



# AZ-301<sup>Q&As</sup>

Microsoft Azure Architect Design

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**QUESTION 1**

**HOTSPOT**

You have the network topology shown in the following exhibit.



You have a user-defined route that has a default route of 0.0.0.0/0 and the next hop set to the network virtual appliance.

You configure the Azure Storage account to use virtual network service endpoints.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:



Statements	Yes	No
From VM1, traffic destined to the Azure Key Management Service will be routed to the network virtual appliance.	<input type="radio"/>	<input type="radio"/>
From VM1, traffic destined to the Azure file share will be routed to the Internet.	<input type="radio"/>	<input type="radio"/>
From VM1, traffic destined to the Azure SQL database will be routed to the Internet.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Statements	Yes	No
From VM1, traffic destined to the Azure Key Management Service will be routed to the network virtual appliance.	<input checked="" type="radio"/>	<input type="radio"/>
From VM1, traffic destined to the Azure file share will be routed to the Internet.	<input type="radio"/>	<input checked="" type="radio"/>
From VM1, traffic destined to the Azure SQL database will be routed to the Internet.	<input type="radio"/>	<input checked="" type="radio"/>

## QUESTION 2

Note: This question is a part of 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 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 StorSimple in the design.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A



**QUESTION 3**

**HOTSPOT**

You have databases in Azure as shown in the following table.

Name	Type	Pricing tier
SQLdb1	Azure SQL Database	Basic
SQLdb2	Azure SQL Database	Standard
SQLdb3	Azure SQL Database	Premium
DW1	Azure SQL Data Warehouse	<i>Not available</i>

You are designing a data retention policy.

You need to identify which databases can retain a daily backup for up to 35 days and which databases can retain monthly backups for up to 120 months.

Which databases should you identify? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

**Databases that can retain a daily backup for up to 35 days:**

▼

DW1 only

SQLdb2 and SQLdb3 only

SQLdb1, SQLdb2 and SQLdb3 only

SQLdb1, SQLdb2, SQLdb3 and DW1

**Databases that can retain monthly backups for up to 120 months:**

▼

DW1 only

SQLdb2 and SQLdb3 only

SQLdb1, SQLdb2 and SQLdb3 only

SQLdb1, SQLdb2, SQLdb3 and DW1

Correct Answer:



Databases that can retain a daily backup for up to 35 days:

DW1 only
SQLdb2 and SQLdb3 only
SQLdb1, SQLdb2 and SQLdb3 only
SQLdb1, SQLdb2, SQLdb3 and DW1

Databases that can retain monthly backups for up to 120 months:

DW1 only
SQLdb2 and SQLdb3 only
SQLdb1, SQLdb2 and SQLdb3 only
SQLdb1, SQLdb2, SQLdb3 and DW1

#### QUESTION 4

Your company deploys several Linux and Windows virtual machines (VMs) to Azure. The VMs are deployed with the Microsoft Dependency Agent and the Log Analytics Agent installed by using Azure VM extensions. On-premises connectivity

has been enabled by using Azure ExpressRoute.

You need to design a solution to monitor the VMs.

Which Azure monitoring services should you use? To answer, select the appropriate Azure monitoring services in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Analyze Network Security Group(NSG) flow logs for VMs attempting Internet access.

▼
Azure Traffic Analytics
Azure ExpressRoute Monitor
Azure Service Endpoint Monitor
Azure DNS Analytics

Visualize the VMs with their different processes and dependencies on other computers and external processes.

▼
Azure Service Map
Azure Activity Log
Azure Service Health
Azure Advisor

Correct Answer:

Analyze Network Security Group(NSG) flow logs for VMs attempting Internet access.

▼
<b>Azure Traffic Analytics</b>
Azure ExpressRoute Monitor
Azure Service Endpoint Monitor
Azure DNS Analytics

Visualize the VMs with their different processes and dependencies on other computers and external processes.

▼
<b>Azure Service Map</b>
Azure Activity Log
Azure Service Health
Azure Advisor

Box 1: Azure Traffic Analytics

Traffic Analytics is a cloud-based solution that provides visibility into user and application activity in cloud networks. Traffic analytics analyzes Network Watcher network security group (NSG) flow logs to provide insights into traffic flow in your

Azure cloud. With traffic analytics, you can:

Identify security threats to, and secure your network, with information such as open-ports, applications attempting



internet access, and virtual machines (VM) connecting to rogue networks.

Visualize network activity across your Azure subscriptions and identify hot spots.

Understand traffic flow patterns across Azure regions and the internet to optimize your network deployment for performance and capacity.

Pinpoint network misconfigurations leading to failed connections in your network.

#### Box 2: Azure Service Map

Service Map automatically discovers application components on Windows and Linux systems and maps the communication between services. With Service Map, you can view your servers in the way that you think of them: as interconnected systems that deliver critical services. Service Map shows connections between servers, processes, inbound and outbound connection latency, and ports across any TCP-connected architecture, with no configuration required other than the installation of an agent.

References: <https://docs.microsoft.com/en-us/azure/network-watcher/traffic-analytics> <https://docs.microsoft.com/en-us/azure/azure-monitor/insights/service-map>

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### QUESTION 5

A company named Contoso, Ltd. has an Azure Active Directory (Azure AD) tenant that is integrated with Microsoft Office 365 and an Azure subscription.

Contoso has an on-premises identity infrastructure. The infrastructure includes servers that run Active Directory Domain Services (AD DS), Active Directory Federation Services (AD FS), Azure AD Connect, and Microsoft Identity Manager (MIM).

Contoso has a partnership with a company named Fabrikam, Inc. Fabrikam has an Active Directory forest and an Office 365 tenant. Fabrikam has the same on-premises identity infrastructure as Contoso.

A team of 10 developers from Fabrikam will work on an Azure solution that will be hosted in the Azure subscription of Contoso. The developers must be added to the Contributor role for a resource in the Contoso subscription.

You need to recommend a solution to ensure that Contoso can assign the role to the 10 Fabrikam developers. The solution must ensure that the Fabrikam developers use their existing credentials to access resources.

What should you recommend?

- A. Configure an AD FS relying party trust between the Fabrikam and Contoso AD FS infrastructures.
- B. Configure an organization relationship between the Office 365 tenants of Fabrikam and Contoso.
- C. In the Azure AD tenant of Contoso, create guest accounts for the Fabrikam developers.
- D. Configure a forest trust between the on-premises Active Directory forests of Contoso and Fabrikam.

Correct Answer: D

Trust configurations - Configure trust from managed forests(s) or domain(s) to the administrative forest

1.



A one-way trust is required from production environment to the admin forest.

2.

Selective authentication should be used to restrict accounts in the admin forest to only logging on to the appropriate production hosts.

References: <https://docs.microsoft.com/en-us/windows-server/identity/securing-privileged-access/securing-privileged-access-reference-material>

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