

**Q1)**

A company has set up an Azure subscription. They also have an on-premise data centre. They have both Windows and Linux virtual machines located in their on-premise data centre and on Azure. They wanted to design their logging solutions in such a way.

**Requirement 1** Collect IIS logs from the window virtual machines located in Azure and send them across to Azure storage.

**Requirement 2** Collect metrics from the on-premises Windows virtual machine.

**Requirement 3** Collect metrics from the on-premise Linux virtual machine.

Which of the following could be used for requirement 2?

- log analytics agent

**Explanation:**-You can use the log analytics agent to collect data from an on-premise machine

- Azure Diagnostics agent
  - network watcher
  - application insights
- 

**Q2)**

A company has set up an Azure subscription. They also have an on-premise data centre. They have both Windows and Linux virtual machines located in their on-premise data centre and on Azure. They wanted to design their logging solutions in such a way.

**Requirement 1** Collect IIS logs from the window virtual machines located in Azure and send them across to Azure storage.

**Requirement 2** Collect metrics from the on-premises Windows virtual machine.

**Requirement 3** Collect metrics from the on-premise Linux virtual machine.

Which of the following could be used for requirement 3?

- log analytics agent

**Explanation:**-You can use the log analytics agent to collect data from an on-premise machine

- Azure Diagnostics agent
  - network watcher
  - application insights
- 

**Q3)**

You have to manage the backup of several Azure SQL databases in your company's Azure subscription.

You need to configure long-term retention for backup as well.

The Azure subscription has a collection of single, pooled databases and Azure managed instances as well.

For which of the following can you configure long-term retention? choose 2 answers from the options given below

- Azure SQL database single instance

**Explanation:**-Long term retention can be configured for Azure SQL database single and pooled instances

- Azure SQL database pooled instance

**Explanation:**-Long term retention can be configured for Azure SQL database single and pooled instances

- Azure SQL managed instance
  - Azure SQL datawarehouse
- 

**Q4)**

You have to manage the backup of several Azure SQL databases in your company's Azure subscription.

You need to configure long-term retention for backup as well.

The Azure subscription has a collection of single, pooled databases and Azure managed instances as well.

For which of the following can be used to create long term backups for Azure SQL managed instances?

- Az copy
- Data Explorer
- SQL agent jobs

**Explanation:**-You can achieve this with SQL agent jobs

- Data factory
- 

**Q5)**

A company needs to setup a web application on to the Azure web service.

One of the key requirements for the platform to scale automatically when there is a sustainable load that caused the CPU threshold to go beyond a particular threshold.

Which of the following is the most cost effective app service plan to use for the Azure web app?

- Basic



**Explanation:-**The auto scaling option for web apps is available from the standard app service plan onwards. hence this would be the most cost-effective plan

- Premium
  - Isolated
- 

#### Q6)

A company needs to setup a web application on to the Azure web service.

One of the key requirements for the platform to scale automatically when there is a 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 alert the team accordingly?

- Create an Analytics log alert

- Create an activity log alert

**Explanation:-**You can create an activity log alert for this

- Create a metrics log alert
  - Create a threshold log alert
- 

#### Q7)

A company has setup an azure subscriptionAnd deployed a set of virtual machines to the subscription.

They want to enable replication for Azure virtual machine and for machines located in their on-premise network. The company has defined the following groups in their Azure AD tenantAlong with the required relevant permission description

Name	Permissions required
xyz grpA	Create recovery service vault
xyz grpB	Create and manage replication jobs
xyz grpC	Perform failovers

As an architect you need to assign the right role to each group. You have to ensure that you don't assign more permission then what is required.

Which role should be given to a group "XYZgrpA"?

- Owner

- Contributor

**Explanation:-**Both the site recovery contributor and the operator don't have the privilege to create a recovery services vault so you will need to choose the contributor role

- site recovery contributor
  - site recovery operator
- 

#### Q8)

A company has setup an azure subscriptionAnd deployed a set of virtual machines to the subscription.

They want to enable replication for Azure virtual machine and for machines located in their on-premise network. The company has defined the following groups in their Azure AD tenantAlong with the required relevant permission description

Name	Permissions required
xyz grpA	Create recovery service vault
xyz grpB	Create and manage replication jobs
xyz grpC	Perform failovers

As an architect you need to assign the right role to each groupYou have to ensure that you don't assign more permission then what is required.

Which role should be given to a group "XYZgrpB"?

- Owner

- Contributor

- site recovery contributor

**Explanation:-**The Site Recovery Contributor has the required privilege for this. The permissions for the role are mentioned in the Microsoft documentation.

- site recovery operator
- 

#### Q9)

A company has setup an azure subscriptionAnd deployed a set of virtual machines to the subscription.

They want to enable replication for Azure virtual machine and for machines located in their on-premise network. The company has defined the following groups in their Azure AD tenantAlong with the required relevant permission description

Name	Permissions required
xyz grpA	Create recovery service vault
xyz grpB	Create and manage replication jobs
xyz grpC	Perform failovers

**As an architect you need to assign the right role to each group You have to ensure that you don't assign more permission than what is required.**

**Which role should be given to a group "XYZgrpC"?**

- Owner
- Contributor
- site recovery contributor
- site recovery operator

**Explanation:-**The Site Recovery operator has the required privilege for this. The permissions for the role are mentioned in the Microsoft documentation.

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**Q10)**

**A company needs to ensure that a network security group is defined for every subnet in all virtual networks defined in their Azure subscription.**

**Which of the following could be used to achieve this requirement ?**

- Azure advisor
- Azure policies

**Explanation:-**An example of this is given in Microsoft documentation

- Azure RBAC
- Azure AD

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**Q11)**

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

- 1) A web application hosted on a set of two virtual machine.
- 2) Users would be accessing the web application via the URL https://XYZ.com.
- 3) A database hosted on a set of two virtual machine.
- 4)The database would be listening for connections on port 1433.
- 5) A public facing Load Balancer for the web application layer.
- 6) an internal Load Balancer for the database layer.

**How many frontend IP addresses needs to be assigned to the public Load Balancer?**

- Zero
- 1

**Explanation:-**Since the user would be accessing application via secure URL. that means the Load Balancer needs to be listening on port 1443 hence here we just need one fronted IP configuration

- 2
- 4

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**Q12)**

**A company needs to ensure that a network security group is defined for every subnet in all virtual networks defined in their Azure subscription.**

**Which of the following could be used to achieve this requirement?**

- 1) A web application hosted on a set of two virtual machine.
- 2) Users would be accessing the web application via the URL https://XYZ.com.
- 3) A database hosted on a set of two virtual machine.
- 4)The database would be listening for connections on port 1433.
- 5) A public facing Load Balancer for the web application layer.
- 6) an internal Load Balancer for the database layer.

**How many frontend IP addresses needs to be assigned to the internal Load Balancer?**

- Zero
- 1

**Explanation:-**Since the database would just be listening on port i.e 1433. we just need one frontend IP configuration

- 2
- 4

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**Q13) A company need to design and deploy an application on to Azure. they want to base the design the application 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 e-commerce application with module for managing user accounts, shopping carts, managing delivery.**

**Which of the following could they use for hosting application**

- Azure function
- Azure service fabric

**Explanation:-**Ideal solution for this is Azure service fabric

- Azure WebApps
  - Azure logic apps
- 

**Q14)**

**A company need to design and deploy an application on to Azure. They want to base the design the application 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 e-commerce application with module for managing user accounts, shopping carts, managing delivery.**

**Based on the application need what type of Design pattern would you use to build the application?**

- stateless microservices
- stateful microservices

**Explanation:-**Since the application needs to maintain the state across its life cycle.( for example from Shopping Cart items to checkout) you can use the stateful microservices design pattern

- function microservices
  - module microservices
- 

**Q15)**

**A company need to transfer data set to Azure. The size of the data set is around 10TB.**

**The data needs to be copied to an Azure 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

**Explanation:-**Hear the size of the data set is large and the bandwidth is small. hence doing an offline transfer the Azure data box service is the ideal approach

- Azure powershell
- 

**Q16)**

**A company need to transfer data set to Azure. the size of the data set is around 10TB. The data needs to be copied to an Azure storage account.**

**The current line bandwidth that the company has is around 100 mbps. After the initial data transfer.**

**Which of the following can be used for periodic transfer of MB's of data on to the Azure storage account? Choose 2 answers from the options given below?**

- Az copy tool
  - Azure data factory
  - Azure data box
  - Azure powershell
- 

**Q17)**

**A company is planning on setting the following architecture in Azure.**

**1) A web application hosted using the Azure web app service.**

**2) Application would be written in .Net Core.**

**3) A Cosmos DB account with the table API.**

**The company has the following key requirements.**

**1) Ensure proper capacity provisioning is implemented for the Cosmos DB account.**

**2) Generate reports on which parts of the application are most popular amongst users.**

**Which of the following could be used to accomplish the below requirement?**

**" Ensure proper capacity provisioning is implemented for the Cosmos DB account"**

- Generate alerts based on the service health of the resources
- Generate alerts based on Cosmos DB metrics

**Explanation:-**You can see How the throughput is being managed via The metrics available on the Cosmos DB account. you can create an alert based on the metric itself

- Generate alert based on Azure advisor metrics
  - Generate alerts based on Azure activity log metric
- 

**Q18)**

**A company is planning on setting the following architecture in Azure.**

**1) A web application hosted using the Azure web app service.**

**2) Application would be written in .Net Core.**

**3) A Cosmos DB account with the table API.**

**The company has the following key requirements.**

- 1) Ensure proper capacity provisioning is implemented for the Cosmos DB account.**
- 2) Generate reports on which parts of the application are most popular amongst users.**

**Which of the following could be used to accomplish the below requirement?**

**" Generate reports on which parts of the application are most popular amongst user"**

- Use Azure advisor
- Use application insights

**Explanation:-**Application insights can provide the require usage analysis for the web-based application

- Use Azure monitor
- Use Azure metrics

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**Q19)**

**A company has setup an Azure subscription and account. They want to provision the following resources in Azure.**

- 1) Virtual network with the set of virtual machine.**
- 2) The Cosmos DB account.**
- 3) An Azure web app instance.**

**The company wants to set the right roles for different groups to manage the Cosmos DB account. below are the required permission requirements.**

Group	Permission
cosmosdb_grp1	Should be able to provision Cosmos DB accounts, but can't access the keys required to access the data
cosmosdb_grp2	Should be able to read the data in a Cosmos DB account
cosmosdb_grp3	Should be able to submit a request to restore a Cosmos DB database

**You have to advise on the right role based access provide to each group based on least privilege. which of the following would you assign to "cosmosdb\_grp1" ?**

- DocumentDB account contributor
- Cosmos DB account reader
- Cosmos DB backup operator
- Cosmos DB operator

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**Q20)**

**A company has setup an Azure subscription and account.They want to provision the following resources in Azure.**

- 1) Virtual network with the set of virtual machine.**
- 2) The Cosmos DB account.**
- 3) An Azure web app instance.**

**The company wants to set the right roles for different groups to manage the Cosmos DB account.**

**Below are the required permission requirements.**

Group	Permission
cosmosdb_grp1	Should be able to provision Cosmos DB accounts, but can't access the keys required to access the data
cosmosdb_grp2	Should be able to read the data in a Cosmos DB account
cosmosdb_grp3	Should be able to submit a request to restore a Cosmos DB database

**You have to advise on the right role based access provide to each group based on least privilege. Which of the following would you assign to "cosmosdb\_grp2" ?**

- DocumentDB account contributor
- Cosmos DB account reader

**Explanation:-**The right for this is is the Cosmos DB Account Reader.

- Cosmos DB backup operator
- Cosmos DB operator

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**Q21)**

**A company has setup an Azure subscription and account.They want to provision the following resources in Azure.**

- 1) Virtual network with the set of virtual machine.**
- 2) The Cosmos DB account.**
- 3) An Azure web app instance.**

**The company wants to set the right roles for different groups to manage the Cosmos DB account.**

**Below are the required permission requirements.**

Group	Permission
cosmosdb_grp1	Should be able to provision Cosmos DB accounts, but can't access the keys required to access the data
cosmosdb_grp2	Should be able to read the data in a Cosmos DB account
cosmosdb_grp3	Should be able to submit a request to restore a Cosmos DB database

**You have to advise on the right role based access provide to each group based on least privilege. Which of the following would you assign to "cosmosdb\_grp3" ?**

- document DB account contributor
- Cosmos DB account reader
- Cosmos DB backup operator
- Explanation:-**The right for this is the Cosmos DB backup operator
- Cosmos DB operator

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**Q22)**

**Overview**

XYZ is an online training provider

**Current System - Training Site**

The company currently has a training site system defined on their on-premise environment. The system consists of 3 tiers

- Front end Web app
  - Middle tier API
  - Back end data store
- The backend is running on Microsoft SQL server 2016  
All servers are running on Windows 2016 DataCenter  
The Front and Middle tiers are written in C# and hosted on Internet Information Services  
The system currently has the following requirements
- The front and middle tier components currently make use of encryption keys to access the data store
  - The backups need to be stored for up to 5 years
  - Access to the system should only be via the internal network of XYZ

**Current System – Processing system**

XYZ also has an internal processing system. This is a C# Windows based service that gets invoked based on requests from the main training system. Each invocation of this service lasts for a maximum of 2 minutes.

**Planned Changes**

XYZ wants to migrate all systems to Azure.

**Key Requirements**

- Infrastructure services must remain available if a region or a data center fails.
- Failover must occur without any administrative intervention
- Wherever possible, Azure managed servers must be used to manage overhead
- Whenever possible, costs must be minimized
- An SLA of 99.95% must be guaranteed on the infrastructure for the middle tier system

**The web application tier image to be deployed using a service that could automatically scale the web service based on demand.**

**Which of the following would you recommend?**

- Azure virtual machines with internet information services install
- Azure web apps using the standard app service plan

**Explanation:-**The best solution is to use Azure Web Apps as the managed service. with the standard app service plan it would also have the ability to support auto scaling

- An Azure standard Load Balancer
- An Azure Application Gateway with 2 medium instances

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**Q23)**

**Overview**

XYZ is an online training provider

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The Front and Middle tiers are written in C# and hosted on Internet Information Services  
The system currently has the following requirements
- The front and middle tier components currently make use of encryption keys to access the data store
  - The backups need to be stored for up to 5 years
  - Access to the system should only be via the internal network of XYZ

· Access to the system should only be via the internal network of XYZ

#### Current System – Processing system

XYZ also has an internal processing system. This is a C# Windows based service that gets invoked based on requests from the main training system. Each invocation of this service lasts for a maximum of 2 minutes.

#### Planned Changes

XYZ wants to migrate all systems to Azure.

#### Key Requirements

- Infrastructure services must remain available if a region or a data center fails.
- Failover must occur without any administrative intervention
- Wherever possible, Azure managed services must be used to manage overhead
- Whenever possible, costs must be minimized
- An SLA of 99.95% must be guaranteed on the infrastructure for the middle tier system

**The company Wants to store the backups taken for the SQL server instance which would be hosted on an Azure virtual machine.**

**Which of the following could be used to store the backups?**

- Azure SQL data warehouse
- Azure Cosmos DB
- Azure storage accounts

**Explanation:-**You can store the backup using the Azure blob service in Azure storage account

- Azure SQL managed instance

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#### Q24)

##### Overview

XYZ is an online training provider

##### Current System - Training Site

The company currently has a training site system defined on their on-premise environment. The system consists of 3 tiers

- Front end Web app
- Middle tier API
- Back end data store

The backend is running on Microsoft SQL server 2016

All servers are running on Windows 2016 DataCenter

The Front and Middle tiers are written in C# and hosted on Internet Information Services

The system currently has the following requirements

- The front and middle tier components currently make use of encryption keys to access the data store
- The backups need to be stored for up to 5 years
- Access to the system should only be via the internal network of XYZ

##### Current System – Processing system

XYZ also has an internal processing system. This is a C# Windows based service that gets invoked based on requests from the main training system. Each invocation of this service lasts for a maximum of 2 minutes.

#### Planned Changes

XYZ wants to migrate all systems to Azure.

#### Key Requirements

- Infrastructure services must remain available if a region or a data center fails.
- Failover must occur without any administrative intervention
- Wherever possible, Azure managed services must be used to manage overhead
- Whenever possible, costs must be minimized
- An SLA of 99.95% must be guaranteed on the infrastructure for the middle tier system

**Which of the following could be implemented to fulfill the requirement?**

**An SLA of 99.95% must be guaranteed on the infrastructure for the middle tier system.**

**You decide to implement Azure virtual machines scale sets.**

**Would this fulfill the requirement?**

- Correct
- Incorrect

**Explanation:-**

Refers to VM scale set SLA documents at [https://azure.microsoft.com/en-ca/support/legal/sla/virtual-machine-scale-sets/v1\\_1/](https://azure.microsoft.com/en-ca/support/legal/sla/virtual-machine-scale-sets/v1_1/)

Virtual Machine Scale Sets is a free service, therefore, it does not have a financially backed SLA itself. However, if the Virtual Machine Scale Sets includes Virtual Machines in at least 2 Fault Domains, the availability of the underlying Virtual Machines SLA for two or more instances applies. If the scale set contains a single Virtual Machine, the availability for a Single Instance Virtual Machine applies.

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#### Q25)

**A company wants to create a set of virtual machines in Azure.**

**These would be Windows virtual machines that would be hosting a web based application.**

**The company wants to achieve an availability of 99.99% for the virtual machines.**

**They decide to implement Azure Load Balancer for the virtual machines.**

**Would this satisfy the requirement?**

Correct

Incorrect

**Explanation:-**

Azure load balancers are primarily used to distribute traffic across virtual machines.

They can add high availability to your architecture but does not guarantee an availability of 99.99% for the virtual machines

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**Q26)**

**A company has set up an Azure subscription. They also have an on premise data centre. They have both windows and and LINUX virtual machines located in their on-premise data centre and on Azure. They wanted to design their loggings solutions in such a way**

**Requirement 1 Collect IIS logs from the window virtual machines located in Azure and send them across to Azure storage.**

**Requirement 2 Collect metrics from the on-premises Windows virtual machine.**

**Requirement 3 Collect metrics from the on-premise Linux virtual machine.**

**Which of the following could be used for requirement 1?**

log analytics agent

Azure Diagnostics agent

**Explanation:-**This can be accomplished with the help of the Azure Diagnostic agent

network watcher

application insights

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**Q27)**

**Overview**

XYZ is an online training provider

**Current System - Training Site**

The company currently has a training site system defined on their on-premise environment. The system consists of 3 tiers

· Front end Web app

· Middle tier API

· Back end data store

The backend is running on Microsoft SQL server 2016

All servers are running on Windows 2016 DataCenter

The Front and Middle tiers are written in C# and hosted on Internet Information Services

The system currently has the following requirements

· The front and middle tier components currently make use of encryption keys to access the data store

· The backups need to be stored for up to 5 years

· Access to the system should only be via the internal network of XYZ

**Current System – Processing system**

XYZ also has an internal processing system. This is a C# Windows based service that gets invoked based on requests from the main training system. Each invocation of this service lasts for a maximum of 2 minutes.

**Planned Changes**

XYZ wants to migrate all systems to Azure.

**Key Requirements**

· Infrastructure services must remain available if a region or a data center fails.

· Failover must occur without any administrative intervention

· Wherever possible, Azure managed services must be used to management overhead

· Whenever possible, costs must be minimized

· An SLA of 99.95% must be guaranteed on the Infrastructure for the middle tier system

**Which of the following could be implemented the following requirement?**

**An SLA of 99.95% must be guaranteed on the infrastructure for the middle tier system.**

**You decide to implement Azure Standard Load Balancer.**

**Would this fulfill the requirement?**

Incorrect

Correct

**Explanation:-**Since we planned to azure standard load balancer the SLA provided is 99.99% and in the given case study, since the required SLA is 99.95% which is acceptable

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**Q28)**

**Overview**

XYZ is an online training provider

**Current System - Training Site**

The company currently has a training site system defined on their on-premise environment. The system consists of 3 tiers

· Front end Web app

· Front end web app

· Middle tier API

· Back end data store

The backend is running on Microsoft SQL server 2016

All servers are running on Windows 2016 DataCenter

The Front and Middle tiers are written in C# and hosted on Internet Information Services

The system currently has the following requirements

- The front and middle tier components currently make use of encryption keys to access the data store
- The backups need to be stored for up to 5 years
- Access to the system should only be via the internal network of XYZ

#### Current System – Processing system

XYZ also has an internal processing system. This is a C# Windows based service that gets invoked based on requests from the main training system. Each invocation of this service lasts for a maximum of 2 minutes.

#### Planned Changes

XYZ wants to migrate all systems to Azure.

#### Key Requirements

- Infrastructure services must remain available if a region or a data center fails.
- Failover must occur without any administrative intervention
- Wherever possible, Azure managed servers must be used to manage overhead
- Whenever possible, costs must be minimized
- An SLA of 99.95% must be guaranteed on the infrastructure for the middle tier system

#### Which of the following could be implemented to fulfill the requirement?

An SLA of 99.95% must be guaranteed on the infrastructure for the middle tier system.

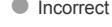
You decide to implement Azure Availability sets.

Would this fulfill the requirement?



Correct

**Explanation:**-You can achieve an availability of 99.95% with the use of availability sets. Link - <https://docs.microsoft.com/en-us/azure/virtual-machines/manage-availability>



Incorrect

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#### Q29)

##### Overview

XYZ is an online training provider

##### Current System - Training Site

The company currently has a training site system defined on their on-premise environment. The system consists of 3 tiers

- Front end Web app
- Middle tier API
- Back end data store

The backend is running on Microsoft SQL server 2016

All servers are running on Windows 2016 DataCenter

The Front and Middle tiers are written in C# and hosted on Internet Information Services

The system currently has the following requirements

- The front and middle tier components currently make use of encryption keys to access the data store
- The backups need to be stored for up to 5 years
- Access to the system should only be via the internal network of XYZ

#### Current System – Processing system

XYZ also has an internal processing system. This is a C# Windows based service that gets invoked based on requests from the main training system. Each invocation of this service lasts for a maximum of 2 minutes.

#### Planned Changes

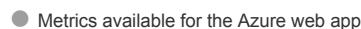
XYZ wants to migrate all systems to Azure.

#### Key Requirements

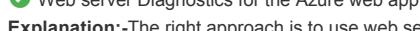
- Infrastructure services must remain available if a region or a data center fails.
- Failover must occur without any administrative intervention
- Wherever possible, Azure managed servers must be used to manage overhead
- Whenever possible, costs must be minimized
- An SLA of 99.95% must be guaranteed on the infrastructure for the middle tier system

**There is a requirement to get detailed information for any http request to the Azure web app which results in an HTTP status code of 400 or greater.**

Which of the following would you use for this requirement?

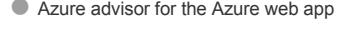


Metrics available for the Azure web app



Web server Diagnostics for the Azure web app

**Explanation:**-The right approach is to use web server diagnostic



Network watcher for the Azure web app

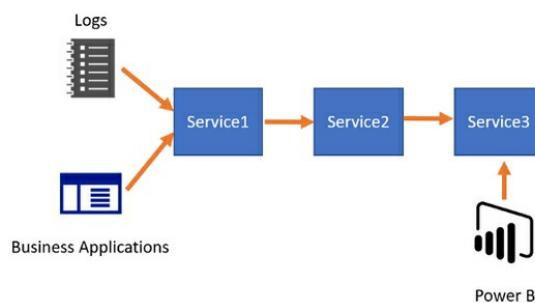


Azure advisor for the Azure web app

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Q30)

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



**Below is the requirement for the various services •**

- Service 1 - Orchestrate the movement of data from various Log and applications sources to a large expansive data store
- Service 2 - Sustainable data store for taking large amounts of data
- Service 3 - 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

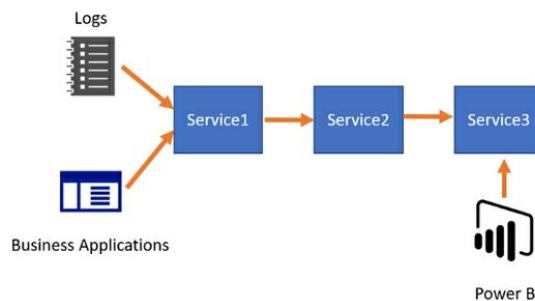
**Explanation:-**You can use the Azure Data Factory for this purpose

- Azure Data Factory
- Azure Analysis Services
- Azure SQL Datawarehouse

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Q31)

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



**Below is the requirement for the various services**

- Service 1 - Orchestrate the movement of data from various Log and applications sources to a large expansive data store
- Service 2 - Sustainable data store for taking large amounts of data
- Service 3 - 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 Service

Azure Data Lake Storage

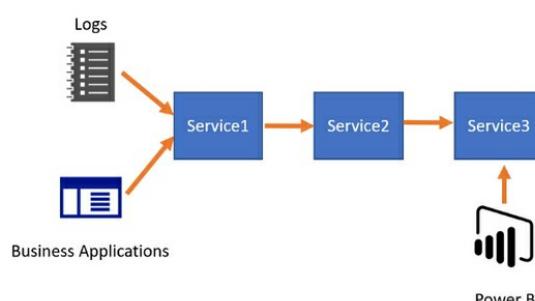
**Explanation:-**An ideal solution for an expansive data storage solution is Data Lake storage

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

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Q32)

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



**Below is the requirement for the various services**

- Service 1 - Orchestrate the movement of data from various Log and applications sources to a large expansive data store
- Service 2 - Sustainable data store for taking large amounts of data

- Service 3 - 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 Service
- Azure SQL Datawarehouse

Explanation:-An ideal data store that can store large amounts of data with an integration with Power BI is the SQL Data Warehouse

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Q33)

A company is developing an e-commerce web application.

One of the modules of the application will be built using a messaging solution architecture. The modules will have the following features

- 1) A Workflow run for several items published on the web application.
- 2) The Workflow would be built using Azure Logic Apps.
- 3) The item data would be stored in Azure BLOB storage.

Which of the following would you additionally incorporate for the module?

- Azure Event Grid
- Azure Event Hub
- Azure HDInsight
- Azure Service Bus

Explanation:-You can use the Azure Service Bus queue system as the messaging service for the module. The Microsoft documentation mentions the following

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Q34)

A Company has set up an Azure subscription in Azure tenant named XYZ on microsoft.com.

They already have an on premise data centre and many applications running as part of their infrastructure they have user who authenticate from various client types and version .

The company wants to ensure that all access from Legacy clients suggest Office 2010 are blocked from accessing any resources in their subscription.

They decide to make use of azure policies.

Would this fulfill the requirement?

- Correct
- Incorrect

Explanation:-Azure policies are used mostly from a governance perspective and can't be used to block authentication access

---

Q35)

A Company has set up an Azure subscription in Azure tenant named XYZ on microsoft.com.

They already have an on premise data centre and many applications running as part of their infrastructure they have user who authenticate from various client types and version .

The company wants to ensure that all access from Legacy clients suggest Office 010 are blocked from accessing any resources in their subscription.

They decide to make use of azure advisor.

Would this fulfill the requirement?

- Correct
- Incorrect

Explanation:-Azure advisor is used as a recommendation's engine. This service can be used to provide security and performance recommendations. It can't be used to block authentication access

---

Q36)

A Company has set up an Azure subscription in Azure tenant named XYZ on microsoft.com. They already have an on premise data centre and many applications running as part of their infrastructure they have user who authenticate from various client types and version .

The company wants to ensure that all access from Legacy clients suggest Office 2010 are blocked from accessing any resources in their subscription.

They decide to make use of in-built conditional access policies.

Would this fulfill the requirement?

- Correct
- Incorrect

Explanation:-You can use conditional access policies to use conditions to block authentication request. There is an in-built policy available for this

- Incorrect

---

Q37)

**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 requesting the service from the user should be done in such a manner that it provides the least latency for the request and response traffic.**

**Which of the following would you consider as the service to implement as part of this architecture?**

- Azure application gateway
- Azure traffic manager

**Explanation:-**You can use the Azure traffic manager service. you can use the performance routing method to route traffic based on the latency. So the virtual machine which offers the least network latency for the user will serve the user request

- Azure Load Balancer
- Azure CosmosDB

---

**Q38)**

**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 requesting the service from the user should be done in such a manner that it provides the least latency for the request and response traffic.**

**Based on the service chosen in 4 which of the following would you use as the feature to implement?**

- SSL offloading
- Performance routing method

**Explanation:-**Since We are going to be using the traffic manager service. we have to use the routing methods available with the traffic manager service.

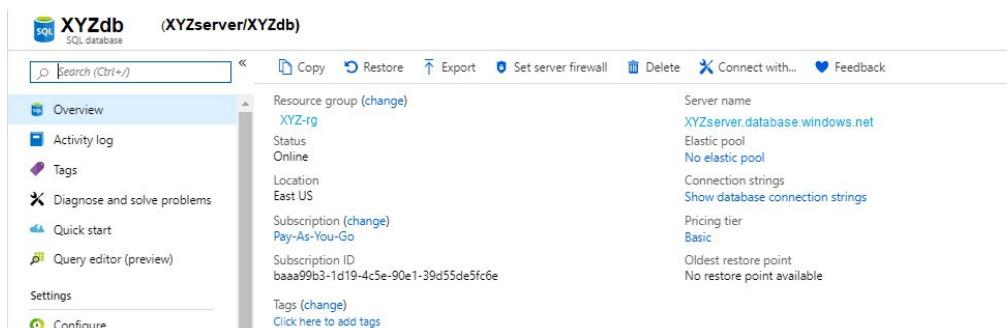
- NAT rules
- Path based rules

---

**Q39)**

**A company currently has a Microsoft SQL server database located in their on-premise environment.**

**They need to migrate the database to an Azure SQL database. They provision the following database as part of the azure subscription**



XYZdb (XYZserver/XYZdb)

Resource group (change) XYZ-rg

Status Online

Location East US

Subscription (change) Pay-As-You-Go

Subscription ID baaa99b3-1d19-4c5e-90e1-39d55de5fc6e

Tags (change) Click here to add tags

**1) The data would be migrated using the Azure database migration service.**

**2) The migration need to be implemented with the least amount of downtime.**

**Which of the following would you need to implement for the Azure SQL database as a prerequisite for the migration?**

- Enable Geo-replication
- Change the pricing tier

**Explanation:-**Since here we need to implement the migration with the least amount of downtime, that means we need to implement the migration in online mode. for that we need to change the pricing tier to " Premium" for the database

- Implement advanced data security
- Implement the option of " Sync to other databases"

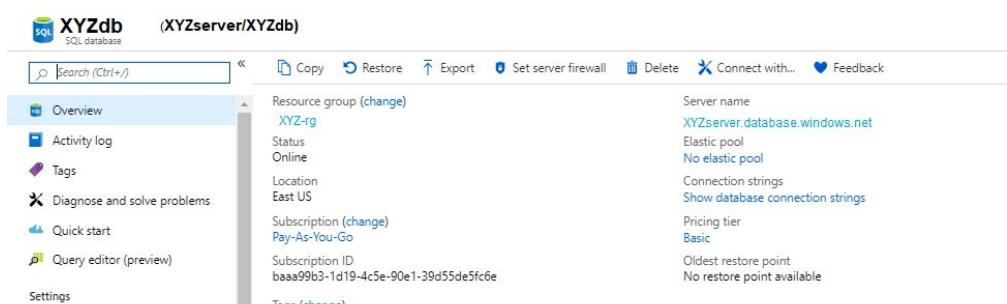
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**Q40)**

**A company currently has a Microsoft SQL server database located in their on-premise environment.**

**They need to migrate the database to an Azure SQL database.**

**They provision the following database as part of the azure subscription**



XYZdb (XYZserver/XYZdb)

Resource group (change) XYZ-rg

Status Online

Location East US

Subscription (change) Pay-As-You-Go

Subscription ID baaa99b3-1d19-4c5e-90e1-39d55de5fc6e

Tags (change) Click here to add tags

**1)The data would be migrated using the Azure database migration service.**

**2) The migration need to be implemented with the least amount of downtime.**

**In which region would you create an instance of the Azure database migration service?**

- Central US
- East US

**Explanation:-**The Azure database migration service instance should be located in the same region as the target database

- East Asia
- West US

**Q41)**

**A company wants to migrate the following resources to Azure.**

- 1) A set of hyper-v service running on a hyper-v host.**
- 2) A set of VMware service managed via a vCentre server.**
- 3) A set of web applications.**

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

- 1) The capacity requirements in azure must be determined beforehand.**
- 2) Indicative cost for provisioning resources in Azure must be determined beforehand.**
- 3) Whenever possible PaaS services should be used.**
- 4) 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 servers?**

- Azure site recovery agent
- Azure migrate

**Explanation:-**You can use the Azure migrate tool to get an indicator on the capacity and cost for migrating VMware servers onto Azure.So, this can be part of the design planning stage. Remember that this tool only work for VMware environments.

- Azure advisor
- Azure cost management

**Q42)**

**A company wants to migrate the following resources to Azure.**

- 1) A set of hyper-v service running on a hyper-v host.**
- 2) A set of VMware service managed via a vCentre server.**
- 3) A set of web applications.**

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

- 1) The capacity requirements in azure must be determined beforehand.**
- 2) Indicative cost for provisioning resources in Azure must be determined beforehand.**
- 3) Whenever possible PaaS services should be used.**
- 4) The resources in Azure would be used across multiple departments within the company.**

**The company want to segregate the billing of Azure resources across the multiple departments in the company.**

**Which of the following could be used to fulfill this requirement?**

- Azure policies
- Resource tags

**Explanation:-**Tags can be used as an effective means for billing purpose

- Azure advisor
- Azure locks

**Q43)**

**A Company has a set of Windows servers located in their on-premise data centre. They also have Windows virtual machines hosted as part of their Azure subscription.**

**They want to have a combined monitoring solution for both their on-premise and Azure virtual machine.**

**Which of the following would you create in azure to fulfill the monitoring requirement ?**

- An Azure storage account
- A log analytics workspace

**Explanation:-**You can collect all the logs into a Log Analytics workspace.

- A CosmosDB account
- An Azure SQL database

**Q44)**

A Company has a set of Windows servers located in their on-premise data centre. They also have Windows virtual machines hosted as part of their Azure subscription.

They want to have a combined monitoring solution for both their on-premise and Azure virtual machine.

Which of the following would you implement on the servers located in the on-premise data center?

- A Windows agent

**Explanation:-**You would have to install a Windows agent on the server

- A site recovery agent
- A log analytics workspace
- A backup agent

---

Q45)

A company has a set of servers and applications located in their on premise environment. They wanted to design a business continuity solution for the servers and applications. They want to make use of services hosted in Azure. they have set up an Azure subscription.

Below are the requirements for 3 applications that need to adhere to different business continuity requirements.

1) XYZlabA -This is a high revenue generating application for the company. the application must be able to failover to Azure in the event of an on-premise data centre failure.

2) XYZlabB - Here the data for the application needs to be retained for 3 years.

3) XYZlabC - For this application the recovery point objective needs to be 30 minutes and the recovery time objective needs to be 15 minutes.

Which of the following would you use for the application “XYZlabA”

- Azure site recovery

**Explanation:-**The best solution for disaster recovery scenarios is to used Azure site recovery service

- Azure backup
- Azure storage account
- Azure SQL database

---

Q46)

A company has a set of servers and applications located in their on premise environment. They wanted to design a business continuity solution for the servers and applications. They want to make use of services hosted in Azure. they have set up an Azure subscription. Below are the requirements for 3 applications that need to adhere to different business continuity requirements.

1) XYZlabA -This is a high revenue generating application for the company. the application must be able to failover to Azure in the event of an on-premise data centre failure.

2) XYZlabB - Here the data for the application needs to be retained for 3 years.

3) XYZlabC - For this application the recovery point objective needs to be 30 minutes and the recovery time objective needs to be 15 minutes.

Which of the following would you use for the application “XYZlabB”

- Azure site recovery

- Azure backup

**Explanation:-**If you need backup to be retained for a number of years, then you can the Azure backup service

- Azure storage account
- Azure SQL database

---

Q47)

A company has a set of servers and applications located in their on premise environment. They wanted to design a business continuity solution for the servers and applications. They want to make use of services hosted in Azure.

They have set up an Azure subscription. Below are the requirements for 3 applications that need to adhere to different business continuity requirements.

1) XYZlabA-This is a high revenue generating application for the company. the application must be able to failover to Azure in the event of an on-premise data centre failure.

2) XYZlabB- here the data for the application needs to be retained for 3 years.

3) XYZlabC- for this application the recovery point objective needs to be 30 minutes and the recovery time objective needs to be 15 minutes.

Which of the following would you use for the application “XYZlabC”

- Azure site recovery

**Explanation:-**If you need a low recovery point objective and recovery time objective then you should consider using Azure site recovery

- Azure backup
- Azure storage account
- Azure SQL database

---

Q48)

A company wants to make use of a data storage solution in Azure. The data storage solution must have the option for storage of archived based documents.

**The storage solution must offer a cost effective solution for long term storage of these files.**

**Which of the following would you choose as the underlying data storage solution?**

- Azure Cosmos DB
- Azure SQL database
- Azure storage accounts

**Explanation:-**All other options are incorrect since these are not meant for storage of documents or files, you can use the Blob service available with the Azure storage accounts for storage of archived-based documents

- Azure SQL Datawarehouse

---

**Q49)**

**A company wants to make use of a data storage solution in Azure. The data storage solution must have the option for storage of archived based documents.**

**The storage solution must offer a cost effective solution for long term storage of these files. Which of the following would you choose as the data storage type?**

- Azure Cosmos DB -SQL API
- Azure SQL database-Elastic Pools
- Azure storage accounts-General Purpose v2

**Explanation:-**Since We need to use Azure storage account for this requirement. we have to choose general purpose V2

- Azure SQL Datawarehouse-Gen2

---

**Q50)**

**A Company currently has an on-premise data centre that has a set of servers hosting several applications. The company is setting up an Azure subscription. Below are the network details**

Name	Type	Address space
XYZ-vnet1	Azure virtual network	10.1.0.0/16
XYZ-vnet2	Azure virtual network	10.2.0.0/16
XYZnetwork	On-premise	10.1.0.10/24

**The company wants to establish connectivity between the networks.**

**Which of the following would they use to connect “XYZ- vnet1” to “XYZ-vnet2”? The traffic should not flow via the internet**

- Point-to-Site virtual private network connection
- Site-to-Site virtual private network connection
- Azure express route
- Virtual network peering

**Explanation:-**To connect 2 Azure virtual networks together and ensure the traffic does not flow via the internet. we have to choose virtual network peering

---

**Q51)**

**A Company currently has an on-premise data centre that has a set of servers hosting several applications.**

**The company is setting up an Azure subscription. Below are the network details**

Name	Type	Address space
XYZ-vnet1	Azure virtual network	10.1.0.0/16
XYZ-vnet2	Azure virtual network	10.2.0.0/16
XYZnetwork	On-premise	10.1.0.10/24

**The company wants to establish connectivity between the networks.**

**Which of the following would they use to connect “XYZ- vnet1” to “XYZnetwork”? Choose 2 answers from the options given below**

- Point-to-Site virtual private network connection
- Site-to-Site virtual private network connection

**Explanation:-**You can use either a site-to-site virtual private network connection or an Azure express route connection to connect an on-premise data center to an Azure virtual network

- Azure express route

**Explanation:-**You can use either a site-to-site virtual private network connection or an Azure express route connection to connect an on-premise data center to an Azure virtual network

- Virtual network peering

---

**Q52)**

**A Company wants to set up storage account in Azure. Below are the primary requirements**

- 1) Ability to store documents.**

2) Be available in the event of a data centre failure.

3) 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)

**Explanation:-**Here the most cost effective replication technique would be zone redundant storage (ZRS)

- Geo redundant storage (GRS)
- Read-access Geo-redundant storage (RA-GRS)

---

Q53)

A company is planning on setting up standard DSv2 Windows virtual machines. Each Virtual Machine would have two network interfaces adapters.

You have to look into a solution with the below requirements

- 1) Increase the network performance of the applications running on the virtual machines.
- 2) Ensure cost are minimized while implementing the solution.

Which of the following would you implement to fulfill the requirements?

- Increase the instance size
- Implement accelerated networking

**Explanation:-**You can increase network performance by implementing accelerated networking

- Add an additional disk
- Add an additional network interface card

---

Q54)

A Company is planning on developing and deploying web based application to Azure. Application would be developed in .Net core. The company wants the development team to be able to diagnose issues in the application.

They should also be able to see the performance of individual requests made to the web application. They would enable them to detect any performance issues in the application.

The development team decides to use Azure advisor for this purpose.

Would this fulfill the requirement?

- Correct
- Incorrect

**Explanation:-**Azure advisor is used as a recommendation's engine. This service can be used to provide security and performance recommendations. it can't be used to diagnose web based application

---

Q55)

A Company is planning on developing and deploying web based application to Azure. Application would be developed in .Net core. The company wants the development team to be able to diagnose issues in the application.

They should also be able to see the performance of individual requests made to the web application. They would enable them to detect any performance issues in the application.

The development team decides to use Application Insights for this purpose.

Would this fulfill the requirement?

- Correct
- Incorrect

**Explanation:-**This is an ideal solution for monitoring web based applications. the Microsoft documentation mentions the following

- Incorrect

---

Q56)

A Company is planning on developing and deploying web based application to Azure. Application would be developed in .Net core. The company wants the development team to be able to diagnose issues in the application.

They should also be able to see the performance of individual requests made to the web application.

They would enable them to detect any performance issues in the application.

The development team decides to use Network Watcher for this purpose.

Would this fulfill the requirement?

- Correct
- Incorrect

**Explanation:-**This is primarily a network monitoring solution.

---

Q57)

A Company has an Azure environment that consists of the following virtual networks

Virtual Network Name	Subscription Name	Virtual Network Type	Region
Network A	Subscription 1	Virtual Network A	Region 1

XYZ-vnet1	SubscriptionA	Classic	US East
XYZ-vnet2	SubscriptionA	Resource Manager	US East
XYZ-vnet3	SubscriptionB	Classic	Central US
XYZ-vnet4	SubscriptionB	Resource Manager	Central US

You have to advise on the possible network connectivity options using virtual network peering for the virtual networks.

Can you create a virtual network peering connection between “ XYZ-vnet1” and “XYZ-vnet2” ?



**Explanation:**-You can create virtual network peering connections between network in different deployment models



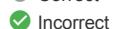
#### Q58)

A Company has an Azure environment that consists of the following virtual networks

Virtual Network Name	Subscription Name	Virtual Network Type	Region
XYZ-vnet1	SubscriptionA	Classic	US East
XYZ-vnet2	SubscriptionA	Resource Manager	US East
XYZ-vnet3	SubscriptionB	Classic	Central US
XYZ-vnet4	SubscriptionB	Resource Manager	Central US

You have to advise on the possible network connectivity options using virtual network peering for the virtual networks.

Can you create a virtual network peering connection between “ XYZ-vnet1” and “XYZ-vnet3” ?



**Explanation:**-You can't create a virtual network peering connection between network in the Classic deployment model

#### Q59)

A Company has an Azure environment that consists of the following virtual networks

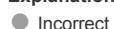
Virtual Network Name	Subscription Name	Virtual Network Type	Region
XYZ-vnet1	SubscriptionA	Classic	US East
XYZ-vnet2	SubscriptionA	Resource Manager	US East
XYZ-vnet3	SubscriptionB	Classic	Central US
XYZ-vnet4	SubscriptionB	Resource Manager	Central US

You have to advise on the possible network connectivity options using virtual network peering for the virtual networks.

Can you create a virtual network peering connection between “ XYZ-vnet2” and “XYZ-vnet3” ?



**Explanation:**-You can create virtual network peering connections between networks in different subscriptions or regions



#### Q60)

A Company has an Azure environment that consists of the following virtual networks

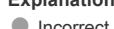
Virtual Network Name	Subscription Name	Virtual Network Type	Region
XYZ-vnet1	SubscriptionA	Classic	US East
XYZ-vnet2	SubscriptionA	Resource Manager	US East
XYZ-vnet3	SubscriptionB	Classic	Central US
XYZ-vnet4	SubscriptionB	Resource Manager	Central US

You have to advise on the possible network connectivity options using virtual network peering for the virtual networks.

Can you create a virtual network peering connection between “ XYZ-vnet2” and “XYZ-vnet4” ?



**Explanation:**-You can create virtual network peering connections between networks in different subscriptions or regions



#### Q61)

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

- 1) Datastore 1- This data store needs to store table like data. The data needs to be available 99.99% of the time. it should also provide less than 10ms latency for reads and less than 15ms latency for writes.

**2) Datastore 2- This would be used to store petabytes of data. You should be able to run complex queries across the data store.**

**Which of the following could be used to hold the data for Datastore1?**

- Azure SQL database
- Azure storage accounts
- Azure CosmosDB

**Explanation:-**Azure CosmosDB can both provide the required SLA and the required latency for reads and writes.

- Azure SQL Datawarehouse

---

**Q62)**

**A Company needs to create a series of data stores in Azure. Below are the key requirements for the different data stores.**

**1) Datastore 1- This data store needs to store table like data. The data needs to be available 99.99% of the time. it should also provide less than 10ms latency for reads and less than 15ms latency for writes.**

**2) Datastore 2- This would be used to store petabytes of data. You should be able to run complex queries across the data store.**

**Which of the following could be used to hold the data for Datastore2?**

- Azure SQL database
- Azure storage accounts
- Azure CosmosDB
- Azure SQL Datawarehouse

**Explanation:-**The ideal solution for this is the SQL Datawarehouse

---

**Q63)**

**Your team currently has an Azure batch account defined. You need to use Azure AD authentication with the Azure Batch account.**

**Which of the following are two authentication techniques available for the Azure Batch account with Azure AD?**

- Basic authentication
- Role based access
- Integrated authentication

**Explanation:-**This is clearly given in the Microsoft documentation

- Service principal

**Explanation:-**This is clearly given in the Microsoft documentation

---

**Q64)**

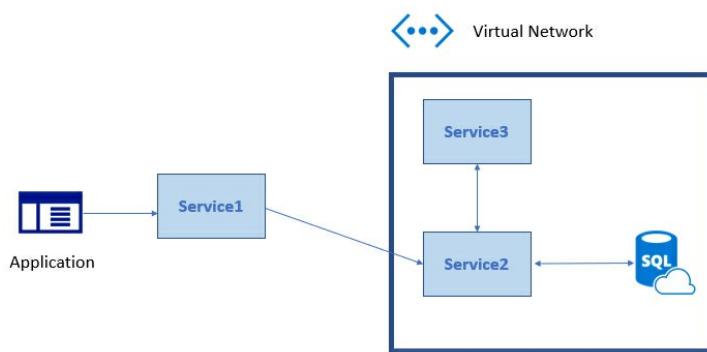
**A Company wants to migrate an existing application onto Azure. The application currently runs as docker based container.**

**The company has set up the following**

- 1) A virtual network**
- 2) An Azure SQL database as the data store.**

**They also need the following services**

- 1) Service-1 This service should be fully managed service capable of storing the images for the application.**
- 2) Service-2 This service should be able to manage and scale the application.**
- 3) Service-3 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

**Explanation:-**You can use the Azure container registry to store the docker based image for your application

- Azure AD
- Azure storage account

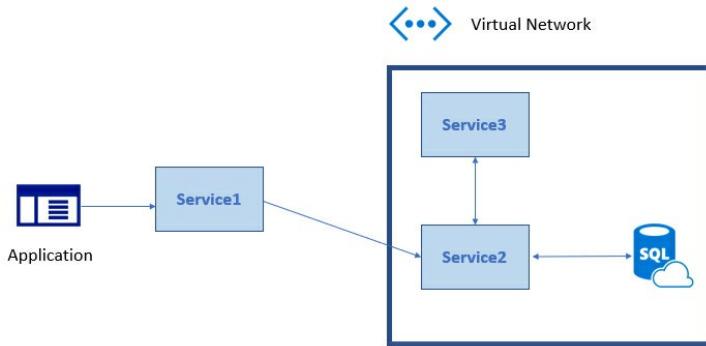
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**Q65)**

**A Company wants to migrate an existing application onto Azure. The application currently runs as docker based container. The**

company has set up the following

- 1) A virtual network
  - 2) An Azure SQL database as the data store.
- They also need the following services
- 1) Service-1 This service should be fully managed service capable of storing the images for the application.
  - 2) Service-2 This service should be able to manage and scale the application.
  - 3) Service-3 This service should be able to control access to the resources for Service2 .



Which of the following would you consider for Service2?

- Azure kubernetes

**Explanation:-**You can use the Azure Kubernetes to manage your docker based applications

- Azure container registry
- Azure AD
- Azure storage account

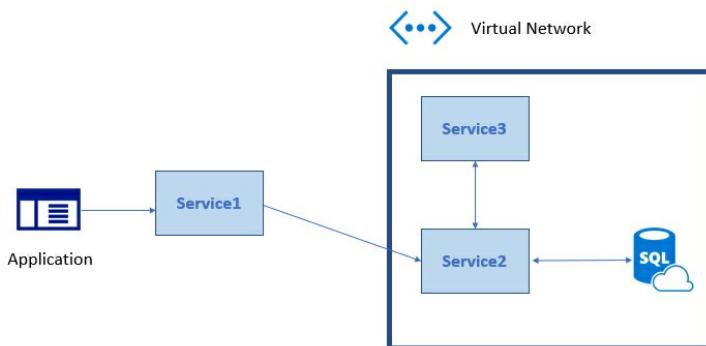
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Q66)

A Company wants to migrate an existing application onto Azure. The application currently runs as docker based container. The company has set up the following

- 1) A virtual network
  - 2) An Azure SQL database as the data store.
- They also need the following services

- 1) Service-1 This service should be fully managed service capable of storing the images for the application.
- 2) Service-2 This service should be able to manage and scale the application.
- 3) Service-3 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

**Explanation:-**You can use the Azure AD to control access to Azure kubernetes resources

- Azure storage account

---

Q67)

A Company currently has a set of servers in their on premise environment. They want to use Azure site recovery for disaster recovery purpose.

During a failover to Azure, they want to ensure custom scripts are run as part of the failover. Which of the following can be used to incorporate the scripts in the failover?

- Azure custom script extensions
- Azure automation Runbooks

**Explanation:-**You can use Azure automation runbook to run scripts as part of the failover

- Azure powershell DSC extension
  - Azure backup
- 

**Q68)**

**A Company currently has a set of servers in their on premise environment. They want to use Azure site recovery for disaster recovery purpose.**

**During a failover to Azure, they want to ensure custom scripts are run as part of the failover.**

**Which of the following would you need to customize in Azure site recovery to fulfill this requirement?**

- Backup policy
- Recovery policy
- Recovery plan

**Explanation:-**You have to customize the recovery plan for this. Microsoft documentation mention the following

- Failover
- 

**Q69)**

**A Company has just set up an Azure subscription and an Azure tenant. They want to use the below features in Azure AD**

- 1) Ability to provision and managed group based access.**
- 2) Allowed self service password reset for cloud based user.**

**You need to decide on the most cost efficient Azure AD pricing tier to use for the above requirements?**

**Which of the following could you use for the below requirements?**

**“Ability to provision and manage group based access”**

- Free
- Office 365 Apps

**Explanation:-**This feature is available with the Office 365 Apps pricing tier for Azure AD

- PREMIUM P1
  - PREMIUM P2
- 

**Q70)**

**A Company has just set up an Azure subscription and an Azure tenant. They want to use the below features in Azure AD**

- 1) Ability to provision and managed group based access.**
- 2) Allowed self service password reset for cloud based user.**

**You need to decide on the most cost efficient Azure AD pricing tier to use for the above requirements?**

**Which of the following could you use for the below requirements?**

**“Allowed self service password reset for cloud based user”**

- Basic
- PREMIUM P1
- Free

**Explanation:-**Link - <https://azure.microsoft.com/en-in/pricing/details/active-directory/>

- PREMIUM P2
-