

- **Vendor: Microsoft**
- **Exam Code: AZ-300**
- **Exam Name: Microsoft Azure Architect Technologies**
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### **QUESTION 237**

#### **Case Study 8 - ADatum**

##### **Overview**

ADatum Corporation is a financial company that has two main offices in New York and Los Angeles. ADatum has a subsidiary named Fabrikam, Inc. that shares the Los Angeles office.

ADatum is conducting an initial deployment of Azure services to host new line-of-business applications and is preparing to migrate its existing on-premises workloads to Azure.

ADatum uses Microsoft Exchange Online for email.

##### **Existing Environment**

###### **On-Premises Environment**

The on-premises workloads run on virtual machines hosted in a VMware vSphere 6 infrastructure. All the virtual machines are members of an Active Directory forest named adatum.com and run Windows Server 2016.

The New York office uses an IP address space of 10.0.0.0/16. The Los Angeles office uses an IP address space of 10.10.0.0/16.

The offices connect by using a VPN provided by an ISP. Each office has one Azure ExpressRoute circuit that provides access to Azure services and Microsoft Online Services. Routing is implemented by using Microsoft peering.

The New York office has a virtual machine named VM1 that has the vSphere console installed.

###### **Azure Environment**

You provision the Azure infrastructure by using the Azure portal. The infrastructure contains the resources shown in the following table.

<b>Name</b>	<b>Type</b>	<b>Azure Region</b>
ASRV1	Azure Site Recovery vault	East US
ASRV2	Azure Site Recovery vault	West US
ASE1	Azure App Service Environment	East US
AG1	Azure Application Gateway (internal)	East US
AG2	Azure Application Gateway (Internet-facing)	West US
ER1	ExpressRoute circuit	East US
ER2	ExpressRoute circuit	West US

AG1 has two backend pools named Pool11 and Pool12. AG2 has two backend pools named Pool21 and Pool22.

##### **Requirements**

###### **Planned Changes**

ADatum plans to migrate the virtual machines from the New York office to the East US Azure region by using Azure Site Recovery.

###### **Infrastructure Requirements**

ADatum identifies the following infrastructure requirements:

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A new web app named App1 that will access third-parties for credit card processing must be deployed  
A newly developed API must be implemented as an Azure function named App2. App2 will use a blob storage trigger.  
App2 must process new blobs immediately.

The Azure infrastructure and the on-premises infrastructure must be prepared for the migration of the VMware virtual machines to Azure.

The sizes of the Azure virtual machines that will be used to migrate the on-premises workloads must be identified.  
All migrated and newly deployed Azure virtual machines must be joined to the adatum.com domain.

AG1 must load balance incoming traffic in the following manner:

1. [http://corporate.adatum.com/video/\\*](http://corporate.adatum.com/video/*) will be load balanced across Pool11
2. [http://corporate.adatum.com/images/\\*](http://corporate.adatum.com/images/*) will be load balanced across Pool12

AG2 must load balance incoming traffic in the following manner:

1. <http://www.adatum.com> will be load balanced across Pool21
2. <http://www.fabrikam.com> will be load balanced across Pool22

ER1 must route traffic between the New York office and the platform as a service (PaaS) services in the East US Azure region, as long as ER1 is available.

ER2 must route traffic between the Los Angeles office and the PaaS services in the West US region, as long as ER2 is available.

ER1 and ER2 must be configured to fail over automatically.

#### **Application Requirements**

App2 must be able to connect directly to the private IP addresses of the Azure virtual machines. App2 will be deployed directly to an Azure virtual network.

Inbound and outbound communications to App1 must be controlled by using NSGs.

#### **Pricing Requirements**

ADatum identifies the following pricing requirements:

- The cost of App1 and App2 must be minimized.
- The transactional charges of Azure Storage accounts must be minimized.

You need to configure AG1.

What should you create?

- A. a multi-site listener
- B. a basic routing rule
- C. a URL path-based routing rule
- D. a basic listener

**Answer: C**

**Explanation:**

<https://docs.microsoft.com/en-us/azure/application-gateway/application-gateway-create-url-route-portal>

#### **QUESTION 238**

##### **Case Study 8 - ADatum**

##### **Overview**

ADatum Corporation is a financial company that has two main offices in New York and Los Angeles. ADatum has a subsidiary named Fabrikam, Inc. that shares the Los Angeles office.

ADatum is conducting an initial deployment of Azure services to host new line-of-business applications and is preparing to migrate its existing on-premises workloads to Azure.

ADatum uses Microsoft Exchange Online for email.

##### **Existing Environment**

##### **On-Premises Environment**

The on-premises workloads run on virtual machines hosted in a VMware vSphere 6 infrastructure. All the virtual machines are members of an Active Directory forest named adatum.com and run Windows Server 2016.

The New York office uses an IP address space of 10.0.0.0/16. The Los Angeles office uses an IP address space of 10.10.0.0/16.

The offices connect by using a VPN provided by an ISP. Each office has one Azure ExpressRoute circuit that provides access to Azure services and Microsoft Online Services. Routing is implemented by using Microsoft peering.

The New York office has a virtual machine named VM1 that has the vSphere console installed.

##### **Azure Environment**

You provision the Azure infrastructure by using the Azure portal. The infrastructure contains the resources shown in the following table.

Name	Type	Azure Region
ASRV1	Azure Site Recovery vault	East US
ASRV2	Azure Site Recovery vault	West US
ASE1	Azure App Service Environment	East US
AG1	Azure Application Gateway (internal)	East US
AG2	Azure Application Gateway (Internet-facing)	West US
ER1	ExpressRoute circuit	East US
ER2	ExpressRoute circuit	West US

AG1 has two backend pools named Pool11 and Pool12. AG2 has two backend pools named Pool21 and Pool22.

### Requirements

#### Planned Changes

ADatum plans to migrate the virtual machines from the New York office to the East US Azure region by using Azure Site Recovery.

#### Infrastructure Requirements

ADatum identifies the following infrastructure requirements:

A new web app named App1 that will access third-parties for credit card processing must be deployed

A newly developed API must be implemented as an Azure function named App2. App2 will use a blob storage trigger.

App2 must process new blobs immediately.

The Azure infrastructure and the on-premises infrastructure must be prepared for the migration of the VMware virtual machines to Azure.

The sizes of the Azure virtual machines that will be used to migrate the on-premises workloads must be identified.

All migrated and newly deployed Azure virtual machines must be joined to the adatum.com domain.

AG1 must load balance incoming traffic in the following manner:

1. [http://corporate.adatum.com/video/\\*](http://corporate.adatum.com/video/*) will be load balanced across Pool11
2. [http://corporate.adatum.com/images/\\*](http://corporate.adatum.com/images/*) will be load balanced across Pool12

AG2 must load balance incoming traffic in the following manner:

1. <http://www.adatum.com> will be load balanced across Pool21
2. <http://www.fabrikam.com> will be load balanced across Pool22

ER1 must route traffic between the New York office and the platform as a service (PaaS) services in the East US Azure region, as long as ER1 is available.

ER2 must route traffic between the Los Angeles office and the PaaS services in the West US region, as long as ER2 is available.

ER1 and ER2 must be configured to fail over automatically.

#### Application Requirements

App2 must be able to connect directly to the private IP addresses of the Azure virtual machines. App2 will be deployed directly to an Azure virtual network.

Inbound and outbound communications to App1 must be controlled by using NSGs.

#### Pricing Requirements

ADatum identifies the following pricing requirements:

- The cost of App1 and App2 must be minimized.
- The transactional charges of Azure Storage accounts must be minimized.

Drag and Drop Question

You need to configure the Azure ExpressRoute circuits.

How should you configure Azure ExpressRoute routing? To answer, drag the appropriate configurations to the correct locations. Each configuration 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.

Configurations	Answer Area
Use BGP communities to configure BGP's Local Preference.	Routing from A.Datum to Azure: <input type="text"/>
Use BGP to append the private AS numbers to the advertised prefixes.	Routing from Microsoft Online Services to A.Datum: <input type="text"/>
Use BGP to append the public AS numbers to the advertised prefixes.	

**Answer:**

Configurations	Answer Area
Use BGP communities to configure BGP's Local Preference.	Routing from A.Datum to Azure: <input type="text"/>
	Routing from Microsoft Online Services to A.Datum: <input type="text"/>

**Explanation:**

Azure compute services, namely virtual machines (IaaS) and cloud services (PaaS), that are deployed within a virtual network can be connected through the private peering domain. The private peering domain is considered to be a trusted extension of your core network into Microsoft Azure.

Services such as Azure Storage, SQL databases, and Websites are offered on public IP addresses. You can privately connect to services hosted on public IP addresses, including VIPs of your cloud services, through the public peering routing domain. You can connect the public peering domain to your DMZ and connect to all Azure services on their public IP addresses from your WAN without having to connect through the internet.

References:

<https://docs.microsoft.com/en-us/azure/expressroute/expressroute-circuit-peering>

**QUESTION 239**

**Case Study 8 - ADatum**

**Overview**

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ADatum uses Microsoft Exchange Online for email.

**Existing Environment**

**On-Premises Environment**

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The New York office uses an IP address space of 10.0.0.0/16. The Los Angeles office uses an IP address space of 10.10.0.0/16.

The offices connect by using a VPN provided by an ISP. Each office has one Azure ExpressRoute circuit that provides access to Azure services and Microsoft Online Services. Routing is implemented by using Microsoft peering.

The New York office has a virtual machine named VM1 that has the vSphere console installed.

**Azure Environment**

You provision the Azure infrastructure by using the Azure portal. The infrastructure contains the resources shown in the following table.

Name	Type	Azure Region
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AG2	Azure Application Gateway (Internet-facing)	West US
ER1	ExpressRoute circuit	East US
ER2	ExpressRoute circuit	West US

AG1 has two backend pools named Pool11 and Pool12. AG2 has two backend pools named Pool21 and Pool22.

### Requirements

#### Planned Changes

ADatum plans to migrate the virtual machines from the New York office to the East US Azure region by using Azure Site Recovery.

#### Infrastructure Requirements

ADatum identifies the following infrastructure requirements:

A new web app named App1 that will access third-parties for credit card processing must be deployed

A newly developed API must be implemented as an Azure function named App2. App2 will use a blob storage trigger.

App2 must process new blobs immediately.

The Azure infrastructure and the on-premises infrastructure must be prepared for the migration of the VMware virtual machines to Azure.

The sizes of the Azure virtual machines that will be used to migrate the on-premises workloads must be identified.

All migrated and newly deployed Azure virtual machines must be joined to the adatum.com domain.

AG1 must load balance incoming traffic in the following manner:

1. [http://corporate.adatum.com/video/\\*](http://corporate.adatum.com/video/*) will be load balanced across Pool11
2. [http://corporate.adatum.com/images/\\*](http://corporate.adatum.com/images/*) will be load balanced across Pool12

AG2 must load balance incoming traffic in the following manner:

1. <http://www.adatum.com> will be load balanced across Pool21
2. <http://www.fabrikam.com> will be load balanced across Pool22

ER1 must route traffic between the New York office and the platform as a service (PaaS) services in the East US Azure region, as long as ER1 is available.

ER2 must route traffic between the Los Angeles office and the PaaS services in the West US region, as long as ER2 is available.

ER1 and ER2 must be configured to fail over automatically.

#### Application Requirements

App2 must be able to connect directly to the private IP addresses of the Azure virtual machines. App2 will be deployed directly to an Azure virtual network.

Inbound and outbound communications to App1 must be controlled by using NSGs.

#### Pricing Requirements

ADatum identifies the following pricing requirements:

- The cost of App1 and App2 must be minimized.
- The transactional charges of Azure Storage accounts must be minimized.

#### Drag and Drop Question

You need to prepare the New York office infrastructure for the migration of the on-premises virtual machines to 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**

From VM1, deploy a virtual machine.

From the ASRV1 blade in the Azure portal, select a protection goal.

From an Azure portal, download the OVF file.

From VM1, register the configuration server.

From VM1, connect to the collector virtual machine.

**Answer Area**

**Answer:**

**Actions**

From VM1, deploy a virtual machine.

From the ASRV1 blade in the Azure portal, select a protection goal.

From an Azure portal, download the OVF file.

From VM1, register the configuration server.

From VM1, connect to the collector virtual machine.

**Answer Area**

From the ASRV1 blade in the Azure portal, select a protection goal.

From an Azure portal, download the OVF file.

From VM1, deploy a virtual machine.

From VM1, register the configuration server.

**Explanation:**

References:

<https://docs.microsoft.com/en-us/azure/site-recovery/vmware-azure-tutorial>

**QUESTION 240**

**Case Study 8 - ADatum**

**Overview**

ADatum Corporation is a financial company that has two main offices in New York and Los Angeles. ADatum has a subsidiary named Fabrikam, Inc. that shares the Los Angeles office.

ADatum is conducting an initial deployment of Azure services to host new line-of-business applications and is preparing to migrate its existing on-premises workloads to Azure.

ADatum uses Microsoft Exchange Online for email.

**Existing Environment**

**On-Premises Environment**

The on-premises workloads run on virtual machines hosted in a VMware vSphere 6 infrastructure. All the virtual machines are members of an Active Directory forest named adatum.com and run Windows Server 2016.

The New York office uses an IP address space of 10.0.0.0/16. The Los Angeles office uses an IP address space of 10.10.0.0/16.

The offices connect by using a VPN provided by an ISP. Each office has one Azure ExpressRoute circuit that provides access to Azure services and Microsoft Online Services. Routing is implemented by using Microsoft peering.

The New York office has a virtual machine named VM1 that has the vSphere console installed.

### **Azure Environment**

You provision the Azure infrastructure by using the Azure portal. The infrastructure contains the resources shown in the following table.

<b>Name</b>	<b>Type</b>	<b>Azure Region</b>
ASRV1	Azure Site Recovery vault	East US
ASRV2	Azure Site Recovery vault	West US
ASE1	Azure App Service Environment	East US
AG1	Azure Application Gateway (internal)	East US
AG2	Azure Application Gateway (Internet-facing)	West US
ER1	ExpressRoute circuit	East US
ER2	ExpressRoute circuit	West US

AG1 has two backend pools named Pool11 and Pool12. AG2 has two backend pools named Pool21 and Pool22.

### **Requirements**

#### **Planned Changes**

ADatum plans to migrate the virtual machines from the New York office to the East US Azure region by using Azure Site Recovery.

#### **Infrastructure Requirements**

ADatum identifies the following infrastructure requirements:

A new web app named App1 that will access third-parties for credit card processing must be deployed

A newly developed API must be implemented as an Azure function named App2. App2 will use a blob storage trigger. App2 must process new blobs immediately.

The Azure infrastructure and the on-premises infrastructure must be prepared for the migration of the VMware virtual machines to Azure.

The sizes of the Azure virtual machines that will be used to migrate the on-premises workloads must be identified.

All migrated and newly deployed Azure virtual machines must be joined to the adatum.com domain.

AG1 must load balance incoming traffic in the following manner:

1. [http://corporate.adatum.com/video/\\*](http://corporate.adatum.com/video/*) will be load balanced across Pool11
2. [http://corporate.adatum.com/images/\\*](http://corporate.adatum.com/images/*) will be load balanced across Pool12

AG2 must load balance incoming traffic in the following manner:

1. <http://www.adatum.com> will be load balanced across Pool21
2. <http://www.fabrikam.com> will be load balanced across Pool22

ER1 must route traffic between the New York office and the platform as a service (PaaS) services in the East US Azure region, as long as ER1 is available.

ER2 must route traffic between the Los Angeles office and the PaaS services in the West US region, as long as ER2 is available.

ER1 and ER2 must be configured to fail over automatically.

#### **Application Requirements**

App2 must be able to connect directly to the private IP addresses of the Azure virtual machines. App2 will be deployed directly to an Azure virtual network.

Inbound and outbound communications to App1 must be controlled by using NSGs.

#### **Pricing Requirements**

ADatum identifies the following pricing requirements:

- The cost of App1 and App2 must be minimized.
- The transactional charges of Azure Storage accounts must be minimized.

Hotspot Question

You need to provision the resources in Azure to support the virtual machine that will be migrated from the New York

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office.

What should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

### Answer Area

IP address space of the virtual network:   
10.0.0.0/16  
10.10.0.0/16  
10.20.0.0/16

Storage account kind:   
Blob storage  
Storage (general purpose v1)  
StorageV2 (general purpose v2)

Answer:

### Answer Area

IP address space of the virtual network:   
10.0.0.0/16  
10.10.0.0/16  
10.20.0.0/16

Storage account kind:   
Blob storage  
Storage (general purpose v1)  
StorageV2 (general purpose v2)

#### QUESTION 241

##### Case Study 8 - ADatum

##### Overview

ADatum Corporation is a financial company that has two main offices in New York and Los Angeles. ADatum has a subsidiary named Fabrikam, Inc. that shares the Los Angeles office.

ADatum is conducting an initial deployment of Azure services to host new line-of-business applications and is preparing to migrate its existing on-premises workloads to Azure.

ADatum uses Microsoft Exchange Online for email.

##### Existing Environment

##### On-Premises Environment

The on-premises workloads run on virtual machines hosted in a VMware vSphere 6 infrastructure. All the virtual machines are members of an Active Directory forest named adatum.com and run Windows Server 2016.

The New York office uses an IP address space of 10.0.0.0/16. The Los Angeles office uses an IP address space of 10.10.0.0/16.

The offices connect by using a VPN provided by an ISP. Each office has one Azure ExpressRoute circuit that provides access to Azure services and Microsoft Online Services. Routing is implemented by using Microsoft peering.

The New York office has a virtual machine named VM1 that has the vSphere console installed.

## Azure Environment

You provision the Azure infrastructure by using the Azure portal. The infrastructure contains the resources shown in the following table.

Name	Type	Azure Region
ASRV1	Azure Site Recovery vault	East US
ASRV2	Azure Site Recovery vault	West US
ASE1	Azure App Service Environment	East US
AG1	Azure Application Gateway (internal)	East US
AG2	Azure Application Gateway (Internet-facing)	West US
ER1	ExpressRoute circuit	East US
ER2	ExpressRoute circuit	West US

AG1 has two backend pools named Pool11 and Pool12. AG2 has two backend pools named Pool21 and Pool22.

### Requirements

#### Planned Changes

ADatum plans to migrate the virtual machines from the New York office to the East US Azure region by using Azure Site Recovery.

#### Infrastructure Requirements

ADatum identifies the following infrastructure requirements:

A new web app named App1 that will access third-parties for credit card processing must be deployed

A newly developed API must be implemented as an Azure function named App2. App2 will use a blob storage trigger.

App2 must process new blobs immediately.

The Azure infrastructure and the on-premises infrastructure must be prepared for the migration of the VMware virtual machines to Azure.

The sizes of the Azure virtual machines that will be used to migrate the on-premises workloads must be identified.

All migrated and newly deployed Azure virtual machines must be joined to the adatum.com domain.

AG1 must load balance incoming traffic in the following manner:

1. [http://corporate.adatum.com/video/\\*](http://corporate.adatum.com/video/*) will be load balanced across Pool11
2. [http://corporate.adatum.com/images/\\*](http://corporate.adatum.com/images/*) will be load balanced across Pool12

AG2 must load balance incoming traffic in the following manner:

1. <http://www.adatum.com> will be load balanced across Pool21
2. <http://www.fabrikam.com> will be load balanced across Pool22

ER1 must route traffic between the New York office and the platform as a service (PaaS) services in the East US Azure region, as long as ER1 is available.

ER2 must route traffic between the Los Angeles office and the PaaS services in the West US region, as long as ER2 is available.

ER1 and ER2 must be configured to fail over automatically.

#### Application Requirements

App2 must be able to connect directly to the private IP addresses of the Azure virtual machines. App2 will be deployed directly to an Azure virtual network.

Inbound and outbound communications to App1 must be controlled by using NSGs.

#### Pricing Requirements

ADatum identifies the following pricing requirements:

- The cost of App1 and App2 must be minimized.
- The transactional charges of Azure Storage accounts must be minimized.

#### Drag and Drop Question

You need to identify the appropriate sizes for the Azure virtual machines.

Which five 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**

From the Azure portal, create an Azure Migrate assessment.

From the Azure portal, create an Azure Migrate project.

From VM1, connect to the collector virtual machine and run the Azure Site Recovery deployment planner.

From the Azure portal, download an OVA file.



From VM1, connect to the collector virtual machine and run the Azure Migrate Collector.

From Microsoft Download Center, download the Azure Site Recovery deployment planner

From VM1, run the Deploy OVF Template wizard.



**Answer:**

## Actions

## Answer Area

From VM1, connect to the collector virtual machine and run the Azure Site Recovery deployment planner.

From the Azure portal, create an Azure Migrate project.

From the Azure portal, download an OVA file.

From VM1, run the Deploy OVF Template wizard.

From VM1, connect to the collector virtual machine and run the Azure Migrate Collector.

From the Azure portal, create an Azure Migrate assessment.

From Microsoft Download Center, download the Azure Site Recovery deployment planner

### Explanation:

<https://docs.microsoft.com/en-us/azure/migrate/tutorial-assessment-vmware>

### QUESTION 241

#### Case Study 8 - ADatum

##### Overview

ADatum Corporation is a financial company that has two main offices in New York and Los Angeles. ADatum has a subsidiary named Fabrikam, Inc. that shares the Los Angeles office.

ADatum is conducting an initial deployment of Azure services to host new line-of-business applications and is preparing to migrate its existing on-premises workloads to Azure.

ADatum uses Microsoft Exchange Online for email.

##### Existing Environment

##### On-Premises Environment

The on-premises workloads run on virtual machines hosted in a VMware vSphere 6 infrastructure. All the virtual machines are members of an Active Directory forest named adatum.com and run Windows Server 2016.

The New York office uses an IP address space of 10.0.0.0/16. The Los Angeles office uses an IP address space of 10.10.0.0/16.

The offices connect by using a VPN provided by an ISP. Each office has one Azure ExpressRoute circuit that provides access to Azure services and Microsoft Online Services. Routing is implemented by using Microsoft peering. The New York office has a virtual machine named VM1 that has the vSphere console installed.

### Azure Environment

You provision the Azure infrastructure by using the Azure portal. The infrastructure contains the resources shown in the following table.

Name	Type	Azure Region
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ASE1	Azure App Service Environment	East US
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ER1	ExpressRoute circuit	East US
ER2	ExpressRoute circuit	West US

AG1 has two backend pools named Pool11 and Pool12. AG2 has two backend pools named Pool21 and Pool22.

### Requirements

#### Planned Changes

ADatum plans to migrate the virtual machines from the New York office to the East US Azure region by using Azure Site Recovery.

#### Infrastructure Requirements

ADatum identifies the following infrastructure requirements:

A new web app named App1 that will access third-parties for credit card processing must be deployed

A newly developed API must be implemented as an Azure function named App2. App2 will use a blob storage trigger. App2 must process new blobs immediately.

The Azure infrastructure and the on-premises infrastructure must be prepared for the migration of the VMware virtual machines to Azure.

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AG2 must load balance incoming traffic in the following manner:

1. <http://www.adatum.com> will be load balanced across Pool21
2. <http://www.fabrikam.com> will be load balanced across Pool22

ER1 must route traffic between the New York office and the platform as a service (PaaS) services in the East US Azure region, as long as ER1 is available.

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ER1 and ER2 must be configured to fail over automatically.

#### Application Requirements

App2 must be able to connect directly to the private IP addresses of the Azure virtual machines. App2 will be deployed directly to an Azure virtual network.

Inbound and outbound communications to App1 must be controlled by using NSGs.

#### Pricing Requirements

ADatum identifies the following pricing requirements:

- The cost of App1 and App2 must be minimized.
- The transactional charges of Azure Storage accounts must be minimized.

What should you create to configure AG2?

- A. multi-site listeners

- B. URL path-based routing rules
- C. basic routing rules
- D. an additional public IP address
- E. basic listeners

**Answer:** A

**Explanation:**

- AG2 must load balance incoming traffic in the following manner:
- http://www.adatum.com will be load balanced across Pool21.
- http://fabrikam.com will be load balanced across Pool22.

You need to configure an Azure Application Gateway with multi-site listeners to direct different URLs to different pools.

References:

<https://docs.microsoft.com/en-us/azure/application-gateway/multiple-site-overview>

**QUESTION 243**

**Case Study 8 - ADatum**

**Overview**

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**Azure Environment**

You provision the Azure infrastructure by using the Azure portal. The infrastructure contains the resources shown in the following table.

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**Requirements**

**Planned Changes**

ADatum plans to migrate the virtual machines from the New York office to the East US Azure region by using Azure Site Recovery.

**Infrastructure Requirements**

ADatum identifies the following infrastructure requirements:

A new web app named App1 that will access third-parties for credit card processing must be deployed

A newly developed API must be implemented as an Azure function named App2. App2 will use a blob storage trigger. App2 must process new blobs immediately.

The Azure infrastructure and the on-premises infrastructure must be prepared for the migration of the VMware virtual machines to Azure.

The sizes of the Azure virtual machines that will be used to migrate the on-premises workloads must be identified.

All migrated and newly deployed Azure virtual machines must be joined to the adatum.com domain.

AG1 must load balance incoming traffic in the following manner:

1. [http://corporate.adatum.com/video/\\*](http://corporate.adatum.com/video/*) will be load balanced across Pool11
2. [http://corporate.adatum.com/images/\\*](http://corporate.adatum.com/images/*) will be load balanced across Pool12

AG2 must load balance incoming traffic in the following manner:

1. <http://www.adatum.com> will be load balanced across Pool21
2. <http://www.fabrikam.com> will be load balanced across Pool22

ER1 must route traffic between the New York office and the platform as a service (PaaS) services in the East US Azure region, as long as ER1 is available.

ER2 must route traffic between the Los Angeles office and the PaaS services in the West US region, as long as ER2 is available.

ER1 and ER2 must be configured to fail over automatically.

#### **Application Requirements**

App2 must be able to connect directly to the private IP addresses of the Azure virtual machines. App2 will be deployed directly to an Azure virtual network.

Inbound and outbound communications to App1 must be controlled by using NSGs.

#### **Pricing Requirements**

ADatum identifies the following pricing requirements:

- The cost of App1 and App2 must be minimized.
- The transactional charges of Azure Storage accounts must be minimized.

Hotspot Question

You need to implement App2 to meet the application requirements. What should you include in the implementation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

### **Answer Area**

App Service plan pricing tier:

	▼
Isolated Shared Standard	

Enabled feature:

	▼
Always On Auto Swap Web Sockets	

**Answer:**

## Answer Area

App Service plan pricing tier:

	▼
Isolated	
Shared	
Standard	

Enabled feature:

	▼
Always On	
Auto Swap	
Web Sockets	

**Explanation:**

References:

<https://azure.microsoft.com/en-us/pricing/details/app-service/plans/>

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale>

**QUESTION 244**

**Case Study 9 - Best For You Organics**

**Background**

Best For You Organics Company is a global restaurant franchise that has multiple locations. The company wants to enhance user experiences and vendor integrations. The company plans to implement automated mobile ordering and delivery services.

**Welcome to the Restaurant!**



**John Doe**  
Sun, Aug 26, 2018

Welcome to Best For You Organics Company!  
How can we help you today?

**Specials:** Chicken Marsala

**Order Pickup   Order Delivery**

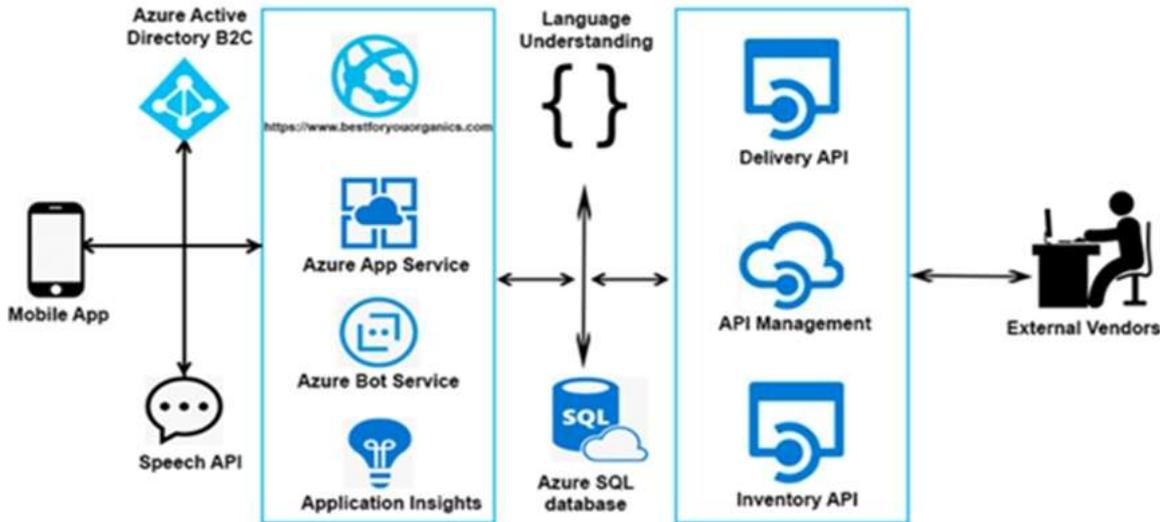
**Vendor API**

Vendors receive and provide updates for the restaurant inventory and delivery services by using Azure API Management hosted APIs. Each vendor uses their own subscription to access each of the APIs.

APIs must meet the following conditions:

- API usage must not exceed 5,000 calls and 50,000 kilobytes of bandwidth per hour per vendor.
- If a vendor is nearing the number of calls or bandwidth limit, the API must trigger email notifications to the vendor.
- API must prevent API usage spikes on a per-subscription basis by limiting the call rate to 100 calls per minute.
- The Inventory API must be written by using ASP.NET Core and Node.js.
- The API must be updated to provide an interface to Azure SQL Database objects must be managed by using code.
- The Delivery API must be protected by using the OAuth 2.0 protocol with Azure Active Directory (Azure AD) when called from the Azure web app. You register the Delivery API and web app in Azure AD. You enable OAuth 2.0 in the web app.
- The delivery API must update the Products table, the Vendor transactions table, and the Billing table in a single transaction.

The Best For You Organics Company architecture team has created the following diagram depicting the expected deployments into Azure:



## Architecture

### Issues

#### Delivery API

The Delivery API intermittently throws the following exception:

```
"System.Data.Entity.Core.EntityCommandExecutionException: An error occurred while
executing the command definition. See the inner exception for details. -
->System.Data.SqlClient.SqlException: A transport-level error has occurred when
receiving results from the server. (provider: Session Provider, error: 19 - Physical
connection is not usable)"
```

#### Chatbot greeting

The chatbot's greeting does not show the user's name. You need to debug the chatbot locally.

#### Language processing

Users report that the bot fails to understand when a customer attempts to order dishes that use Italian names.

#### App code

Relevant portions of the app files are shown below. Line numbers are included for reference only and include a two-character prefix that denotes the specific file to which they belong.

**Startup.cs**

```
SU01 namespace DeliveryApi
SU02 {
SU03     public class Startup
SU04     {
SU05         public Startup(IConfiguration configuration)
SU06         {
SU07             Configuration = configuration;
SU08         }
SU09         public IConfiguration Configuration { get; }
SU10         public void ConfigureServices(IServiceCollection services)
SU11         {
SU12             services.AddDbContext<RestaurantsContext>(opt =>
SU13                 opt.UseSqlServer(Configuration.GetSection("ConnectionStrings")
["RestaurantDatabase"],
SU14                 sqlServerOptionsAction: sqlOptions =>
SU15                 {
SU16                     . . .
SU17                 }));
SU18             services.AddMvc()
SU19                 .SetCompatibilityVersion(CompatibilityVersion.Version_2_1);
SU20         }
SU21         public void Configure(IApplicationBuilder app)
SU22         {
SU23             app.UseMvc();
SU24         }
SU25     }
SU26 }
```

**Note:** This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You need to meet the vendor notification requirement.

Solution: Update the Delivery API to send emails by using a Microsoft Office 365 SMTP server.

Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

<https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-configure-notifications>