within the Azure subscription
Area 4	Allows you to detect, assess, and diagnose attacks
Area 5	Prevents and detects future security changes. Changes to the environment are automatically enabled as resources are added

You need to run the script for a new release. Which technology should you use?

- A. Azure WebJob
- B. Azure App Service API App
- C. Azure Function
- D. Azure App Service Logic App

**Answer: B**

#### NEW QUESTION 186

DRAG DROP

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.



### 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
```

**Answer:**

**Explanation:**

### PowerShell cmdlets

New-AzureResource

Set-AzureResource

plan1

plan2

Microsoft.Web/serverFarms

Microsoft.Web/sites

### 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
```

### NEW QUESTION 187

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.

**Answer:** AE

### NEW QUESTION 190

DRAG DROP

You manage an Azure Web Site named salessite1. You notice some performance issues with salessite1. You create a new database for salessite1. You need to update salessite1 with the following changes, in the order shown:

- \* Display the list of current connection strings.
- \* Create a new connection string named conn1 with a value of: Server=tcp:sample1.database.windows.net,1433;Database=NewDB;UserID=User@sample1;Password=Password1;Trusted\_Connection=False;Encrypt=True;Connection Timeout=30;.
- \* Download the application logs for analysis.

Which three xplat-cli commands should you perform in sequence? To answer, move the appropriate commands from the list of commands to the answer area and arrange them in the correct order.

Command	Answer Area
<pre>site connectionstring show "conn1" "Server=tcp:sample1.database.windows.net,1433;Database=NewDB;User ID=User@sample1;Password=Password1;Trusted_Connection=False;Encrypt=True;Connection Timeout=30;" "SQLAzure" salessite1</pre>	
<pre>site log download salessite1</pre>	
<pre>site log tail salessite1</pre>	
<pre>site connectionstring show salessite1</pre>	
<pre>site connectionstring add "conn1" "Server=tcp:sample1.database.windows.net,1433;Database=NewDB;User ID=User@sample1;Password=Password1;Trusted_Connection=False;Encrypt=True;Connection Timeout=30;" "SQLAzure" salessite1</pre>	
<pre>site connectionstring list salessite1</pre>	

**Answer:**

**Explanation:** References: <https://docs.microsoft.com/en-us/cli/azure/get-started-with-azure-cli>

#### NEW QUESTION 194

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.

**Answer:** BC

**Explanation:** References: <http://www.biztalkgurus.com/blogs/msft-biztalk-community/wcf-nettcprelaybinding-streaming-gotcha>

#### NEW QUESTION 195

You develop a set of Power Shell scripts that will run when you deploy new virtual machines (VMs). You need to ensure that the scripts are executed on new VMs. You want to achieve this goal by using the least amount of administrative effort. What should you do?

- A. Create a new GPO to execute the scripts as a logon script.
- B. Create a SetupComplete.cmd batch file to call the scripts after the VM starts.
- C. Create a new virtual hard disk (VHD) that contains the scripts.
- D. Load the scripts to a common file share accessible by the VMs.
- E. Set the VMs to execute a custom script extension.

**Answer:** E

**Explanation:** Custom Script Extension can automatically download scripts and files from Azure Storage and launch a PowerShell script on the VM which in turn can install additional software components. And just like with any other VM Extension, this can be added during VM creation or after the VM has been running.

References: <https://azure.microsoft.com/en-us/blog/automating-vm-customization-tasks-using-custom-script-extension/>

#### NEW QUESTION 196

HOTSPOT  
Case Study

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Background General

Trey Research is the global leader in analytical data collection and research. Trey Research houses its servers in a highly secure server environment. The company has continuous monitoring, surveillance, and support to prevent unauthorized access and data security.

The company uses advanced security measures including firewalls, security guards, and surveillance to ensure the continued service and protection of data from natural disaster, intruders, and disruptive events.

Trey Research has recently expanded its operations into the cloud by using Microsoft Azure. The company creates an Azure virtual network and a Virtual Machine (VM) for moving on-premises Subversion repositories to the cloud. Employees access Trey Research applications hosted on-premises and in the cloud by using credentials stored on- premises.

Applications

Trey Research hosts two mobile apps on Azure, DataViewer and DataManager. The company uses Azure-hosted web apps for internal and external users.

Federated partners of Trey Research have a single sign-on (SSO) experience with the DataViewer application.

Architecture

You have an Azure Virtual Network (VNET) named TREYRESEARCH\_VNET. The VNET includes all hosted VMs. The virtual network includes a subnet Frontend and a subnet named RepoBackend. A resource group has been created to contain the TREYRESEARCH\_VNET, DataManager and DataViewer. You manage VMs by using System Center VM Manager (SCVMM). Data for specific high security projects and clients are hosted on-premises. Data for other projects and clients are hosted in the cloud.

Azure Administration

User Tier	Role
Tier 1	Manages everything, including resources.
Tier 2	Manages virtual machines, without access to them or their virtual networks and storage accounts.
Tier 3	Manages websites, without access to them.
Tier 4	Access Control.

DataManager

The DataManager app connects to a RESTful service. It allows users to retrieve, update, and delete Trey Research data.

Requirements General

You have the following general requirements:

Disaster recovery

Disaster recovery and business continuity plans must use a single, integrated service that supports the following features:

Security

You identify the following security requirements: Subversion server

Subversion Server Sheet

```
TREYRESEARCH_SVN_VM
Azure Virtual Machine - Window Server Technical Preview 2016
Installed SVN Server
Outbound TCP 8443
Resource group - TREYRESEARCHVM_RG
Location - West US
Computer name - TREYRESEARCHSVNVM
User name - admin
Size - Standard A2
Disk type - Standard
Storage account - (new) TREYRESEARCHstore
Virtual network - TREY RESEARCH_VNET
Subnet - RepoBackend (10.0.2.0/24)
Public IP address - (new) TREYRESEARCHSVNVM
Network security group - (new) TREYRESEARCHSVNVM
Availability set - None
Diagnostics - Enabled
Diagnostics storage account - (new) TREYRESEARCHstore
```



You need to enforce the security requirements for all subversion servers.  
How should you configure network security? To answer, select the appropriate answer from each list in the answer area.

Answer Area

Question	Answer
Which Network Security Group will be applied to TREYRESEARCH_SVN_VM?	<div><div></div><div>the default Network Security Group created with the VM</div><div>a new Network Security Group</div></div>
Which association will the Network Security Group have?	<div><div></div><div>virtual machine</div><div>Network Interface Card</div><div>subnet</div></div>

**Answer:**

**Explanation:** / You host multiple subversion (SVN) repositories in the RepoBackend subnet. The SVN servers on this subnet must use inbound and outbound TCP at port 8443.

NEW QUESTION 199

DRAG DROP  
You need to design the role-based access control strategy for the company. What should you do? To answer, drag the appropriate role to the correct user tier. Each role may be used one, more than once, or not at all.  
You may need to drag the split bar between panes or scroll to view content.

Roles	Answer Area																
<table><tr><td>Owner</td><td>Contributor</td></tr><tr><td>Reader</td><td>Website Contributor</td></tr><tr><td>Virtual Machine Contributor</td><td>User Access Administrator</td></tr><tr><td>Web Plan Contributor</td><td>Security Manager</td></tr></table>	Owner	Contributor	Reader	Website Contributor	Virtual Machine Contributor	User Access Administrator	Web Plan Contributor	Security Manager	<table><thead><tr><th>User tier</th><th>Role</th></tr></thead><tbody><tr><td>Tier 1</td><td><div></div></td></tr><tr><td>Tier 2</td><td><div></div></td></tr><tr><td>Tier 3</td><td><div></div></td></tr></tbody></table>	User tier	Role	Tier 1	<div></div>	Tier 2	<div></div>	Tier 3	<div></div>
Owner	Contributor																
Reader	Website Contributor																
Virtual Machine Contributor	User Access Administrator																
Web Plan Contributor	Security Manager																
User tier	Role																
Tier 1	<div></div>																
Tier 2	<div></div>																
Tier 3	<div></div>																

**Answer:**

**Explanation:** Azure platform roles include:  
Azure also provides several resource-specific roles. Some common ones are: References: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-overview>

NEW QUESTION 200

Case Study  
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Woodgrove Bank plans to move all of their on-premises resources to Azure, including virtual machine (VM)-based, line-of-business workloads, and SQL databases. You are the owner of the Azure subscription that Woodgrove Bank is using. Your team is using Git repositories hosted on GitHub for source control.  
Security  
Currently, Woodgrove Bank's Computer Security Incident Response Team (CSIRT) has a problem investigating security issues due to the lack of security intelligence integrated with their current incident response tools. This lack of integration introduces a problem during the detection (too many false positives), assessment, and diagnose stages. You decide to use Azure Security Center to help address this problem.

Woodgrove Bank has several apps with regulates data such as Personally Identifiable Information (PII) that require a higher level of security. All apps are currently secured by using an on-premises Active Directory Domain Services (ADDS). The company depends on following mission-critical apps: WGBLoanMaster, WGBLeaseLeader, and WGBCreditCruncher apps. You plan to move each of these apps to Azure as part of an app migration project.

#### Apps

The WGBLoanMaster app has been audited for transaction loss. Many transactions have been lost is processing and monetary write-offs have cost the bank. The app runs on two VMs that include several public endpoints.

The WGBLeaseLeader app has been audited for several data breaches. The app includes a SQL Server database and a web-based portal. The portal uses an ASP.NET Web API function to generate a monthly aggregate report from the database.

The WGBCreditCruncher app runs on a VM and is load balanced at the network level. The app includes several stateless components and must accommodate scaling of increased credit processing. The app runs on a nightly basis to process credit transactions that are batched during the day. The app includes a web-based portal where customers can check their credit information. A mobile version of the app allows users to upload check images.

#### Business Requirements WGBLoanMaster app

The app audit revealed a need for zero transaction loss. The business is losing money due to the app losing and not processing loan information. In addition, transactions fail to process after running for a long time. The business has requested the aggregation processing to be scheduled for 01:00 to prevent system slowdown.

#### WGBLeaseLeader app

The app should be secured to stop data breaches. If the data is breached, it must not be readable. The app is continuing to see increased volume and the business does not want the issues presented in the WGBLoanMaster app. Transaction loss is unacceptable, and although the lease monetary amounts are smaller than loans, they are still an important profit center for Woodgrove Bank. The business would also like the monthly report to be automatically generated on the first of the month. Currently, a user must log in to the portal and click a button to generate the report.

#### WGBCreditCruncher app

The web-based portal area of the app must allow users to sign in with their Facebook credentials. The bank would like to allow this feature to enable more users to check their credit within the app.

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#### Technical Requirements WGBLoanMaster app

The app uses several compute-intensive tasks that create long-running requests to the system. The app is critical to the business and must be scalable to increased loan processing demands. The VMs that run the app include a Windows Task Scheduler task that aggregates loan information from the app to send to a third party. This task runs a console app on the VM.

The app requires a messaging system to handle transaction processing. The messaging system must meet the following requirements:

You develop an Azure Resource Manager (ARM) template to deploy the VMs used to support the app. The template must be deployed to a new resource group and you must validate your deployment settings before creating actual resources.

#### WGBLeaseLeader app

The app must use Azure SQL Databases as a replacement to the current Microsoft SQL Server environment. The monthly report must be automatically generated.

The app requires a messaging system to handle transaction processing. The messaging system must meet the following requirements:

#### WGBCreditCruncher app

The app must: Key security area

Name	Description
Area 1	Uses Role-Based Access Control (RBAC)
Area 2	Uses Azure Monitoring Agent (ASMAgentLauncher.exe) and the Azure Security Monitoring extension (ASMMonitoringAgent.exe) and is a main cost of Azure Security Center
Area 3	Customizes your company's security requirements and the type of apps of sensitivity of the data. Propagates to all resource groups within the Azure subscription
Area 4	Allows you to detect, assess, and diagnose attacks
Area 5	Prevents and detects future security changes. Changes to the environment are automatically enabled as resources are added

You need to recommend a business continuity and disaster recovery solution for all of the existing line of business applications.

What are two ways to achieve the goal? Each correct answer presents a complete solution.

- A. Create new virtual machines (VMs) in Azure and migrate the line of business applications to the VM
- B. Migrate any backend databases to SQL Database.
- C. Migrate the virtual machines to the Hyper-V cluster and enable Hyper-V replica.
- D. Configure ExpressRoute to enable migration to Azure.
- E. Install the Azure Backup agent on the virtual machines.

**Answer:** AB

**Explanation:** References:

<https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-hyper-v-site-to-azure>

#### NEW QUESTION 201

##### DRAG DROP

You are designing the deployment of Azure Site Recovery with Hyper-V Replica. The environment does not have System Center Virtual Machine Manager (VMM) deployed.

You need to instruct an implementation team to prepare the Azure environment for deployment.

Which three actions should you recommend to be performed in sequence? To answer, move the appropriate actions from the list of actions to the answer area and

arrange them in the correct order.

## Actions

Create a Hyper-V failover cluster.

Define the source and target replicas.

Create an Azure Recovery Services vault.

Install System Center VMM.

Enable replication for the virtual machines (VMs).

## Answer Area



Answer:

Explanation:

## Actions

Create a Hyper-V failover cluster.

Define the source and target replicas.

Create an Azure Recovery Services vault.

Install System Center VMM.

Enable replication for the virtual machines (VMs).

## Answer Area

Create an Azure Recovery Services vault.

Enable replication for the virtual machines (VMs).

Define the source and target replicas.



### NEW QUESTION 203

You administer a set of virtual machine (VM) guests hosted in Hyper-V on Windows Server 2012 R2. The virtual machines run the following operating systems:

- \* Windows Server 2008
- \* Windows Server 2008 R2
- \* Linux (openSUSE 13.1)

All guests currently are provisioned with one or more network interfaces with static bindings and VHDX disks. You need to move the VMs to Azure Virtual Machines hosted in an Azure subscription. Which three actions should you perform?

Each correct answer presents part of the solution.

- A. Install the WALinuxAgent on Linux servers.
- B. Ensure that all servers can acquire an IP by means of Dynamic Host Configuration Protocol (DHCP).
- C. Upgrade all Windows VMs to Windows Server 2008 R2 or higher.
- D. Sysprep all Windows servers
- E. Convert the existing virtual disks to the virtual hard disk (VHD) format.

**Answer:** ABE

**Explanation:** The Azure Linux Agent is installed on the Linux VM and is responsible to communicate with the Azure Fabric Controller.

It is a prerequisite that the Virtual Machines can receive IP addresses from DHCP. Azure does not use VHDX, only VHD. We are required to convert VHDX to VHD.

### NEW QUESTION 205

DRAG DROP



You manage two solutions in separate Azure subscriptions. You need to ensure that the two solutions can communicate on a private network. Which three actions should you perform in sequence?

Action	Answer Area
Check ExpressRoute on the virtual network configuration page.	
Update the connection certificate.	
Create the static routing gateways.	
Connect the VPN gateways.	
Add local networks to the VNets.	
Run Set-AzureVNetIP PowerShell cmdlet.	
Create the dynamic routing gateways.	
Edit the ACL on the virtual network gateway to accept connections.	

Answer:

**Explanation:** Step 1 - Plan your IP address ranges  
\* Step 2 - Create the virtual networks Step 3 - Configure the local site  
\* Step 4 - Create the virtual network gateway Step 5 - Configure TestVNet4 settings  
Step 6 - Update the local sites  
Step 7 - Retrieve values from the network configuration file  
\* Step 8 - Create the VPN gateway connections  
References: <https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-vnet-vnet-portal-classic#create-the-dynamic-routing-gateways-for-each-vnet>

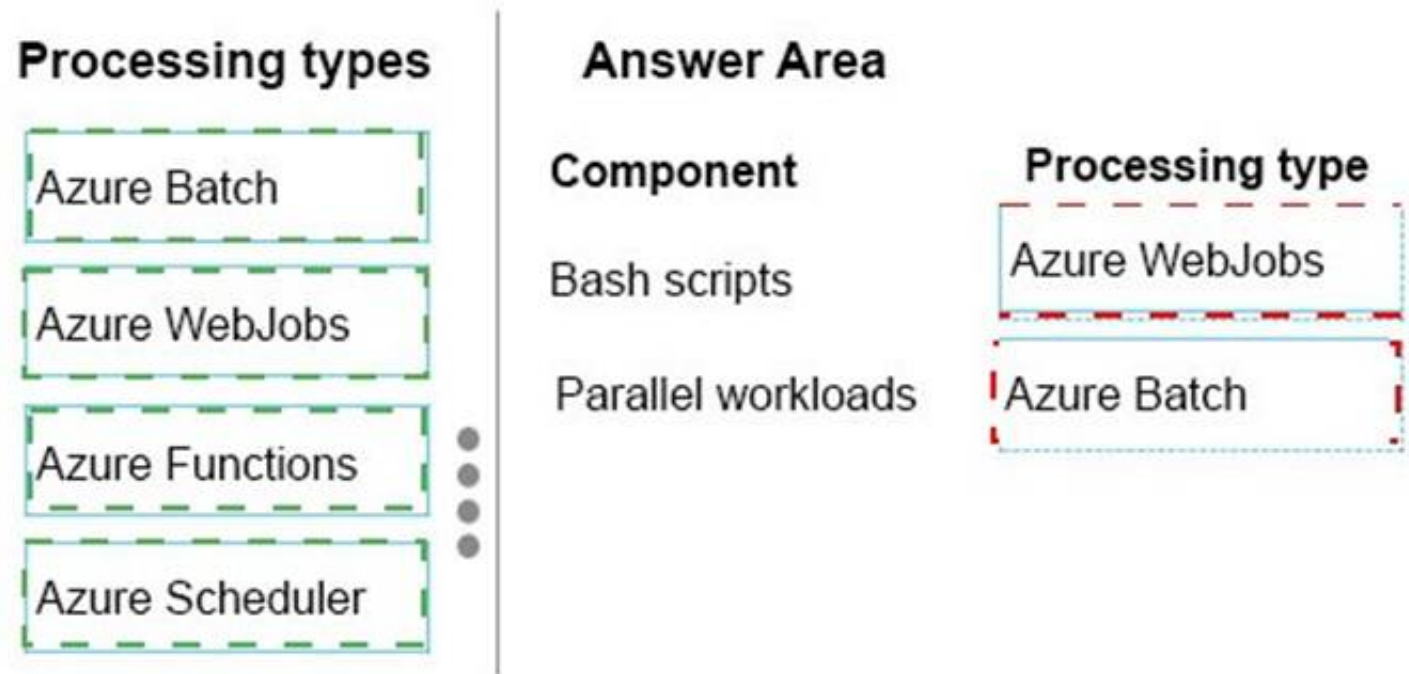
NEW QUESTION 210

DRAG DROP  
You are designing the deployment for Linux virtual machines (VMs) in Azure. The VMs will be used for a web app that will run in Azure.  
The web app must be able to run Bash scripts on demand. Parallel workloads must also be set to scale automatically based on use.  
You need to design the environment for the Bash scripts and parallel workloads. Which processing type should you use for each component? To answer, drag the appropriate processing types to the correct components. Each processing type 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.

Processing types	Answer Area	
	Component	Processing type
Azure Batch	Bash scripts	Processing type
Azure WebJobs	Parallel workloads	Processing type
Azure Functions		
Azure Scheduler		

Answer:

Explanation:



NEW QUESTION 211

HOTSPOT

You have a WebJob object that runs as part of an Azure website. The WebJob object uses features from the Azure SDK for .NET. You use a well-formed but invalid storage key to create the storage account that you pass into the UploadDataToAzureStorage method. The WebJob object contains the following code segment. Line numbers are included for reference only.

```
01 void UploadDataToAzureStorage(CloudStorageAccount storageAccount,
    string storageContainerName, string blobpath, string localpath)
02 {
03     var blobClient = storageAccount.CreateCloudBlobClient();
04     var container = blobClient.GetContainerReference(storageContainerName);
05     CloudBlockBlob blockBlob = container.GetBlockBlobReference(blobpath);
06     blockBlob.UploadFromFile(localpath, FileMode.Open);
07 }
```

Answer Area

	Yes	No
If the storage container does not already exist when the code runs, a file can still be uploaded successfully.	<input type="radio"/>	<input type="radio"/>
If a transient fault occurs when the code segment on line 06 runs, the Azure SDK will attempt to upload the file again.	<input type="radio"/>	<input type="radio"/>
The code segment at line 06 will fail when the code runs.	<input type="radio"/>	<input type="radio"/>

Answer:

**Explanation:** For blob storage, there is a retry policy implemented by default, so if you do nothing, it will do what's called exponential retries. It will fail, then wait a bit of time and try again; if it fails again, it will wait a little longer and try again, until it hits the maximum retry count.  
References: <https://www.simple-talk.com/cloud/platform-as-a-service/azure-blob-storage-part-3-using-the-storage-client-library/>

NEW QUESTION 213

DRAG DROP

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.

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>

Answer:

**Explanation:** Box 1: <InputEndpoint name="Endpoint1 protocol="http" port="80" /> Contosoweb can be accessed over the Internet by using http.  
Box 2: <InputEndpoint name="Endpoint1 protocol="tcp" port="5001" /> Contosoimagepurge can only be accessed through tcp port 5001 from contosoweb.  
Box 3: < RoleEndpoint endpointName="Endpoint1 roleName="contosoimagepurge"/>  
/Destinations>  
WhenSource matches="AnyRule"> FromRole roleName="contosoweb"/>  
/WhenSource>

NEW QUESTION 216

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.

Answer: B

**Explanation:** You can use Azure Diagnostics to log detailed information from code running within roles, whether the roles are running in the development environment or in Azure.  
References: <https://docs.microsoft.com/en-us/azure/vs-azure-tools-debugging-cloud-services-overview>

NEW QUESTION 221

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