Microsoft

70-583 PRACTICE EXAM

PRO: Designing and Developing Windows Azure Applications

Product Questions: 90
Version: 17.1

Question: 1

Which of the following software products or technologies would you consider yourself proficient in? Choose all that apply.

A. Windows Server 2008
B. Windows Server 2008 R2
C. SQL Server 2008
D. SQL Server 2008 R2
E. Internet Information Server (IIS)
F. Visual Studio 2010
G. Windows Communication Foundation
H. .NET Framework 4

Answer: A

Question: 2

You are designing a Windows Azure application that will store data.
You have the following requirements:
·The data storage system must support the storage of more than 500 GB of data.
·Data retrieval must be possible from a large number of parallel threads without threads blocking each other.
You need to recommend an approach for storing data.
What should you recommend?

A. Use Windows Azure Queues.
B. Use Windows Live Mesh 2011.
C. Use a single SQL Azure database.
D. Use Windows Azure Table storage.

Answer: D

Question: 3

You are designing a web service that will be hosted in Windows Azure. The web service will accept and store structured and semi-structured data.
The web service must meet the following requirements:
·Update all data within a single transaction.
·Enforce the data structure for structured data within the data store.
You need to recommend an approach for storing the data.
What should you recommend?

A. Use Windows Azure Queues.
B. Use a single SQL Azure database.

C. Use a single Windows Azure Drive.
D. Use Windows Azure Table storage.

Answer: B

Question: 4

You are designing a Windows Azure application that will allow for the processing of image files.
Images will be processed in batches by remote applications running on multiple servers.
The application must meet the following requirements:
·Remain operational during batch-processing operations.
·Allow users to roll back each image to previous versions.
Each remote application must have exclusive access to an image while processing it.
You need to recommend an approach for storing the images.
What should you recommend?

A. Store the images in a Windows Azure Queue.
B. Store the images in Windows Azure Blob storage.
C. Store the images in Windows Azure Table storage.
D. Store images in a single Windows Azure Drive attached to the web role.

Answer: B

Question: 5

You are designing a strategy for synchronizing a SQL Azure database and multiple remote Microsoft SQL Server 2008 databases.
The SQL Azure database contains many tables that have circular foreign key relationships.
You need to recommend an approach for ensuring that all changes in the remote databases synchronize with the SQL Azure database.
What should you recommend?

A. Use SQL Azure Data Sync Service.
B. Use SQL Server replication
C. Use SQL Server backup and restore
D. Use SQL Server database snapshots.

Answer: A

Question: 6

You are designing a Windows Azure application. The application will include occasionally connected clients that reference data stored in Windows Azure Blob storage. The clients will be able to add data while disconnected.
You need to recommend an approach for synchronizing offline client data with Windows Azure Blob storage. What should you recommend?

A. Use SQL Azure Data Sync.
B. Use the Microsoft Sync Framework.
C. Use Windows Azure Blob storage snapshots

D. Use the Microsoft SQL Server replication component.

Answer: B

Question: 7

You are designing a strategy for synchronizing two geographically disparate SQL Azure databases. A database named DB1 is located in North Americ
a. A database named DB2 is located in Asia. DB2 contains a subset of the tables in DB1.
You need to recommend an approach for bidirectionally synchronizing the databases each day.
What should you recommend?
A. Use SQL Azure Data Sync.
B. Use custom Microsoft Sync Framework metadata.
C. Use a Microsoft Sync Framework Partial Participant.
D. Use a Microsoft Sync Framework file synchronization provider.

Answer: A

Question: 8

You are planning the deployment of a SQL Azure database. Your company has a Volume Licensing Agreement for Microsoft SQL Server 2008.
The SQL Azure database must maintain a monthly availability of 99.9%.
You need to recommend an approach for minimizing the monthly expenses associated with the SQL Azure database.
What should you recommend?

A. Add a processor license to the existing SQL Server licensing agreement.
B. Purchase a Windows Azure consumption platform subscription.
C. Purchase a SQL Server Services Provider Licensing Agreement (SPLA).
D. Purchase a SQL Server Web license to extend the existing SQL Server licensing agreement.

Answer: B

Question: 9

You are designing a Windows Azure solution.
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 in a multitenant configuration.
B. Deploy in a single-tenant configuration.
C. Deploy with multiple web role instances.
D. Deploy with multiple worker role instances.

Answer: B

Question: 10

You are designing a Windows Azure application that will provide online backup storage for very large media files.
The application must be capable of storing an average of 1 GB of data for each user. The application must provide random read/write access.
You need to recommend a durable data storage solution.
What should you recommend?

A. Use a Windows Azure Drive.
B. Use Windows Azure page blob storage
C. Use Windows Azure block blob storage.
D. Use local storage on a Windows Azure instance.

Answer: C

Question: 11

You are designing a plan to migrate Microsoft SQL Server 2008 databases to SQL Azure. You do not plan to migrate the SQL Server databases to SQL Server 2008 R2.
You need to recommend an approach for performing bulk data transfers from the SQL Server databases to SQL Azure.
What should you recommend?

A. Use the bcp utility.
B. Use the dta utility.
C. Use the SQL Server Import and Export Wizard.
D. Attach each SQL Server database to SQL Azure.

Answer: A

Question: 12

You are designing a plan for migrating an existing Microsoft SQL Server 2008 database to SQL Azure. The database includes a SQL Server Agent job that cleans the application log table.
You need to recommend an approach for ensuring that the SQL Server Agent job continues to run without modification. What should you recommend?

A. Use the SQL Azure Data Sync service.
B. Run the SQL Server Agent in SQL Azure.
C. Use SQL Server Integration Services (SSIS) to connect to SQL Azure.
D. Connect the existing on-premise
SQL Server Agent jobs to SQL Azure.

Answer: D

Question: 13

You are planning the migration of an existing application to Windows Azure and SQL Azure.
The current application includes reports that are hosted by SQL Server Reporting Services.
You need to recommend an approach for migrating the reports.
What should you recommend?

A. Use SQL Azure to host client report definitions.
B. Use SQL Azure to host server report definitions.
C. Use Windows Azure to host client report definitions in an ASP.NET webpage.
D. Use Windows Azure to host server report definitions in an ASP.NET webpage.

Answer: C

Question: 14

You are planning to move streaming media content to Windows Azure Storage.
You need to recommend an approach for providing worldwide users the fastest possible access to the content. Which two actions should you recommend? (Each correct answer presents part of the solution. Choose two.)

A. Use a Shared Access Signature.
B. Use Windows Azure page blob storage
C. Use Windows Azure block blob storage.
D. Use the Windows Azure Content Delivery Network (CDN).

Answer: C, D

Question: 15

You are designing a plan for migrating Virtual Hard Disks (VHDs) and video files to Windows Azure Storage.
The VHDs must be optimized for random read/write operation. The video files must be optimized for sequential access.
You need to recommend storage types for storing the VHDs and video files.
Which two storage types should you recommend? (Each correct answer presents part of the solution. Choose two.)

A. Store VHDs in Windows Azure page blob storage.
B. Store VHDs in Windows Azure block blob storage.
C. Store video files in Windows Azure page blob storage.
D. Store video files in Windows Azure block blob storage.

Answer: A, D

Question: 16

You are designing a Windows Azure application that will use Windows Azure Table storage. The application will allow teams of users to collaborate on projects. Each user is a member of only one team.
You have the following requirements:
·Ensure that each user can efficiently query records related to his or her team's projects.
·Minimize data access latency.
You need to recommend an approach for partitioning table storage entities.
What should you recommend?

A. Partition by user.
B. Partition by team.
C. Partition by project.

D. Partition by the current date.

Answer: B

Question: 17

You are designing a Windows Azure application that will use Windows Azure Table storage.
You need to recommend an approach for minimizing storage costs.
What should you recommend?

A. Use Entity Group Transactions.
B. Use multiple partitions to store data.
C. Use a transaction scope to group all storage operations.
D. Use Microsoft Distributed Transaction Coordinator (MSDTC).

Answer: A

Question: 18

You are designing an application that will use Windows Azure Table storage to store millions of data points each day.
The application must retain each day's data for only one week.
You need to recommend an approach for minimizing storage transactions.
What should you recommend?

A. Use a separate table for each date. Delete each table when it is one week old.
B. Use a separate table for each week. Delete each table when it is one week old.
C. Use a single table, partitioned by date. Use Entity Group Transactions to delete data when it is one week old.
D. Use a single table, partitioned by week. Use Entity Group Transactions to delete data when it is one week old.

Answer: A

Question: 19

An application connects to a SQL Azure database.
The application occasionally loses the connection to the SQL Azure database.
You need to recommend an approach for reliably completing data access operations.
What should you recommend?

A. Use Microsoft ADO.NET connection pooling
B. Pass exceptions to the user interface layer.
C. Implement a retry policy in the data access layer.
D. Begin a transaction before each data access operation.

Answer: C

Question: 20

You are designing a Windows Azure application that will store data in two SQL Azure databases. The application will insert data in both databases as part of a single logical operation.

You need to recommend an approach for maintaining data consistency across the databases.
What should you recommend?

A. Execute database calls on parallel threads.
B. Wrap the database calls in a single transaction scope.
C. Use Microsoft Distributed Transaction Coordinator (MSDTC).
D. Handle errors resulting from the database calls by using compensatory logic.

Answer: D

Question: 21

A Windows Azure application stores data in a SQL Azure database. The application will start an operation that includes three insert statements.
You need to recommend an approach for rolling back the entire operation if the connection to SQL Azure is lost. What should you recommend?

A. Ensure that all statements execute in the same database transaction.
B. Create a stored procedure in the database that wraps the insert statements in a TRY CATCH block.
C. Create a stored procedure in the database that wraps the insert statements in a TRANSACTION block.
D. Open a new connection to the database. Use a separate transaction scope to roll back the original operation.

Answer: A

Question: 22

An application uses Windows Azure Table storage. The application uses five tables.
One table used by the application is approaching the limit for storage requests per second.
You need to recommend an approach for avoiding data access throttling.
What should you recommend?

A. Use a single partition key for the table.
B. Compress data before storing it in the table.
C. Create additional partition keys for the table.
D. Continually remove unnecessary data from the table.

Answer: C

Question: 23

A Windows Azure application retrieves data from SQL Azure.
You need to recommend an approach for improving application query performance.
What should you recommend?

A. Create a database view to retrieve the data.
B. Use a clustered index on the SQL Azure database tables.
C. Open a new database connection when an operation times out.
D. Create SQL Azure database table indexes based on application queries

Answer: D

Question: 24

You are planning the migration of a Microsoft SQL Server 2008 database to SQL Azure.
You need to recommend an approach for ensuring that database connectivity does not degrade.
Which two actions should you recommend? (Each correct answer presents part of the solution.
Choose two.)

A. Implement transactions for database queries.
B. Close database connections in the application.
C. Use Microsoft ADO.NET in the data access layer.
D. Implement a retry policy in the data access layer.

Answer: B, D

Question: 25

You are designing a Windows Azure application. The application includes a web role and a worker role that communicate by using a Windows Azure Queue. The worker role processes each message within 10 seconds of retrieving it from the queue.
The worker role must process each message exactly one time. If a process does not complete, the worker role must reprocess the message.
You need to recommend an approach for the worker role to manage messages in the queue.
What should you recommend?

A. Process the message and then delete it from the queue.
B. Delete the message from the queue when retrieving the message.
C. Set the visibility timeout of the message to 1 when retrieving the message.
D. Process the message and then set the visibility timeout of the message to the maximum value.

Answer: A

Question: 26

You are designing a Windows Azure application. The application includes two web roles and three instances of a worker role. The web roles will send requests to the worker role through one or more Windows Azure Queues.
You have the following requirements:
·Ensure that each request is processed exactly one time.
·Minimize the idle time of each worker role instance.
·Maximize the reliability of request processing.
You need to recommend a queue design for sending requests to the worker role.
What should you recommend?

A. Create a single queue. Send requests on the single queue.
B. Create a queue for each web role. Send requests on all queues at the same time.
C. Create a queue for each worker role instance. Send requests on each worker queue in a round robin.
D. Create a queue for each combination of web roles and worker role instances. Send requests to all worker role instances based on the sending web role.

Answer: A

Question: 27

You are designing a Windows Azure application that will process 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 a Windows Azure Queue.
You need to recommend an approach for storing images that minimizes storage transactions.
What should you recommend?

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

Answer: B

Question: 28

You are developing a Windows Azure application in which a web role and worker role will communicate by using a Windows Azure Queue.
You need to recommend an approach for ensuring that the worker role does not attempt to process any message more than three times.
What should you recommend?

A. Appropriately handle poison messages.
B. Decrease the visibility timeout for messages.
C. Reduce the time-to-live interval for messages in the queue.
D. Increase the number of worker role instances reading messages from the queue.

Answer: A

Question: 29

You are designing a Windows Azure application. The application includes processes that communicate by using Windows Communications Foundation (WCF) services.
The WCF services must support streaming.
You need to recommend a host for the processes and a WCF binding.
Which two actions should you recommend? (Each correct answer presents part of the solution.
Choose two.)

A. Host the processes in web roles.
B. Host the processes in worker roles.
C. Use NetTcpBinding for the WCF services.
D. Use WSHttpBinding for the WCF services.

Answer: B, C

Question: 30

You are designing a Windows Azure web application that does not use ASP.NET. The application requires a standalone Win32 interpreter.
You need to recommend an approach for allowing access to the interpreter.
What should you recommend?

A. Use a web role. Configure the interpreter as an ISAPI filter.
B. Use a web role. Configure a FastCGI handler for the interpreter and set the path to the interpreter.
C. Use a worker role with an internal endpoint. Enable native code execution.
D. Use a worker role with an external endpoint. Configure a FastCGI handler for the interpreter and set the path to the root.

Answer: B

Question: 31

You are evaluating a Windows Azure application. The application includes the following elements:
·A web role that provides the ASP.NET user interface and business logic
·A single SQL Azure database that contains all application data
Each page must receive data from the business logic layer before returning results to the client.
Traffic has increased significantly. The business logic is causing high CPU usage.
You need to recommend an approach for scaling the application.
What should you recommend?

A. Move business logic to a worker role.
B. Vertically partition the SQL Azure database.
C. Store business logic results in Windows Azure local storage.
D. Store business logic results in Windows Azure Table storage.

Answer: A

Question: 32

You are designing a Windows Azure application. Messages will be placed into a Windows Azure Queue and then processed by a worker role.
There is no requirement for adherence to the Windows Azure Service Level Agreement (SLA).
You need to recommend an approach for concurrently processing messages while minimizing compute cost. What should you recommend?

A. a single role instance that processes messages individually
B. a single role instance with multithreaded request processing
C. multiple role instances that process messages individually
D. multiple role instances, each with multithreaded request processing

Answer: B

Question: 33

You are planning the migration of an existing application to Windows Azure and SQL Azure. The application produces report files at the request of remote systems.
Requests for report files will be placed into a single Windows Azure Queue. You must minimize the compute resources and storage transactions required to process the requests.
You need to recommend an approach for processing the requests.
What should you recommend?

A. Create a worker role for each report file that constantly polls the queue for requests.
B. Create a worker role for each report file that checks the queue at scheduled intervals for requests.
C. Create a single worker role that constantly polls the queue for requests and executes the requests on multiple threads.
D. Create a single worker role that checks the queue at scheduled intervals for requests and executes the requests on multiple threads.

Answer: D

Question: 34

You are designing a Windows Azure application that will use a worker role. The worker role will create temporary files.
You need to recommend an approach for creating the temporary files that minimizes storage transactions. What should you recommend?

A. Create the files on a Windows Azure Drive.
B. Create the files in Windows Azure local storage.
C. Create the files in Windows Azure Storage page blobs.
D. Create the files in Windows Azure Storage block blobs.

Answer: B

Question: 35

You are designing a Windows Azure application. The application will store data in Windows Azure Blob storage. Many of the application services will be interdependent.
You need to recommend an approach for optimizing the performance of the application.
What should you recommend?

A. Create one affinity group. Associate only the storage services with the affinity group.
B. Create one affinity group. Associate only the compute services with the affinity group.
C. Create one affinity group. Associate the compute services and storage services with the affinity group.
D. Create two affinity groups. Associate the compute services with one group and the storage services with the other group.

Answer: C

Question: 36

You are evaluating a Windows Azure application. The application uses one instance of a web role. The role instance

size is set to Medium. The application does not use SQL Azure.
You have the following requirements for scaling the application:
·Maximize throughput.
·Minimize downtime while scaling.
·Increase system resources.
You need to recommend an approach for scaling the application.
What should you recommend?

A. Set up vertical partitioning.
B. Set up horizontal partitioning.
C. Increase the number of role instances.
D. Change the role instance size to Large.

Answer: C

Question: 37

You are designing a Windows Azure application. The application will include services hosted in different geographic locations. The service locations may change.
You must minimize the cost of communication between services.
You need to recommend an approach for calling the services.
What should you recommend?

A. Use the Service Management API.
B. Use Windows Azure Table storage
C. Use Windows Azure Queue storage
D. Use the Windows Azure AppFabric Service Bus.

Answer: D

Question: 38

You plan to host a Windows Communication Foundation (WCF) service in a Windows Azure worker role.
Custom code is necessary to initialize and configure the service endpoint.
You need to recommend the point at which the application should initialize the WCF service.
What should you recommend?

A. When Windows Azure initializes the worker role instance.
B. When the worker role instance receives its first request.
C. When the worker role instance instantiates the WCF service.
D. When the worker role instance enters the main execution thread.

Answer: A

Question: 39

A Windows Azure application includes a single-threaded worker role that has multiple instances. The worker role hosts a Windows Communication Foundation (WCF) service.
Each request to the WCF service takes several seconds to complete.

You need to recommend an approach for ensuring that worker role instances do not receive requests while processing.
What should you recommend?

A. Close the WCF endpoint.
B. Throw an exception to cancel the request.
C. Redirect incoming requests to a different worker role instance.
D. Remove the worker role instance from the load balancer rotation.

Answer: D

Question: 40

You are designing a Windows Azure application that will execute long-running business processes. Applying a configuration change requires role instances to recycle. You must not recycle until processing is finished.
You need to recommend an approach for applying configuration changes.
What should you recommend?

A. Apply the service configuration changes to the role instance and then recycle the role instance.
B. Suspend each role instance and then apply the service configuration changes to the role instance.
C. Before a change to the service configuration is applied to the role instance, defer recycling until processing is complete.
D. After a change to the service configuration is applied to the role instance, defer recycling until processing is complete.

Answer: C

Question: 41

You are planning the migration of an existing application to Windows Azure and SQL Azure. The original application includes a Microsoft SQL Server 2008 database.
You need to recommend an approach for ensuring that the database migrates successfully to SQL Azure. Which two actions should you recommend? (Each correct answer presents part of the solution. Choose two.)

A. Remove all clustered indexes from the database.
B. Remove all dependencies on the Microsoft Distributed Transaction Coordinator (MSDTC) from the application.
C. Use SSL and SQL authentication to connect to the database
D. Use SSL and Windows authentication to connect to the database.

Answer: B, C

Question: 42

An application has been migrated to the Windows Azure platform. The application references a native x86 DLL. The DLL source code is not available.
The application displays an error when loading the DLL.
You need to recommend an approach for ensuring that the application can load the DLL.
What should you recommend?

A. Create a 32bit application to host the DLL.
B. Modify the application to allow unsafe code.
C. Modify the application to call methods in the DLL.
D. Modify the application to target the x86 platform.

Answer: A

Question: 43

You are planning an upgrade strategy for a Windows Azure application.
You need to identify changes that will require application downtime.
Which change will always require downtime?

A. changing the virtual machine size
B. adding an HTTPS endpoint to a web role
C. changing the value of a configuration setting
D. upgrading the hosted service by deploying a new package

Answer: B

Question: 44

You are designing a Windows Azure application. The application contains one web role and three worker roles.
You need to recommend an approach for updating only one role without interrupting the other roles. What should you recommend?

A. Perform a VIP swap.
B. Perform an in-place upgrade.
C. Delete the current deployment and then redeploy the application.
D. Copy the cloud package to blob storage and then restart the service.

Answer: B

Question: 45

You are designing an upgrade strategy for a Windows Azure application that includes one web role with one instance.
You have the following requirements:
·Test the application on the Windows Azure platform.
·Ensure that application upgrades can be rolled back.
·Ensure that upgrade and rollback processes do not cause downtime.
You need to recommend an approach for upgrading the application.
What should you recommend?

A. Deploy to the Production slot. Test the application, and then perform a VIP swap.
B. Deploy to the Staging slot. Test the application, and then perform a VIP swap.
C. Deploy to the Staging slot. Test the application, and then perform a manual in-place upgrade to the Production slot.
D. Deploy to the Staging slot. Test the application, and then perform an automatic in-place upgrade to the Production slot.

	Answer: B

Question: 46

You are migrating a solution to Windows Azure. The solution includes a web application and a business logic layer. The web application runs on three dual-core servers. The business logic layer runs on two quad-core servers.
The Windows Azure application must match or exceed the current hardware specifications.
You need to recommend role instance sizes that minimize cost.
What should you recommend?

A. Small for the web application and Medium for the business logic layer
B. Small for the web application and Large for the business logic layer
C. Medium for the web application and Large for the business logic layer
D. Large for the web application and Extra Large for the business logic layer

	Answer: C

Question: 47

An on-premise application includes an application tier and a business tier. The tiers are currently hosted on separate servers. Each server has 4 CPU cores and 6 GB of memory.
You have the following requirements:
·Ensure that the business tier can be updated without affecting the application tier.
·Use the minimum role instance size that meets or exceeds the current server specifications.
You need to recommend a topology for hosting the application in Windows Azure.
What should you recommend?

A. Deploy the application tier and the business tier to one role with two Medium instances.
B. Deploy the application tier and the business tier to one role with two Large instances.
C. Deploy the application tier role to a Medium instance. Deploy the business tier role to a Medium instance.
D. Deploy the application tier role to a Large instance. Deploy the business tier role to a Large instance.

	Answer: D

Question: 48.

You are designing an automated deployment process for a Windows Azure application.
The process must deploy the application to Windows Azure without any user interaction.
You need to recommend a deployment strategy.
What should you recommend?

A. Use the Service Management API to deploy the application package.
B. Use the cspack and csrun command-line utilities and pass the cloud project as an argument.
C. Publish the cloud project to a local directory and upload the application package to Windows Azure Blob storage.
D. Publish the cloud project to a local directory and use the Windows Azure Developer Portal to upload the application.

	Answer: A

Question: 49

A Windows Azure application is running in the development fabric.
You need to recommend an approach for deploying the application to Windows Azure.
What should you recommend?

A. Use XCopy deployment
B. Use the Windows Azure AppFabric.
C. Use the Windows Azure Storage Services REST API.
D. Use the Windows Azure Tools for Microsoft Visual Studio 2010.

Answer: D

Question: 50

You are designing a plan for testing a Windows Azure service.
The service runs in the development fabric but fails on Windows Azure.
You need to recommend an approach for identifying errors that occur when the service runs on Windows Azure. What should you recommend?

A. Attach a debugger to the Windows Azure role instance.
B. Analyze debugging information captured by Windows Azure Diagnostics.
C. Modify the service configuration for the Windows Azure role to access development storage.
D. Analyze debugging information written to the output window of the Windows Azure role instance.

Answer: B

Question: 51

You are designing an integration test plan for a Windows Azure .NET 3.5 application.
You need to recommend a testing environment that allows developers to debug the application while accessing data in the cloud. What should you recommend?

A. Run the application on Windows Azure. Use the development storage account.
B. Run the application on Windows Azure. Use a Windows Azure Storage account.
C. Run the application in the development fabric. Use the development storage account.
D. Run the application in the development fabric. Use a Windows Azure Storage account.

Answer: D

Question: 52

You are designing a Windows Azure web application. The application will be accessible at a standard cloudapp.net URL.
You need to recommend a DNS resource record type that will allow you to configure access to the application through a custom domain name.
Which type should you recommend?

A. A

B. CNAME
C. MX
D. SRV

Answer: B

Question: 53

You are designing a Windows Azure web application that includes many static content files.
The application will be accessed from locations all over the world by using a custom domain.
You need to recommend an approach for providing access to the static content with the lowest possible latency.
Which two actions should you recommend? (Each correct answer presents part of the solution.
Choose two.)

A. Place the static content in Windows Azure Blob storage.
B. Place the static content in Windows Azure Table storage.
C. Configure a custom domain that is an alias for the Windows Azure Storage domain.
D. Configure a custom domain that is an alias for the Windows Azure Content Delivery Network (CDN) domain.

Answer: A, D

Question: 54

You are planning the migration of an existing application to Windows Azure.
The application includes a trace listener that produces log files. The log files must be transferred to the Windows Azure Storage service each day with the minimum amount of effort.
You need to recommend an approach for transferring the log files.
What should you recommend?

A. Perform on-demand transfers of custom error logs.
B. Perform on-demand transfers of Windows Azure logs.
C. Configure scheduled transfers of custom error logs.
D. Configure scheduled transfers of Windows event logs.

Answer: C

Question: 55

You are designing a Windows Azure application that will be subjected to significant loads. The application resource utilization will be monitored remotely by using a predefined set of performance counters.
You have the following requirements:
·Allow for continual monitoring of the performance counters.
·Allow for remote configuration of the performance counters.
·Minimize Windows Azure Storage transactions.
You need to recommend an approach for remotely monitoring the application.
What should you recommend?

A. In the deployed application, create the necessary PerformanceCounter objects and schedule transfers of the event logs.

B. In the deployed application, create the necessary PerformanceCounter objects and schedule transfers of the counter buffers.

C. Use Windows Azure Diagnostics to configure performance counters and perform scheduled transfers of the event logs.

D. Use Windows Azure Diagnostics to configure performance counters and perform scheduled transfers of the counter buffers.

Answer: D

Question: 56.

A Windows Azure application requires high Windows Azure Storage throughput. Windows Azure Diagnostics is configured for scheduled transfers to Windows Azure Storage.

The application is experiencing slow response times. You determine that the current Windows Azure Diagnostics configuration is responsible for the reduced application performance.

You need to recommend an approach for improving application performance.

What should you recommend?

A. Increase the number of application role instances.

B. Increase the Windows Azure Diagnostics buffer quota.

C. Decrease the Windows Azure Diagnostics buffer quota.

D. Move Windows Azure Diagnostics to its own Windows Azure Storage account.

Answer: D

Question: 57

You are designing a Windows Azure application.

Corporate policy dictates that you must retain all application logs.

You need to recommend an approach for complying with the corporate policy.

What should you recommend?

A. Perform on-demand transfers.

B. Configure scheduled transfers.

C. Configure a diagnostic trace listener.

D. Increase the diagnostics buffer quotas.

Answer: B

Question: 58

A SQL Azure database generates an error when a row is inserted into any table in the database. No error is generated when a row is deleted.

You need to recommend an approach for locating the source of the errors.

What should you recommend?

A. Use a Dynamic Management View to check for locks.

B. Use a Dynamic Management View to check for blocked queries.

C. Use a Dynamic Management View to check for long-running queries.

D. Use a Dynamic Management View to check the size and maximum size of the database.

| | **Answer: D** |

Question: 59

A Windows Azure application connects to a SQL Azure database.
Connections to the database are being dropped due to throttling.
You need to recommend an approach for identifying the root cause of the problem.
Which two actions should you recommend? (Each correct answer presents part of the solution.
Choose two.)

A. Use Dynamic Management Views to analyze performance issues.
B. Decrease the connection timeout in the database connection string.
C. Make sure the application is closing database connections that are not needed.
D. Use SQL Profiler to analyze performance issues by configuring it to connect to SQL Azure.

| | **Answer: A, C** |

Question: 60

A Windows Azure application connects to a SQL Azure database.
The database size has increased significantly. Some queries in the application no longer complete.
You need to recommend an approach for identifying queries that do not complete.
What should you recommend?

A. Use the SQL Server Profiler to capture all SQL activities.
B. Use a Dynamic Management View to analyze performance.
C. Use the Database Engine Tuning Advisor to analyze the workload.
D. Use Microsoft SQL Server Management Studio to analyze the SQL logs.

| | **Answer: B** |

Question: 61

You are analyzing the performance of a SQL Azure database.
You need to recommend an approach for identifying the indexes that should be added to improve database performance. What should you recommend?

A. Use SQL Server Profiler to identify missing indexes.
B. Use the Database Engine Tuning Advisor to identify missing indexes.
C. Use a Dynamic Management View to analyze query plans.
D. Use a Dynamic Management View to ascertain the number of pending I/O requests.

| | **Answer: C** |

Question: 62

You are designing a plan to migrate an application to Windows Azure. The application generates log files in a

proprietary format.
You need to recommend an approach for retaining the existing log file format.
What should you recommend?

A. Configure Windows Azure Diagnostics to transfer event logs.
B. Configure Windows Azure Diagnostics to transfer directories.
C. Configure Windows Azure Diagnostics to transfer performance counters.
D. Configure Windows Azure Diagnostics to transfer basic Windows Azure logs.

Answer: B

Question: 63

You are designing a test plan for an existing Windows Azure .NET 4 application.
Method calls return incorrect results for certain input parameters.
You need to recommend an approach for debugging the method calls.
What should you recommend?

A. Attach the remote debugger to the application.
B. Use the Microsoft Visual Studio 2010 Test Manager tool.
C. Use IntelliTrace to collect only events from the application.
D. Use IntelliTrace to collect events and call information from the application.

Answer: D

Question: 64

A Windows Azure .NET 4 application is experiencing a runtime issue.
One of the roles cycles through initializing, working, and stopping.
You need to recommend an approach for identifying the problem.
What should you recommend?

A. Attach the remote debugger to the application.
B. Enable IntelliTrace and redeploy the application.
C. View the logs in the Windows Azure Diagnostic tables.
D. Use the Event Viewer to remotely connect to the role.

Answer: B

Question: 65

An application receives an error message when initializing a connection to a Windows Azure Queue. You need to recommend an approach for resolving the problem.
What should you recommend?

A. Ensure that the queue is not full.
B. Ensure that the queue has messages in it.
C. Ensure that the queue name does not contain illegal characters.
D. Ensure that multiple processes are not talking to the same queue.

Answer: C

Question: 66

You are designing a Windows Azure application that will generate events for multiple clients. Client web services might be behind NAT gateways.
You need to recommend an approach that will allow you to broadcast the events to clients.
What should you recommend?

A. Use ADO.NET Data Services and provide a shared key to clients.
B. Use Windows Azure Queues and provide a shared key to clients.
C. Use Windows Azure Table storage and provide a shared key to clients.
D. Use the Windows Azure AppFabric Service Bus and provide a shared secret to clients.

Answer: D

Question: 67

An on-premise .NET application uses an on-premise Microsoft SQL Server 2008 database. The existing compute infrastructure is insufficient to support peak loads.
You plan to move only the compute-intensive component of the application into Windows Azure. The component requires access to the on-premise database.
The on-premise database cannot be accessed from outside the network boundary.
You need to recommend a database topology.
What should you recommend?

A. Use SQL Azure for the on-premise components and the compute-intensive component.
B. Configure merge replication with the on-premise database as publisher and the SQL Azure database as subscriber.
C. Configure snapshot replication with the on-premise database as publisher and the SQL Azure database as subscriber.
D. Configure snapshot replication with the SQL Azure database as publisher and the on-premise database as subscriber.

Answer: A

Question: 68

Your company hosts web services in the company intranet. The intranet is secured by a firewall.
Devices outside the firewall must be able to access the web services. Company policies prohibit changes to firewall rules.
You need to recommend an approach for enabling inbound communication.
What should you recommend?

A. UseWindows Server AppFabric.
B. Use the Windows Azure AppFabric Service Bus.
C. Use the Windows Azure AppFabric Access Control Service.
D. Use a Windows Communication Foundation (WCF) service in a Windows Azure role that relays to the internal web service.

Answer: B

Question: 69

You are designing a Windows Azure web application.
The application must integrate with on-premise business services. The business services are running on an on-premise server and cannot be rewritten. The business services are not exposed externally.
You need to recommend an approach for accessing the business services.
What should you recommend?

A. Move business service functionality to Windows Azure.
B. Connect to the on-premise server from a custom service in Windows Azure.
C. Create a VPN connection between the application and the on-premise server.
D. Expose the business services to the Windows Azure AppFabric Service Bus by using a custom service that configures relay binding.

Answer: D

Question: 70

Multiple Windows Azure applications connect to multiple SQL Azure servers. On-premise users connect to the SQL Azure servers for a variety of purposes.
You successfully deploy a new Windows Azure application with its own SQL Azure server. When onpremise users attempt to connect to the new SQL Azure server they receive connection errors. You need to recommend an approach for mitigating the connectivity issue.
What should you recommend?

A. Open port 1433 on the network firewall.
B. Use Security Support Provider Interface (SSPI).
C. Disable the validation of the SSL certificate for the SQL Azure server through the connection string.
D. Change the firewall rules of the new SQL Azure server to allow access by computers on the internal network.

Answer: D

Question: 71

An on-premise application is exposed to external users through a Windows Communication
Framework (WCF) service endpoint registered in the Windows Azure AppFabric Service Bus.
You need to recommend an approach for providing transport-level security that maximizes performance and minimizes bandwidth requirements.
What should you recommend?

A. Use reliable messaging. Use HTTP for message delivery.
B. Use binary message encoding. Use TCP for message delivery.
C. Use Plain Old XML (POX) messages. Use TCP for message delivery.
D. Use Message Transmission Optimization Mechanism (MTOM) message encoding. Use HTTPS for message delivery.

Answer: B

Question: 72

You are designing an application that will interact with non-Windows applications over unreliable connections.
Each non-Windows application will have its own security token.
You need to recommend an approach for non-Windows applications to retrieve messages.
What should you recommend?

A. Retrieve messages from a Windows Azure Queue.
B. Retrieve messages from Windows Azure Table storage.
C. Retrieve messages from a blob storage container that has a private access policy.
D. Retrieve messages from the Windows Azure AppFabric Service Bus message buffer.

Answer: D

Question: 73

You are designing a service that will use the Windows Azure AppFabric Service Bus.
You need to recommend an approach for controlling access to the service by using the Windows Azure AppFabric Access Control Service.
Which two actions should you recommend? (Each correct answer presents part of the solution.
Choose two.)

A. Configure the service to not require authentication.
B. Configure the service to require a relay access token.
C. Specify message security for all communications between clients and the service.
D. Specify transport security for all communications between clients and the service.

Answer: B, C

Question: 74

You are designing a plan for migrating an application to the Windows Azure platform. All users authenticate by using their Active Directory Domain Services (AD DS) credentials.
The Windows Azure application must provide single sign-on (SSO) for domain-authenticated users. You need to recommend an authentication type for the service endpoint behavior.
What should you recommend?

A. SAML credential
B. Windows authentication
C. shared secret credential
D. Microsoft Challenge Handshake Authentication Protocol (MSCHAP)

Answer: A

Question: 75

You are designing a Windows Azure application. The application will use a Windows Azure AppFabric Service Bus message buffer.

You need to recommend an approach for ensuring that only authorized users can discover and use the message buffer. What should you recommend?

A. Make the message buffer discoverable to listeners and require authorization.
B. Make the message buffer discoverable to managers and do not require authorization.
C. Make the message buffer publicly discoverable. Include a Simple Web Token (SWT) in each message.
D. Make the message buffer discoverable to managers. Include a Simple Web Token (SWT) in each message.

Answer: D

Question: 76

You are designing a Windows Azure web application. All users authenticate by using their Active Directory Domain Services (AD DS) credentials. You need to recommend an approach for enabling single sign-on for domain-authenticated users. Which two actions should you recommend? (Each correct answer presents part of the solution. Choose two.)

A. Use Forms authentication to generate claims
B. Use Active Directory Federation Services (AD FS) to generate claims.
C. Use SqlMembershipProvider in the web application.
D. Use Windows Identity Foundation in the web application.

Answer: B, D

Question: 77

You are designing a plan to migrate an existing application to Windows Azure. The application currently resides on a server that has 768 MB of memory and multiple cores.
You need to recommend the smallest compute instance size that is equivalent to the existing server.
Which size should you recommend?

A. Small
B. Medium
C. ExtraSmall
D. Large

Answer: C

Explanation:
http://www.microsoft.com/windowsazure/features/compute/

Question: 78

You develop an ASP.NET web application that uses a Windows Azure web role. The application includes a startup script that installs a third-party component.
You are developing a test plan for the startup script.
You need to recommend the most time-efficient strategy for testing the startup script in the Windows Azure environment.
What should you recommend?

A. Deploy the application and then use IntelliTrace.
B. Deploy the application in the Windows Azure Compute Emulator.
C. Deploy the application with a custom error page.
D. Enable Remote Desktop Protocol (RDP) and deploy the application without the startup script. Connect to the web role instance by using RDP, and then manually test the startup script.

Answer: B

Question: 79

You are designing a plan to migrate an existing application to Windows Azure.
The application currently resides on a server that has 20 GB of hard disk space.
You need to recommend the smallest compute instance size that provides local storage equivalent to that of the existing server.
Which size should you recommend?

A. Large
B. Small
C. ExtraSmall
D. ExtraLarge

Answer: C

Explanation:
http://www.microsoft.com/windowsazure/features/compute/

Question: 80

You are designing an automated deployment process for a Windows Azure application. The process must deploy the application to Windows Azure without any user interaction. You need to recommend a deployment strategy.
What should you recommend?

A. Publish the cloud project to a local directory and use the windows Azure Developer Portal to upload the application.
B. Use the cspack and csrun command-line utilities and pass the cloud project as an argument.
C. Use the Service Management API to deploy the application package.
D. Publish the cloud project to a local directory and upload the application package to Windows Azure Blob storage.

Answer: C

Question: 81

You are designing a Windows Azure development environment. Team members will learn Windows Azure development techniques by training in the environment.
The development environment must provide a minimum of 1 GB of memory.
You need to recommend the most cost-effective compute instance size that will allow team members to work with Windows Azure in the development environment.
Which size should you recommend?

A. Large
B. Medium
C. Small
D. ExtraSmall

	Answer: C

Explanation:
http://www.microsoft.com/windowsazure/features/compute/

Question: 82

You are developing a web service that will run on a single instance of a Windows Azure worker role.
When interacting with external clients during the testing phase, the service encounters errors that may be related to the format of the HTTP payload.
You need to recommend an approach that allows developers to monitor the service's HTTP traffic in real-time.
What should you recommend?

A. Add an endpoint to the worker role to accept HTTPS connections on port 443.
B. Change the service to run in a Windows Azure web role.
C. Use the Windows Azure Diagnostics API to download the IIS logs.
D. Enable Remote Desktop Protocol (RDP) on the worker role.

	Answer: B

Question: 83

You are designing a test plan for an existing Windows Azure .NET 4 application. Method calls return incorrect results for certain input parameters. You need to recommend an approach for debugging the method calls.
What should you recommend?

A. Use IntelliTrace to collect events and call information from the application.
B. Attach the remote debugger to the application.
C. Use the Microsoft Visual Studio 2010 Test Manager tool.
D. Use IntelliTrace to collect only events from the application.

	Answer: A

Question: 84

You are planning to migrate an existing web application to Windows Azure. The application uses a third-party component that maintains its configuration locally. The component must periodically be reconfigured by using command-line tools while the application is running.
Reconfiguring the component must have minimal impact on the application's availability.
You need to recommend a strategy for reconfiguring the component without changing or adding application code.
What should you recommend?

A. Deploy the application by using a Windows Azure VM role. Reconfigure the component by downloading the virtual

machine (VM) image, mounting it on a local server running Microsoft Hyper-V Server 2008 R2, performing the reconfiguration, and then uploading the VM image to Azure.

B. Deploy the application by using a Windows Azure web role and enable Remote Desktop Protocol (RDP) access to the role. Reconfigure the component by using the RDP client to connect to the compute instance and run the commands interactively.

C. Deploy the application by using a Windows Azure CGI web role that has a handler mapped to the command-line tools. Reconfigure the component by sending the commands as HTTP PUT requests.

D. Deploy the application by using a Windows Azure web role. Reconfigure the component by using the Windows Azure Service Management API to send an XML document that contains the commands to be executed.

Answer: B

Question: 85

You are planning to migrate an existing web application to Windows Azure. The application consists of an ASP.NET web application and a set of native Win32 Windows Services that provide data to the application by using named pipes.

The Windows Services cannot be modified.

You need to recommend a strategy for migrating the application to Windows Azure.

What should you recommend?

A. Deploy each Windows Service to a separate worker role. Deploy the ASP.NET application to a web role.

B. Upload service binaries to a web role by using the Windows Azure Service Management API

C. Define a Windows Communication Foundation (WCF) contract for the services.

D. Deploy the application and Windows Services in a Windows Azure VM role.

Answer: D

Explanation:
http://www.microsoft.com/windowsazure/features/virtualmachines/

Question: 86

You are designing a Windows Azure application that will include two web roles. The web roles will communicate with on-premise development computers and on-premise databases.

Web Role 1 must connect to development computers and databases. Web Role 2 must connect to only databases.

You need to recommend a Windows Azure Connect configuration.

What should you recommend?

A. Create one endpoint group that contains the development computers and databases. Connect Web Role 1 and Web Role 2 to the endpoint group.

B. Create one endpoint group that contains the development computers and databases, and connect it to Web Role 1. Create one endpoint group that contains only the databases, and connect it to Web Role 2.

C. Create one endpoint group that contains the development computers and one endpoint group that contains the databases. Connect Web Role 1 to both endpoint groups. Connect Web Role 2 to only to the database endpoint group.

D. Create one endpoint group that contains the development computers and one endpoint group that contains the databases. Connect the endpoint groups. Connect Web Role 1 and Web Role 2 to the development computer group.

Answer: C

Explanation:
http://msdn.microsoft.com/en-us/library/windowsazure/gg432959.aspx

Question: 87

A Windows Azure application is activated for Windows Azure Connect.
A corporate policy blocks Internet traffic for local servers.
You need to recommend the firewall rule that will allow Windows Azure Connect traffic for local servers.
What should you recommend?

A. Allow TCP port 3389 inbound.
B. Allow TCP port 443 inbound.
C. Allow TCP port 443 outbound.
D. Allow TCP port 3389 outbound.

Answer: C

Question: 88

You are designing a distributed application for Windows Azure.
The application must securely integrate with on-premise servers.
You need to recommend a method of enabling IPSec-protected connections between on-premise servers and the distributed application.
What should you recommend?

A. Configure Windows Azure AppFabric Access Control.
B. Configure Windows Azure Content Delivery Network (CDN).
C. Configure Windows Azure Connect.
D. Configure Windows Azure AppFabric Service Bus.

Answer: C

Question: 89

You are designing a Windows Azure application that will communicate with existing on-premise applications and services.
The application will be activated for Windows Azure Connect.
You need to recommend a solution for completing the Windows Azure Connect configuration.
Which two actions should you recommend? (Each correct answer presents part of the solution. Choose two.)

A. Install endpoint software on hosted virtual machines.
B. Install endpoint software on local computers or virtual machines.
C. Place hosted endpoints in groups and then configure a connection between the groups and the application.
D. Place local endpoints in groups and then configure a connection between the groups and the application.

Answer: B, D

Question: 90

You are designing a plan to migrate an existing application to Windows Azure.
The application must use the existing Active Directory Domain Services (AD DS) domain.
You need to recommend an approach for joining Windows Azure virtual machines to the domain.
What should you recommend?

A. Install Active Directory Federation Services (AD FS) in the existing domain.
B. Install the Active Directory Certificate Services (AD CS) root certificate into the Enterprise Trust certificate store on each virtual machine.
C. Configure Windows Azure AppFabric Access Control
D. Configure Windows Azure Connect.

Answer: D

Explanation:
http://www.microsoft.com/windowsazure/features/virtualmachines/