



# AZ-304<sup>Q&As</sup>

Microsoft Azure Architect Design Exam

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**QUESTION 1**

**HOTSPOT**

You manage a network that includes an on-premises Active Directory domain and an Azure Active Directory (Azure AD).

Employees are required to use different accounts when using on-premises or cloud resources. You must recommend a solution that lets employees sign in to all company resources by using a single account. The solution must implement an

identity provider.

You need to provide guidance on the different identity providers.

How should you describe each identity provider? To answer, select the appropriate description from each list in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

Identity Provider	Description
synchronized identity	<input type="checkbox"/> User management occurs on-premises. Azure AD authenticates employees by using on-premises passwords. <input type="checkbox"/> User management occurs on-premises. The on-premises domain controller authenticates employee credentials. <input type="checkbox"/> Both user management and authentication occur in Azure AD.
federated identity	<input type="checkbox"/> User management occurs on-premises. Azure AD authenticates employees by using on-premises passwords. <input type="checkbox"/> User management occurs on-premises. The on-premises domain controller authenticates employee credentials. <input type="checkbox"/> Both user management and authentication occur in Azure AD.

Correct Answer:

**Answer Area**

Identity Provider	Description
synchronized identity	<input checked="" type="checkbox"/> User management occurs on-premises. Azure AD authenticates employees by using on-premises passwords. <input type="checkbox"/> User management occurs on-premises. The on-premises domain controller authenticates employee credentials. <input type="checkbox"/> Both user management and authentication occur in Azure AD.
federated identity	<input type="checkbox"/> User management occurs on-premises. Azure AD authenticates employees by using on-premises passwords. <input checked="" type="checkbox"/> User management occurs on-premises. The on-premises domain controller authenticates employee credentials. <input type="checkbox"/> Both user management and authentication occur in Azure AD.



Box1: User management occurs on-premises. Azure AD authenticates employees by using on-premises passwords.

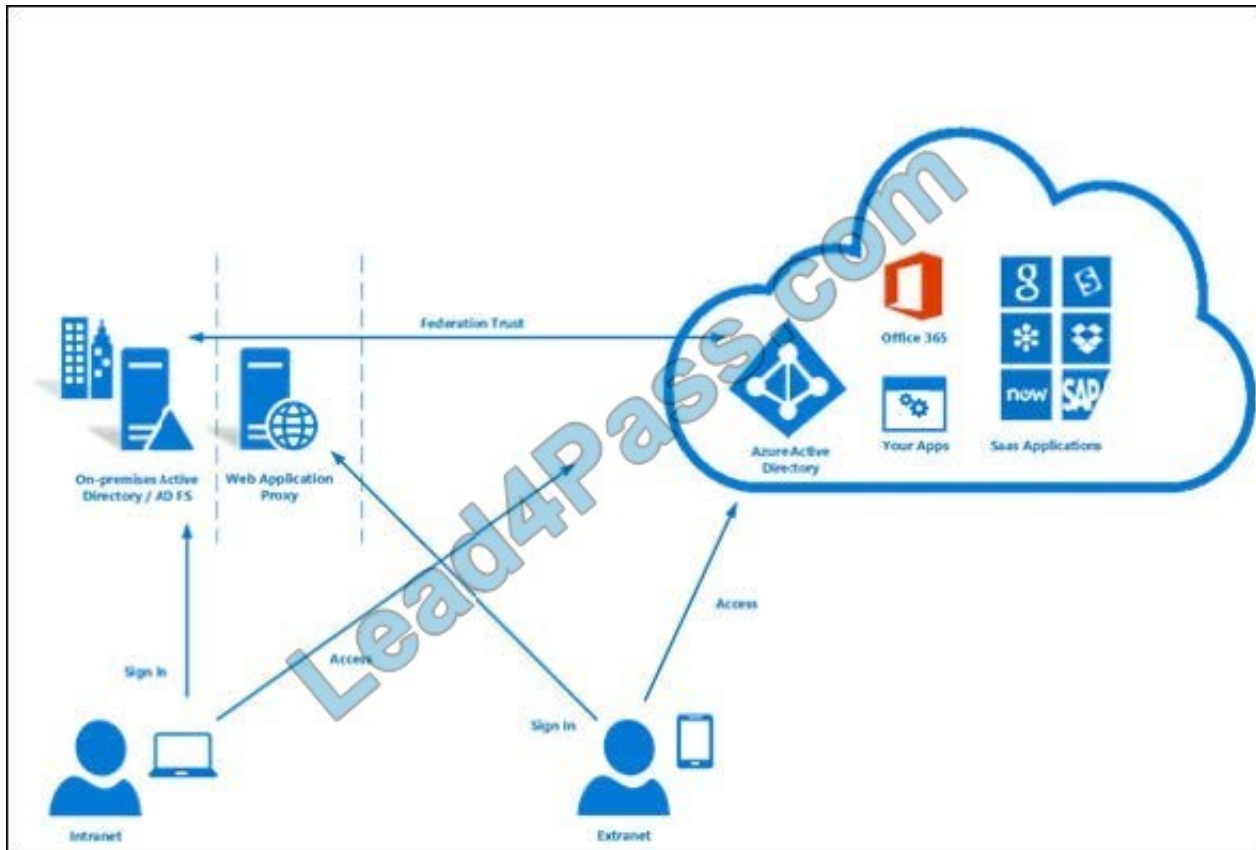
Azure AD Domain Services for hybrid organizations Organizations with a hybrid IT infrastructure consume a mix of cloud resources and on-premises resources. Such organizations synchronize identity information from their on-premises directory to their Azure AD tenant. As hybrid organizations look to migrate more of their on-premises applications to the cloud, especially legacy directory-aware applications, Azure AD Domain Services can be useful to them.

Example: Litware Corporation has deployed Azure AD Connect, to synchronize identity information from their on-premises directory to their Azure AD tenant. The identity information that is synchronized includes user accounts, their credential hashes for authentication (password hash sync) and group memberships.



User accounts, group memberships, and credentials from Litware's on-premises directory are synchronized to Azure AD via Azure AD Connect. These user accounts, group memberships, and credentials are automatically available within the managed domain.

Box 2: User management occurs on-premises. The on-premises domain controller authenticates employee credentials.



You can federate your on-premises environment with Azure AD and use this federation for authentication and authorization. This sign-in method ensures that all user authentication occurs on-premises.

Reference: <https://docs.microsoft.com/en-us/azure/active-directory-domain-services/active-directory-ds-overview>  
<https://docs.microsoft.com/en-us/azure/active-directory/hybrid/whatis-fed>

## QUESTION 2

A company has deployed several applications across Windows and Linux Virtual machines in Azure. Log Analytics are being used to send the required data for alerting purposes for the Virtual Machines.

You need to recommend which tables need to be queried for security related queries.

Which of the following would you query for events from Linux system logging?

- A. Azure Activity
- B. Azure Diagnostics
- C. Event
- D. Syslog

Correct Answer: D

This is also given in the Microsoft documentation, wherein you would use the Syslog Table for the queries on events from Linux Virtual machines Note: Syslog is an event logging protocol that is common to Linux. Applications will send



messages that may be stored on the local machine or delivered to a Syslog collector. When the Log Analytics agent for Linux is installed, it configures the local Syslog daemon to forward messages to the agent. The agent then sends the message to Azure Monitor where a corresponding record is created.

Reference: <https://docs.microsoft.com/en-us/azure/azure-monitor/platform/data-sources-syslog>

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### QUESTION 3

You plan to run an image rendering workload in Azure. The workload uses parallel compute processes.

What is the best service to use to run the workload? More than one answer choice may achieve the goal. Select the BEST answer.

- A. an Azure virtual machine scale set
- B. Azure Kubernetes Service (AKS)
- C. Azure Batch
- D. Azure Container Service

Correct Answer: C

Azure Batch works well with intrinsically parallel (also known as "embarrassingly parallel") workloads. Intrinsically parallel workloads are those where the applications can run independently, and each instance completes part of the work. When the applications are executing, they might access some common data, but they do not communicate with other instances of the application. Intrinsically parallel workloads can therefore run at a large scale, determined by the amount of compute resources available to run applications simultaneously.

Reference: <https://docs.microsoft.com/en-us/azure/batch/batch-technical-overview>

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### QUESTION 4

#### DRAG DROP

You are designing a network connectivity strategy for a new Azure subscription. You identify the following requirements:

1.  
The Azure virtual machines on a subnet named Subnet1 must be accessible only from the computers in your London office.
2.  
Engineers require access to the Azure virtual machines on a subnet named Subnet2 over the Internet on a specific TCP/IP management port.
3.  
The Azure virtual machines in the West Europe Azure region must be able to communicate on all ports to the Azure virtual machines in the North Europe Azure region.





4.

Azure virtual machines on Subnet1 and Subnet2 have public IP addresses.

You need to recommend which components must be used to meet the requirements. The solution must minimize costs and administrative effort whenever possible.

What should you include in the recommendation? To answer, drag the appropriate components to the correct requirements. Each component 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.

Select and Place:

Components	Answer Area	
An Azure ExpressRoute connection	The Azure virtual machines on Subnet1 must be accessible only from the computers in the London office:	Component
A network security group (NSG)		Component
A new virtual network		Component
A site-to-site VPN	Engineers require access to the Azure virtual machines on Subnet2 over the Internet on a specific TCP/IP management port:	Component
Virtual network peering		Component
	The Azure virtual machines in the West Europe region must be able to communicate on all ports to the Azure virtual machines in the North Europe region:	

Correct Answer:

Components	Answer Area	
An Azure ExpressRoute connection	The Azure virtual machines on Subnet1 must be accessible only from the computers in the London office:	A site-to-site VPN
A new virtual network		A network security group (NSG)
	Engineers require access to the Azure virtual machines on Subnet2 over the Internet on a specific TCP/IP management port:	Virtual network peering
	The Azure virtual machines in the West Europe region must be able to communicate on all ports to the Azure virtual machines in the North Europe region:	

**QUESTION 5**



## HOTSPOT

You are designing an Azure web app.

You plan to deploy the web app to the North Europe Azure region and the West Europe Azure region.

You need to recommend a solution for the web app. The solution must meet the following requirements:

1.  
Users must always access the web app from the North Europe region, unless the region fails.
2.  
The web app must be available to users if an Azure region is unavailable.
3.  
Deployment costs must be minimized.

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

NOTE: Each correct selection is worth one point.

Hot Area:

## Answer Area

Request routing method: 

	▼
A Traffic Manager profile	
Azure Application Gateway	
Azure Load Balancer	

Request routing configuration: 

	▼
Cookie-based session affinity	
Performance traffic routing	
Priority traffic routing	
Weighted traffic routing	

Correct Answer:



## Answer Area

Request routing method:

	▼
A Traffic Manager profile	
Azure Application Gateway	
Azure Load Balancer	

Request routing configuration:

	▼
Cookie-based session affinity	
Performance traffic routing	
Priority traffic routing	
Weighted traffic routing	





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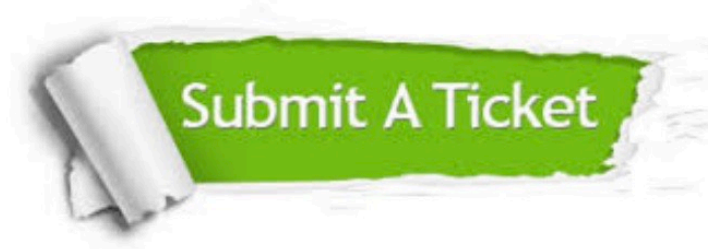
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