Exam Questions 70-354

Universal Windows Platform – App Architecture and UX/UI
1. You need to recommend an appropriate solution for the data mining requirements. Which solution should you recommend?

A. Design a schedule process that allocates tasks to multiple virtual machines, and use the Azure Portal to create new VMs as needed.
B. Use Azure HPC Scheduler Tools to schedule jobs and automate scaling of virtual machines.
C. Use Traffic Manager to allocate tasks to multiple virtual machines, and use the Azure Portal to spin up new virtual machines as needed.
D. Use Windows Server HPC Pack on-premises to schedule jobs and automate scaling of virtual machines in Azure.

Answer: C

Explanation: * Microsoft Azure Traffic Manager allows you to control the distribution of user traffic to your specified endpoints, which can include Azure cloud services, websites, and other endpoints. Traffic Manager works by applying an intelligent policy engine to Domain Name System (DNS) queries for the domain names of your Internet resources. Your Azure cloud services or websites can be running in different datacenters across the world.

* Scenario:

Virtual machines:

- The data mining solution must support the use of hundreds to thousands of processing cores. Minimize the number of virtual machines by using more powerful virtual machines. Each virtual machine must always have eight or more processor cores available. Allow the number of processor cores dedicated to an analysis to grow and shrink automatically based on the demand of the analysis. Virtual machines must use remote memory direct access to improve performance.

Task scheduling:

The solution must automatically schedule jobs. The scheduler must distribute the jobs based on the demand and available resources.

Reference: https://azure.microsoft.com/sv-se/documentation/articles/traffic-manager-overview/

2. You need to ensure that the website scales. What should you do?

A. Deploy Traffic Manager and configure it to route user traffic to specified endpoints to other Azure datacenters.
B. Enter multiple DNS entries in each virtual network to route requests to other Azure datacenters.
C. Set up a new Azure datacenter to Azure datacenter VPN to enable the solution to communicate across regions.
D. Use a virtual network to route network traffic in a single Azure datacenter.

Answer: C

Explanation: Scenario: The customer-facing website must automatically scale and replicate to locations around the world. Azure ExpressRoute enables you to create private connections between Azure datacenters and infrastructure that’s on your premises or in a colocation environment. ExpressRoute connections do not go over the public Internet, and offer more reliability, faster speeds, lower latencies and higher security than typical connections over the Internet. In some cases, using ExpressRoute connections to transfer data between on-premises and Azure can also yield significant cost benefits.

Reference: ExpressRoute, Experience a faster, private connection to Azure

http://azure.microsoft.com/en-us/services/expressroute/

3. You need to recommend a solution that meets the requirements for data storage for the NorthRide app. What should you include in the recommendation?

A. Azure Remote App
B. Azure Service Bus
C. Azure Connect
D. Azure SQL Database

Answer: B

Explanation: 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.

Service Bus Queue support Push-style API (while Azure Queue messaging does not).

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


4. You need to design the authentication solution for the NorthRide app. Which solution should you use?

A. Azure Active Directory Basic with multi-factor authentication for the cloud and on-premises users.
B. Active Directory Domain Services with mutual authentication
C. Azure Active Directory Premium and add multi-factor authentication the for cloud users

D. Active Directory Domain Services with multi-factor authentication

Answer: C

Explanation: * Scenario: The NorthRide app must use an additional level of authentication other than the employee's password.

* Azure Multi-Factor Authentication is the multi-factor authentication service that requires users to also verify sign-ins using a mobile app, phone call or text message. It is available to use with Azure Active Directory, to secure on-premise resources with the Azure Multi-Factor Authentication Server, and with custom applications and directories using the SDK.

Reference: What is Azure Multi-Factor Authentication?

Reference: Azure Active Directory Pricing

5. You need to recommend the appropriate technology to provide the predictive analytics for passenger pickup.

What should you do?

A. Use Power BI to analyze the traffic data and PowerPivot to categorize the results.

B. Use HDInsight to analyze the traffic data and write a .NET program to categorize the results.

C. Use Machine Learning Studio to create a predictive model and publish the results as a web service.

D. Use Hadoop on-premises to analyze the traffic and produce a report that shows high traffic zones.

Answer: C

Explanation: * Scenario: Predictive Routing:

/ An Azure solution must be used for prediction systems.

/ Predictive analytics must be published as a web service and accessible by using the REST API.

* Microsoft Azure Machine Learning Studio is a collaborative visual development environment that enables you to build, test, and deploy predictive analytics solutions that operate on your data. The Machine Learning service and development environment is cloud-based, provides compute resource and memory flexibility, and eliminates setup and installation concerns because you work through your web browser.

Reference: What is Azure Machine Learning Studio?

6. You need to recommend a technology for processing customer pickup requests.

Which technology should you recommend?

A. Notification hub

B. Queue messaging

C. Mobile Service with push notifications

D. Service Bus messaging

Answer: D

Explanation: 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.

Service Bus Queue support Push-style API (while Azure Queue messaging does not).

Incorrect:

Not A: Notification Hub is only used to push notification, not for processing requests.

Not B As a solution architect/developer, you should consider using Azure Queues when:

* Your application must store over 80 GB of messages in a queue, where the messages have a lifetime shorter than 7 days.

* Your application wants to track progress for processing a message inside of the queue. This is useful if the worker processing a message crashes. A subsequent worker can then use that information to continue from where the prior worker left off.

You require server side logs of all of the transactions executed against your queues.
Not C: To process the messages we do not need push notification.

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

7. Contoso, Ltd., uses Azure websites for public-facing customer websites. The company has a mobile app that requires customers sign in by using a Contoso customer account.

Customers must be able to sign on to the websites and mobile app by using a Microsoft, Facebook, or Google account. All transactions must be secured in-transit regardless of device.

You need to configure the websites and mobile app to work with external identity providers.

Which three actions should you perform? Each correct answer presents part of the solution.

A. Request a certificate from a domain registrar for the website URL, and enable TLS/SSL.
B. Configure IPsec for the websites and the mobile app.
C. Configure the KerberosTokenProfile 1.1 protocol.
D. Configure OAuth2 to connect to an external authentication provider.
E. Build an app by using MVC 5 that is hosted in Azure to provide a framework for the underlying authentication.

Answer: A,D,E

Explanation: DE: This tutorial shows you how to build an ASP.NET MVC 5 web application that enables users to log in using OAuth 2.0 with credentials from an external authentication provider, such as Facebook, Twitter, LinkedIn, Microsoft, or Google.

A:

* You will now be redirected back to the Register page of the MvcAuth application where you can register your Google account. You have the option of changing the local email registration name used for your Gmail account, but you generally want to keep the default email alias (that is, the one you used for authentication). Click Register.

* To connect to authentication providers like Google and Facebook, you will need to set up IIS-Express to use SSL.

Reference: Code! MVC 5 App with Facebook, Twitter, LinkedIn and Google OAuth2 Sign-on (C#)
http://www.asp.net/mvc/overview/security/create-an-aspnet-mvc-5-app-with-facebook-and-google-oauth2-and-openid-sign-on

8. A company hosts a website and exposes web services on the company intranet.

The intranet is secured by using a firewall. Company policies prohibit changes to firewall rules.

Devices outside the firewall must be able to access the web services.

You need to recommend an approach to enable inbound communication.

What should you recommend?

A. The Azure Access Control Service
B. Windows Azure Pack
C. The Azure Service Bus
D. A web service in an Azure role that relays data to the internal web services

Answer: C

Explanation: The Service Bus Relay is designed for the use-case of taking existing Windows Communication Foundation (WCF) web services and making those services securely accessible to solutions that reside outside the corporate perimeter without requiring intrusive changes to the corporate network infrastructure. Such Service Bus relay services are still hosted inside their existing environment, but they delegate listening for incoming sessions and requests to the cloud-hosted Service Bus.

Reference: .NET On-Premises/Cloud Hybrid Application Using Service Bus Relay
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