

## Microsoft Azure Certification AZ-301 Exam



> Vendor: Microsoft

> Exam Code: AZ-301

> Exam Name: Microsoft Azure Architect Design

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#### **NEW QUESTION 178**

Your company has an on-premises Active Directory Domain Services (AD DS) domain and an established Azure Active Directory (Azure AD) environment. Your company would like users to be automatically signed in to cloud apps when they are on their corporate desktops that are connected to the corporate network. You need to enable single sign-on (SSO) for company users.

Solution: Install and configure an Azure AD Connect server to use pass-through authentication and select the Enable single sign-on option.

Does the solution meet the goal?

A. Yes B. No

Answer: A

#### **NEW QUESTION 179**

Your company has an on-premises Active Directory Domain Services (AD DS) domain and an established Azure Active Directory (Azure AD) environment. Your company would like users to be automatically signed in to cloud apps when they are on their corporate desktops that are connected to the corporate network. You need to enable single sign-on (SSO) for company users.

Solution: Configure an AD DS server in an Azure virtual machine (VM). Configure bidirectional replication.

Does the solution meet the goal?

A. Yes B. No

Answer: B

#### **NEW QUESTION 180**

You are designing a security solution for a company's Azure Active Directory (Azure AD). The company currently uses Azure AD Premium for all employees. Contractors will periodically access the corporate network based on demand. You must ensure that all employees and contractors are required to log on by using two-factor authentication. The solution must minimize costs. You need to recommend a solution. What should you recommend?

- A. Purchase Azure Multi-Factor Authentication licenses for the employees and the contractors.
- B. Use the Multi-Factor Authentication provider in Azure and configure the usage model for each authentication type.
- C. Use the Multi-Factor Authentication provider in Azure and configure the usage model for each enabled user.
- D. Purchase Azure Multi-Factor Authentication licenses for the contractors only.

Answer: C

#### **NEW QUESTION 181**

You have an Azure Active Directory (Azure AZD) tenant named contoso.com. The tenant contains a group named Group1. Group1 contains all the administrative user accounts. You discover several login attempts to the Azure portal from countries where administrative users do NOT work. You need to ensure that all login attempts to the Azure portal from those countries require Azure Multi-Factor Authentication (MFA).

Solution: You implement an access package.

Does this solution meet the goal?

A. Yes

B. No

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Answer: B

#### **NEW QUESTION 182**

You have an Azure Active Directory (Azure AZD) tenant named contoso.com. The tenant contains a group named Group1. Group1 contains all the administrative user accounts. You discover several login attempts to the Azure portal from countries where administrative users do NOT work. You need to ensure that all login attempts to the Azure portal from those countries require Azure Multi-Factor Authentication (MFA).

Solution: Implement Azure AD Privileged Identity Management.

Does this solution meet the goal?

A. Yes

B. No

Answer: A

#### **NEW QUESTION 183**

You have 100 Microsoft SQL Server Integration Services (SSIS) packages that are configured to use 10 on-premises SQL Server databases as their destinations. You plan to migrate the 10 on-premises databases to Azure SQL Database. You need to recommend a solution to host the SSIS packages in Azure. The solution must ensure that the packages can target the SQL Database instances as their destinations. What should you include in the recommendation?

- A. SQL Server Migration Assistant (SSMA)
- B. Azure Data Factory
- C. Data Migration Assistant
- D. Azure Data Catalog

Answer: C

#### **NEW QUESTION 184**

You develop a new Azure Web App that uses multiple Azure blobs and static content. The Web App uses a large number of JavaScript files and cascading style sheets. Some of these files contain references to other files. Users are geographically dispersed. You need to minimize the time to load individual pages. What should you do?

- A. Migrate the Web App to Azure Service Fabric.
- B. Use an Azure Content Delivery Network (CDN).
- C. Implement an Azure Redis Cache.
- D. Create a services layer by using an Azure-hosted ASP.NET web API.
- E. Enable the Always On feature of the Web App.

Answer: B

#### **NEW QUESTION 185**

You have an Azure subscription that contains an Azure Blob storage account named store1. You have an on-premises file server named Server1 that runs Windows Server 2016. Server1 stores 500 GB of company files. You need to store a copy of the company files in store1. Which two possible Azure services achieve this goal? (Each correct answer presents a complete solution. Choose two.)

### A. an Azure Import/Export job

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- B. an integration account
- C. an Azure Batch account
- D. Azure data Factory
- E. an On-premises data gateway

Answer: AD

#### **NEW QUESTION 186**

You have a web app named App1 that is hosted on-premises and on four Azure virtual machines. Each virtual machine is in a different region. You need to recommend a solution to ensure that users will always connect to the closest instance of App1. The solution must prevent the users from attempting to connect to a failed instance of App1. Which two possible recommendations achieve the goal? (Each correct answer presents a complete solution. Choose two.)

- A. Azure Front Door Service
- B. Azure Load Balancer
- C. round-robin DNS
- D. Azure Traffic Manager
- E. Azure Application Gateway

Answer: AD

#### **NEW QUESTION 187**

You are designing a microservices architecture that will support a web application. The solution must meet the following requirements:

- Allow independent upgrades to each microservice
- Deploy the solution on-premises and to Azure
- Set policies for performing automatic repairs to the microservices
- Support low-latency and hyper-scale operations

You need to recommend a technology. What should you recommend?

- A. Azure Service Fabric
- B. Azure Container Service
- C. Azure Container Instance
- D. Azure Virtual Machine Scale Set

Answer: A

### **NEW QUESTION 188**

Hotspot

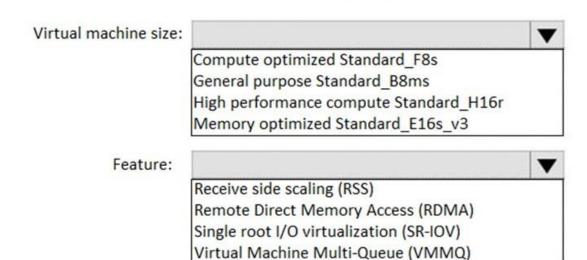
You plan to deploy a network-intensive application to several Azure virtual machines. You need to recommend a solution that meets the following requirements:

- Minimizes the use of the virtual machine processors to transfer data
- Minimizes network latency

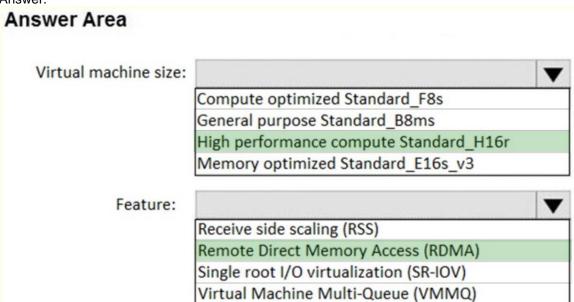
Which virtual machine size and feature should you use? (To answer, select the appropriate options in the answer area.)



## **Answer Area**



### Answer:



#### Explanation:

https://docs.microsoft.com/en-us/azure/virtual-machines/windows/sizes-hpc#h-series

#### **NEW QUESTION 189**

A company has the requirement to have an automated process in place which would upload logs to an Azure SQL database every week. Reports would then be generated from the SQL database. Which of the following would you use for this requirement?

- A. The AzCopy tool
- B. Azure Data Factory
- C. Azure HDInsight
- D. Data Migration Assistant



Answer: B Explanation:

You can use the Azure Data Factory to create a pipeline that can be used to copy data. Option A is incorrect since this is used for copying data from Azure storage accounts to on-premise and vice versa. Option C is incorrect since this is used to run Big data open source frameworks. Option D is incorrect since this is used to migrate data between SQL servers.

https://docs.microsoft.com/en-us/azure/data-factory/connector-sql-server

#### **NEW QUESTION 190**

Your team needs to deploy a Virtual machine that will host a SQL Server. The Virtual machine will have 2 data disks, one for the log file and the other for the data files. You need to recommend a caching policy for each disk. Which of the following would you recommend for the data disk containing the logs?

- A. None
- B. ReadOnly
- C. WriteOnly
- D. ReadWrite

Answer: A Explanation:

https://docs.microsoft.com/en-us/azure/virtual-machines/windows/sql/virtual-machines-windows-sql-performance

### **NEW QUESTION 191**

A company has setup an Azure subscription and an Azure tenant. You need to provide the development team to be able to start and stop Virtual Machines. The access needs to be granted on specific occasions only. You need to ensure the permission gets assigned and use the principle of least privilege. You also need to minimize costs. Which of the following security feature would you use for the requirement?

- A. Conditional Access policy
- B. Azure Policies
- C. Just in time VM access
- D. Privileged Identity Management

Answer: D Explanation:

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

#### **NEW QUESTION 192**

A company has deployed several applications across Windows and Linux Virtual machines in Azure. Log Analytics are being used to send the required data for alerting purposes for the Virtual Machines. You need to recommend which tables need to be queried for security related queries. Which of the following would you query for events from Windows Event Logs?

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



Answer: C Explanation:

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

#### **NEW QUESTION 193**

A company is planning on deploying an Azure Web App to 2 regions. One of the key requirements is to ensure that the web app is always running if an Azure region fails. You need to ensure deployment costs are minimized. Which of the following service would you include in the deployment of the solution?

- A. Azure Functions
- B. Azure Traffic Manager
- C. Azure Application Gateway
- D. Azure Load Balancer

Answer: B Explanation:

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

#### **NEW QUESTION 194**

A company has deployed several applications across Windows and Linux Virtual machines in Azure. Log Analytics are being used to send the required data for alerting purposes for the Virtual Machines. You need to recommend which tables need to be queried for security related queries. Which of the following would you query for events from Linux system logging?

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

Answer: D Explanation:

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

#### **NEW QUESTION 195**

A company is planning on deploying a stateless based application based on microservices using the Azure Service Fabric service. You need to design the infrastructure that would be required in the Azure Service Fabric service. Which of the following should you consider? (Choose two.)

- A. The number of node types in the cluster.
- B. The properties for each node type.
- C. The network connectivity.
- D. The service tier.

Answer: AB Explanation:

https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-cluster-capacity

### **NEW QUESTION 196**

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#### **NEW QUESTION 225**

A company named Contoso, Ltd. has an Azure Active Directory (Azure AD) tenant that is integrated

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with Microsoft Office 365 and an Azure subscription. Contoso has an on-premises identity infrastructure. The infrastructure includes servers that run Active Directory Domain Services (AD DS), Active Directory Federation Services (AD FS), Azure AD Connect, and Microsoft Identity Manager (MIM). Contoso has a partnership with a company named Fabrikam, Inc. Fabrikam has an Active Directory forest and an Office 365 tenant. Fabrikam has the same on-premises identity infrastructure as Contoso. A team of 10 developers from Fabrikam will work on an Azure solution that will be hosted in the Azure subscription of Contoso. The developers must be added to the Contributor role for a resource in the Contoso subscription. You need to recommend a solution to ensure that Contoso can assign the role to the 10 Fabrikam developers. The solution must ensure that the Fabrikam developers use their existing credentials to access resources. What should you recommend?

- A. Configure an AD FS relying party trust between the Fabrikam and Contoso AD FS infrastructures.
- B. Configure an organization relationship between the Office 365 tenants of Fabrikam and Contoso.
- C. In the Azure AD tenant of Contoso, create guest accounts for the Fabrikam developers.
- D. Configure a forest trust between the on-premises Active Directory forests of Contoso and Fabrikam.

Answer: D Explanation:

Trust configurations - configure trust from managed forests(s) or domain(s) to the administrative forest A one-way trust is required from production environment to the admin forest. Selective authentication should be used to restrict accounts in the admin forest to only logging on to the appropriate production hosts.

https://docs.microsoft.com/en-us/windows-server/identity/securing-privileged-access/securing-privileged-access-reference-material

### **NEW QUESTION 226**

You have an Azure Active Directory (Azure AD) tenant named contoso.com that has a security group named Group1. Group1 is configured for assigned membership. Group1 has 50 members, including 20 guest users. You need to recommend a solution for evaluating the membership of Group1. The solution must meet the following requirements:

- The evaluation must be repeated automatically every three months.
- Every member must be able to report whether they need to be in Group1.
- Users who report that they do not need to be in Group1 must be removed from Group1 automatically.
- Users who do not report whether they need to be in Group1 must be removed from Group1 automatically.

What should you include in the recommendation?

- A. Implement Azure AD Identity Protection.
- B. Change the Membership type of Group1 to Dynamic User.
- C. Create an access review.
- D. Implement Azure AD Privileged Identity Management.

Answer: B Explanation:

In Azure Active Directory (Azure AD), you can create complex attribute-based rules to enable dynamic memberships for groups. Dynamic group membership reduces the administrative overhead of adding and removing users. When any attributes of a user or device change, the system evaluates all dynamic group rules in a directory to see if the change would trigger any group adds or removes. If a user or device satisfies a rule on a group, they are added as a member of that group. If they no longer satisfy the rule, they are removed.



https://docs.microsoft.com/en-us/azure/active-directory/users-groups-roles/groups-dynamic-membership

#### **NEW QUESTION 227**

You have an Azure subscription that contains an Azure Cosmos DB account. You need to recommend a solution to generate an alert from Azure Log Analytics when a request charge for a query exceeds 50 request units more than 20 times within a 15-minute window. What should you recommend?

A. Create a search query to identify when requestCharge\_s exceeds 50.

Configure an alert threshold of 20 and a period of 15.

B. Create a search query to identify when duration\_s exceeds 20 and requestCharge\_s exceeds 50.

Configure a period of 15.

C. Create a search query to identify when requestCharge\_s exceeds 20.

Configure a period of 15 and a frequency of 20.

D. Create a search query to identify when duration\_s exceeds 20.

Configure a period of 15.

Answer: A

### **NEW QUESTION 228**

You have 70 TB of files on your on-premises file server. You need to recommend solution for importing data to Azure. The solution must minimize cost. What Azure service should you recommend?

- A. Azure StorSimple
- B. Azure Stack
- C. Azure Data Box
- D. Azure Batch

Answer: C Explanation:

Microsoft has engineered an extremely powerful solution that helps customers get their data to the Azure public cloud in a cost-effective, secure, and efficient manner with powerful Azure and machine learning at play. The solution is called Data Box. Data Box and is in general availability status. It is a rugged device that allows organizations to have 100 TB of capacity on which to copy their data and then send it to be transferred to Azure.

Incorrect:

Not A: StoreSimple would not be able to handle 70 TB of data.

https://www.vembu.com/blog/what-is-microsoft-azure-data-box-disk-edge-heavy-gateway-overview/

### **NEW QUESTION 229**

You have an Azure subscription. Your on-premises network contains a file server named Server1. Server1 stores 5 TB of company files that are accessed rarely. You plan to copy the files to Azure Storage. You need to implement a storage solution for the files that meets the following requirements:

- The files must be available within 24 hours of being requested.
- Storage costs must be minimized.

Which two possible storage solutions achieve this goal? (Each correct answer presents a complete solution. Choose two.)

A. Create a general-purpose v2 storage account that is set to the Cool access tier. Create a file share in the storage account and copy the files to the file share.

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B. Create a general-purpose v2 storage account that is set to the Host access tier.

Create a blob container, copy the files to the blob container, and set each file to the Archive access tier.

C. Create a general-purpose v1 storage account.

Create a file share in the storage account and copy the files to the file share.

D. Create an Azure Blob storage account that is set to the Cool access tier.

Create a blob container, copy the files to the blob container, and set each file to the Archive access tier.

Create a general-purpose v1 storage account.

Create a blob container and copy the files to the blob container.

Answer: AE Explanation:

A: Azure storage offers different access tiers, which allow you to store blob object data in the most cost- effective manner. The Cool access tier is optimized for storing data that is infrequently accessed and stored for at least 30 days.

E: Using a file share is cheaper than using a blob container.

Incorrect:

Not B, D: The Archive tier is optimized for storing data that is rarely accessed and stored for at least 180 days with flexible latency requirements (on the order of hours).

Not C: Using a Blob container would be cheaper than using a file share.

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

#### **NEW QUESTION 230**

You have an on-premises Hyper-V clusters that hosts 20 virtual machines. Some virtual machines run Windows Server 2016 and some run Linux. You plan to migrate the virtual machines to an Azure subscription. You need to recommend a solution to replicate the disks of the virtual machines to Azure. The solution must ensure that the virtual machines remain available during the migration of the disks.

Solution: You recommend implementing an Azure Storage account that has a file service and a blob service, and then using the Data Migration Assistant.

Does this meet the goal?

A. Yes B No

Answer: B Explanation:

Data Migration Assistant is used to migrate SQL databases. Instead use Azure Site Recovery. https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-overview

### **NEW QUESTION 231**

You have an on-premises Hyper-V clustern that hosts 20 virtual machines. Some virtual machines run Windows Server 2016 and some run Linux. You plan to migrate the virtual machines to an Azure subscription. You need to recommend a solution to replicate the disks of the virtual machines to Azure. The solution must ensure that the virtual machines remain available during the migration of the disks.

Solution: You recommend implementing a Recovery Services vault, and then using Azure Site Recovery.

Does this meet the goal?

A. Yes B. No

Answer: A



### Explanation:

Site Recovery can replicate on-premises VMware VMs, Hyper-V VMs, physical servers (Windows and Linux), Azure Stack VMs to Azure.

https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-overview

#### **NEW QUESTION 232**

You are designing an Azure web app. You need to ensure that users who have impaired vision can use the app. Which reference material should you use when designing the app?

- A. Accessibility in Windows Dev Center
- B. Azure Application Architecture Guide
- C. Web Content Accessibility Guidelines
- D. Cloud Application Architecture Guide

Answer: C Explanation:

https://www.microsoft.com/en-us/trust-center/compliance/accessibility

### **NEW QUESTION 233**

You manage an Azure environment for a company. The environment has over 25,000 licensed users and 100 mission-critical applications. You need to recommend a solution that provides advanced endpoint threat detection and remediation strategies. What should you recommend?

- A. Azure Active Directory (Azure AD) Authentication
- B. Microsoft Identity Manager
- C. Azure Active Directory Federation Services (AD FS)
- D. Azure Active Directory (AZ AD) Connect
- E. Azure Active Directory (Azure AD) Identity Protection

Answer: E Explanation:

Identity Protection uses adaptive machine learning algorithms and heuristics to detect anomalies and risk detections that might indicate that an identity has been compromised. Using this data, Identity Protection generates reports and alerts so that you can investigate these risk detections and take appropriate remediation or mitigation action.

https://docs.microsoft.com/en-us/azure/security/fundamentals/threat-detection

### **NEW QUESTION 234**

You have an Azure Storage account that contains two 1-GB data files named File1 and File2. The data files are set to use the archive access tier. You need to ensure that File1 is accessible immediately when a retrieval request is initiated.

Solution: You move File1 to a new storage account. For File1, you set Access tier to Archive. Does this meet the goal?

A. Yes B. No

Answer: B Explanation:

Instead use the hot access tier. The hot access tier has higher storage costs than cool and archive tiers, but the lowest access costs.

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

#### **NEW QUESTION 235**

You have an Azure Storage account that contains two 1-GB data files named File1 and File2. The

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data files are set to use the archive access tier. You need to ensure that File1 is accessible immediately when a retrieval request is initiated.

Solution: For File1, you set Access tier to Hot.

Does this meet the goal?

A. Yes B. No

Answer: A Explanation:

The hot access tier has higher storage costs than cool and archive tiers, but the lowest access costs.

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

#### **NEW QUESTION 236**

You have an application named App1. App1 generates log files that must be archived for five years. The log files must be readable by App1 but must not be modified. Which storage solution should you recommend for archiving?

- A. Use an Azure Blob storage account and a time-based retention policy.
- B. Ingest the log files into an Azure Log Analytics workspace.
- C. Use an Azure Blob storage account configured to use the Archive access tier.
- D. Use an Azure file share that has access control enabled.

Answer: A Explanation:

https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-immutable-storage

#### **NEW QUESTION 237**

You plan to archive 10 TB of on-premises data files to Azure. You need to recommend a data archival solution. The solution must minimize the cost of storing the data files. Which Azure Storage account type should you include in the recommendation?

- A. Premium Storage (general purpose v1)
- B. Standard StorageV2 (general purpose v2)
- C. Standard Storage (general purpose v1)
- D. Premium StorageV2 (general purpose v2)

Answer: B Explanation:

Standard StorageV2 supports the Archive access tier, which would be the cheapest solution. https://docs.microsoft.com/en-us/azure/storage/common/storage-introduction

#### **NEW QUESTION 238**

You are developing a sales application that will contain several Azure cloud services and will handle different components of a transaction. Different cloud services will process customer orders, billing, payment, inventory, and shipping. You need to recommend a solution to enable the cloud services to asynchronously communicate transaction information by using REST messages. What should you include in the recommendation?

- A. Azure Data Lake
- B. Azure Service Fabric
- C. Azure Service Bus
- D. Azure Notification Hubs



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Answer: C Explanation:

Service Bus is a transactional message broker and ensures transactional integrity for all internal operations against its message stores. All transfers of messages inside of Service Bus, such as moving messages to a dead-letter queue or automatic forwarding of messages between entities, are transactional.

Incorrect:

Not D: Azure Notification Hubs is a massively scalable mobile push notification engine for quickly sending millions of notifications to iOS, Android, Windows, or Kindle devices.

https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-transactions

#### **NEW QUESTION 239**

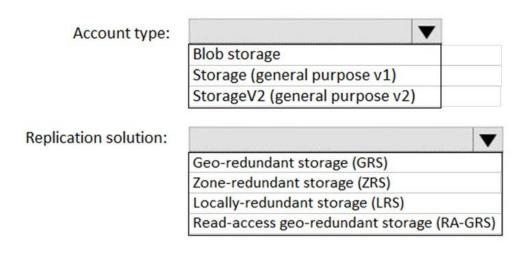
Hotspot

You have an on-premises file server that stores 2 TB of data files. You plan to move the data files to Azure Blob storage in the Central Europe region. You need to recommend a storage account type to store the data files and a replication solution for the storage account. The solution must meet the following requirements:

- Be available if a single Azure datacenter fails.
- Support storage tiers.
- Minimize cost.

What should you recommend? (To answer, select the appropriate options in the answer area.)

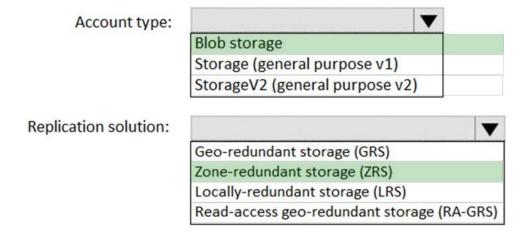
### Answer Area



Answer:

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### **Answer Area**



### Explanation:

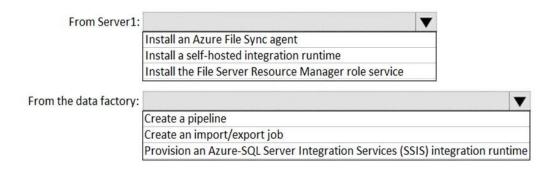
https://cloud.netapp.com/blog/storage-tiers-in-azure-blob-storage-find-the-best-for-your-data https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy

### **NEW QUESTION 240**

Hotspot

Your on-premises network contains a file server named Server1 that stores 500 GB of data. You need to use Azure Data Factory to copy the data from Server1 to Azure Storage. You add a new data factory. What should you do next? (To answer, select the appropriate options in the answer area.)

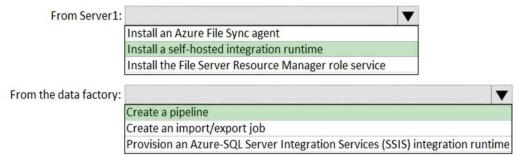
## **Answer Area**



Answer:



#### **Answer Area**



### Explanation:

Box 1: Install a self-hosted integration runtime. The Integration Runtime is a customer-managed data integration infrastructure used by Azure Data Factory to provide data integration capabilities across different network environments.

Box 2: Create a pipeline. With ADF, existing data processing services can be composed into data pipelines that are highly available and managed in the cloud. These data pipelines can be scheduled to ingest, prepare, transform, analyze, and publish data, and ADF manages and orchestrates the complex data and processing dependencies.

https://docs.microsoft.com/en-us/azure/machine-learning/team-data-science-process/move-sql-azure-adf

**NEW QUESTION 241** 

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