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Exam : AZ-204

**Title : Developing Solutions for
Microsoft Azure**

Version : DEMO

1. Topic 1, Windows Server 2016 virtual machine

Case study

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

Current environment

Windows Server 2016 virtual machine

This virtual machine (VM) runs BizTalk Server 2016. The VM runs the following workflows:

- Ocean Transport – This workflow gathers and validates container information including container contents and arrival notices at various shipping ports.
- Inland Transport – This workflow gathers and validates trucking information including fuel usage, number of stops, and routes.

The VM supports the following REST API calls:

- Container API – This API provides container information including weight, contents, and other attributes.
- Location API – This API provides location information regarding shipping ports of call and trucking stops.
- Shipping REST API – This API provides shipping information for use and display on the shipping website.

Shipping Data

The application uses MongoDB JSON document storage database for all container and transport information.

Shipping Web Site

The site displays shipping container tracking information and container contents. The site is located at <http://shipping.wideworldimporters.com/>

Proposed solution

The on-premises shipping application must be moved to Azure. The VM has been migrated to a new Standard_D16s_v3 Azure VM by using Azure Site Recovery and must remain running in Azure to complete the BizTalk component migrations. You create a Standard_D16s_v3 Azure VM to host BizTalk Server.

The Azure architecture diagram for the proposed solution is shown below:



Requirements

Shipping Logic app

The Shipping Logic app must meet the following requirements:

- Support the ocean transport and inland transport workflows by using a Logic App.
- Support industry-standard protocol X12 message format for various messages including vessel content details and arrival notices.
- Secure resources to the corporate VNet and use dedicated storage resources with a fixed costing model.
- Maintain on-premises connectivity to support legacy applications and final BizTalk migrations.

Shipping Function app

Implement secure function endpoints by using app-level security and include Azure Active Directory (Azure AD).

REST APIs

The REST API's that support the solution must meet the following requirements:

- Secure resources to the corporate VNet.
- Allow deployment to a testing location within Azure while not incurring additional costs.
- Automatically scale to double capacity during peak shipping times while not causing application downtime.
- Minimize costs when selecting an Azure payment model.

Shipping data

Data migration from on-premises to Azure must minimize costs and downtime.

Shipping website

Use Azure Content Delivery Network (CDN) and ensure maximum performance for dynamic content while minimizing latency and costs.

Issues

Windows Server 2016 VM

The VM shows high network latency, jitter, and high CPU utilization. The VM is critical and has not been backed up in the past. The VM must enable a quick restore from a 7-day snapshot to include in-place restore of disks in case of failure.

Shipping website and REST APIs

The following error message displays while you are testing the website:

```
Failed to load http://test-shippingapi.wideworldimporters.com/: No 'Access-Control-Allow-Origin' header is present on the requested resource. Origin 'http://test.wideworldimporters.com/' is therefore not allowed access.
```

You need to support the requirements for the Shipping Logic App.

What should you use?

- A. Azure Active Directory Application Proxy
- B. Point-to-Site (P2S) VPN connection
- C. Site-to-Site (S2S) VPN connection
- D. On-premises Data Gateway

Answer: D

Explanation:

Before you can connect to on-premises data sources from Azure Logic Apps, download and install the on-premises data gateway on a local computer. The gateway works as a bridge that provides quick data transfer and encryption between data sources on premises (not in the cloud) and your logic apps.

The gateway supports BizTalk Server 2016.

Note: Microsoft have now fully incorporated the Azure BizTalk Services capabilities into Logic Apps and Azure App Service Hybrid Connections.

Logic Apps Enterprise Integration pack bring some of the enterprise B2B capabilities like AS2 and X12, EDI standards support

Scenario: The Shipping Logic app must meet the following requirements:

- ☞ Support the ocean transport and inland transport workflows by using a Logic App.
- ☞ Support industry-standard protocol X12 message format for various messages including vessel content details and arrival notices.
- ☞ Secure resources to the corporate VNet and use dedicated storage resources with a fixed costing model.
- ☞ Maintain on-premises connectivity to support legacy applications and final BizTalk migrations.

Explanation:

Reference: <https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-gateway-install>

2.HOTSPOT

You need to secure the Shipping Function app.

How should you configure the app? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area

Setting	Value
Authorization level	<div><div></div><div>▼</div><div>Function</div><div>Anonymous</div><div>Admin</div></div>
User claims	<div><div></div><div>▼</div><div>JSON Web Token (JWT)</div><div>Shared Access Signature (SAS) token</div><div>API Key</div></div>
Trigger type	<div><div></div><div>▼</div><div>blob</div><div>HTTP</div><div>queue</div><div>timer</div></div>

Answer:

Answer Area

Setting	Value
Authorization level	<div><div>▼</div><div>Function</div><div>Anonymous</div><div>Admin</div></div>
User claims	<div><div>▼</div><div>JSON Web Token (JWT)</div><div>Shared Access Signature (SAS) token</div><div>API Key</div></div>
Trigger type	<div><div>▼</div><div>blob</div><div>HTTP</div><div>queue</div><div>timer</div></div>

Explanation:

Scenario: Shipping Function app: Implement secure function endpoints by using app-level security and include Azure Active Directory (Azure AD).

Box 1: Function

Box 2: JSON based Token (JWT)

Azure AD uses JSON based tokens (JWTs) that contain claims

Box 3: HTTP

How a web app delegates sign-in to Azure AD and obtains a token

User authentication happens via the browser. The OpenID protocol uses standard HTTP protocol messages.

References: <https://docs.microsoft.com/en-us/azure/active-directory/develop/authentication-scenarios>

3.HOTSPOT

You need to update the APIs to resolve the testing error.

How should you complete the Azure CLI command? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

az webapp -g shipping-apis-test-rg -n web

cors	add
config	up
deployment	remove

--

slot	http://*.wideworldimporters.com
allowed-origins	http://test-shippingapi.wideworldimporters.com
name	http://test.wideworldimporters.com
	http://www.wideworldimporters.com

Answer:

az webapp -g shipping-apis-test-rg -n web

cors	add
config	up
deployment	remove

--

slot	http://*.wideworldimporters.com
allowed-origins	http://test-shippingapi.wideworldimporters.com
name	http://test.wideworldimporters.com
	http://www.wideworldimporters.com

Explanation:

Enable Cross-Origin Resource Sharing (CORS) on your Azure App Service Web App. Enter the full URL of the site you want to allow to access your WEB API or * to allow all domains.

Box 1: cors

Box 2: add

Box 3: allowed-origins

Box 4: http://testwideworldimporters.com/

References: <http://donovanbrown.com/post/How-to-clear-No-Access-Control-Allow-Origin-header-error-with-Azure-App-Service>

4. You need to secure the Shipping Logic App.

What should you use?

- A. Azure App Service Environment (ASE)
- B. Azure AD B2B integration
- C. Integration Service Environment (ISE)
- D. VNet service endpoint

Answer: C

Explanation:

Scenario: The Shipping Logic App requires secure resources to the corporate VNet and use dedicated

storage resources with a fixed costing model.

You can access to Azure Virtual Network resources from Azure Logic Apps by using integration service environments (ISEs).

Sometimes, your logic apps and integration accounts need access to secured resources, such as virtual machines (VMs) and other systems or services, that are inside an Azure virtual network. To set up this access, you can create an integration service environment (ISE) where you can run your logic apps and create your integration accounts.

References: <https://docs.microsoft.com/en-us/azure/logic-apps/connect-virtual-network-vnet-isolated-environment-overview>

5.HOTSPOT

You need to resolve the Shipping web site error.

How should you configure the Azure Table Storage service? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

```
<?xml version="1.0" encoding="utf-8"?>
<StorageServiceProperties>
```

...

<Cors>

<CorsRule>

<	▼	>	▼	</	▼	>
AllowedHeaders		http://*.wideworldimporters.com		AllowedHeaders		
ExposedHeaders		http://test.wideworldimporters.com		ExposedHeaders		
AllowedMethods		http://test-shippingapi.wideworldimporters.com		AllowedMethods		
AllowedOrigins		http://www.wideworldimporters.com		AllowedOrigins		

<AllowedMethods>

▼
GET,PUT
GET
POST
GET,HEAD

</AllowedMethods>

...

</CorsRule>

</Cors>

</StorageServiceProperties>

Answer:

```
<?xml version="1.0" encoding="utf-8"?>
<StorageServiceProperties>
```

...

<Cors>

<CorsRule>

<	▼	>	▼	</	▼	>
AllowedHeaders		http://*.wideworldimporters.com		AllowedHeaders		
ExposedHeaders		http://test.wideworldimporters.com		ExposedHeaders		
AllowedMethods		http://test-shippingapi.wideworldimporters.com		AllowedMethods		
AllowedOrigins		http://www.wideworldimporters.com		AllowedOrigins		

<AllowedMethods>

▼
GET,PUT
GET
POST
GET,HEAD

</AllowedMethods>

...

</CorsRule>

</Cors>

</StorageServiceProperties>

Explanation:

Box 1: AllowedOrigins

A CORS request will fail if Access-Control-Allow-Origin is missing.

Scenario:

The following error message displays while you are testing the website:

```
Failed to load http://test-shippingapi.wideworldimporters.com/: No 'Access-Control-Allow-Origin' header is present on the requested resource. Origin 'http://testwideworldimporters.com/' is therefore not allowed access.
```

Box 2: `http://test-shippingapi.wideworldimporters.com`

Syntax: `Access-Control-Allow-Origin: *`

`Access-Control-Allow-Origin: <origin>`

`Access-Control-Allow-Origin: null`

`<origin>` Specifies an origin. Only a single origin can be specified.

Box 3: AllowedOrigins

Box 4: POST

The only allowed methods are GET, HEAD, and POST. In this case POST is used.

"<Corsrule>" "allowedmethods" Failed to load no "Access-control-Origin" header is present

References: <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Access-Control-Allow-Origin>