



# 70-534<sup>Q&As</sup>

Architecting Microsoft Azure Solutions 2015

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**QUESTION 1**

Your company network includes a single forest with multiple domains. You plan to migrate from On-Premises Exchange to Exchange Online.

You want to provision the On-Premises Windows Active Directory (AD) and Azure Active Directory (Azure AD) service accounts.

You need to set the required permissions for the Azure AD service account. Which settings should you use? To answer, drag the appropriate permission to the service account.

Each permission 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.

Select and Place:

Permissions	Service Account
Enterprise Admin	Azure AD
Domain Admin	Permission
Global Admin	Permission
Password Admin	
IIS Admin	

Correct Answer:



Permissions	Service Account
	Azure AD
Domain Admin	Enterprise Admin
Password Admin	Global Admin
IIS Admin	

When you run the Directory Sync tool Configuration Wizard, you must provide the following information: Enterprise admin credentials for the on-premises Active Directory schema Global admin credentials for the Microsoft cloud service  
References: <https://support.microsoft.com/en-us/help/2684395/how-to-troubleshoot-azureactive-directory-sync-tool-installation-and>

## QUESTION 2

You administer two virtual machines (VMs) that are deployed to a cloud service. The VMs are part of a virtual network. The cloud service monitor and virtual network configuration are configured as shown in the exhibits. (Click the Exhibits button.)



## fabsvc





## fabrikamvnet



DASHBOARD

CONFIGURE

CERTIFICATES

## dns servers

ENTER NAME

IP ADDRESS

## point-to-site connectivity

CONNECTION

☐ Configure point-to-site connectivity

## virtual network address spaces

ADDRESS SPACE	STARTING IP	CIDR (ADDRESS COUNT)	USABLE ADDRESS RANGE
172.16.0.0/23	172.16.0.0	/23 (507)	172.16.0.4 - 172.16.1.254
SUBNETS			
Subnet-1	172.16.0.0	/26 (59)	172.16.0.4 - 172.16.0.62
Subnet-2	172.16.0.64	/26 (59)	172.16.0.68 - 172.16.0.126

add subnet

add address space

You need to create an internal load balancer named fabLoadBalancer that has a static IP address of 172.16.0.100. Which value should you use in each parameter of the Power Shell command? To answer, drag the appropriate value to the correct location in the Power Shell command. Each value 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.

Select and Place:

**Values**

fabSvc1

fabSvc2

fabSvc

fabrikamVNet

Subnet-1

Subnet-2

**PowerShell command parameter**

Add-AzureInternalLoadBalancer

-InternalLoadBalancerName fabLoadBalancer

-ServiceName

Value

-SubnetName

Value

-StaticVNetIPAddress 172.16.0.100

Correct Answer:

**Values**

fabSvc1

fabSvc2

fabSvc

Subnet-1

**PowerShell command parameter**

Add-AzureInternalLoadBalancer

-InternalLoadBalancerName fabLoadBalancer

-ServiceName

fabrikamVNet

-SubnetName

Subnet-2

-StaticVNetIPAddress 172.16.0.100





References: <https://docs.microsoft.com/en-us/powershell/module/Azure/Add-AzureInternalLoadBalancer?view=azuresmps-4.0.0>

### QUESTION 3

You need to design the role-based access control strategy for the company. What should you do? To answer, drag the appropriate role to the correct user tier. Each role may be used one, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Select and Place:

#### Roles

Owner	Contributor
Reader	Website Contributor
Virtual Machine Contributor	User Access Administrator
Web Plan Contributor	Security Manager

#### Answer Area

##### User tier

Tier 1

Tier 2

Tier 3

##### Role

Correct Answer:

#### Roles

	Contributor
Reader	User Access Administrator
Web Plan Contributor	Security Manager

#### Answer Area

##### User tier

Tier 1

Tier 2

Tier 3

##### Role

Owner

Virtual Machine Contributor

Website Contributor

Azure platform roles include:

Azure also provides several resource-specific roles. Some common ones are:

References: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resourcegroup-overview>

### QUESTION 4

You have an Azure subscription. You need to recommend a solution to automate the configuration of virtual machine to meet the following requirements:

\* Manage 30 virtual machines that run Linux by using Chef.

\* Ensure that 10 virtual machines that run Windows Server 2012 R2 are turned off outside of business hours. What should you include in the recommendation? To answer, select the appropriate options in the answer area.

Hot Area:

**ANSWER AREA**

To manage the Linux virtual machine:

Cookbooks	
Runbooks	
Windows PowerShell Desired State Configuration (DSC)	

To turn off the Windows Server 2012 R2 virtual machine:

Azure Automation	
Azure Management Services	
Windows PowerShell Desired State Configuration (DSC)	

Correct Answer:

**ANSWER AREA**

To manage the Linux virtual machine:

Cookbooks	
Runbooks	
Windows PowerShell Desired State Configuration (DSC)	

To turn off the Windows Server 2012 R2 virtual machine:

Azure Automation	
Azure Management Services	
Windows PowerShell Desired State Configuration (DSC)	

Box 1: Cookbooks A Cookbook is used by Chef to define a set of commands that you wish to execute on your managed client. Box 2: Azure Automation The Start/Stop VMs during off-hours solution starts and stops your Azure Resource Manager virtual machines on a user-defined schedule and provides insight into the success of the Automation jobs that start and stop your virtual machines with OMS Log Analytics.

References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/chef-automation> <https://docs.microsoft.com/en-us/azure/automation/automation-solution-vm-management>

**QUESTION 5**

Note: This question is part of a 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 the deployment of resources in Azure. You plan to use templates to customize deployment options.





You need to ensure that Azure services are deployed and updated identically.

Solution: You customize the output element of the template.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

## QUESTION 6

You need to persist the API messages.

Which five steps 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.

Select and Place:

### Actions

Use Windows PowerShell to obtain the Node.js packages.

Import the modules and assign values to the namespace and access key environment.

Set the queue size limit to 10 gigabytes (GB). Then, call the sendQueueMessage and receiveQueueMessage methods.

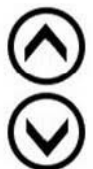
Set the queue size limit to 5 gigabytes (GB). Then, call the sendQueueMessage and receiveQueueMessage methods.

Create a ServiceBusService object.

Call the createQueueNotExists method.

Use Windows PowerShell to obtain the Python packages.

### Answer Area



Correct Answer:

**Actions**

Set the queue size limit to 10 gigabytes (GB). Then, call the `sendQueueMessage` and `receiveQueueMessage` methods.

Use Windows PowerShell to obtain the Python packages.

**Answer Area**

Use Windows PowerShell to obtain the Node.js packages.

Import the modules and assign values to the namespace and access key environment.

Create a `ServiceBusService` object.

Set the queue size limit to 5 gigabytes (GB). Then, call the `sendQueueMessage` and `receiveQueueMessage` methods.

Call the `createQueueNotExists` method.

**QUESTION 7**

You need to provide a data access solution for the NorthRide app.

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.

Select and Place:

**Actions**

Obtain the default management credentials for the namespace.

Create a service namespace under Service Bus.

Configure the Service Bus to consume a web service.

Configure Service Bus Queue.

Configure the application to use Service Bus Relay.

**Answer Area**

Correct Answer:

**Actions**

Configure the Service Bus to consume a web service.

**Answer Area**

Create a service namespace under Service Bus.

Obtain the default management credentials for the namespace.

Configure the application to use Service Bus Relay.

Configure Service Bus Queue.

Box 1: Create a service namespace under Service Bus

Box 2: Obtain the default management credentials for the namespace.

Box 3: Configure the application to use Service Bus Relay

Box 4: Configure Service Bus Queue

Note:

Box 1: Create a service namespace under Service Bus

To begin using Service Bus queues in Azure, you must first create a service namespace. A namespace provides a scoping container for addressing Service Bus resources within your application.



Box 2: Obtain the default management credentials for the namespace.

In order to perform management operations, such as creating a queue on the new namespace, you must obtain the management credentials for the namespace.

Box 3: Configure the application to use Service Bus Relay

When you create an application that uses Service Bus, you must add a reference to the Service Bus assembly and include the corresponding namespaces.

The Service Bus NuGet package is the easiest way to get the Service Bus API and to configure your application with all of the Service Bus dependencies.

After installing this package you are now ready to write code for Service Bus.

Box 4: Configure Service Bus Queue

This would include:

- \* set up a Service Bus connection string
- \* create a queue
- \* provide code to send/receive messages from the queue

References: <https://azure.microsoft.com/en-gb/documentation/articles/service-bus-dotnethow-to-use-queues/>

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## QUESTION 8

You are migrating a company's infrastructure to Azure.

You need to implement all required services.

For each solution, which object or service should you implement? To answer, drag the appropriate Azure object or service to the correct solution. Each service 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

Select and Place:

**Objects and Services**

Azure Active Directory

Virtual Machine

Virtual Interface Card

Security Center

API Management

Virtual Network

Network Security Group

**Answer Area****Solution**

Allows the creation of a perimeter network

Identity solution for cloud resources

Firewall restrictions for Azure resources

Identity solution for on-premises resources

**Object or service**

object or service

object or service

object or service

object or service

Correct Answer:

**Objects and Services**

Azure Active Directory

Virtual Machine

Virtual Interface Card

Security Center

API Management

Virtual Network

Network Security Group

**Answer Area****Solution**

Allows the creation of a perimeter network

Identity solution for cloud resources

Firewall restrictions for Azure resources

Identity solution for on-premises resources

**Object or service**

Virtual Network

Azure Active Directory

Network Security Group

Azure Active Directory

**QUESTION 9**

You are designing an Azure web application that includes many static content files.

The application is accessed from locations all over the world by using a custom domain name.

You need to recommend an approach for providing access to the static content with the least amount of latency.

Which two actions should you recommend? Each correct answer presents part of the solution.

A. Place the static content in Azure Table storage.





B. Configure a CNAME DNS record for the Azure Content Delivery Network (CDN) domain.

C. Place the static content in Azure Blob.

D. Configure a custom domain name that is an alias for the Azure Storage domain.

Correct Answer: BC

B: There are two ways to map your custom domain to a CDN endpoint.

1.

Create a CNAME record with your domain registrar and map your custom domain and subdomain to the CDN endpoint

2.

Add an intermediate registration step with Azure cdnverify

C: The Azure Content Delivery Network (CDN) offers developers a global solution for delivering high-bandwidth content by caching blobs and static content of compute instances at physical nodes in the United States, Europe, Asia, Australia

and South America.

The benefits of using CDN to cache Azure data include:

/ Better performance and user experience for end users who are far from a content source, and are using applications where many 'internet trips' are required to load content / Large distributed scale to better handle instantaneous high load,

say, at the start of an event such as a product launch

References: <https://azure.microsoft.com/en-gb/documentation/articles/cdn-how-to-use/> <https://github.com/Azure/azure-content/blob/master/articles/cdn-map-content-to-custom-domain.md>

<https://github.com/Azure/azure-content/blob/master/articles/cdn-map-content-to-custom-domain.md>

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## QUESTION 10

You need to architect a solution for the client's core business objectives. Which services should you recommend? To answer, drag the appropriate service to the correct business objective. Each service 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

Select and Place:



**Services**

Azure Batch

Azure Media Services

HPC Pack

SQL Service Analysis  
Services

Application Insights

Mobile Services

**Answer Area**

Objective	Service
... Video and audio	
...in the web application	
Data Mining	

Correct Answer:

**Services**

HPC Pack

SQL Service Analysis  
Services

Application Insights

**Answer Area**

Objective	Service
... Video and audio	Azure Media Services
...in the web application	Mobile Services
Data Mining	Azure Batch

Box 1: Azure Media Services

Azure Media Services gives you broadcast-quality video streaming services to reach larger audiences on today's most popular mobile devices. Media Services enhances accessibility, distribution, and scalability, and makes it easy and cost-effective to stream content to your local and worldwide audiences

**Box 2: Mobile Services**

Microsoft today announced upcoming changes for its cloud services intended for use in mobile apps. The Azure Mobile Services suite — which offers push notification capability, authentication, and data storage — will be discontinued in

December 2016. Microsoft is encouraging people to move sites from Mobile Services to the Azure App Service, which offers similar functionality and will begin automatically migrating sites to App Service on Sept. 1.

**Box 3: Azure Batch****References:**

<https://azure.microsoft.com/en-us/services/media-services/>

<https://venturebeat.com/2016/05/10/microsoft-killing-azure-mobile-services-in-decemberwill-migrate-sites-to-app-service-starting-september-1/>

**QUESTION 11**

You are designing an Azure storage solution for a company. The company has the following storage requirements:

\* An app named App1 uses data analytics on stored data. App1 must store data on hierarchical file system that uses Azure Active Directory (Azure AD) access control lists.

\* An app named App2 must have access to object-based storage. The storage must support role-based access control and use shared access signature keys.

You need to design the storage solution.

Which storage solution should you use for each app? To answer, drag the appropriate storage solutions to the correct apps. Each storage solution 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:

Storage solutions	Answer Area						
Azure Blob Storage	<table border="1"><thead><tr><th>App</th><th>Storage solution</th></tr></thead><tbody><tr><td>App1</td><td>Storage solution</td></tr><tr><td>App2</td><td>Storage solution</td></tr></tbody></table>	App	Storage solution	App1	Storage solution	App2	Storage solution
App	Storage solution						
App1	Storage solution						
App2	Storage solution						
Azure Data Lake Store							
Azure Site Recovery							
Azure File Storage							
Azure StorSimple virtual device							



Correct Answer:

### Storage solutions

Azure Site Recovery

Azure File Storage

Azure StorSimple virtual device

### Answer Area

App

Storage solution

App1

Azure Data Lake Store

App2

Azure Blob Storage

## QUESTION 12

### Background

### Overview

Woodgrove Bank has 20 regional offices and operates 1,500 branch office locations. Each regional office hosts the servers, infrastructure, and applications that support that region.

Woodgrove Bank plans to move all of their on-premises resources to Azure, including virtual machine (VM)-based, line-of-business workloads, and SQL databases. You are the owner of the Azure subscription that Woodgrove Bank is using.

Your team is using Git repositories hosted on GitHub for source control.

### Security

Currently, Woodgrove Bank's Computer Security Incident Response Team (CSIRT) has a problem investigating security issues due to the lack of security intelligence integrated with their current incident response tools. This lack of integration

introduces a problem during the detection (too many false positives), assessment, and diagnose stages. You decide to use Azure Security Center to help address this problem.

Woodgrove Bank has several apps with regulates data such as Personally Identifiable Information (PII) that require a higher level of security. All apps are currently secured by using an on-premises Active Directory Domain Services (ADDS).

The company depends on following mission-critical apps: WGBLoanMaster, WGBLeaseLeader, and WGBCreditCruncher apps. You plan to move each of these apps to Azure as part of an app migration project.

### Apps

The WGBLoanMaster app has been audited for transaction loss. Many transactions have been lost is processing and monetary write-offs have cost the bank. The app runs on two VMs that include several public endpoints.



The WGBLeaseLeader app has been audited for several data breaches. The app includes a SQL Server database and a web-based portal. The portal uses an ASP.NET Web API function to generate a monthly aggregate report from the database.

The WGBCreditCruncher app runs on a VM and is load balanced at the network level. The app includes several stateless components and must accommodate scaling of increased credit processing. The app runs on a nightly basis to process

credit transactions that are batched during the day. The app includes a web-based portal where customers can check their credit information. A mobile version of the app allows users to upload check images.

#### Business Requirements

##### WGBLoanMaster app

The app audit revealed a need for zero transaction loss. The business is losing money due to the app losing and not processing loan information. In addition, transactions fail to process after running for a long time. The business has

requested the aggregation processing to be scheduled for 01:00 to prevent system slowdown.

##### WGBLeaseLeader app

The app should be secured to stop data breaches. If the data is breached, it must not be readable. The app is continuing to see increased volume and the business does not want the issues presented in the WGBLoanMaster app. Transaction

loss is unacceptable, and although the lease monetary amounts are smaller than loans, they are still an important profit center for Woodgrove Bank. The business would also like the monthly report to be automatically generated on the first of

the month. Currently, a user must log in to the portal and click a button to generate the report.

##### WGBCreditCruncher app

The web-based portal area of the app must allow users to sign in with their Facebook credentials. The bank would like to allow this feature to enable more users to check their credit within the app.

Woodgrove Bank needs to develop a new financial risk modeling feature that they can include in the WGBCreditCruncher app. The financial risk modeling feature has not been developed due to costs associated with processing, transforming,

and analyzing the large volumes of data that are collected. You need to find a way to implement parallel processing to ensure that the features run efficiently, reliably, and quickly. The feature must scale based on computing demand to

process the large volumes of data and output several financial risk models.

#### Technical Requirements

##### WGBLoanMaster app

The app uses several compute-intensive tasks that create long-running requests to the system. The app is critical to the business and must be scalable to increased loan processing demands. The VMs that run the app include a Windows

Task Scheduler task that aggregates loan information from the app to send to a third party. This task runs a console app on the VM.



The app requires a messaging system to handle transaction processing. The messaging system must meet the following requirements:

You develop an Azure Resource Manager (ARM) template to deploy the VMs used to support the app. The template must be deployed to a new resource group and you must validate your deployment settings before creating actual resources.

WGBLeaseLeader app

The app must use Azure SQL Databases as a replacement to the current Microsoft SQL Server environment. The monthly report must be automatically generated.

The app requires a messaging system to handle transaction processing. The messaging system must meet the following requirements:

WGBCreditCruncher app The app must:

Key security area

Name	Description
Area 1	Uses Role-Based Access Control (RBAC)
Area 2	Uses Azure Monitoring Agent (ASMAgentLauncher.exe) and the Azure Security Monitoring extension (ASMMonitoringAgent.exe) and is a main cost of Azure Security Center
Area 3	Customizes your company's security requirements and the type of apps of sensitivity of the data. Propagates to all resource groups within the Azure subscription
Area 4	Allows you to detect, assess, and diagnose attacks
Area 5	Prevents and detects future security changes. Changes to the environment are automatically enabled as resources are added



You need to recommend a business continuity and disaster recovery solution for all of the existing line of business applications. What are two ways to achieve the goal? Each correct answer presents a complete solution.

- A. Create new virtual machines (VMs) in Azure and migrate the line of business applications to the VMs. Migrate any backend databases to SQL Database.
- B. Migrate the virtual machines to the Hyper-V cluster and enable Hyper-V replica.
- C. Configure ExpressRoute to enable migration to Azure.
- D. Install the Azure Backup agent on the virtual machines.

Correct Answer: AB

References: <https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-hyper-v-site-to-azure>



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