Vendor: Microsoft

Exam Code: 70-535

Exam Name: Architecting Microsoft Azure Solutions

Version: DEMO

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.

QUESTION 1
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 Groupl and then connect to the Azure subscription.
   Run the following Windows PowerShell command:
   ```
   New-AzureRoleAssignment-Mail user1@vanarsdelltd.com-RoleDefinitionName
   Contributor-ResoureeGroupName 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 userl@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 group1
https://azure.microsoft.com/en-gb/documentation/articles/role-based-access-control-powershell/

QUESTION 2
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 script.
/ 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.
https://msdn.microsoft.com/en-us/library/azure/hh767287.aspx

QUESTION 3
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.
https://msdn.microsoft.com/en-us/library/azure/gg185971.aspx

QUESTION 4
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) / 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.
https://msdn.microsoft.com/en-us/library/azure/dn641269.aspx?f=255&MSPPError=-2147217396

QUESTION 5
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.
https://msdn.microsoft.com/en-us/library/azure/dd894038.aspx

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.
http://en.wikipedia.org/wiki/Single_sign-on

QUESTION 7
Drag and Drop Question
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 storage |
| Blob storage |
| Queue storage |
| MySQL |

Answer Area

Information Type	Data Storage Mechanism
Contractor information	Data Storage Mechnism
Project images	Data Storage Mechnism

Answer:

Data Storage Mechanisms

| Table storage |
| Blob storage |
| Queue storage |
| MySQL |

Answer Area

Information Type	Data Storage Mechanism
Contractor information	Data Table storage
Project images	Data Blob storage

Explanation:
* Use Table storage for Contractor information
* Use Blob for Project Images
* 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
/ 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.
http://www.thewindowsclub.com/understanding-blobqueuetable-storage-windows-azure

QUESTION 8
Hotspot Question
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.

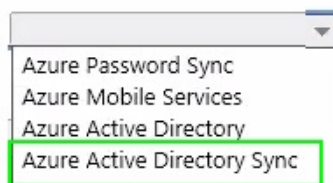- Azure Password Sync
- Azure Mobile Services
- Azure Active Directory
- Azure Active Directory Sync

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.
https://docs.microsoft.com/en-us/azure/app-service-mobile/app-service-mobile-value-prop

QUESTION 9
You are designing an Azure web application.

The solution will be used by multiple customers.
Each customer has different business logic and user interface requirements.
Not all customers use the same version of the .NET runtime.
You need to recommend a deployment strategy.
What should you recommend?

A. Deploy with multiple web role instances.
B. Deploy each application in a separate tenant.
C. Deploy all applications in one tenant.
D. Deploy with multiple worker role instances.

Answer: B
Explanation:
There are two types of tenant environments. The simplest type is a single-tenant application where one customer has 100% dedicated access to an application's process space. A single Tenant Applications has a separate, logical instance of the application for each customer or client. A single tenant application is much more predictable and stable by its nature since there will never be more than one dedicated customer at any point in time in that VM. That customer has all of its users accessing that dedicated instance of the application.
Multi Tenancy and Windows Azure. Overview of Multi tenant Application and Single tenant Application Architectural considerations.
http://sanganakauthority.blogspot.in/2011/12/multi-tenancy-and-windows-azure.html

QUESTION 10
You design an Azure application that processes images.
The maximum size of an image is 10 MB.
The application includes a web role that allows users to upload images and a worker role with multiple instances that processes the images.
The web role communicates with the worker role by using an Azure Queue service.
You need to recommend an approach for storing images that minimizes storage transactions.
What should you recommend?

A. Store images in Azure Blob service.
   Store references to the images in the queue.
B. Store images in the queue.
C. Store images in OneDrive attached to the worker role instances.
   Store references to the images in the queue.
D. Store images in local storage on the web role instance.
   Store references to the images in the queue.

Answer: A
Explanation:
https://msdn.microsoft.com/en-gb/library/ff803365.aspx
https://msdn.microsoft.com/en-us/library/azure/hh767287.aspx

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