



AZ-301^{Q&As}

Microsoft Azure Architect Design

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QUESTION 1

You need to ensure that all the virtual machines in the resource groups are available in one region during platform updates. What should you modify?

NOTE: To answer this question, sign in to the Azure portal and explore the Azure resource groups.

- A. the number of update domains
- B. the number of virtual machines in the availability set
- C. the replication settings of the storage account
- D. the number of fault domains

Correct Answer: A

Update Domain When you created VMs on the IaaS service model, then Microsoft is not responsible for automatic system updates. You have complete control over that. The planned maintenance event comes in this phase, where we planned for server or virtual machine updating.

Sometimes we need to update some own software, or some updates come from Microsoft due to performance, security, etc. it is not automatically updated your virtual machine, then we need to plan it for updates. So how is that done without taking your service offline? Update Domains.

References: <https://azure.codefari.com/2018/12/what-are-availability-set-fault-domain.html>

QUESTION 2

You need to recommend a notification solution for the IT Support distribution group. What should you include in the recommendation?

- A. Azure Network Watcher
- B. an action group
- C. a SendGrid account with advanced reporting
- D. Azure AD Connect Health

Correct Answer: D

References: <https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-healthoperations>

QUESTION 3

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 migrating an on-premises application to Azure. One component of the application is a legacy Windows native executable that performs image processing.

The image processing application must run every hour. During times that the image processing application is not running, it should not be consuming any Azure compute resources.

You need to ensure that the image processing application runs correctly every hour.

Solution: Create a Logic App to run the image processing application every hour.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

Azure Logic Apps helps you automate workflows that run on a schedule.

Reference: <https://docs.microsoft.com/en-us/azure/logic-apps/tutorial-build-schedule-recurring-logic-app-workflow>

QUESTION 4

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 Windows Event Logs?

A. Azure Activity

B. Azure Diagnostics

C. Event

D. Syslog

Correct Answer: C

This is also given in the Microsoft documentation, wherein you would use the Event Table for the queries on events from Windows Virtual machines



Log queries with Windows Events

The following table provides different examples of log queries that retrieve Windows Event records.

Query	Description
Event	All Windows events.
Event where EventLevelName == "error"	All Windows events with severity of error.
Event summarize count() by Source	Count of Windows events by source.
Event where EventLevelName == "error" summarize count() by Source	Count of Windows error events by source.

Since this is clearly mentioned, all other options are incorrect

For more information on collecting event data from windows virtual machines, please go ahead and visit the below URL.

Reference:

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

QUESTION 5

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.

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You are designing an Azure solution for a company that has four departments. Each department will deploy several Azure app services and Azure SQL databases.

You need to recommend a solution to report the costs for each department to deploy the app services and the databases. The solution must provide a consolidated view for cost reporting.

Solution: Create a resources group for each resource type. Assign tags to each resource group.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

Tags enable you to retrieve related resources from different resource groups. This approach is helpful when you need to organize resources for billing or management.



Reference: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-using-tags>

QUESTION 6

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 machine 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.

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: <div>Component</div>
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: <div>Component</div>
A new virtual network	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: <div>Component</div>
A site-to-site VPN	
Virtual network peering	

Correct Answer:



Components

An Azure ExpressRoute connection

A new virtual network

Answer Area

The Azure virtual machines on Subnet1 must be accessible only from the computers in the London office:

Engineers require access to the Azure virtual machines on Subnet2 over the Internet on a specific TCP/IP management port:

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:

A site-to-site VPN

A network security group (NSG)

Virtual network peering

QUESTION 7

HOTSPOT

You are designing a solution for a stateless front-end application named Application1. Application1 will be hosted on two Azure virtual machines named VM1 and VM2.

You plan to load balance connections to VM1 and VM2 from the Internet by using one Azure load balancer.

You need to recommend the minimum number of required public IP addresses.

How many public IP addresses should you recommend using for each resource? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Load balancer:

	▼
0	
1	
2	
3	

VM1:

	▼
0	
1	
2	
3	

VM2:

	▼
0	
1	
2	
3	

Correct Answer:

Load balancer:

	▼
0	
1	
2	
3	

VM1:

	▼
0	
1	
2	
3	

VM2:

	▼
0	
1	
2	
3	



QUESTION 8

HOTSPOT

A company plans to implement an HTTP-based API to support a web app. The web app allows customers to check the status of their orders.

The API must meet the following requirements:

1.

Implement Azure Functions

2.

Provide public read-only operations

3.

Do not allow write operations

You need to recommend configuration options.

What should you recommend? To answer, configure the appropriate options in the dialog box in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Allowed authentication methods

	▼
All methods	
GET only	
GET and POST only	
GET, POST, and OPTIONS only	

Authorization level

	▼
Function	
Anonymous	
Admin	



Correct Answer:

Allowed authentication methods

▼
All methods
GET only
GET and POST only
GET, POST, and OPTIONS only

Authorization level

▼
Function
Anonymous
Admin

Allowed authentication methods: GET only

Authorization level: Anonymous

The option is Allow Anonymous requests. This option turns on authentication and authorization in App Service, but defers authorization decisions to your application code. For authenticated requests, App Service also passes along

authentication information in the HTTP headers.

This option provides more flexibility in handling anonymous requests.

References:

<https://docs.microsoft.com/en-us/azure/app-service/overview-authentication-authorization>

QUESTION 9

You use Azure virtual machines to run a custom application that uses an Azure SQL Database instance on the back end.

The IT department at your company recently enabled forced tunneling.

Since the configuration change, developers have noticed degraded performance when they access the database.

You need to recommend a solution to minimize latency when accessing the database. The solution must minimize costs.



What should you include in the recommendation?

- A. Azure SQL Database Managed Instance
- B. virtual network service endpoints
- C. Always On availability groups
- D. Azure virtual machines that run Microsoft SQL Server servers

Correct Answer: B

QUESTION 10

You have an on-premises network and an Azure subscription. The on-premises network has several branch offices.

A branch office in Toronto contains a virtual machine named VM1 that is configured as a file server. Users access the shared files on VM1 from all the offices.

You need to recommend a solution to ensure that the users can access the shares files as quickly as possible if the Toronto branch office is inaccessible.

What should you include in the recommendation?

- A. a Recovery Services vault and Azure Backup
- B. an Azure file share and Azure File Sync
- C. Azure blob containers and Azure File Sync
- D. a Recovery Services vault and Windows Server Backup

Correct Answer: B

Use Azure File Sync to centralize your organization's file shares in Azure Files, while keeping the flexibility, performance, and compatibility of an on-premises file server. Azure File Sync transforms Windows Server into a quick cache of your

Azure file share.

You need an Azure file share in the same region that you want to deploy Azure File Sync.

Incorrect Answers:

A: Backups would be a slower solution.

Reference: <https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-files-deployment-guide>

QUESTION 11

HOTSPOT

You have 20 Azure virtual machines that run Windows Server 2016 based on a custom virtual machine image. Each



virtual machine hosts an instance of a VSS-capable web app that was developed in-house. Each instance is accessed by

using a public endpoint. Each instance uses a separate database. The average database size is 200 GB.

You need to design a disaster recovery solution for individual instances. The solution must meet the following requirements:

1.

Provide a recovery time objective (RTO) of six hours

2.

Provide a recovery point objective (RPO) of eight hours

3.

Support recovery to a different Azure region

4.

Support VSS-based backups

5.

Minimize costs

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:

Disaster recovery solution:

	▼
Azure Site Recovery	
Scheduled backups by using an Azure Backup agent	
Scheduled backups by using Windows Server Backup	
Scheduled virtual machine-level backups	

Storage type:

	▼
A Recovery Services vault	
Premium managed disks	
Unmanaged disks in an storage account that uses RA-GRS	

Correct Answer:



Disaster recovery solution:

Azure Site Recovery
Scheduled backups by using an Azure Backup agent
Scheduled backups by using Windows Server Backup
Scheduled virtual machine-level backups

Storage type:

A Recovery Services vault
Premium managed disks
Unmanaged disks in an storage account that uses RA-GRS

QUESTION 12

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>

QUESTION 13

HOTSPOT

You need to design a solution for securing access to the historical transaction data.



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.

Hot Area:

The Azure Cosmos DB account
will be used to:

	▼
Create users and generate resource tokens	
Create users and request resource tokens	
Generate resource tokens and perform authentication	
Request resource tokens and perform authentication	

The .NET web service
will be used to:

	▼
Create users and generate resource tokens	
Create users and request resource tokens	
Generate resource tokens and perform authentication	
Request resource tokens and perform authentication	

Correct Answer:

The Azure Cosmos DB account
will be used to:

	▼
Create users and generate resource tokens	
Create users and request resource tokens	
Generate resource tokens and perform authentication	
Request resource tokens and perform authentication	

The .NET web service
will be used to:

	▼
Create users and generate resource tokens	
Create users and request resource tokens	
Generate resource tokens and perform authentication	
Request resource tokens and perform authentication	

QUESTION 14

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.

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You have an Azure Active Directory (Azure AD) tenant named contoso.com. The tenant contains a group named Group1. Group1 contains all the administrative user accounts.

You discover several login attempts to the Azure portal from countries where administrative users do NOT work.

You need to ensure that all login attempts to the Azure portal from those countries require Azure Multi-Factor Authentication (MFA).

Solution: Implement Azure AD Identity Protection for Group1.

Does this solution meet the goal?

A. Yes

B. No

Correct Answer: B

Instead implement Azure AD Privileged Identity Management.

Note: Azure Active Directory (Azure AD) Privileged Identity Management (PIM) is a service that enables you to manage, control, and monitor access to important resources in your organization.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-configure>

QUESTION 15

Your company has 300 virtual machines hosted in a VMware environment. The virtual machines vary in size and have various utilization levels.

You plan to move all the virtual machines to Azure.

You need to recommend how many and what size Azure virtual machines will be required to move the current workloads to Azure. The solution must minimize administrative effort.

What should you use to make the recommendation?

A. Azure Advisor

B. Azure Migrate

C. Azure Pricing calculator

D. Azure Cost Management

Correct Answer: B



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