C. IP flow verify in Azure Network Watcher
D. Diagnose and solve problems in Traffic Manager profiles
E. the security recommendations in Azure Advisor

Correct Answer: C
Explanation:
Scenario:
Contoso must meet technical requirements including:

Ensure that VM3 can establish outbound connections over TCP port 8080 to the applications servers in the Montreal office.

IP flow verify checks if a packet is allowed or denied to or from a virtual machine. The information consists of direction, protocol, local IP, remote IP, local port, and remote port. If the packet is denied by a security group, the name of the rule that denied the packet is returned. While any source or destination IP can be chosen, IP flow verify helps administrators quickly diagnose connectivity issues from or to the internet and from or to the on-premises environment.

References:
https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-ip-flow-verify-overview

QUESTION 6
Which pricing tier should you recommend for WebApp?

A. D1
B. P1v2
C. S1
D. B1

Correct Answer: C
Explanation:
Standard supports up to 10 instances, and would be enough as the Standard plan includes auto scale that can automatically adjust the number of virtual machine instances running to match your traffic needs.

Scenario:
Ensure that WebApp1 can adjust the number of instances automatically based on the load and can scale up to five instances

QUESTION 7
You need to meet the technical requirement for VM4. What should you create and configure?

A. an Azure Event Hub
B. an Azure Notification Hub
C. an Azure Logic App
D. an Azure Service Bus

Correct Answer: A
Explanation:
Scenario:
Create a workflow to send an email message when the settings of VM4 are modified.

You can start an automated logic app workflow when specific events happen in Azure resources

or third-party resources. These resources can publish those events to an Azure event grid. In turn, the event grid pushes those events to subscribers that have queues, webhooks, or event hubs as endpoints. As a subscriber, your logic app can wait for those events from the event grid before running automated workflows to perform tasks - without you writing any code.

References:
https://docs.microsoft.com/en-us/azure/event-grid/monitor-virtual-machine-changes-event-grid-logic-app

QUESTION 8
HOTSPOT
You need to meet the connection requirements for the New York office.

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

NOTE: Each correct selection is worth one point.

From the Azure portal:

Create an ExpressRoute circuit only.
Create a virtual network gateway only.
Create a virtual network gateway and a local network gateway.
Create an ExpressRoute circuit and an on-premises data gateway.
Create a virtual network gateway and an on-premises data gateway.

In the New York office:

Deploy ExpressRoute.
Deploy a DirectAccess server.
Implement a Web Application Proxy.
Configure a site-to-site VPN connection.

Correct Answer:

From the Azure portal:

Create an ExpressRoute circuit only.
Create a virtual network gateway only.
Create a virtual network gateway and a local network gateway.
Create an ExpressRoute circuit and an on-premises data gateway.
Create a virtual network gateway and an on-premises data gateway.

In the New York office:

Deploy ExpressRoute.
Deploy a DirectAccess server.
Implement a Web Application Proxy.
Configure a site-to-site VPN connection.

Topic 4, Case Study 4

Overview
Existing Environment
A.Datum Corporation is a financial company that has two main offices in New York and Los Angeles. A.Datum has a subsidiary named Fabrikam, Inc that share, Los Angeles office.

A.Datum 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.

A.Datum uses Microsoft Exchange Online or email.

On-Premises Environment
The on-premises workloads run on virtual machines hosted in a VMware vSphere 6 infrastructure.

All the virtual machines and 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 Pool 11 and Pool12. AG2 has two backend pools named Pool21 and Pool22.

Requirements

Planned Changes
A.Datum plans to migrate the virtual machines from the New York office to the East US Azure rec-on by using Azure Site Recovery.

Infrastructure Requirements
A.Datum 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:
▪http://corporate.adatum.com/video/* will be load balanced across Pool11.
▪http://corporate.adatum.com/images/* will be load balanced across Pool 12.
▪AG2 must load balance incoming traffic in the following manner:
▪http://www.adatum.com will be load balanced across Pool21.
▪http://www.fabnkam.com will be load balanced across Pool22.
▪ERI 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.
▪ERI 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
A.Datum identities the following pricing requirements:

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

QUESTION 1
HOTSPOT
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.

App Service plan pricing tier: ▢ V
- Isolated
- Shared
- Standard

Enabled feature: ▢ V
- Always On
- Auto Swap
- Web Sockets

Correct Answer:

App Service plan pricing tier: ▢ V
- Isolated
- Shared
- **Standard**

Enabled feature: ▢ V
- **Always On**
- Auto Swap
- Web Sockets