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Exam : **70-534**

Title : Architecting Microsoft Azure Solutions

Vendor : Microsoft

Version : DEMO

NO.1 HOTSPOT

A company creates an Azure worker role to manage products.

The number of customers who inquire about how many products are in inventory rapidly increases. You need to ensure that the worker role can scale to accommodate the increased workload.

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

Answer Area

Answer:

Answer Area

Explanation:

Answer Area

Example code:

autoscaler =

EnterpriseLibraryContainer.Current.GetInstance<Autoscaler>();

autoscaler.Start();

References: [https://msdn.microsoft.com/en-us/library/hh680914\(v=pandp.50\).aspx](https://msdn.microsoft.com/en-us/library/hh680914(v=pandp.50).aspx)

NO.2 You need to recommend a solution that allows partners to authenticate.

Which solution should you recommend?

- A. Configure the federation provider to trust social identity providers.
- B. Configure the federation provider to use the Azure Access Control service.
- C. Create a new directory in Azure Active Directory and create a user account for the partner.
- D. Create an account on the VanArsdel domain for the partner and send an email message that contains the password to the partner.

Answer: B

Explanation:

* Scenario: The partners all use Hotmail.com email addresses.

* In Microsoft Azure Active Directory Access Control (also known as Access Control Service or ACS), an identity provider is a service that authenticates user or client identities and issues security tokens that ACS consumes.

The ACS Management Portal provides built-in support for configuring Windows Live ID as an ACS Identity Provider.

Incorrect:

Not C, not D: Scenario: VanArsdel management does NOT want to create and manage user accounts for partners.

NO.3 You are designing a solution that will interact with non-Windows applications over unreliable network connections. You have a security token for each non-Windows application.

You need to ensure that non-Windows applications retrieve messages from the solution.

Where should you retrieve messages?

- A. An Azure Queue
- B. The Azure Service Bus Queue
- C. An Azure blob storage container that has a private access policy
- D. Azure Table storage

Answer: B

Explanation:

Any Microsoft or non-Microsoft applications can use a Service Bus REST API to manage and access messaging entities over HTTPS.

By using REST applications based on non-Microsoft technologies (e.g. Java, Ruby, etc.) are allowed not only to send and receive messages from the Service Bus, but also to create or delete queues, topics and subscription in a given namespace.

References: <https://code.msdn.microsoft.com/windowsazure/service-bus-explorer-f2abca5a>

NO.4 You need to recommend a solution that meets the requirements for data storage for the NorthRide app.

What should you include in the recommendation?

- A. Azure Remote App
- B. Azure Service Bus
- C. Azure Connect
- D. Azure SQL Database

Answer: B

Explanation:

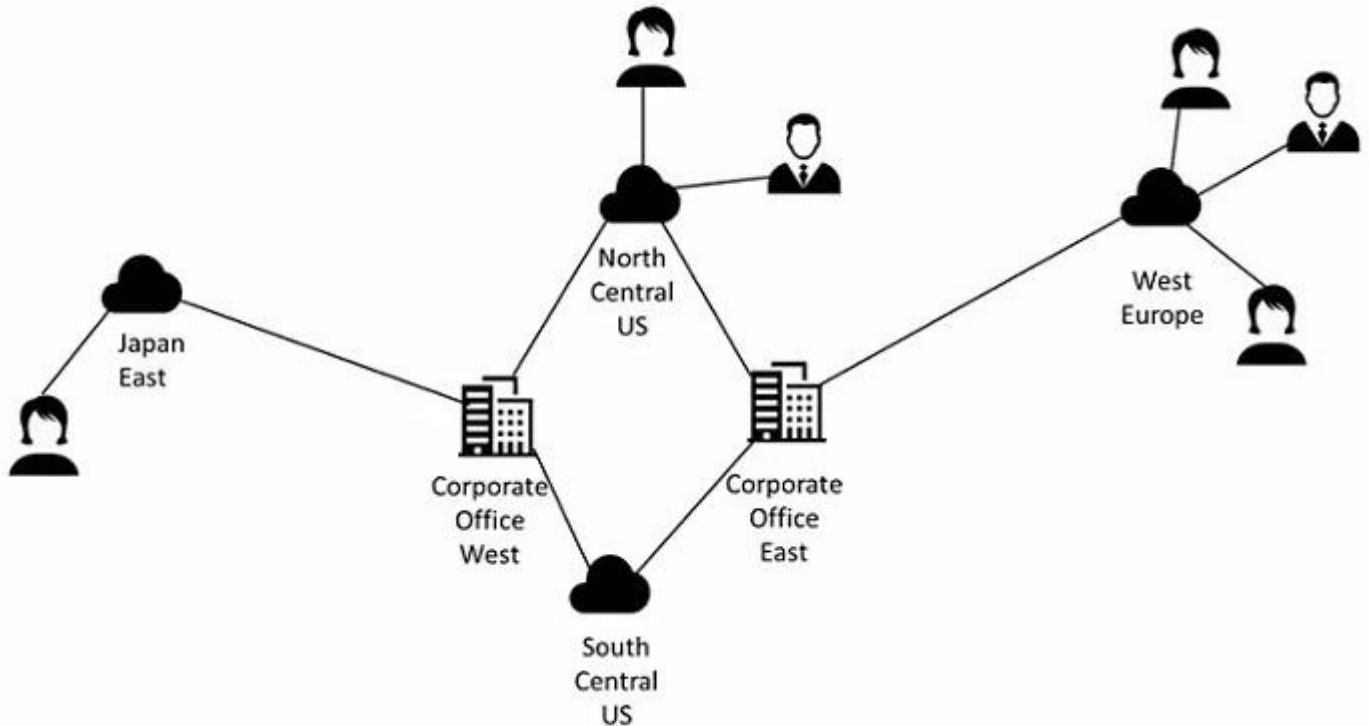
Service Bus queues are part of a broader Azure messaging infrastructure that supports queuing as well as publish/subscribe, Web service remoting, and integration patterns.

Service Bus Queue support Push-style API (while Azure Queue messaging does not).

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

NO.5 HOTSPOT

The company has two corporate offices. Customers will access the websites from datacenters around the world.



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

Answer Area

'here should you deploy the websites?

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

'here should you store the media?

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

'here should you deploy the data warehouse?

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

Answer:

Answer Area

'here should you deploy the websites?

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

'here should you store the media?

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

'here should you deploy the data warehouse?

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

Explanation:

Answer Area

'here should you deploy the websites?

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

'here should you store the media?

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

'here should you deploy the data warehouse?

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

* Scenario: The customer-facing website must have access to all ad copy and media.

NO.6 You need to implement the security requirements.

What should you implement?

- A. the GraphAPI to query the directory
- B. LDAP to query the directory
- C. single sign-on
- D. user certificates

Answer: C

Explanation:

References:

<https://blogs.msdn.microsoft.com/plankytronixx/2010/11/27/single-sign-on-between-on-premise-apps-windows-azure-apps-and-office-365-services/>

NO.7 You plan to implement Multi-Factor Authentication (MFA). Administrators must be able to protect user accounts with MFA. You must implement text messages or telephone calls as a second factor.

You need to recommend a MFA solution that minimize costs.

What should you recommend?

- A. Azure Active Directory Premium
- B. an on-premises solution
- C. a Microsoft Office 365 subscription
- D. the Enterprise Mobility Suite

Answer: A

NO.8 DRAG DROP

You are developing an application that will send push notifications to registered devices.

You perform the following actions:

- *set up a notification hub with the correct push credentials
- *register the device application with the platform notification system and the hub
- *update the back-end to send notifications.

You need to debug push notifications by sending test notifications to registered devices in a controlled way.

For each action, which tool should you implement? To answer, drag the appropriate tool to the correct action. Each tool 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.

Tools

- Azure Portal
- Microsoft Visual Studio Server Explorer
- Service Bus Explorer tool
- Azure SDK

Answer Area

Action	Tool
Use several metric for monitoring	tool
Run per-platform diagnostics	tool
Limit test notifications to 10 clients at a time	tool

Answer:

Tools

- Azure Portal
- Microsoft Visual Studio Server Explorer
- Service Bus Explorer tool
- Azure SDK

Answer Area

Action	Tool
Use several metric for monitoring	Azure Portal
Run per-platform diagnostics	Azure Portal
Limit test notifications to 10 clients at a time	Microsoft Visual Studio Server Explorer

Explanation:

Tools	Answer Area	
	Action	Tool
Azure Portal	Use several metric for monitoring	Azure Portal
Microsoft Visual Studio Server Explorer	Run per-platform diagnostics	Azure Portal
Service Bus Explorer tool	Limit test notifications to 10 clients	Microsoft Visual Studio Server Explorer
Azure SDK		

References: <https://msdn.microsoft.com/library/dn530751.aspx>

NO.9 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

NO.10 You need to analyze Lucerne's performance monitoring solution.

Which three applications should you monitor? Each correct answer presents a complete solution.

- A. The Lucerne Media-D application
- B. The data mining application
- C. The Lucerne Media-W application
- D. The Lucerne Media-M app
- E. The Lucerne Media-N app

Answer: C,D,E

Explanation:

Monitor the web application and the mobile apps.

C: Lucerne Media W - a web application that delivers media by using any browser

D: Lucerne Media M - a mobile app that delivers media by using Windows Phone 8.1

E: Lucerne Media N - a mobile app that delivers media by using an Android device

* Scenario:

/ Lucerne Publishing must be able to monitor the performance and usage of its customer- facing app.

/ Customers must be able to access all data by using a web application. They must also be able to access data by using a mobile app that is provided by Lucerne Publishing.

NO.11 You are designing a distributed application for Azure.

The application must securely integrate with on-premises servers.

You need to recommend a method of enabling Internet Protocol security (IPsec)-protected connections between on-premises servers and the distributed application.

What should you recommend?

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

Answer: D

Explanation:

IPsec can be used on Azure Site-to-Site VPN connections. Distributed applications can use the IPsec VPN connections to communicate.

References: <https://msdn.microsoft.com/en-us/library/azure/dn133798.aspx>

NO.12 You have an Azure subscription named Subscription1. You create several Azure VMs in Subscription1. All of the VMs belong to the same virtual network.

You have an on-premises Hyper-V server named Server1. Server1 hosts a virtual machine named VM1. You plan to replicate VM1 to Azure.

You need to create additional objects in Subscription1 to support the planned deployment.

Which three objects should you create? Each correct answer presents part of the solution.

- A. An Azure Site Recovery vault
- B. An endpoint
- C. A protection group
- D. A Hyper-V site
- E. A storage account
- F. A Traffic Manager

Answer: A,D,E

Explanation:

You need to set up a Recovery Services vault to orchestrate and manage replication.

Make sure Hyper-V hosts are prepared for Site Recovery deployment.

You need a Microsoft Azure account, Azure networks, and storage accounts.

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

NO.13 Your company network includes two branch offices. Users at the company access internal virtual machines (VMs). You want to ensure secure communications between the branch offices and the internal VMs and network.

You need to create a site-to-site VPN connection. What are two possible ways to achieve this goal?

Each correct answer presents a complete solution

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

Answer: C,D

Explanation:

You must have an externally facing IPv4 IP address and a VPN device or RRAS to configure a site-to-site VPN connection.

References: <https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-vpn-faq>

NO.14 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>

NO.15 You are designing a web app deployment in Azure.

You need to ensure that inbound requests to the web app are routed based on the endpoint that has the lowest latency.

What should you use?

- A. Azure health probes
- B. Azure Fabric Controller
- C. Azure Load Balancer
- D. Azure Traffic Manager

Answer: D

NO.16 DRAG DROP

You publish a multi-tenant application named MyApp to Azure Active Directory (Azure AD).

You need to ensure that only directory administrators from the other organizations can access MyApp's web API. How should you configure MyApp's manifest JSON file? To answer, drag the appropriate PowerShell command to the correct location in the application's manifest JSON file. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

PowerShell command

user_impersonation

application_impersonation

False

True

Personal

Global

Manifest JSON file

```

service on behalf of the signed-in user",
  "directAccessGrantTypes": [],
  "displayName": "Have full access to the Todo List service",
  "impersonationAccessGrantTypes": [
    {
      "impersonated": "User",
      "impersonator": "Application"
    }
  ],
  "isDisabled": PowerShell command ,
  "origin": "Application",
  "permissionId": "b69ee3c9-c40d-4f2a-ac80-961cd1534e40",
  "resourceScopeType": " PowerShell command ",
  "userConsentDescription": "Allow the application full access to the
todo service on your behalf",
  "userConsentDisplayName": "Have full access to the todo service"
}
],

```

Answer:

PowerShell command

user_impersonation

application_impersonation

False

True

Personal

Global

Manifest JSON file

```

service on behalf of the signed-in user",
  "directAccessGrantTypes": [],
  "displayName": "Have full access to the Todo List service",
  "impersonationAccessGrantTypes": [
    {
      "impersonated": "User",
      "impersonator": "Application"
    }
  ],
  "isDisabled": False ,
  "origin": "Application",
  "permissionId": "b69ee3c9-c40d-4f2a-ac80-961cd1534e40",
  "resourceScopeType": " Global ",
  "userConsentDescription": "Allow the application full access to the
todo service on your behalf",
  "userConsentDisplayName": "Have full access to the todo service"
}
],

```

Explanation:

PowerShell command	Manifest JSON file
<input type="text" value="user_impersonation"/>	<pre> service on behalf of the signed-in user", "directAccessGrantTypes": [], "displayName": "Have full access to the Todo List service", "impersonationAccessGrantTypes": [{ "impersonated": "User", "impersonator": "Application" }], "isDisabled": <input type="text" value="False"/>, "origin": "Application", "permissionId": "b69ee3c9-c40d-4f2a-ac80-961cd1534e40", "resourceScopeType": "<input type="text" value="Global"/>", "userConsentDescription": "Allow the application full access to the todo service on your behalf", "userConsentDisplayName": "Have full access to the todo service" }], </pre>
<input type="text" value="application_impersonation"/>	
<input type="text"/>	
<input type="text" value="True"/>	
<input type="text" value="Personal"/>	

Box 1: False

Box 2: Global

'resourceScopeType' should be "Personal" if it's something that each user should consent to, or "Global" if it's something that applies to the entire tenant, (and thus, an administrator would have to consent to).

References: <https://social.msdn.microsoft.com/Forums/vstudio/en-US/f344e748-2c92-4c57-aeff-a6227a8d6535/multiple-client-applications-authorisation-to-webapi?forum=WindowsAzureAD>