Case Study: 1 VanArsdel, Ltd

Overview
VanArsdel, Ltd. builds skyscrapers, subways, and bridges. VanArsdel is a leader in using technology to do construction better.

Overview
VanArsdel employees are able to use their own mobile devices for work activities because the company recognizes that this usage enables employee productivity. Employees also access Software as a Service (SaaS) applications, including DocuSign, Dropbox, and Citrix. The company continues to evaluate and adopt more SaaS applications for its business. VanArsdel uses Azure Active Directory (AD) to authenticate its employees, as well as Multi-Factor Authentication (MFA). Management enjoys the ease with which MFA can be enabled and disabled for employees who use cloud-based services. VanArsdel's on-premises directory contains a single forest.

Helpdesk
VanArsdel creates a helpdesk group to assist its employees. The company sends email messages to all its employees about the helpdesk group and how to contact it. Configuring employee access for SaaS applications is often a time-consuming task. It is not always obvious to the helpdesk group which users should be given access to which SaaS applications. The helpdesk group must respond to many phone calls and email messages to solve this problem, which takes up valuable time. The helpdesk group is unable to meet the needs of VanArsdel's employees. However, many employees do not work with the helpdesk group to solve their access problems. Instead, these employees contact their co-workers or managers to find someone who can help them. Also, new employees are not always told to contact the helpdesk group for access problems. Some employees report that they cannot see all the applications in the Access Panel that they have access to. Some employees report that they must re-enter their passwords when they access cloud applications, even though they have already authenticated.

Bring your own device (BYOD)
VanArsdel wants to continue to support users and their mobile and personal devices, but the company is concerned about how to protect corporate assets that are stored on these devices. The company does not have a strategy to ensure that its data is removed from the devices when employees leave the company.

Customer Support
VanArsdel wants a mobile app for customer profile registration and feedback. The company would like to keep track of all its previous, current, and future customers worldwide. A profile system using third-party authentication is required as well as feedback and support sections for the mobile app.

Migration
VanArsdel plans to migrate several virtual machine (VM) workloads into Azure. They also plan to extend their on-premises Active Directory into Azure for mobile app authentication.

Business Requirements

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Hybrid Solution
• A single account and credentials for both on-premises and cloud applications
• Certain applications that are hosted both in Azure and on-site must be accessible to both VanArsdel employees and partners
• The service level agreement (SLA) for the solution requires an uptime of 99.9%
• The partners all use Hotmail.com email addresses

Mobile App
VanArsdel requires a mobile app for project managers on construction job sites. The mobile app has the following requirements:
• The app must display partner information.
• The app must alert project managers when changes to the partner information occur.
• The app must display project information including an image gallery to view pictures of construction projects.
• Project managers must be able to access the information remotely and securely.

Security
• VanArsdel must control access to its resources to ensure sensitive services and information are accessible only by authorized users and/or managed devices.
• Employees must be able to securely share data, based on corporate policies, with other VanArsdel employees and with partners who are located on construction job sites.
• VanArsdel management does NOT want to create and manage user accounts for partners.

Technical Requirements
Architecture
• VanArsdel requires a non-centralized stateless architecture fonts data and services where application, data, and computing power are at the logical extremes of the network.
• VanArsdel requires separation of CPU storage and SQL services

Data Storage
VanArsdel needs a solution to reduce the number of operations on the contractor information table. Currently, data transfer rates are excessive, and queue length for read/write operations affects performance.

Mobile Apps
• A mobile service that is used to access contractor information must have automatically scalable, structured storage
• Images must be stored in an automatically scalable, unstructured form.
• VanArsdel mobile app must authenticate employees to the company’s Active Directory.
• Event-triggered alerts must be pushed to mobile apps by using a custom Node.js script.
• The customer support app should use an identity provider that is configured by using the Access Control Service for current profile registration and authentication.
• The customer support team will adopt future identity providers that are configured through Access Control Service.

Security
• Active Directory Federated Server (AD FS) will be used to extend AD into Azure.
• Helpdesk administrators must have access to only the groups of Azure resources they are responsible for. Azure administration will be performed by a separate group.
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• IT administrative overhead must be minimized.
• Permissions must be assigned by using Role Based Access Control (RBAC).
• Line of business applications must be accessed securely.

Question: 1
You need to configure availability for the virtual machines that the company is migrating to Azure. What should you implement?

A. Traffic Manager
B. Availability Sets
C. Virtual Machine Autoscaling
D. Cloud Services

Answer: D

Explanation:
Scenario: VanArsdel plans to migrate several virtual machine (VM) workloads into Azure.

Question: 2
You are designing a plan to deploy a new application to Azure. The solution must provide a single sign-on experience for users. You need to recommend an authentication type. Which authentication type should you recommend?

A. SAML credential tokens
B. Azure managed access keys
C. Windows Authentication
D. MS-CHAP

Answer: A

Explanation:
A Microsoft cloud service administrator who wants to provide their Azure Active Directory (AD) users with sign-on validation can use a SAML 2.0 compliant SP-Lite profile based Identity...
Provider as their preferred Security Token Service (STS) I identity provider. This is useful where the solution implementer already has a user directory and password store on-premises that can be accessed using SAML 2.0. This existing user directory can be used for sign-on to Office 365 and other Azure AD secured resources.

Reference:
Use a SAML 2.0 identity provider to implement single sign-on

Question: 3
You need to prepare the implementation of data storage for the contractor information app. What should you?

A. Create a storage account and implement multiple data partitions.
B. Create a Cloud Service and a Mobile Service. Implement Entity Group transactions.
C. Create a Cloud Service and a Deployment group. Implement Entity Group transactions.
D. Create a Deployment group and a Mobile Service. Implement multiple data partitions.

Answer: B

Explanation:
*Scenario:
VanArsdel needs a solution to reduce the number of operations on the contractor information table. Currently, data transfer rates are excessive, and queue length for read/write operations affects performance.
A mobile service that is used to access contractor information must have automatically scalable, structured storage
*The basic unit of deployment and scale in Azure is the Cloud Service.

Reference:
Performing Entity Group Transactions

Question: 4 DRAG DROP
You need to recommend data storage mechanisms for the solution. What should you recommend? To answer, drag the appropriate data storage mechanism to the correct information type. Each data storage mechanism may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.
**Data Storage Mechanisms**

<table>
<thead>
<tr>
<th>Information Type</th>
<th>Data Storage Mechanism</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contractor information</td>
<td>Table storage</td>
</tr>
<tr>
<td>Project images</td>
<td>Blob storage</td>
</tr>
</tbody>
</table>

**Explanation:**

* use Table storage for Contractor information
* Use Blob for Project Images
* Scenario: VanArtsdel needs a solution to reduce the number of operations on the contractor information table. Currently, data transfer rates are excessive, and queue length for read/write operations affects performance.

. A mobile service that is used to access contractor information must have automatically scalable, structured storage

. Images must be stored in an automatically scalable, unstructured form.

Note: Blob is an acronym for Binary Large object. Basically Blob is a sequence of bytes - just what an application needs. Blob can hold audio, video, email messages, archived files, zip files or a word processing document in a very general way.

Reference:
Understanding Blob, Queue, Table storage in Windows Azure
http://www.thewindowsclub.com/understanding-blobqueueitable-storage-windows-azure

**Question: 5 DRAG DROP**

You are creating scripts to authenticate Azure monitoring tasks.
You need to authenticate according to the requirements. How should you complete the relevant Azure PowerShell script?
Develop the solution by selecting and arranging the required Azure PowerShell commands in the correct order.
### Question:

**NOTE:** You will not need all of the Azure PowerShell commands.

**Answer Area**

<table>
<thead>
<tr>
<th>Actions</th>
<th>Answer Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add-AzureAccount-Credential $credential</td>
<td>![Checkmark] ![Checkmark] ![Checkmark]</td>
</tr>
<tr>
<td>Select-AzureSubscription -SubscriptionName $subscription</td>
<td>![Checkmark] ![Checkmark] ![Checkmark]</td>
</tr>
<tr>
<td>Get-AzureAccount -Name $name</td>
<td>![Checkmark] ![Checkmark] ![Checkmark]</td>
</tr>
<tr>
<td>$credential = Get-AutomationPSCredential -Name $name</td>
<td>![Checkmark] ![Checkmark] ![Checkmark]</td>
</tr>
<tr>
<td>$credential = New-Object -TypeName System.Management.Automation.PSCredential -ArgumentList $username, $password</td>
<td>![Checkmark] ![Checkmark] ![Checkmark]</td>
</tr>
<tr>
<td>Get-AzureSubscription -SubscriptionName $subscription</td>
<td>![Checkmark] ![Checkmark] ![Checkmark]</td>
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</tbody>
</table>

**Answer:**

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</tr>
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<td>Get-AzureAccount -Name $name</td>
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</tr>
<tr>
<td>$credential = Get-AutomationPSCredential -Name $name</td>
<td>![Checkmark] ![Checkmark] ![Checkmark]</td>
</tr>
<tr>
<td>$credential = New-Object -TypeName System.Management.Automation.PSCredential -ArgumentList $username, $password</td>
<td>![Checkmark] ![Checkmark] ![Checkmark]</td>
</tr>
<tr>
<td>Get-AzureSubscription -SubscriptionName $subscription</td>
<td>![Checkmark] ![Checkmark] ![Checkmark]</td>
</tr>
</tbody>
</table>

**Explanation:**

From Scenario: Permissions must be assigned by using Role Based Access Control (RBAC). The following cmdlet is used to sign-in to Azure: Add-AzureAccount

If necessary, the following Azure cmdlets can be used to select the desired subscription:

- Get-AzureSubscription
- Select-AzureSubscription -SubscriptionName “SomeSubscription”
- Set-AzureSubscription -SubscriptionName “SomeSubscription”

**References:**

https://blogs.msdn.microsoft.com/cloud_solution_architect/2015/05/14/using-a-service-principal-for-azure-powershell-authentication/
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Question: 6
You need to ensure that users do not need to re-enter their passwords after they authenticate to cloud applications for the first time.
What should you do?

A. Enable Microsoft Account authentication.

B. Set up a virtual private network (VPN) connection between the VanArsdel premises and Azure datacenter. Set up a Windows Active Directory domain controller in Azure VM. Implement Integrated Windows authentication.

C. Deploy ExpressRoute.

D. Configure Azure Active Directory Sync to use single sign-on (SSO).

Answer: D

Explanation:
Single sign-on (SSO) is a property of access control of multiple related, but independent software systems. With this property a user logs in once and gains access to all systems without being prompted to log in again at each of them.
Reference:

Question: 7
You need to design the system that alerts project managers to data changes in the contractor information app.
Which service should you use?

A. Azure Mobile Service

B. Azure Service Bus Message Queueing

C. Azure Queue Messaging

D. Azure Notification Hub

Answer: C

Explanation:
*Scenario:
Mobile Apps: Event-triggered alerts must be pushed to mobile apps by using a custom Node.js
The service level agreement (SLA) for the solution requires an uptime of 99.9%

* If you are already using Azure Storage Blobs or Tables and you start using queues, you are guaranteed 99.9% availability. If you use Blobs or Tables with Service Bus queues, you will have lower availability.

Note: Microsoft Azure supports two types of queue mechanisms: Azure Queues and Service Bus Queues.

- Azure Queues, which are part of the Azure storage infrastructure, feature a simple REST-based Get/Put/Peek interface, providing reliable, persistent messaging within and between services.
- Service Bus queues are part of a broader Azure messaging infrastructure that supports queuing as well as publish/subscribe, Web service remoting, and integration patterns.

Reference:
Azure Queues and Service Bus Queues- Compared and Contrasted

Question: 8 HOTSPOT
You need to design the contractor information app.
What should you recommend? To answer, select the appropriate options in the answer area.

Answer Area
You must authenticate employees to the contractor information app.

- Azure Password Sync
- Azure Mobile Services
- Azure Active Directory
- Azure Active Directory Sync

You must synchronize data with the contractor information app.

- Azure Password Sync
- Azure Mobile Services
- Azure Active Directory
- Azure Active Directory Sync

Answer:

Answer Area
You must authenticate employees to the contractor information app.

- Azure Password Sync
- Azure Mobile Services
- Azure Active Directory
- Azure Active Directory Sync

You must synchronize data with the contractor information app.

- Azure Password Sync
- Azure Mobile Services
- Azure Active Directory
- Azure Active Directory Sync
Explanation:
They also plan to extend their on-premises Active Directory into Azure for mobile app authentication.
VanArsdel mobile app must authenticate employees to the company’s Active Directory.
Reference:
Get Started with Offline Data Sync in Mobile Services

Question: 9
You need to recommend a solution that allows partners to authenticate.
Which solution should you recommend?

A. Configure the federation provider to trust social identity providers.
B. Configure the federation provider to use the Azure Access Control service.
C. Create a new directory in Azure Active Directory and create a user account for the partner.
D. Create an account on the VanArsdel domain for the partner and send an email message that contains the password to the partner.

Answer: B

Explanation:
* Scenario: The partners all use Hotmail.com email addresses.
* In Microsoft Azure Active Directory Access Control (also known as Access Control Service or ACS), an identity provider is a service that authenticates user or client identities and issues security tokens that ACS consumes.
The ACS Management Portal provides built-in support for configuring Windows Live ID as an ACS Identity Provider.
Incorrect:
Not C, not D: Scenario: VanArsdel management does NOT want to create and manage user accounts for partners.
Reference:
Identity Providers

Question: 10
You need to assign permissions for the Virtual Machine workloads that you migrate to Azure.
The solution must use the principal of least privileges.
What should you do?

A. Create all VMs in the cloud service named Group1 and then connect to the Azure subscription. Run the following Windows PowerShell command:
New-AzureRoleAssignment/Mail user1@vanarsdelltd.com/RoleDefinitionName Contributor/ResourceGroupName group1

B. In the Azure portal, select an individual virtual machine and add an owner.

C. In the Azure portal, assign read permission to the user at the subscription level.

D. Create each VM in a separate cloud service and then connect to the Azure subscription. Run the following Windows PowerShell command:
Get-AzureVM/New-AzureRoleAssignment/Mail user1@vanarsdelltd.com/RoleDefinitionName Contributor

Answer: A

Explanation:
* Scenario: Permissions must be assigned by using Role Based Access Control (RBAC).
* Role-Based access control (RBAC) in the Azure Portal and Azure Resource Management API allows you to manage access to your subscription at a fine-grained level. With this feature, you can grant access for Active Directory users, groups, or service principals by assigning some roles to them at a particular scope.

Create a role assignment
Use New-AzureRoleAssignment to create a role assignment.
Example: This will create a role assignment for a group at a resource group level.
PS C:\> New-AzureRoleAssignment -ObjectID <group object ID> -RoleDefinitionName Reader -ResourceGroupName groupl

Reference:
Managing Role-Based Access Control with Windows PowerShell
https://azure.microsoft.com/en-gb/documentation/articles/role-based-access-control-powershell/

Case Study: 2 Trey Research

Background
Overview
Trey Research conducts agricultural research and sells the results to the agriculture and food industries. The company uses a combination of on-premises and third-party server clusters to meet its storage needs. Trey Research has seasonal demands on its services, with up to 50 percent drops in data capacity and bandwidth demand during low-demand periods. They plan to host their websites in an agile, cloud environment where the company can deploy and remove its...
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websites based on its business requirements rather than the requirements of the hosting company.
A recent fire near the datacenter that Trey Research uses raises the management team's awareness of the vulnerability of hosting all of the company's websites and data at any single location. The management team is concerned about protecting its data from loss as a result of a disaster.

Websites
Trey Research has a portfolio of 300 websites and associated background processes that are currently hosted in a third-party datacenter. All of the websites are written in ASP.NET, and the background processes use Windows Services. The hosting environment costs Trey Research approximately $25 million in hosting and maintenance fees.

Infrastructure
Trey Research also has on-premises servers that run VMs to support line-of-business applications. The company wants to migrate the line-of-business applications to the cloud, one application at a time. The company is migrating most of its production VMs from an aging VMWare ESXi farm to a Hyper-V cluster that runs on Windows Server 2012.

Applications

Distribution Tracking
Trey Research has a web application named Distribution tracking. This application constantly collects real time data that tracks worldwide distribution points to customer retail sites. This data is available to customers at all times.
The company wants to ensure that the distribution tracking data is stored at a location that is geographically close to the customers who will be using the information. The system must continue running in the event of VM failures without corrupting data. The system is processor intensive and should be run in a multithreading environment.

HRApp
The company has a human resources (HR) application named HRApp that stores data in an on-premises SQL Server database. The database must have at least two copies, but data to support backups and business continuity must stay in Trey Research locations only. The data must remain on-premises and cannot be stored in the cloud.
HRApp was written by a third party, and the code cannot be modified. The human resources data is used by all business offices, and each office requires access to the entire database.
Users report that HRApp takes all night to generate the required payroll reports, and they would like to reduce this time.

Metrics Tracking
Trey Research has an application named Metrics Tracking that is used to track analytics for the Distribution Tracking web application. The data Metrics Tracking collects is not customer facing.
Data is stored on an on-premises SQL Server database, but this data should be moved to the cloud. Employees at other locations access this data by using a remote desktop connection to connect to the application, but latency issues degrade the functionality.
Trey Research wants a solution that allows remote employees to access metrics data without using a remote desktop connection. Metrics Tracking was written in-house, and the
development team is available to make modifications to the application if necessary. However, the company wants to continue to use SQL Server for Metrics Tracking.

**Business Requirements**

**Business Continuity**

**You have the following requirements:**
- Move all customer-facing data to the cloud.
- Web servers should be backed up to geographically separate locations.
- If one website becomes unavailable, customers should automatically be routed to websites that are still operational.
- Data must be available regardless of the operational status of any particular website.
- The HRApp system must remain on-premises and must be backed up.
- The Metrics Tracking data must be replicated so that it is locally available to all Trey Research offices.

**Auditing and Security**

**You have the following requirements:**
- Both internal and external consumers should be able to access research results.
- Internal users should be able to access data by using their existing company credentials without requiring multiple logins.
- Consumers should be able to access the service by using their Microsoft credentials.
- Applications written to access the data must be authenticated.
- Access and activity must be monitored and audited.
- Ensure the security and integrity of the data collected from the worldwide distribution points for the distribution tracking application.

**Storage and Processing**

**You have the following requirements:**
- Provide real-time analysis of distribution tracking data by geographic location.
- Collect and store large datasets in real-time data for customer use.
- Locate the distribution tracking data as close to the central office as possible to improve bandwidth.
- Co-locate the distribution tracking data as close to the customer as possible based on the customer's location.
- Distribution tracking data must be stored in the JSON format and indexed by metadata that is stored in a SQL Server database.
- Data in the cloud must be stored in geographically separate locations, but kept with the same political boundaries.

**Technical Requirements**

**Migration**

**You have the following requirements:**
- Deploy all websites to Azure.
- Replace on-premises and third-party physical server clusters with cloud-based solutions.
- Optimize the speed for retrieving exiting JSON objects that contain the distribution tracking data.
- Recommend strategies for partitioning data for load balancing.
Auditing and Security
You have the following requirements:
• Use Active Directory for internal and external authentication.
• Use OAuth for application authentication.

Business Continuity
You have the following requirements:
• Data must be backed up to separate geographic locations.
• Web servers must run concurrent versions of all websites in distinct geographic locations.
• Use Azure to back up the on-premises Metrics Tracking data.
• Use Azure virtual machines as a recovery platform for Metrics Tracking and HRApp.
• Ensure that there is at least one additional on-premises recovery environment for the HRApp.

Question: 1 HOTSPOT
You need to design a data storage strategy for each application.
In the table below, identify the strategy that you should use for each application. Make only one selection in each column.

<table>
<thead>
<tr>
<th>Strategy</th>
<th>Human Resources Application</th>
<th>Metrics Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create separate SQL databases on individual virtual machines and partition appropriately.</td>
<td>c</td>
<td>c</td>
</tr>
<tr>
<td>Migrate the existing SQL database to a larger virtual machine.</td>
<td>c</td>
<td>c</td>
</tr>
<tr>
<td>Migrate the existing data to Azure table storage in the cloud.</td>
<td>c</td>
<td>c</td>
</tr>
</tbody>
</table>

Answer:
**Scenario:**
- **HRApp**
The company has a human resources (HR) application named HRApp that stores data in an on-premises SQL Server database.
The data must remain on-premises and cannot be stored in the cloud.
The human resources data is used by all business offices, and each office requires access to the entire database.

- **Metrics application**
Data is stored on an on-premises SQL Server database, but this data should be moved to the cloud.

**Question: 2 HOTSPOT**
You need to plan the business continuity strategy.
For each requirement, what should you recommend? To answer, select the appropriate option from each list in the answer area.

**Answer Area**
- You must ensure that customer facing data is replicated geographically.
- You must ensure that client connect to Azure websites that run in the region closest to them.

**Answer:**

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Question: 3
You need to recommend a data storage solution that meets the business continuity requirements. Which two features should you recommend? Each correct answer presents part of the solution.

A. SQL Database Standard
B. Azure Backup
C. SQL Database Premium
D. SQL Database Express

Answer: A,B

Explanation:
From scenario: Disaster recovery and business continuity plans must use a single, integrated service that supports the following features:
* All VMs must be backed up to Azure.
* All on-premises data must be backed up off-site and available for recovery in the event of a disaster.
* Disaster testing must be performed to ensure that recovery times meet management guidelines.
* Fail-over testing must not impact production.

Question: 4 DRAG DROP
You need to recommend a test strategy for the disaster recovery system. What should you do? To answer, drag the appropriate test strategy to the correct business application. Each test strategy may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.
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**Test Strategies**
- On-premises to on-premises deployment
- Use Azure's on-premises to Azure deployment
- Use Azure's built-in cloud redundancy

<table>
<thead>
<tr>
<th>Business Application</th>
<th>Test Strategy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distribution Tracking</td>
<td>Use Azure's on-premises to Azure deployment</td>
</tr>
<tr>
<td>Human Services</td>
<td>On-premises to on-premises deployment</td>
</tr>
<tr>
<td>Metrics System</td>
<td>Use Azure's built-in cloud redundancy</td>
</tr>
</tbody>
</table>

**Answer:**

**Explanation:**

* Distribution tracking
  - The company wants to ensure that the distribution tracking data is stored at a location that is geographically close to the customers who will be using the information.

* HRApp
  - The data must remain on-premises and cannot be stored in the cloud.

* Metrics application
  - Data is stored on an on-premises SQL Server database, but this data should be moved to the cloud.

**Question: 5 DRAG DROP**

You need to ensure that customer data is secured both in transit and at rest.
Which technologies should you recommend? To answer, drag the appropriate technology to the correct security requirement. Each technology may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

<table>
<thead>
<tr>
<th>Technologies</th>
<th>Answer Area</th>
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</thead>
<tbody>
<tr>
<td>Transparent Data Encryption</td>
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<tr>
<td>TLS/SSL</td>
<td></td>
</tr>
<tr>
<td>PGP key</td>
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</tr>
<tr>
<td>Service Bus</td>
<td></td>
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<tr>
<td>Azure Rights Management service</td>
<td></td>
</tr>
<tr>
<td>Azure Import/Export service</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Security requirement</th>
<th>Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer connections to the website or from the mobile app</td>
<td>Technology</td>
</tr>
<tr>
<td>SQL Server data migration for large datasets</td>
<td>Technology</td>
</tr>
<tr>
<td>Encryption management for data based on key exchanges between servers</td>
<td>Technology</td>
</tr>
</tbody>
</table>

**Answer:**

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Explanation:
*Azure Rights Management service uses encryption, identity, and authorization policies to help secure your files and email, and it works across multiple devices-phones, tablets, and PCs. Information can be protected both within your organization and outside your organization because that protection remains with the data, even when it leaves your organization's boundaries.

*Transparent Data Encryption
Transparent Data Encryption (often abbreviated to TDE) is a technology employed by both Microsoft and Oracle to encrypt database files. TDE offers encryption at file level. TDE solves the problem of protecting data at rest, encrypting databases both on the hard drive and consequently on backup media.

* TLS/SSL
Transport Layer Security (TLS) and its predecessor, Secure Sockets Layer (SSL), are cryptographic protocols designed to provide communications security over a computer network. They use X.509 certificates and hence asymmetric cryptography to authenticate the counterparty with whom they are communicating, and to negotiate a symmetric key.

Reference:
How Applications Support Azure Rights Management
http://en.wikipedia.org/wiki/Transparent_Data_Encryption

Question: 6
You need to design the business continuity framework. Which technology should you use?

A. Hyper-V Replica
B. Azure Backup
C. Azure Site Recovery
D. Azure StoreSimple
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Answer: C

Explanation:
Azure Site Recovery can protect Microsoft Hyper-V, VMware, and physical servers, and you can use Azure or your secondary datacenter as your recovery site.

From scenario: The company has a human resources (HR) application named HR App that stores data in an on-premises SQL Server database. The database must have at least two copies, but data to support backups and business continuity must stay in Trey Research locations only. The data must remain on-premises and cannot be stored in the cloud.

References:
https://azure.microsoft.com/en-us/services/site-recovery/

Question: 7
You need to recommend an authentication solution for the Distribution Tracking application. What should you include in the recommendation?

A. a certificate
B. a Graph API endpoint
C. a security principal in Azure Active Directory
D. a managed service account in Azure Active Directory

Answer: A

Question: 8
You need to configure the distribution tracking application. What should you do?

A. Map each role to a single upgrade domain to optimize resource utilization.
B. Design all services as stateless services.
C. Configure operations to queue when a role reaches its capacity.
D. Configure multiple worker roles to run on each virtual machine.

Answer: D

Explanation:
Scenario: distribution tracking application
The system is processor intensive and should be run in a multithreading environment.
Reference:
Running multiple workers inside one Windows Azure Worker Role
http://mark.mymonster.nl/2013/01/29/running-multiple-workers-inside-one-windows-azure-worker-role

Question: 9
You need to implement the security requirements.
What should you implement?

A. the GraphAPI to query the directory
B. LDAP to query the directory
C. single sign-on
D. user certificates

Answer: C

Question: 10
You need to configure identity synchronization.
What should you create?

A. a second Azure Active Directory Connect sync server
B. backups of all on-premises server farms
C. backups of all Azure VMs
D. a second Azure Active Directory Connect staging server
E. a second Azure Active Directory directory

Answer: D

Question: 11 DRAG DROP
You need to implement testing for the Data Manager mobile application.
Which three actions should you perform in sequence? To answer, move the appropriate actions
Question: 12
You need to assign permissions for her four employees. Which role should you assign?

A. Security Manager
B. Website Contributor
C. Owner
D. Network Contributor

Answer: C

Question: 13 DRAG DROP
You need to allow network traffic to the Trey Research subversion system.