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# SKILLCERTPRO

IT CERTIFICATION TRAININGS



Microsoft Azure / By SkillCertPro

## Practice Set 4

Your results are here!! for" Microsoft Azure AZ-305 Practice Test 4 "

51 of 75 questions answered correctly

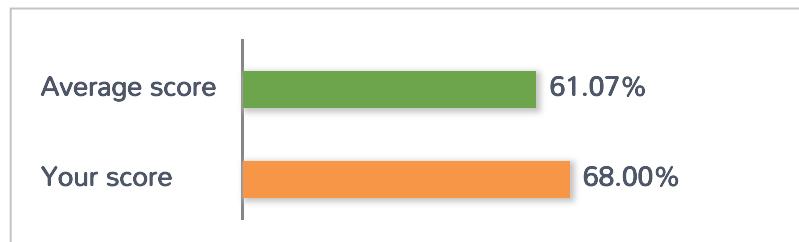
Your time: 01:11:10

Your Final Score is : 51

You have attempted : 75

Number of Correct Questions : 51 and scored 51

Number of Incorrect Questions : 24 and Negative marks 0



You can review your answers by clicking view questions.

**Important Note :** Open Reference Documentation Links in New Tab (Right Click and Open in New Tab)

[Restart Test](#)

[View Answers](#)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61
64	65	66	67	68	69	70	71	72	73	74	75							

Answered  Review

## 1. Question

A company is setting up a data storage solution for their on-premise location. They have to ensure that data is replicated to Azure.

They decide to include using Azure StorSimple as part of their storage solution

Would this fulfil the requirement?

Yes

No

### Correct

Using StorSimple is an ideal solution for this case. This is a hybrid cloud solution. The Microsoft documentation following on the usage of StorSimple

For more information on StorSimple, please visit the below URL

<https://docs.microsoft.com/en-us/azure/storsimple/storsimple-ova-overview>

## 2. Question

A company is setting up a data storage solution for their on-premise location. They have to ensure that data is replicated to Azure.

They decide to include using Azure Table storage as part of their storage solution

Would this fulfil the requirement?

Yes

No

### Correct

This is table level storage available in Azure. This is not the ideal solution for replicating data between on-premises and Azure.

For more information on Azure Table storage, please visit the below URL

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

## 3. Question

A company is setting up the required privileges for users in their Azure AD tenant. They need to assign a group the below mentioned privileges

The users should be able to manage virtual networks

They should not be allowed to manage role assignments

You need to ensure the right role is assigned based on the least privilege access.

You decide to provide the Owner role to the group

Would this fulfil the requirement?

Yes

No

#### Correct

This would also allow the users to have the ability to manage all resources and this would provide too many privileges. See snippet from the Microsoft documentation on the permissions for the role.

For more information on in-built roles, please visit the below URL

<https://docs.microsoft.com/en-us/azure/role-based-access-control/built-in-roles>

#### 4. Question

A company is setting up the required privileges for users in their Azure AD tenant. They need to assign a group the below mentioned privileges

The users should be able to manage virtual networks

They should not be allowed to manage role assignments

You need to ensure the right role is assigned based on the least privilege access.

You decide to provide the Contributor role to the group

Would this fulfil the requirement?

Yes

No

#### Correct

This would also allow the users to have the ability to manage all resources and this would provide too many privileges. See snippet from the Microsoft documentation on the permissions for the role.

For more information on in-built roles, please visit the below URL

<https://docs.microsoft.com/en-us/azure/role-based-access-control/built-in-roles>

#### 5. Question

A company is setting up the required privileges for users in their Azure AD tenant. They need to assign a group the below mentioned privileges

The users should be able to manage virtual networks

They should not be allowed to manage role assignments

You need to ensure the right role is assigned based on the least privilege access.

You decide to provide the Network Contributor role to the group

Would this fulfil the requirement?

Yes

No

### Correct

Yes, this is the ideal role which allows users to manage virtual networks but does not give them the access to assignments. Below is a snippet from the Microsoft documentation on the permissions for the role

For more information on in-built roles, please visit the below URL

<https://docs.microsoft.com/en-us/azure/role-based-access-control/built-in-roles>

## 6. Question

A company named Contoso has an on-premises active directory forest defined as Contoso.com. Contoso recently acquired another company and now have the following on-premises active directory forests:

- Contoso.com
- Fabrikam.com
- Resist.com

They are looking at a hybrid identity model by integrating their on-premises identities from all three forests with Azure Active Directory and requires the solution to be highly available.

How would you achieve this solution?

ADConnect with a single forest, multiple sync servers to one Azure AD tenant

ADConnect with multiple forests, multiple sync servers to one Azure AD tenant

ADConnect with multiple forests, single sync server and standby staging server

ADConnect with single forest, multiple Azure AD tenants

### Incorrect

The correct answer is ADConnect with multiple forests with a single sync server and a staging server as a backup purposes, this configuration is supported and required by the use case. ADConnect with single forests is supported but does not comply with the requirements. ADConnect with multiple forests and multiple sync servers is not supported by the ADConnect architecture.

<https://docs.microsoft.com/en-us/azure/active-directory/hybrid/plan-connect-topologies>

## 7. Question

A company named Contoso has an on-premises active directory forest defined as Contoso.com. They are looking to migrate their identity model by integrating their on-premises identities with Azure Active Directory and has a requirement for Single-Sign-On (SSO). Which of the following options would suffice? Choose all that apply, each answer represents a solution.

- Active Directory Federation Services (ADFS)
- ADConnect with Pass-through authentication (PTA)
- ADConnect with hash synchronization
- Deploying a domain controller on an Azure VM (IaaS)

### Correct

ADFS, ADConnect with PTA and ADConnect with hash synchronization (PHS) can be used to achieve hybrid Single-Sign-On. Deploying a domain controller on Azure is incorrect as this will simply extend the on-premises domain controller and will not integrate the on-premises identities with Azure Active Directory and does not sync them with Azure AD.

<https://docs.microsoft.com/en-us/azure/active-directory/hybrid/whatis-hybrid-identity>

## 8. Question

A company named Contoso has an on-premises active directory forest defined as Contoso.com. They are looking to migrate their identity model by integrating their on-premises identities with Azure Active Directory and has the following requirements:

- Single-Sign-On (SSO)
- No on-premises password hashes are stored in the cloud

The company decides to deploy ADConnect (PHS) with password hash synchronization. Would this meet the requirements?

- TRUE
- FALSE

### Correct

False is correct, ADConnect with hash synchronization will not meet the requirements as this solution will sync on-premises password hashes to Azure AD. The correct solution would be ADConnect with pass-through authentication because with this method on-premises passwords (and password hashes) are never stored in the cloud.<https://docs.microsoft.com/en-us/azure/active-directory/hybrid/whatis-phs>

## 9. Question

A company named skillcertlabs currently has an on-premise Active Directory Forest. They have recently setup AD Connect and also setup Azure AD Connect. They have currently procured Premium P1 licences.

Which of the following features could result in reducing the operational overhead when it comes to managing credentials?

Self-service password reset

Access review

Password writeback

Azure AD Privileged Identity Management policies

### Correct

If users get locked or forget their password, you can use the self-service password reset with writeback option in the Microsoft documentation. And these features are included as part of Premium P1 licences.

Option B is incorrect since this is only when you want to conduct reviews for existing users.

Option D is incorrect since this requires Premium P2 licensing

For more information on self-service password reset, please visit the below URL

<https://docs.microsoft.com/en-us/azure/active-directory/authentication/concept-sspr-licensing>

## 10. Question

A company named skillcertlabs has just setup an Azure AD tenant. They need to deploy 2 applications to Azure OnlineForum. Below are the key authentication requirements for the applications

OnlineQuiz Application – Users should be able to authenticate using a personal Microsoft account and multi-factor using other providers such as facebook.

OnlineForum Application – Users should be able to authenticate using either a personal Microsoft account or accounts of skillcertlabs. The accounts should be managed via Azure AD

Which authentication mechanism would you recommend for the OnlineQuiz application?

Azure AD B2C

Azure AD B2B

An Azure AD v1.0 endpoint

An Azure AD v2.0 endpoint

### Correct

If you look at the authentication providers possible with Azure B2C, you can see that you can use a Microsoft account provided in the Microsoft documentation.

It also supports Multi-factor authentication as shown below

Option B is incorrect since this is normally used when you want to allow authentication of users from other domains.

Options C and D are incorrect since this is normally only used for Microsoft based accounts

For more information on Azure B2C, please visit the below URL

<https://docs.microsoft.com/en-us/azure/active-directory-b2c/active-directory-b2c-overview>

## 11. Question

A company named skillcertlabs has just setup an Azure AD tenant. They need to deploy 2 applications to Azure OnlineForum. Below are the key authentication requirements for the applications

OnlineQuiz Application – Users should be able to authenticate using a personal Microsoft account and multi-factor using other providers such as facebook.

OnlineForum Application – Users should be able to authenticate using either a personal Microsoft account or of skillcertlabs. The accounts should be managed via Azure AD

Which authentication mechanism would you recommend for the OnlineForum application?

Azure AD B2C

Azure AD B2B

An Azure AD v1.0 endpoint

An Azure AD v2.0 endpoint

### Incorrect

Azure AD v2.0 endpoint is best suited for this, since it supports both Work and personal accounts as shown. Option A is incorrect since this is normally used for user authentication with other identity providers besides Microsoft. Option B is incorrect since this is normally used when you want to allow authentication of users from other companies. Option C is incorrect since it does not support Personal accounts.

For more information on the Microsoft identity platform, please visit the below URL

<https://docs.microsoft.com/en-us/azure/active-directory/develop/about-microsoft-identity-platform>

## 12. Question

A company needs to create a series of data stores in Azure. Below are the requirements for the different data stores:

DataStore1 – This data store needs to store table like data. The data needs to be available 99.99% of the time and provide less than 10ms latency for reads and less than 15ms latency for writes.

DataStore2 – This would be used to store petabytes of data. You should be able to run complex queries across the data.

Which of the following could be used to hold the data for DataStore1?

Azure SQL database

Azure Storage Accounts

Azure CosmosDB

Azure SQL Datawarehouse

**Incorrect**

Azure CosmosDB can both provide the required SLA and the required latency for reads and writes.

The Microsoft documentation mentions the following

Since this is clearly given in the Microsoft documentation, all other options are incorrect

For more information on table storage, please go to the below URL

<https://docs.microsoft.com/en-us/azure/cosmos-db/table-introduction>

**13. Question**

A company needs to create a series of data stores in Azure. Below are the requirements for the different data stores:

DataStore1 – This data store needs to store table like data. The data needs to be available 99.99% of the time, provide less than 10ms latency for reads and less than 15ms latency for writes.

DataStore2 – This would be used to store petabytes of data. You should be able to run complex queries across the data.

Which of the following could be used to hold the data for DataStore2?

- Azure SQL database
- Azure Storage Accounts
- Azure CosmosDB
- Azure SQL Datawarehouse

**Correct**

The ideal solution for this is the SQL Datawarehouse

The Microsoft documentation mentions the following

Since this is clearly given in the Microsoft documentation, all other options are incorrect

For more information on Azure SQL datawarehouse, please go to the below URL

<https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-overview-what-is>

**14. Question**

A company needs to create a site-to-site VPN connection with an Azure virtual network. They want to implement high availability for the connection. Hence, they decide to implement an active-active configuration for the site-to-site connection.

How many public IP address need to be defined for such a setup?

- 1
- 2
- 3
- 4

**Incorrect**

Since we need an active-active configuration, we need to 2 public IP addresses.

An example of this is given in the Microsoft documentation.

Since this is clearly mentioned in the documentation, all other options are incorrect

For more information on configuring active-active VPN gateways, please go to the below URL

<https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-activeactive-rm-powershell>

**15. Question**

A company needs to create a site-to-site VPN connection with an Azure virtual network. They want to implement high availability for the connection. Hence, they decide to implement an active-active configuration for the site. Which of the following could be used as SKU's for the VPN gateway in Azure? Choose 3 answers from the options

 Basic VpnGw1 VpnGw2 VpnGw3**Correct**

The applicable SKUs are given in the Microsoft documentation

For more information on configuring active-active VPN gateways, please go to the below URL

<https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-activeactive-rm-powershell>

**16. Question**

A company needs to create a storage account.

The storage account must meet the following requirements

- Ensure that the documents can be stored in the storage account
- The documents must be made accessible via drive mappings from Azure virtual machines that run Windows
- Provide the highest possible redundancy for the documents.
- Minimize storage access costs.

Objective – Design an infrastructure strategy

Which of the following would you choose for the performance of the Storage account?

 Standard Premium General Purpose BLOB

### Incorrect

You have to use the Standard performance tier. The premium tier only allows storage of Page BLOB's.

In the below diagram you can see that if we choose Premium as the Performance option, we will have no option.

And that is the main requirement. File shares allow to have drive mappings from Azure Virtual Machines.

INSTANCE DETAILS

The default deployment model is Resource Manager, which supports the latest Azure features. You may choose to deploy using the classic deployment model instead. [Choose classic deployment model](#)

\* Storage account name: whizlabsstore

\* Location: UK South

Performance:  Standard  Premium

Account kind: StorageV2 (general purpose v2)

Replication: Locally-redundant storage (LRS)

Accounts with the selected kind, replication and performance type only support page blobs. Block blobs, append blobs, file shares, tables, and queues will not be available.

Since this is clear from the implementation, all other options are incorrect

For more information on Azure storage accounts, please go ahead and visit the below URL

<https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview>

### 17. Question

A company needs to create a storage account.

The storage account must meet the following requirements

Ensure that the documents can be stored in the storage account

The documents must be made accessible via drive mappings from Azure virtual machines that run Windows 10.

Provide the highest possible redundancy for the documents.

Minimize storage access costs.

Which of the following would you choose for the Account kind?

General Purpose v1

General Purpose v2

BLOBStorage

ObjectStorage

### Correct

If you need to use a storage account to host file shares, the consider General Purpose v2 which has support.

Microsoft recommends this storage account kind which has more features than General Purpose v2.

In the Azure portal, you would configure this as shown below

Since this is clear from the implementation, all other options are incorrect

For more information on Azure storage accounts, please go ahead and visit the below URL

<https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview>

## 18. Question

A company needs to create a storage account.

The storage account must meet the following requirements

Ensure that the documents can be stored in the storage account

The documents must be made accessible via drive mappings from Azure virtual machines that run Windows

Provide the highest possible redundancy for the documents.

Minimize storage access costs.

Which of the following would you choose for the replication?

- Locally redundant storage (LRS)
- Zone-redundant storage (ZRS)
- Geo-redundant storage (GRS)
- Read-access geo-redundant storage (RA-GRS)

### Correct

Please refer to

<https://docs.microsoft.com/en-us/azure/storage/common/storage-introduction#redundancy>

Redundancy

In order to ensure that your data is durable, Azure Storage replicates multiple copies of your data. When you account, you select a redundancy option.

Replication options for a storage account include:

Locally-redundant storage (LRS): A simple, low-cost replication strategy. Data is replicated within a single stc

Zone-redundant storage (ZRS): Replication for high availability and durability. Data is replicated synchronously across availability zones.

Geo-redundant storage (GRS): Cross-regional replication to protect against region-wide unavailability.

Read-access geo-redundant storage (RA-GRS): Cross-regional replication with read access to the replica.

Means redundancy of RA-GRS and GRS: both has same but availability of data is more in RA-GRS than GRS  
in GRS, in case of region failure, data is unavailable till Microsoft trigger failover

but in case of RA-GRS: Data for read-only, is available from secondary region all the time

Since question is also talking about “Minimize cost and as we know cost of GRS is comparatively lower than

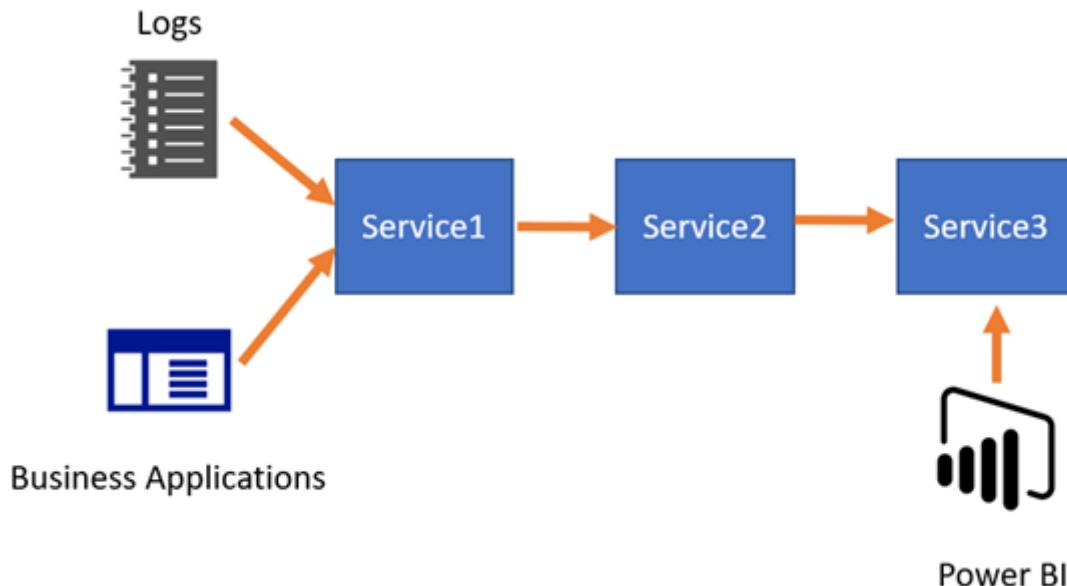
Now please refer to

<https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy-grs#read-access-geo-redundancy>

?

## 19. Question

A company needs to deploy a system that complies with the below architecture to Azure



Below is the requirement for the various services

Service1 – Orchestrate the movement of data from various log and applications sources to a large expansive

Service2 – Sustainable data store for taking large amounts of data

Service3 – Large data store with the ability to analyze and visualize data with Power BI

Which of the following would you use for Service1?

- Azure Databricks
- Azure Data Factory
- Azure Analysis Services
- Azure SQL Data Warehouse
- Azure Data Lake Storage

### Correct

You can use the Azure Data Factory for this purpose.

The Microsoft documentation mentions the following on Azure Data Factory

A sample architecture for such a scenario is also given in the Microsoft documentation

Since this is clearly given as an example, all other options are incorrect

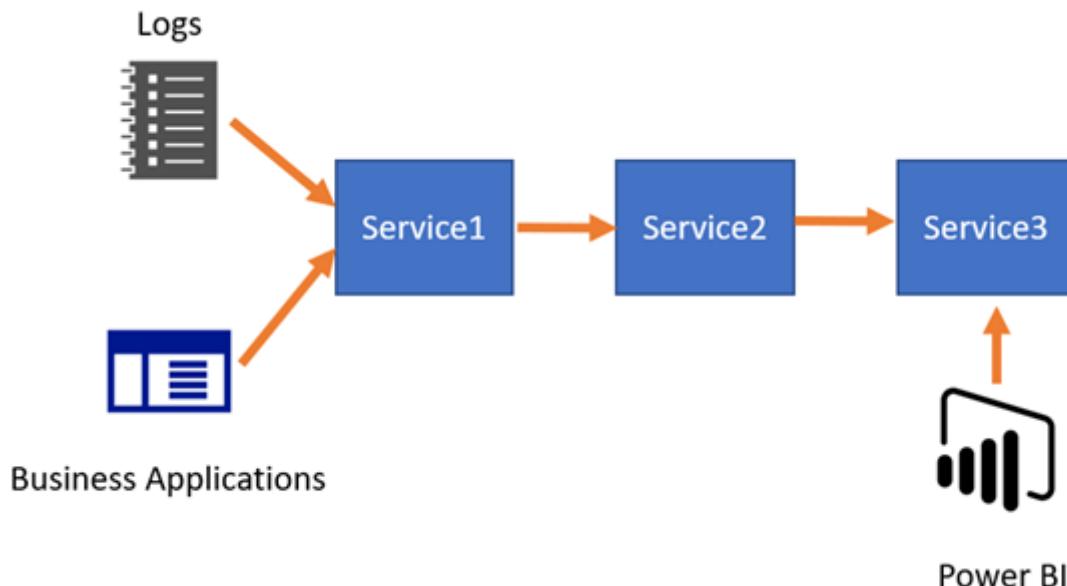
For more information on Azure Data Factory and for the sample architecture, please go ahead and visit the b

<https://docs.microsoft.com/en-us/azure/data-factory/introduction>

<https://azure.microsoft.com/en-in/solutions/architecture/modern-data-warehouse/>

## 20. Question

A company needs to deploy a system that complies with the below architecture to Azure



Below is the requirement for the various services

Service1 – Orchestrate the movement of data from various log and applications sources to a large expansive

Service2 – Sustainable data store for taking large amounts of data

Service3 – Large data store with the ability to analyze and visualize data with Power BI

Which of the following would you use for Service2?

- Azure Databricks
- Azure Data Factory
- Azure Analysis Services
- Azure SQL Data Warehouse
- Azure Data Lake Storage

**Correct**

An ideal solution for an expansive data storage solution is Data Lake storage

The Microsoft documentation mentions the following on Azure Data Lake Storage

A sample architecture for such a scenario is also given in the Microsoft documentation

Since this is clearly given as an example, all other options are incorrect

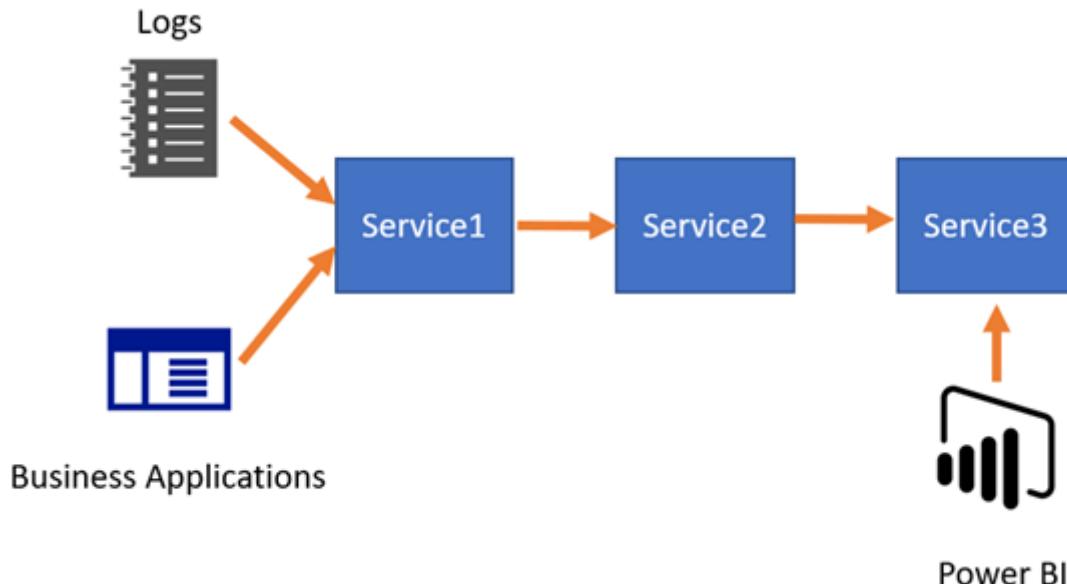
For more information on data lake storage and for the sample architecture, please go ahead and visit the bel

<https://docs.microsoft.com/en-us/azure/storage/blobs/data-lake-storage-introduction>

<https://azure.microsoft.com/en-in/solutions/architecture/modern-data-warehouse/>

## 21. Question

A company needs to deploy a system that complies with the below architecture to Azure



Below is the requirement for the various services

Service1 – Orchestrate the movement of data from various log and applications sources to a large expansive

Service2 – Sustainable data store for taking large amounts of data

Service3 – Large data store with the ability to analyze and visualize data with Power BI

Which of the following would you use for Service3?

- Azure Databricks
- Azure Data Factory
- Azure Analysis Services
- Azure SQL Data Warehouse
- Azure Data Lake Storage

#### Incorrect

An ideal data store that can store large amounts of data with an integration with Power BI is the SQL Data V

A sample architecture for such a scenario is also given in the Microsoft documentation

Since this is clearly given as an example, all other options are incorrect

For more information on the integration between SQL Data warehouse and Power BI and for the sample arc ahead and visit the below URL

<https://powerbi.microsoft.com/en-us/integrations/azure-sql-data-warehouse/>

<https://azure.microsoft.com/en-in/solutions/architecture/modern-data-warehouse/>

#### 22. Question

A company needs to deploy an application to a set of virtual machines. Below are the key requirements for the application:

- Ensure an SLA of 99.99% overall for the application
- The application would require a data store for storage of images uploaded by users
- Ensure that only a group of IT administrators have the required permissions to restart the virtual machine

Which of the following could be used to achieve the requirement of high availability?

- Azure Availability sets
- Azure Basic Load Balancer
- Azure Standard Load Balancer
- Azure Availability zones

### Correct

You can achieve an availability of 99.95% with the help of availability zones.

The Microsoft documentation mentions the following

Option A is incorrect because this only provides an SLA of 99.95%

Options B and C are incorrect since these are used for distributing the load onto the virtual machines

For more information on Azure availability zones, please go to the below URL

<https://docs.microsoft.com/en-us/azure/availability-zones/az-overview>

## 23. Question

A company needs to deploy an application to a set of virtual machines. Below are the key requirements for the application:

Ensure an SLA of 99.99% overall for the application

The application would require a data store for storage of images uploaded by users

Ensure that only a group of IT administrators have the required permissions to restart the virtual machine

Which of the following would ensure the following requirement?

“Ensure that only a group of IT administrators have the required permissions to restart the virtual machine”

- Role Based Access Control
- Policies
- OAuth
- Azure AD Connect

### Correct

You can create fine grained access control with the help of role-based access control

The Microsoft documentation mentions the following

Option B is incorrect because this is used from a governance perspective

Option C is incorrect because this is an authentication technique

Option D is incorrect because this is used to synchronize your on-premise Active directory with Azure AD

For more information on Role based access control, please go to the below URL

<https://docs.microsoft.com/en-us/azure/role-based-access-control/overview>

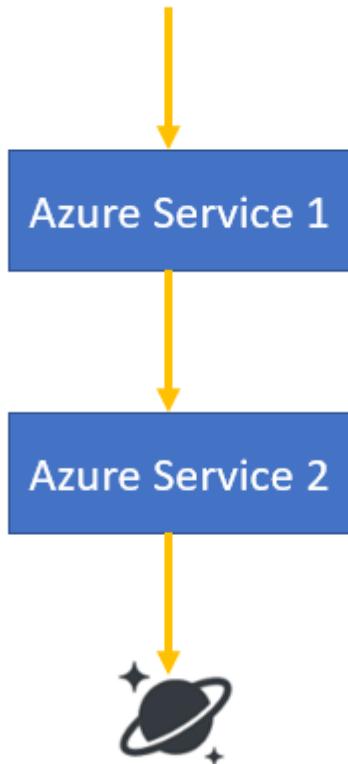
## 24. Question

A company needs to design an architecture that would meet the below requirements

Capture data with regards to creation of users and assignment of roles in their Azure account

All captured data must be sent to a CosmosDB account

You have to complete the below architecture diagram to fulfil the above requirements.



Which of the following would you suggest for Azure Service 1?

Azure Event Grid

Azure Event Hubs

Azure Functions

Azure Log Analytics

Azure Notification Hubs

**Correct**

The Event Grid service is ideal for capturing different sort of events in Azure. So, since you need to capture the creation of users and assignment of roles, you can use the Event Grid service. The diagram representation

Grid service is given below.

So, on the left-hand side, you have different Azure resources for which you can receive events. And on the right-hand side, you have consumers. The event grid service can send data about the event onto the consumers.

Option B is incorrect since this is a Big data ingestion service

Option C is incorrect since this is a serverless compute service

Option D is incorrect since this is used for analysis of data sent to the log service in Azure

Option E is incorrect since this is a purely notification-based service

For more information on Azure Event Grids, please visit the below URL

<https://docs.microsoft.com/en-us/azure/event-grid/overview>

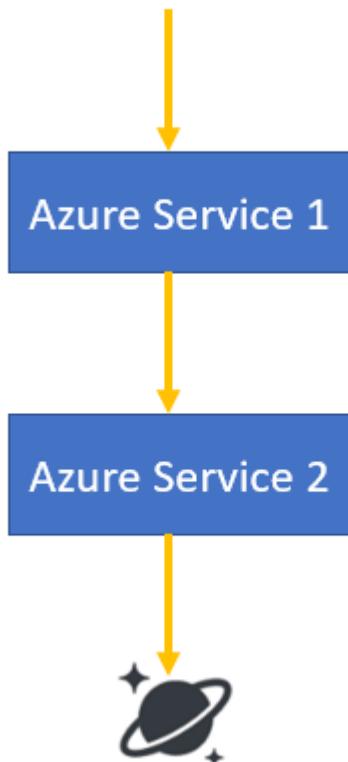
## 25. Question

A company needs to design an architecture that would meet the below requirements

Capture data with regards to creation of users and assignment of roles in their Azure account

All captured data must be sent to a CosmosDB account

You have to complete the below architecture diagram to fulfil the above requirements.



Which of the following would you suggest for Azure Service 2?

- Azure Event Grid
- Azure Event Hubs
- Azure Functions
- Azure Log Analytics

- Azure Notification Hubs

### Correct

Azure Functions is an ideal consumer for this requirement. The Azure Function can be programmed to receive data from Event Grid and then send it across to CosmosDB.

Option A is incorrect since this is the service to receive the data

Option B is incorrect since this is a Big data ingestion service

Option D is incorrect since this is used for analysis of data sent to the log service in Azure

Option E is incorrect since this is a purely notification-based service

For more information on Azure Event Grid bindings for Azure Functions, please visit the below URL

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-bindings-event-grid>

## 26. Question

A company needs to design and deploy an application onto Azure. They want to base the design on a microservices design pattern. For deployment, they want to have a microservices based platform on Azure for hosting their application. The application itself would be an ecommerce application with modules for managing user accounts, shopping cart, etc. Which of the following could they use for hosting the application?

- Azure Functions
- Azure Service Fabric
- Azure Web Apps
- Azure Logic Apps

### Correct

The ideal solution for this is Azure Service Fabric. The Microsoft documentation mentions the following:

Option A is incorrect because this is a serverless platform for hosting code

Option C is incorrect because this is primarily used as a platform for hosting web applications

Option D is incorrect because this is a workflow-based service

For more information on Azure Service Fabric, please go ahead and visit the below URL

<https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-overview-microservices>

## 27. Question

A company needs to design and deploy an application onto Azure. They want to base the design on a microservices design pattern. For deployment, they want to have a microservices based platform on Azure for hosting their application. The application itself would be an ecommerce application with modules for managing user accounts, shopping cart, etc. Based on the application need, what type of design pattern would you use to build the application?

Stateless Microservices Stateful Microservices Function Microservices Module Microservices

### Correct

Since the application needs to maintain the state across its lifecycle, (for example from shopping cart items to user session) we should use the Stateful microservices design pattern.

The Microsoft documentation mentions the following

Since this is clearly mentioned in the documentation, all other options are incorrect

For more information on Azure Service Fabric, please go ahead and visit the below URL

<https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-content-roadmap>

## 28. Question

A company needs to ensure that a network security group is defined for every subnet in all virtual networks and subscription. Which of the following could be used to achieve this requirement?

 Azure Advisor Azure Policies Azure RBAC Azure AD

### Incorrect

An example of this is given in the Microsoft documentation

Option A is incorrect because this is basically a recommendations engine

Option C is incorrect because this is used to set access to resources

Option D is incorrect because this is an identity provider in Azure

For more information on the example itself, please go ahead and visit the below URL

<https://docs.microsoft.com/en-us/azure/governance/policy/samples/nsg-on-subnet>

## 29. Question

A company needs to move a web application onto Azure. Below are the main requirements for the application:

The application must be available to users even if an Azure data center becomes unavailable.

Costs must be minimized.

Which of the following would you recommend?

- Deploy a load balancer and the web application in 2 Azure regions
- Deploy a Traffic Manager and the web application in 2 Azure regions
- Deploy a load balancer and a virtual machine scale set in 2 Azure regions
- Deploy a load balancer and a virtual machine scale set across two availability zones

### Correct

A Data center corresponds to the concept of availability zones. So, if you want to maintain availability even in outage, then make use of availability sets

The Microsoft documentation mentions the following with respect to availability sets

All other options are invalid, since you need to minimize costs, and you don't need to deploy resources across regions.

For more information on availability sets, please go ahead and visit the below URL

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/manage-availability>

### 30. Question

A company needs to run an application that would be processing thousands of images at the same time. The ideal compute solution designed in Azure to handle the high scale processing of the images.

You decide to implement Azure Web Apps as part of the solution

Does this meet the requirement?

- Yes
- No

### Correct

The Azure Web App service is used to run primarily web applications and cannot be used for high compute intensive processing jobs.

For more information on Azure Web Apps, please go ahead and visit the below URL

<https://azure.microsoft.com/en-us/services/app-service/web/>

### 31. Question

A company needs to setup a web application on to the Azure Web App Service. One of the key requirements is that the web application scales automatically when there is sustainable load that caused the CPU threshold to go beyond a particular threshold. The IT Admin team needs to be notified if there is an autoscale failure. Which of the following can be done to achieve this accordingly?

- Create an Analytics Log Alert
- Create an Activity Log Alert

- Create a metrics Log Alert
- Create a Threshold Alert

**Incorrect**

You can create an Activity Log Alert for this.

The Microsoft documentation mentions the following

Since this is clearly mentioned in the Microsoft documentation, all other options are incorrect

For more information on best practices for autoscaling, please visit the below URL

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/autoscale-best-practices>

**32. Question**

A company needs to setup a web application on to the Azure Web App Service. One of the key requirements scale automatically when there is sustainable load that caused the CPU threshold to go beyond a particular th Which of the following is the most cost-effective App Service Plan to use for the Azure Web App?

- Basic
- Standard
- Premium
- Isolated

**Correct**

The Autoscaling option for Web Apps is available from the Standard App Service plan onwards. Hence this v cost-effective plan.

The Microsoft documentation mentions the following

Since this is clearly mentioned in the Microsoft documentation, all other options are incorrect

For more information on Azure App Service Plans, please visit the below URL

<https://azure.microsoft.com/en-us/pricing/details/app-service/plans/>

**33. Question**

A company needs to transfer a data set to Azure. The size of the data set is around 10TB. The data needs to l Storage account. The currently line bandwidth that the company has is around 100 MBps.

After the initial data transfer, which of the following can be used for periodic transfers of MB's of data onto th account? Choose 2 answers from the options given below

- Az Copy tool
- Azure Data Factory

- Azure EventHubs
- SQL Elastic Pools

### Correct

The Microsoft documentation also mentions options on periodic data transfers

Since all the options are clearly mentioned in the documentation, all other options are incorrect

For more information on solutions for periodic data transfers, please go ahead and visit the below URL

<https://docs.microsoft.com/en-us/azure/storage/common/storage-solution-periodic-data-transfer>

### 34. Question

A company needs to transfer a data set to Azure. The size of the data set is around 10TB. The data needs to be stored in a Storage account. The current line bandwidth that the company has is around 100 MBps.

Which of the following would be the ideal solution to use for the data transfer?

- Az copy tool
- Azure Data Factory
- Azure Data Box
- Azure Powershell

### Correct

Here the size of the data set is large, and the bandwidth is small. Hence doing an offline transfer with the Azure Data Box is the ideal approach.

The Microsoft documentation also gives a recommendation on when to use the service

The other options are incorrect since an online transfer would just take too long.

For more information on transferring large data sets over a limited bandwidth network, please go ahead and visit

<https://docs.microsoft.com/en-us/azure/storage/common/storage-solution-large-dataset-low-network>

### 35. Question

A company wants to create a set of virtual machines in Azure. These would be Windows virtual machines that host a web-based application. The company wants to achieve an availability of 99.99% for the virtual machines.

They decide to implement availability sets for the virtual machines.

Would this satisfy the requirement?

- Yes
- No

### Incorrect

Using Availability sets would help achieve an availability of 99.95% and not 99.99%.

For more information on availability sets, please visit the below URL

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/manage-availability#use-availability-zones-datacenter-level-failures>

### 36. Question

A company wants to create a set of virtual machines in Azure. These would be Windows virtual machines that web-based application. The company wants to achieve an availability of 99.99% for the virtual machines.

They decide to implement availability zones for the virtual machines.

Would this satisfy the requirement?

Yes

No

#### Incorrect

Yes, by deploying the virtual machines across availability zones, you can achieve an availability of 99.99%

The Microsoft documentation mentions the following

For more information on availability zones, please visit the below URL

<https://docs.microsoft.com/en-us/azure/availability-zones/az-overview>

### 37. Question

A company wants to create a set of virtual machines in Azure. These would be Windows virtual machines that web-based application. The company wants to achieve an availability of 99.99% for the virtual machines.

They decide to implement Azure Load balancers for the virtual machines.

Would this satisfy the requirement?

Yes

No

#### Correct

Azure Load balancers are primarily used to distribute traffic across virtual machines. They can add high availability architecture but does not guarantee an availability of 99.99% for the virtual machines.

For more information on Azure Load balancers, please visit the below URL

<https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-overview>

### 38. Question

A company wants to deploy a web solution to Azure. The web solution would be hosted on a set of Azure Virtual Machines. The company wants to ensure that end user load is distributed across the virtual machines. The virtual machine requests from the user should be done in such a manner that it provides the least latency for the request and response. Which of the following would you consider as the service to implement as part of this architecture?

Azure Application Gateway

**Azure Traffic Manager**

Azure Load Balancer

Azure CosmosDB

### Correct

You can use the Azure Traffic Manager service. You can use the Performance Routing method to route traffic based on network latency. So, the virtual machine which offers the least network latency for the user will serve the user request.

The Microsoft documentation mentions the following:

Options A and C are incorrect since these load balancing solutions can't distribute traffic based on a rule such as network latency.

Option D is incorrect since this is a data storage solution.

For more information on the Azure Traffic Manager service, please visit the below URL:

<https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-overview>

### 39. Question

A company wants to deploy a web solution to Azure. The web solution would be hosted on a set of Azure Virtual Machines. The company wants to ensure that end user load is distributed across the virtual machines. The virtual machine requests from the user should be done in such a manner that it provides the least latency for the request and response. Based on the service chosen in Question 4, which of the following would you use as the feature to implement this?

SSL offloading

**Routing Method**

NAT Rules

Path based rules

### Correct

Since we are going to be using the Traffic Manager service, we have to use the Routing methods available via the Traffic Manager service.

The Microsoft documentation mentions the following:

All of the other options are incorrect since these are not linked to the Traffic Manager service.

For more information on the Azure Traffic Manager routing methods, please visit the below URL:

<https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-routing-methods>

## 40. Question

A company wants to deploy an application to Azure. The application has the below requirements

Give the ability to install and provide access to the full .Net framework

Allow administrative access to the operating system

Provide a level of redundancy if an Azure region fails

You decide to deploy 2 Azure Virtual Machines in 2 separate regions. And then you create a Traffic Manager profile.

Does this solution meet the requirement?

Yes

No

### Incorrect

Yes, this will meet all the requirements. Since you are using Azure Virtual Machines, IT administrators can grant administrative access. You can also then get the required access to the underlying software including the .Net framework.

Using a Traffic Manager profile along with the failover routing policy can ensure the requirement for redundancy.

For more information on Azure Traffic Manager, please visit the below URL

<https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-overview>

## 41. Question

A company wants to deploy an application to Azure. The application has the below requirements

Give the ability to install and provide access to the full .Net framework

Allow administrative access to the operating system

Provide a level of redundancy if an Azure region fails

You decide to deploy a web app using the Isolated App Service plan

Does this solution meet the requirement?

Yes

No

### Correct

The Isolated App Service Plan provides a dedicated infrastructure, but will not fulfil the key requirements.

For more information on the Isolated App Service Plan, please visit the below URL

<https://azure.microsoft.com/en-us/blog/announcing-app-service-isolated-more-power-scale-and-ease-of-use/>

## 42. Question

A company wants to deploy an application to Azure. The application has the below requirements

Give the ability to install and provide access to the full .Net framework

Allow administrative access to the operating system

Provide a level of redundancy if an Azure region fails

You decide to deploy 2 Azure Virtual Machines in 2 separate regions. And then you create an Azure Load balancer

Does this solution meet the requirement?

Yes

No

### Correct

A Load balancer can't distribute traffic across regions and hence this solution will not meet the requirement.

For more information on the Azure Load Balancer, please visit the below URL

<https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-standard-overview>

### 43. Question

A company wants to make use of a data storage solution in Azure. The data storage solution must have the capability to store archive-based documents. The storage solution must offer a cost-effective solution for long term storage of the data. Based on the storage solution, which of the following would you choose as the data storage type?

Azure CosmosDB – SQL API

Azure SQL Database – Elastic Pools

Azure Storage Accounts – General Purpose v1

Azure Storage Accounts – General Purpose v2

Azure SQL Database warehouse – Gen2

### Correct

Since we need to use Azure Storage Accounts for this requirement, we have to choose General Purpose v2.

The Microsoft documentation mentions the following on the support for tiering

Since this is the ideal option, all other options are incorrect

For more information on Azure Blob storage tiers, please go to the below URL

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers>

### 44. Question

A company wants to make use of a data storage solution in Azure. The data storage solution must have the capability to store archive-based documents. The storage solution must offer a cost-effective solution for long term storage of the data. Which of the following would you choose as the underlying data storage solution?

- Azure CosmosDB
- Azure SQL Database
- Azure Storage Accounts
- Azure SQL Datawarehouse

### Correct

All other options are incorrect since these are not meant for storage of documents or files. You can use the B with Azure storage accounts for storage of archive-based documents.

The Microsoft documentation mentions the following

For more information on Azure Blob storage tiers, please go to the below URL

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers>

## 45. Question

A company wants to migrate a set of resources from their on-premise data center onto Azure. Below are the application

Name Requirement

skillcertlabappA This application is based entirely on docker containers. The underlying service must provide the containers and also provide automatic scaling.

skillcertlabappB This is a web-based application. The application needs to be ported to a service which can scale. Minimum administrative overhead is expected.

skillcertlabappC This application needs to run on demand. The solution must focus on minimizing costs.

Which of the following would you consider for hosting the application “skillcertlabappA”?

- Azure Functions
- Azure Logic Apps
- Azure Kubernetes
- Azure Virtual Machines
- Azure Web Apps

### Correct

If you are looking for a fully managed service to host docker based applications, then look towards using the service

The Microsoft documentation mentions the following

Option A is incorrect because this is a serverless service that is used to run code on Azure

Option B is incorrect because this is a workflow-based service

Option D is incorrect because even though you can host Kubernetes on a virtual machine, it wouldn't be a fu

Option E is incorrect because this is used for hosting web applications. It can host docker based web application. A service to manage the containers, using Kubernetes is more ideal.

For more information on Kubernetes, please visit the below URL

<https://azure.microsoft.com/en-in/topic/what-is-kubernetes/>

## 46. Question

A company wants to migrate a set of resources from their on-premise data center onto Azure. Below are the requirements:

Name Requirement

skillcertlabappA This application is based entirely on docker containers. The underlying service must provide the containers and also provide automatic scaling.

skillcertlabappB This is a web-based application. The application needs to be ported to a service which can scale automatically. Minimum administrative overhead is expected.

skillcertlabappC This application needs to run on demand. The solution must focus on minimizing costs.

Which of the following would you consider for hosting the application “skillcertlabappB”?

- Azure Functions
- Azure Logic Apps
- Azure Kubernetes
- Azure Virtual Machines
- Azure Web Apps

### Correct

You can use the managed service of Azure App Service to deploy your web-based application.

The Microsoft documentation mentions the following:

Option A is incorrect because this is a serverless service that is used to run code on Azure.

Option B is incorrect because this is a workflow-based service.

Option C is incorrect because this is an orchestration-based service for container-based applications.

Option D is incorrect because even though you can host Web applications on a virtual machine, it wouldn't be the best choice for a web application.

For more information on Azure App service, please visit the below URL

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

## 47. Question

A company wants to migrate a set of resources from their on-premise data center onto Azure. Below are the requirements:

Name Requirement

skillcertlabappA This application is based entirely on docker contains. The underlying service must provide the contains and also provide automatically scaling.

skillcertlabappB This is a web-based application. The application needs to be ported to a service which can scale. Minimum administrative overhead is expected.

skillcertlabappC This application needs to run on demand. The solution must focus on minimizing costs.

Which of the following would you consider for hosting the application “skillcertlabappC”?

Azure Functions

Azure Logic Apps

Azure Kubernetes

Azure Virtual Machines

Azure Web Apps

**Correct**

This is the ideal cost-effective solution to run code on demand on Azure.

The Microsoft documentation mentions the following

Option B is incorrect because this is a workflow-based service

Option C is incorrect because this is an orchestration-based service for container-based applications

Option D is incorrect because even though you can host applications on a virtual machine, it would be less cost effective than Azure Functions. You would just want to run code on demand.

Option E is incorrect because this is used as a platform for hosting web-based applications. We could use this as a temporary solution, but this would not be effective from a costing perspective.

For more information on Azure Functions, please visit the below URL

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-overview>

## 48. Question

A company wants to migrate an existing application onto Azure. The application currently runs as docker base.

The company has setup the following

A Virtual network

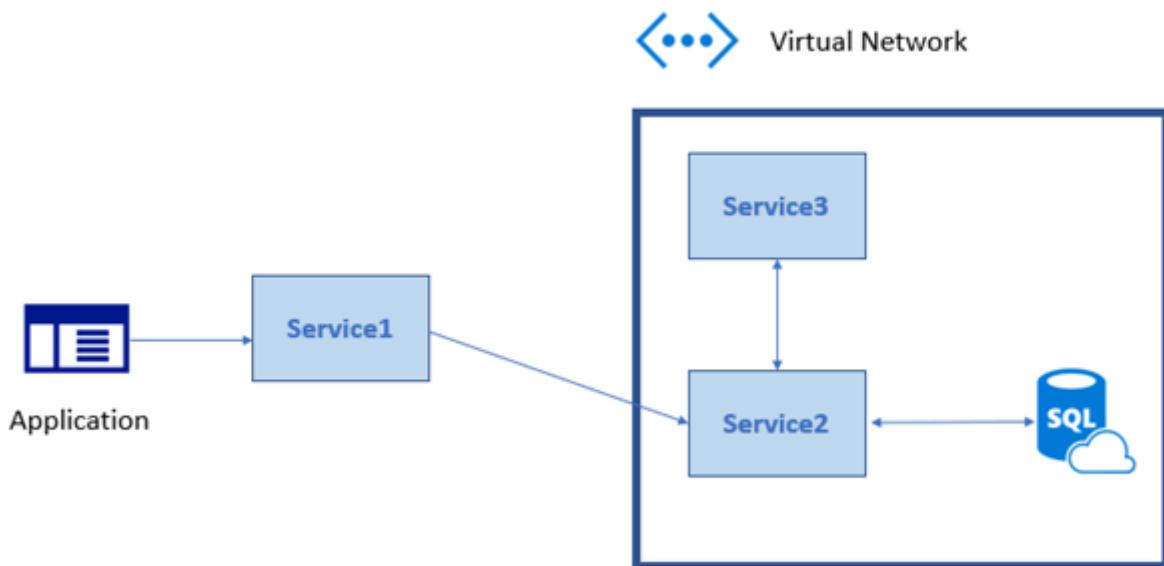
An Azure SQL database as the data store

They also need the following services

Service1- This service should be a fully managed service capable of storing the images for the application

Service2- This service should be able to manage and scale the application

Service3 – This service should be able to control access to the resources for Service2



Which of the following would you consider for Service3?

- Azure Kubernetes
- Azure Container Registry
- Azure AD
- Azure Storage Account

#### Correct

You can use Azure AD to control access to Azure Kubernetes resources

The Microsoft documentation also has an article on how this can be accomplished

An example of such an architecture is also given in the Microsoft documentation

Since this is the ideal approach, all other options are incorrect

For more information on integrating Azure Kubernetes with Azure AD and the sample architecture, please go to

<https://docs.microsoft.com/en-us/azure/aks/azure-ad-integration>

<https://azure.microsoft.com/en-in/solutions/architecture/migrate-existing-applications-with-aks/>

#### 49. Question

A company wants to migrate an existing application onto Azure. The application currently runs as docker base

The company has setup the following

A Virtual network

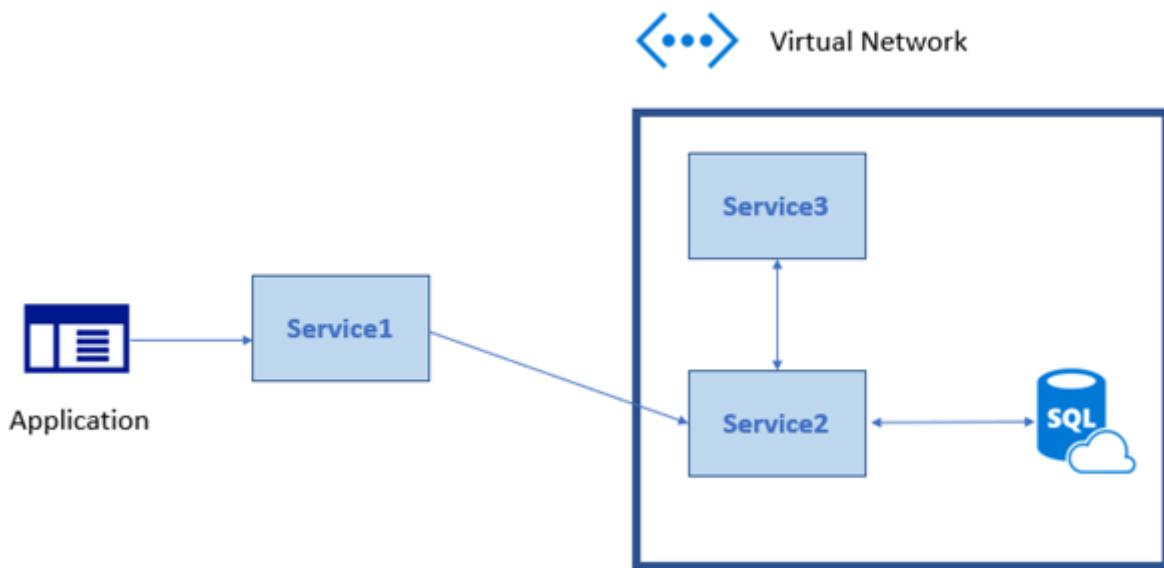
An Azure SQL database as the data store

They also need the following services

Service1- This service should be a fully managed service capable of storing the images for the application

Service2- This service should be able to manage and scale the application

Service3 – This service should be able to control access to the resources for Service2



Which of the following would you consider for Service2?

Azure Kubernetes

Azure Container Registry

Azure AD

Azure Storage Account

### Correct

You can use Azure Kubernetes to manage your docker based applications.

The Microsoft documentation mentions the following on Azure Kubernetes

An example of such an architecture is also given in the Microsoft documentation

Since this is the ideal approach, all other options are incorrect

For more information on the Azure Kubernetes and the sample architecture, please go to the below URL

<https://azure.microsoft.com/en-in/topic/what-is-kubernetes/>

<https://azure.microsoft.com/en-in/solutions/architecture/migrate-existing-applications-with-aks/>

## 50. Question

A company wants to migrate an existing application onto Azure. The application currently runs as docker base

The company has setup the following

A Virtual network

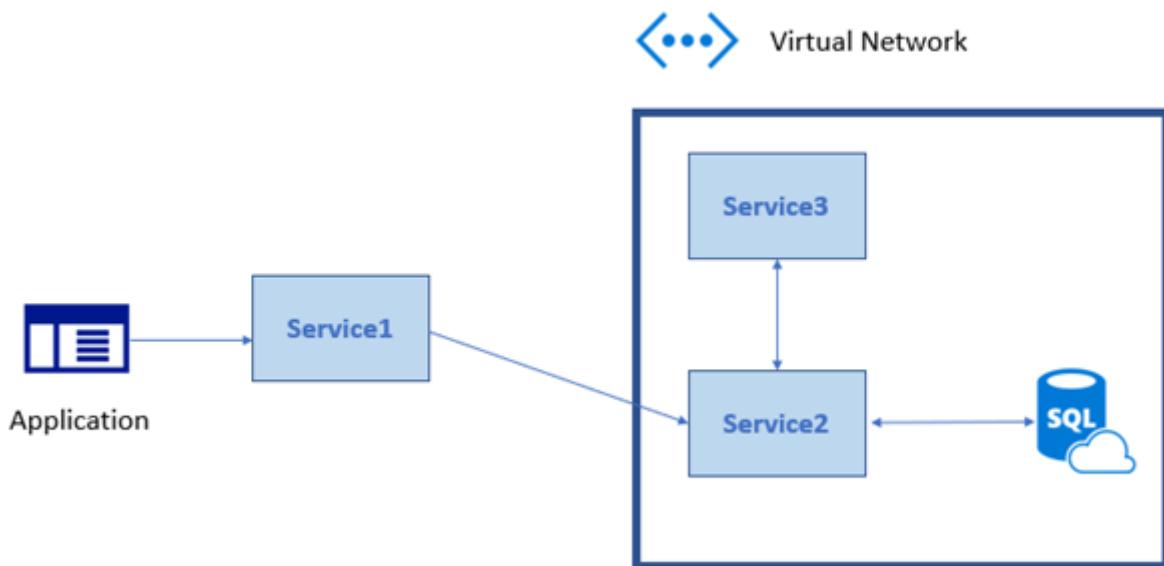
An Azure SQL database as the data store

They also need the following services

Service1- This service should be a fully managed service capable of storing the images for the application

Service2- This service should be able to manage and scale the application

Service3 – This service should be able to control access to the resources for Service2



Which of the following would you consider for Service1?

- Azure Kubernetes
- Azure Container Registry
- Azure AD
- Azure Storage Account

#### Incorrect

You can use the Azure Container registry to store the docker based images for your application

The Microsoft documentation mentions the following on the Azure container registry

An example of such an architecture is also given in the Microsoft documentation

Since this is the ideal approach, all other options are incorrect

For more information on the Azure container registry and the sample architecture, please go to the below UI

<https://docs.microsoft.com/en-us/azure/container-registry/container-registry-intro>

<https://azure.microsoft.com/en-in/solutions/architecture/migrate-existing-applications-with-aks/>

#### 51. Question

A company wants to migrate the following resources to Azure.

A set of Hyper-V servers running on a Hyper-V host

A set of VMware servers managed via a vCenter Server

A set of web applications

The company wants to design the solution in Azure based on the following key requirements

The capacity requirements in Azure must be determined beforehand.

Indicative costs for provisioning resources in Azure must be determined beforehand.

Wherever possible PaaS services should be used

The resources in Azure would be used across multiple departments within the company

Which of the following can be part of the design phase to determine the capacity and cost requirements for the migration?

Azure Site Recovery Agent

**Azure Migrate**

Azure Advisor

Azure Cost Management

### Incorrect

You can use the Azure Migrate tool to get an indicator on the capacity and costs for migrating VMware servers to Azure. This can be part of the design planning stage. Remember that this tool only works for VMware environments.

The Microsoft documentation mentions the following:

Option A is incorrect since this is used along with the Azure Site Recovery Service for the migration of servers.

Option C is incorrect since this is used to provide recommendations on various aspects such as Security and Compliance for your existing resources in Azure.

Option D is incorrect since this is used to view your costs over time for your Azure resources.

For more information on the Azure Migrate Tool, please visit the below URL:

<https://docs.microsoft.com/en-us/azure/migrate/migrate-overview>

## 52. Question

A company wants to migrate the following resources to Azure.

A set of Hyper-V servers running on a Hyper-V host

A set of VMware servers managed via a vCenter Server

A set of web applications

The company wants to design the solution in Azure based on the following key requirements:

The capacity requirements in Azure must be determined beforehand.

Indicative costs for provisioning resources in Azure must be determined beforehand.

Wherever possible PaaS services should be used

The resources in Azure would be used across multiple departments within the company

The company wants to segregate the billing of Azure resources across the multiple departments in the company. Which of the following could be used to fulfil this requirement?

Azure policies

**Resource tags**

Azure Advisor

Azure Locks

### Correct

Tags can be used as an effective means for billing purposes. The Microsoft documentation mentions the following:  
In the Cost Analysis section, you can actually create a filter based on the tag as shown below.

Option A is incorrect since this is used mainly from a governance perspective

Option C is incorrect since this is used to provide recommendations for the resources hosted in Azure

Option D is incorrect since this is used to prevent the accidental modification or deletion of resources

For more information on resource group tags, please go to the below URL

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

### 53. Question

A company wants to run a series of tasks using the Azure Batch service. They have the following key requirements:

Large-scale parallel execution of Azure Batch jobs.

Minimize costs to run the solution

Which of the following would you consider implementing for the Virtual Machines for running the Batch jobs?

- Basic A series Virtual Machines
- Use Virtual Machines that support Message Passing Interface (MPI)
- Low priority virtual machines
- Burstable virtual machines

### Incorrect

The Azure Batch service already gives you the capability of running processes in parallel. If you want to ensure large-scale parallel execution for your solution, then you can consider using low priority nodes.

Option A is incorrect since this is not supported as per the Microsoft documentation as given below

Option B is incorrect since this is used if you have tightly coupled workloads that need to run on the Azure Batch service.

Option D is incorrect since this is used if you have unpredictable workloads to run in Azure.

For more information on an example of using the Azure Batch service, please go ahead and visit the below URL

<https://docs.microsoft.com/en-us/azure/batch/tutorial-parallel-dotnet>

### 54. Question

A company wants to setup a storage account in Azure. Below are the primary requirements:

Ability to store documents

Be available in the event of a data center failure

Minimize on costs

Which of the following would you choose as the replication strategy for the storage account?

- Locally redundant storage (LRS)

Zone-redundant storage (ZRS) Geo-redundant storage (GRS) Read-access geo-redundant storage (RA-GRS)**Correct**

Here the most cost-effective replication technique would be Zone-redundant storage (ZRS).

The Microsoft documentation mentions the following

Option A is incorrect since this would not make data available in the event of a data center failure

Options C and D are incorrect since these are not cost-effective replication strategies based on the requirement

For more information on Azure storage account replication, please go to the below URL

<https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy>

**55. Question**

A company wants to setup the following architecture in Azure

A web application hosted on a set of two virtual machines

Users would be accessing the web application via the URL <https://skillcertlabs.com>

A database hosted on a set of two virtual machines

The database would be listening for connections on port 1433

A Public facing load balancer for the web application layer

An Internal load balancer for the database layer

How many frontend IP addresses need to be assigned to the public load balancer?

 0 1 2 4**Incorrect**

Since the users would be accessing the application via a secure URL, that means the load balancer needs to listen on port 443. Hence here we just need one frontend IP configuration.

Since this is the ideal approach, all other options are incorrect

For more information on the Azure Load balancer, please go ahead and visit the below URL

<https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-overview>

**56. Question**

A startup company named Contoso Security has recently adopted Azure as their cloud platform of choice. They are a cloud-first company with all identity and services running on Azure Active Directory and have a strong focus on security.

automation. There are currently 800 users in the organization. They have the following requirements:

- Cloud authentication which includes pass-through auth, password hash sync, seamless SSO.
- Self-Service Password Change for cloud users
- Most cost-effective solution

Which of the following licenses would suffice?

Free Tier

Office365 Apps

Premium P1

Premium P2

### Incorrect

Azure AD Free tier is correct; all of the mentioned features are supported by Azure AD Free tier which is the most cost-effective solution. The other Azure AD tiers also support the requirements however there are costs associated with them either directly or indirectly. Premium P1 and P2, or indirectly with Office365Apps which relies on Office 365 which was not mentioned in the requirements.

[https://azure.microsoft.com/en-us/pricing/details/active-](https://azure.microsoft.com/en-us/pricing/details/active-directory/)

[directory/#:~:targetText=Azure%20Active%20Directory%20comes%20in,the%20Cloud%20Solution%20Provides%20the%20ability%20to%20automate%20the%20management%20of%20users%20and%20groups%20through%20conditional%20access%20policies.](https://azure.microsoft.com/en-us/pricing/details/active-directory/#:~:targetText=Azure%20Active%20Directory%20comes%20in,the%20Cloud%20Solution%20Provides%20the%20ability%20to%20automate%20the%20management%20of%20users%20and%20groups%20through%20conditional%20access%20policies.)

## 57. Question

A startup company named Contoso Security has recently adopted Azure as their cloud platform of choice. Contoso Security is a cloud-first company with all identity and services running on Azure Active Directory and have a strong focus on automation. There are currently 800 users in the organization. They have the following requirements:

- Automatically add or remove users to certain groups in Azure AD based on specified criteria
- Multi-Factor authentication based on specific requirements
- Most cost-effective solution

Which of the following licenses would suffice?

Free Tier

Office365 Apps

Premium P1

Premium P2

### Incorrect

Premium P1 license is correct as this is the minimum license required to make use of Azure AD dynamic groups with conditional access policies. The Free tier and Office 365 Apps do not support Azure AD dynamic groups with conditional access. Premium P2 supports the requirements however it has a higher price tag associated with it.

<https://azure.microsoft.com/en-us/pricing/details/active-directory/#:~:targetText=Azure%20Active%20Directory%20comes%20in,the%20Cloud%20Solution%20Pr>

## 58. Question

A team has a .Net application that needs to run on a Virtual machine. The application on the Virtual machine needs to use the same Azure AD Identity.

In order to generate a request token, which of the following would be used?

- Azure AD v1.0 endpoint
- Azure AD v2.0 endpoint
- OAuth2 endpoint
- Azure Instance Metadata Service Identity

### Incorrect

To generate the token, you have to use the Azure Instance Metadata Service Identity. The workflow is also given in the Microsoft documentation

Since this is clearly given in the Microsoft documentation, all other options are incorrect

For more information on Managed service identities, please go ahead and visit the below URL

<https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/overview>

## 59. Question

A team has a .Net application that needs to run on a Virtual machine. The application on the Virtual machine needs to use the same Azure AD Identity.

Which of the following would be done to provision the Azure AD Identity?

- Create a system-assigned Managed Service Identity
- Register a web application in Azure AD
- Register an Enterprise application in Azure AD
- Create a user-assigned Managed Service Identity

### Incorrect

Here we can simply use a system assigned Managed Service Identity. This can be done for the Virtual machine. The Microsoft documentation mentions the following

Option D is incorrect since we just have a single virtual machine that needs an identity provisioned in Azure, so we can't use a user-assigned identity. Options B and C are incorrect because you need to use Managed service identities.

For more information on Managed service identities, please go ahead and visit the below URL  
<https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/overview>

## 60. Question

A team has an application that receives data from IoT based devices. The data is sent to CosmosDB which uses notification needs to be sent when data is received from the IoT devices. Which of the following can be part of the implementation? Choose 2 answers from the options given below

Deploy an Azure Logic App that has an Azure CosmosDB connector

Deploy a function App that has an Azure CosmosDB connector

Ensure the Azure Logic App uses a SendGrid action

Ensure the Azure Function App uses a SendGrid action

### Correct

You can use the CosmosDB connector for Azure Logic App to trigger a workflow when data is sent to CosmosDB. Microsoft documentation mentions the following:

You can use SendGrid to send emails from the Log App. The Microsoft documentation mentions the following:

Options B and D are incorrect since you would need to use Azure Logic Apps to build a workflow.

For more information on the connectors, please visit the below URL

<https://docs.microsoft.com/en-us/connectors/documentdb/>

<https://docs.microsoft.com/en-us/azure/connectors/connectors-create-api-sendgrid>

## 61. Question

A team has an Azure CosmosDB account. A solution needs to be in place to generate an alert from Azure Log Analytics when the request charge exceeds 40 units more than 10 times during a 10-minute window. Which of the following recommendations can be used to recommend? Choose 2 answers from the options given below

Create a search query to identify when the requestCharge\_s exceeds 40.

Create a search query to identify when the requestCharge\_s exceeds 10.

Create a search query to identify when the duration\_s exceeds 10.

Configure a period of 10 and a frequency of 10.

### Correct

If you look at the table for the log entries in Azure Log Analytics, you can see that in order to monitor the requests, you need to check for the requestCharge\_s log entry.

You can then generate alerts in Azure Monitor based on the period and frequency.

Option B is incorrect since the question states to check if the request charge exceeds 40 units

Option C is incorrect since this is the wrong metric to monitor

For more information on CosmosDB logging, please go ahead and visit the below URL

<https://docs.microsoft.com/en-us/azure/cosmos-db/logging>

## 62. Question

A team has created a storage account in Azure. They also have the following object available in the storage account.

The screenshot shows the Azure Storage Blob service Overview page. The left sidebar includes 'Overview', 'Access Control (IAM)', 'Properties', and 'Metadata'. The main area displays a table with one row for 'Sample.txt'. The columns are NAME, MODIFIED, ACCESS TIER, BLOB TYPE, SIZE, and LEASE STATE. The blob details are: Authentication method: Access key, Location: demo, Name: Sample.txt, Modified: 5/13/2019, 9:29:18 AM, Access Tier: Archive, Blob Type: Block blob, Size: 11 B, Lease State: Available.

NAME	MODIFIED	ACCESS TIER	BLOB TYPE	SIZE	LEASE STATE
Sample.txt	5/13/2019, 9:29:18 AM	Archive	Block blob	11 B	Available

Currently the Sample.txt file will be stored

- At the highest storage cost
- At the lowest storage cost
- At the lowest data retrieval cost
- At the premium storage cost

**Correct**

The Microsoft documentation mentions that the object will be set at a lower storage cost.

Since this is clearly mentioned in the documentation, all other options are incorrect

For more information on the storage tiers, please visit the below URL

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers>

## 63. Question

A team has created a storage account in Azure. They also have the following object available in the storage account.

The screenshot shows the Azure Storage Blob service Overview page. The left sidebar includes 'Overview', 'Access Control (IAM)', 'Properties', and 'Metadata'. The main area displays a table with one row for 'Sample.txt'. The columns are NAME, MODIFIED, ACCESS TIER, BLOB TYPE, SIZE, and LEASE STATE. The blob details are: Authentication method: Access key, Location: demo, Name: Sample.txt, Modified: 5/13/2019, 9:29:18 AM, Access Tier: Archive, Blob Type: Block blob, Size: 11 B, Lease State: Available.

NAME	MODIFIED	ACCESS TIER	BLOB TYPE	SIZE	LEASE STATE
Sample.txt	5/13/2019, 9:29:18 AM	Archive	Block blob	11 B	Available

In order to access the Sample.txt file, which of the following must be done first?

- Generate a snapshot

**○ Modify the access tier**

- Generate a shared access signature
- Modify the type of blob

**Correct**

In order to access the BLOB, since it is in the archive access tier, you need to first change the access tier for Microsoft documentation mentions the following

Since this is clearly mentioned in the documentation, all other options are incorrect

For more information on the storage tiers, please visit the below URL

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers>

**64. Question**

A team has just setup an Azure SQL database. They are planning on enabling the diagnostics for the underlying database as shown below

**LOG****SQLInsights****Retention (days)** ⓘ**AutomaticTuning****Retention (days)** ⓘ

What is the amount of time SQLInsights data will be stored in BLOB storage?

 30 days 90 days 700 days indefinite**Incorrect**

Since the retention for SQLInsights is specified as 90 days , hence the data will be stored for that duration only. Since this is clear from the above representation, all other options are incorrect

For more information on SQL Server database metrics, please go ahead and visit the below URL

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-metrics-diag-logging>

**65. Question**

A team has just setup an Azure SQL database. They are planning on enabling the diagnostics for the underlying database as shown below

The screenshot shows the 'LOG' section of the Azure portal. There are two entries: 'SQLInsights' and 'AutomaticTuning'. Both have a checked checkbox and a 'Retention (days)' slider set to 90. The background for the 'AutomaticTuning' entry is light blue, while the others are white.

What is the maximum amount of time that SQLInsights data can be stored in Azure Log Analytics?

- 30 days
- 90 days
- 700 days
- indefinite

#### Incorrect

There is no limit on the amount or retention of data in Azure Log Analytics. In Azure Log Analytics, you get continuous ingestion and retention. But the service itself is automatically scalable in terms of storage requirements.

The data retention policy only refers when sending logs to Event Hubs or to a storage account. This is also mentioned in the documentation

#### Data retention policy and pricing

If you select Event Hubs or a Storage account, you can specify a retention policy. This policy deletes data that is older than a selected time period. If you specify Log Analytics, the retention policy depends on the selected pricing tier. In this case, the provided free units of data ingestion can enable free monitoring of several databases each month. Any consumption of diagnostics telemetry in excess of the free units might incur costs. Be aware that active databases with heavier workloads ingest more data than idle databases. For more information, see [Log analytics pricing](#).

Since there is no limit on the retention, all other options are incorrect

For more information on SQL Server database metrics, please go ahead and visit the below URL

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-metrics-diag-logging>

#### 66. Question

A team is planning on deploying Azure resources by using Resource Manager templates. The templates need to reference secrets that are stored in Azure Key vault. You need to ensure deployments can be made accordingly.

Which of the following would you need to enable in the Azure key vault to ensure the templates can reference secrets from the vault?

Access policies for the Key vault

An Azure policy

Role Based access

Advanced access policy for the Key vault

### Incorrect

This is clearly given in the documentation. In order for Resource Manager templates to access Azure Key vault, enable the setting in the Advanced policy section for the Key vault.

Since this is clearly given in the documentation, all other options are invalid

For more information on using the Azure Key vault from Resource Manager templates, please visit the below URL  
<https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-tutorial-use-key-vault>

## 67. Question

A team is planning on deploying Azure resources by using Resource Manager templates. The templates need to access secrets that are stored in Azure Key vault. You need to ensure deployments can be made accordingly.

Which of the following would you use to restrict access to the secrets in the key vault?

Access policies for the Key vault

An Azure policy

Role Based access

Advanced access policy for the Key vault

### Incorrect

The Microsoft documentation clearly gives the steps for this. One of them is to ensure the identity deploying has the right permissions. This can be done with the help of Role based access.

Since this is clearly given in the documentation, all other options are invalid

For more information on accessing secrets from Resource Manager templates, please visit the below URL

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-keyvault-parameter>

## 68. Question

A team is setting the below policy for the backup of Azure virtual machines

## DefaultPolicy

[Associated items](#) [Delete](#) [Save](#) [Discard](#)

### Backup schedule

\* Frequency \* Time \* Timezone  
Daily 17:00 (UTC) Coordinated Universal Time

### Instant Restore (?)

Retain instant recovery snapshot(s) for

2 Day(s)

### Retention range

Retention of daily backup point.

\* At For  
17:00 30 Day(s)

Retention of weekly backup point.

\* On \* At For  
Sunday 17:00 12 Week(s)

Retention of monthly backup point.

[Week Based](#) [Day Based](#)

\* On \* Day \* At For  
First Sunday 17:00 12 Month(s)

Retention of yearly backup point.

[Week Based](#) [Day Based](#)

\* In \* On \* Day \* At For  
January First Sunday 17:00 2 Year(s)

What is the minimum recovery point objective for virtual machines backed up by this policy?

1 hour

1 day

12 weeks

12 months

Correct

Since there is a backup being taken every day, the minimum recovery point objective is one day.

Recovery point objective is the point to which you can recover back to based on the backup's being taken. Since backups are being taken every day, there would be a recovery point available on a daily basis.

Since this is evident from the settings of the Azure policy, all other options are incorrect.

For more information on the Azure backup architecture, please visit the below URL

<https://docs.microsoft.com/en-us/azure/backup/backup-architecture>

## 69. Question

A team is setting the below policy for the backup of Azure virtual machines

## DefaultPolicy

Associated items Delete Save Discard

### Backup schedule

\* Frequency      \* Time      \* Timezone

Daily      17:00      (UTC) Coordinated Universal Time

### Instant Restore ⓘ

Retain instant recovery snapshot(s) for

2 Day(s)

### Retention range

Retention of daily backup point.

\* At      For  
17:00      30 Day(s)

Retention of weekly backup point.

\* On      \* At      For  
Sunday      17:00      12 Week(s)

Retention of monthly backup point.

**Week Based** **Day Based**

\* On      \* Day      \* At      For  
First      Sunday      17:00      12 Month(s)

Retention of yearly backup point.

**Week Based** **Day Based**

\* In      \* On      \* Day      \* At      For  
January      First      Sunday      17:00      2 Year(s)

Which of the following is the maximum time that a virtual machine would be available for recovery based on the retention policy?

- 30 days
- 12 weeks
- 12 months
- 2 years

Correct

Since there is a yearly recovery point in place, that would be retained for 2 years, this would be the maximum the backup of the virtual machine would be available for.

Since this is evident from the settings of the Azure policy, all other options are incorrect

For more information on the Azure backup architecture, please visit the below URL

<https://docs.microsoft.com/en-us/azure/backup/backup-architecture>

## 70. Question

A team needs to deploy an application onto Azure. The application will be used to perform intensive and long

You need to deploy the solution to Azure. Below are the key requirements

Ensure every compute node can communicate with each other

Maximize the number of nodes to perform the computations faster

Least amount of effort to implement the entire solution

Which of the following would you use as the service for hosting the solution?

- Azure Load Balancer
- Azure Application Gateway
- Azure Virtual Machine scale sets
- Azure Batch

### Correct

The ideal solution to use for this is the Azure Batch Service. The Microsoft documentation mentions the follo

Options A and B are incorrect since these are load balancing solutions

Option C is incorrect since this should be used for applications that need to scale on demand

For more information on the Azure Batch service, please visit the below URL

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

## 71. Question

A team needs to deploy an application onto Azure. The application will be used to perform intensive and long

You need to deploy the solution to Azure. Below are the key requirements

Ensure every compute node can communicate with each other

Maximize the number of nodes to perform the computations faster

Least amount of effort to implement the entire solution

Which of the following would you implement within the service?

- Ensure Session Affinity
- Enable parallel task execution
- Enable containers

- Enable URL routing

### Correct

Since we are going to be using the Azure Batch Service to run the workloads, we need to ensure the tasks run correctly. Microsoft documentation mentions the following:

Since this is the only ideal approach, all other options are incorrect.

For more information on the Azure Batch service, please visit the below URL:

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

## 72. Question

A team needs to deploy resources using Azure Resource Manager templates. You have to ensure that the users performing deployment don't have the ability to view the connecting strings required by the application being deployed via the template. Which of the following would you use for this requirement?

- A parameter file
- A Storage account
- Azure Key vault
- Web.config file

### Correct

The ideal service to use for this purpose is the Azure Key vault service. The Microsoft documentation mentions that:

All other options are incorrect since the ideal service to use for this requirement is the Azure Key vault service.

For more information on using the Azure Key vault service to protect application secrets, please visit the below URL:

<https://docs.microsoft.com/en-us/azure/architecture/multitenant-identity/key-vault>

## 73. Question

A team wants to deploy a set of Linux based virtual machines onto an Azure subscription. They want to ensure that the packages get automatically installed when the machines are provisioned in Azure. Which of the following could be used for this purpose?

- Azure Policies
- Cloud-init
- Scale sets
- Function Apps

### Correct

The Cloud-init feature can be used to install packages on Linux based virtual machines. The Microsoft documentation states the following:

Since this is clear from the Microsoft documentation, all other options are incorrect.

For more information on Infrastructure automation, please visit the below URL:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/infrastructure-automation>

#### 74. Question

A testing team needs to create resources in an Azure subscription.

These resources will be pertinent to applications that need to be tested in Azure. These applications will make use of shared resources and application specific resources.

You have to create a deployment solution that meets the following requirements:

Minimize the administrative effort for the testing team to create the application environment.

Ensure that the application environment can be created consistently multiple times.

When the testing of the application is complete, all resources except for the shared resources should be deleted.

Which of the following should be used to implement this requirement?

- Use JSON templates to create the resources. Place the shared resources in one resource group and the application specific resources in a separate resource group.
- Use JSON templates to create the resources. Place the shared resources and application specific resources in a single resource group.
- Use Azure Powershell scripts to create the resources. Place the shared resources in one resource group and the application specific resources in a separate resource group.
- Use Azure Powershell scripts to create the resources. Place the shared resources and application specific resources in a single resource group.

#### Incorrect

The ideal solution is to use Template deployment. Below is why Microsoft recommends a template deployment:

Also ensure separate resource group deployments. So, when the application needs to be deleted, you can just delete the resource group, so that all resources in the resource group get deleted.

Option B is incorrect since you should deploy shared resources and application specific resources to separate resource groups.

Options C and D are incorrect since you should use JSON based templates for deployment.

For more information on Resource Groups, please go ahead and visit the below URL:

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

#### 75. Question

An application needs to be deployed onto Azure. This application will be hosted on a set of Virtual Machines. What needs to be applied when it comes to diverting traffic for users?

Users navigating to [http://skillcertlabs.com/video/\\*](http://skillcertlabs.com/video/*) need to be directed to one set of Virtual Machines.

Users navigating to [http://skillcertlabs.com/images/\\*](http://skillcertlabs.com/images/*) need to be directed to another set of Virtual Machines. You need to setup the correct appliance which could be used to fulfil these requirements. Which of the following implement?

- Traffic Manager
- Storage accounts
- Application Gateway
- Virtual Private Gateway

#### Correct

You can use the URL routing feature of the application gateway as shown below

Option A is incorrect since this is used to divert traffic based on DNS to multiple regions

Option B is incorrect since this can't be used to divert traffic

Option D is incorrect since this is used to divert traffic from a Virtual Network over a VPN connection

For more information on the application gateway, please go ahead and visit the below URL

<https://docs.microsoft.com/en-us/azure/application-gateway/overview>



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