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Exam : **070-532**

Title : Developing Microsoft Azure Solutions

Vendor : Microsoft

Version : DEMO

NO.1 HOTSPOT
You need to find all existing works about World History that are overdue and are stored in the repository.
How should you complete the relevant code? To answer, select the appropriate option or options in the answer area.

Answer Area

```
var root = Storage.Account().TableStorageUri;
var query = root + "library()?$filter=" +

"  [ ]  " +
     Late%20gt%200
     Late%20lt%200
     Late%20ne%20true
     Late%20eq%20true

"%20and%20  [ ]  %20eq%20'World History'";
     RowKey
     WorkID
     Subject
     PartitionKey
```

Answer:

Answer Area

```
var root = Storage.Account().TableStorageUri;
var query = root + "library()?$filter=" +

"  [ ]  " +
     Late%20gt%200
     Late%20lt%200
     Late%20ne%20true
     Late%20eq%20true

"%20and%20  [ ]  %20eq%20'World History'";
     RowKey
     WorkID
     Subject
     PartitionKey
```

NO.2 A critical internal IT server provisioning process is under review and the IT manager is considering moving the process to the cloud. The IT staff has selected the cloud provider and must now migrate the process. Which of the following MUST the IT staff do to ensure the transaction meets the IT manager's requirements?

A. Ask the server administrator to sign off and approve the implementation plan.

B. Shift the current process to the cloud since the SLA will guarantee 99.999% availability.
C. Survey the business users and implement the solution that received the most positive feedback.
D. Pilot the process using cloud resources and perform a comprehensive test.
Answer: D

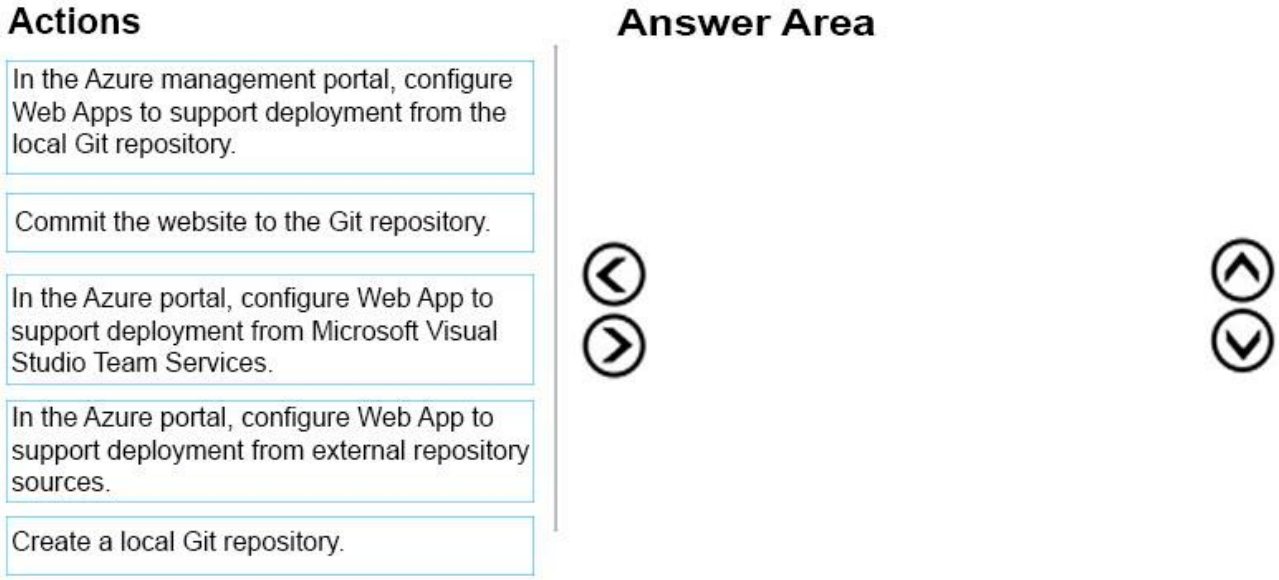
NO.3 You are designing a Windows Azure application.
The application includes a web role and a worker role that communicate by using a Windows Azure Queue. The worker role processes each message within 10 seconds of retrieving it from the queue.
The worker role must process each message exactly one time.
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. Set the visibility timeout of the message to 1 when retrieving the message.
B. Process the message and then set the visibility timeout of the message to the maximum value.
C. Delete the message from the queue when retrieving the message.
D. Process the message and then delete it from the queue.
Answer: D

NO.4 You need to select an Azure storage service solution for completed mortgage applications and supporting documents.
Which solution should you use?
A. queue storage
B. blob storage
C. file storage
D. table storage
Answer: C
Explanation:
File storage is required to access the files via a network file share.
The custom executable must continue to use a network file share to access files.

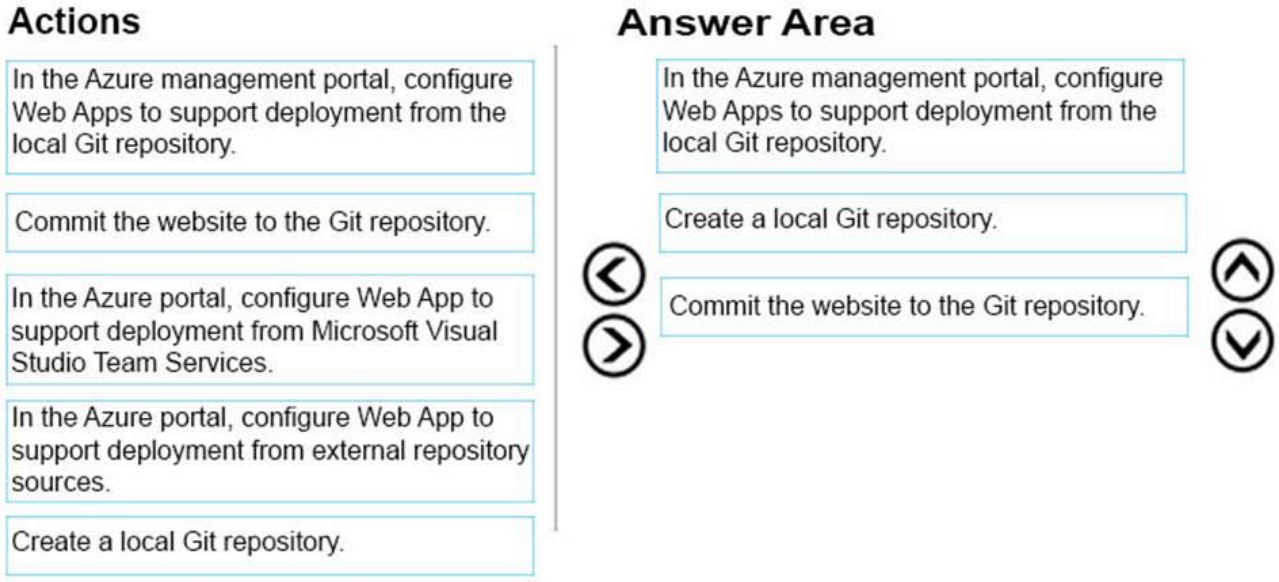
NO.5 You need to create, configure and deploy all VMs for the drug pricing and dosage software.
What should you do?
A. Install and configure a VM agent. Use Azure PowerShell to set the value of the ProvisionVMAgent Property to True.
B. Provision each VM by using the Azure portal.
C. Use the Azure Command Line Interface (CLI) to run the azure provider register command for each CM resource.
D. Deploy the solution by using Visual Studio Team Service Release Management.
Answer: A

NO.6 DRAG DROP
Your team uses a proprietary source control product. You use FTP to manually deploy an Azure Web App.
You must move your source code from the proprietary source control product to a secure on-

premises Git versioning system. Instead of deploying the website by using FTP, the website must automatically deploy to Azure each time developers check-in source files.
You need to implement the new deployment strategy.
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.



Answer:



References:
https://docs.microsoft.com/en-us/aspnet/core/publishing/azure-continuous-deployment

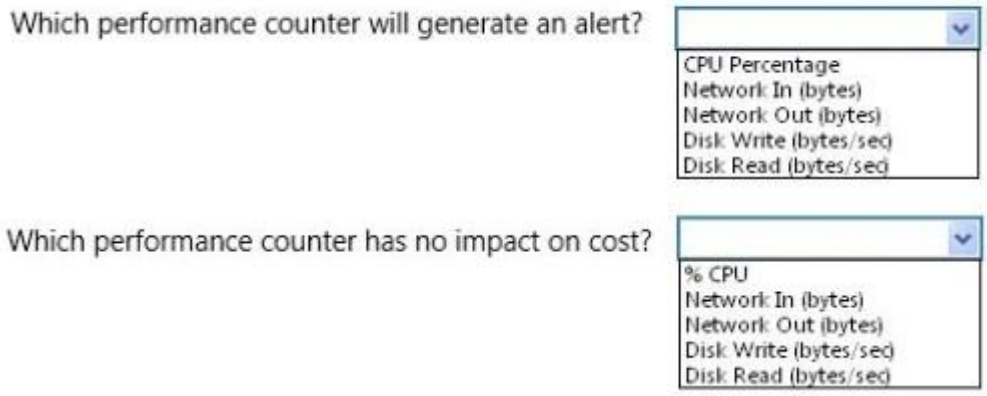
NO.7 Which of the following enables hardware independence?
A. In-sourcing
B. Outsourcing
C. Virtualization
D. Abstraction

Answer: C
Virtualization is a conversion process that translates unique IT hardware into emulated and standardized software-based copies. Through hardware independence, virtual servers can easily be moved to another virtualization host, automatically resolving multiple hardware-software incompatibility issues. As a result, cloning and manipulating virtual IT resources is much easier than duplicating physical hardware.
References: http://whatiscloud.com/virtualization_technology/hardware_independence

NO.8 HOTSPOT
You configure alerts in Azure. The metrics shown in the following exhibit represent the average values for each five-minute period.

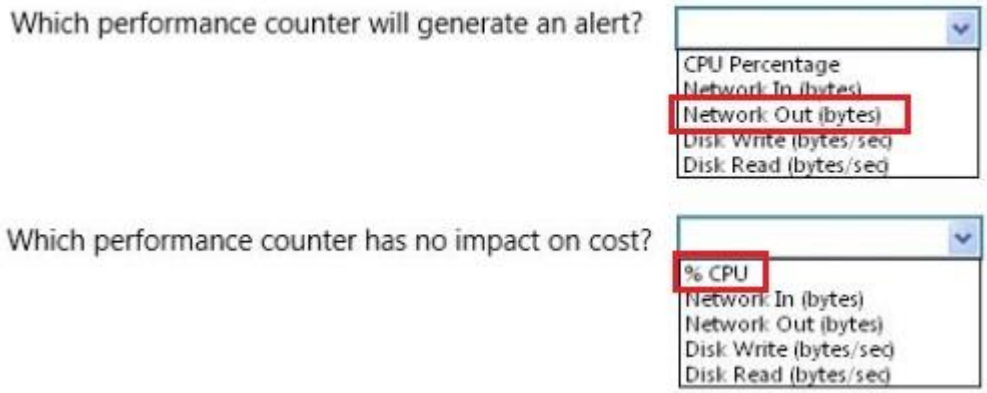
Date/Time	Percent CPU	Network In (bytes)	Network Out (bytes)	Disk Write (bytes/sec)	Disk Read (bytes/sec)
August 01, 2014 13:30	84	456	123	345	120
August 01, 2014 13:35	84	1455	1934	980	945
August 01, 2014 13:40	84	930	3677	965	1023
August 01, 2014 13:45	84	1234	2334	923	678
August 01, 2014 13:50	84	123	456	120	1003

To answer, make the appropriate selections in the answer area.
Answer Area



Answer:

Answer Area



NO.9 You administer an Access Control Service namespace named contosoACS that is used by a web application.
ContosoACS currently utilizes Microsoft and Yahoo accounts.
Several users in your organization have Google accounts and would like to access the web application through ContosoACS.
You need to allow users to access the application by using their Google accounts.
What should you do?

A. Register the application directly with Google.

B. Add a new Google identity provider.

C. Edit the existing Microsoft Account identity provider and update the realm to include Google.

D. Add a new WS-Federation identity provider and configure the WS-Federation metadata to point to the Google sign-in URL.

Answer: B
Explanation:
Configuring Google as an identity provider eliminates the need to create and manage authentication and identity management mechanism. It helps the end user experience if there are familiar authentication procedures.
References:
http://msdn.microsoft.com/en-us/library/azure/gg185976.aspx

NO.10 You are migrating an existing solution to Azure. The solution includes a user interface tier and a database tier.
The user interface tier runs on multiple virtual machines (VMs). The user interface tier has a website that uses Node.js. The user interface tier has a background process that uses Python. This background process runs as a scheduled job. The user interface tier is updated frequently. The database tier uses a self-hosted MySQL database.
The user interface tier requires up to 25 CPU cores. You must be able to revert the user interface tier to a previous version if updates to the website cause technical problems. The database requires up to 50 GB of memory. The database must run in a single VM.
You need to deploy the solution to Azure.
What should you do first?

A. Deploy the entire solution to an Azure website. Run the database by using the Azure data management services.

B. Deploy the user interface tier to a VM. Use multiple availability sets to continuously deploy updates from Microsoft Visual Studio Online.

C. Deploy the database to a VM that runs Windows Server on the Standard tier.

D. Deploy the entire solution to an Azure website. Use a web job that runs continuously to host the database.

Answer: A

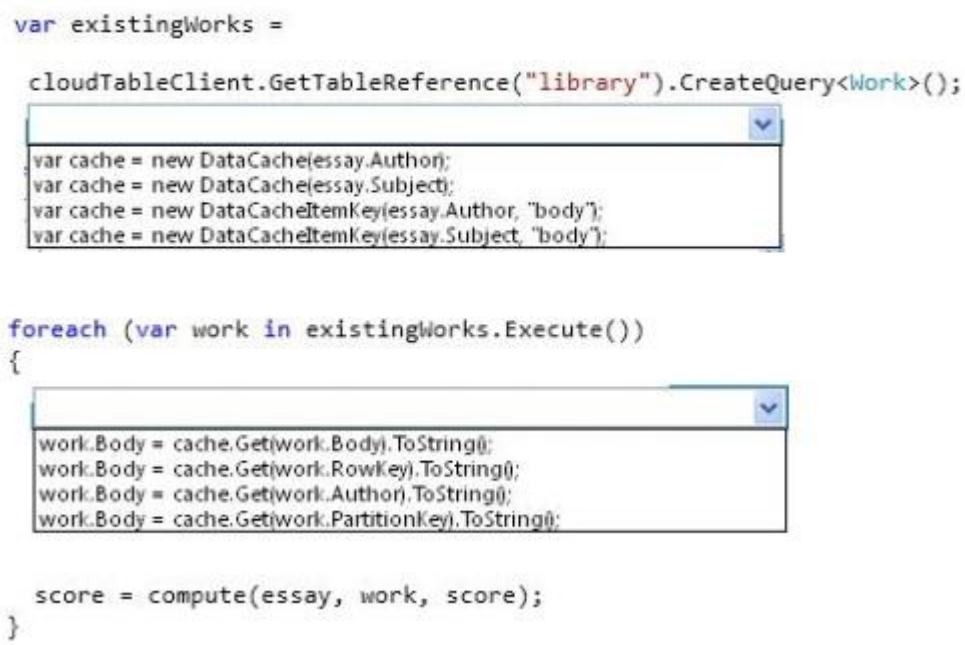
NO.11 HOTSPOT

The Compute method in the PlagiarismCalculation class takes a significant amount of time to load existing works from blob storage. To improve performance, the service must load existing works from the cache.

You need to modify the Compute method in the class PlagiarismCalculation.

How should you modify the method? To answer, select the appropriate option or options in the answer area.

Answer Area



Answer:

Answer Area

```
var existingWorks =

 cloudTableClient.GetTableReference("library").CreateQuery<Work>();
```

[▼]
- var cache = new DataCache(essay.Author);
- var cache = new DataCache(essay.Subject);
- var cache = new DataCacheItemKey(essay.Author, "body");
- var cache = new DataCacheItemKey(essay.Subject, "body");

```
foreach (var work in existingWorks.Execute())
{
```

[▼]
- work.Body = cache.Get(work.Body).ToString();
- work.Body = cache.Get(work.RowKey).ToString();
- work.Body = cache.Get(work.Author).ToString();
- work.Body = cache.Get(work.PartitionKey).ToString();

```
  score = compute(essay, work, score);
}
```

NO.12 HOTSPOT

You administer an Azure environment that contains multiple virtual machines (VMs).

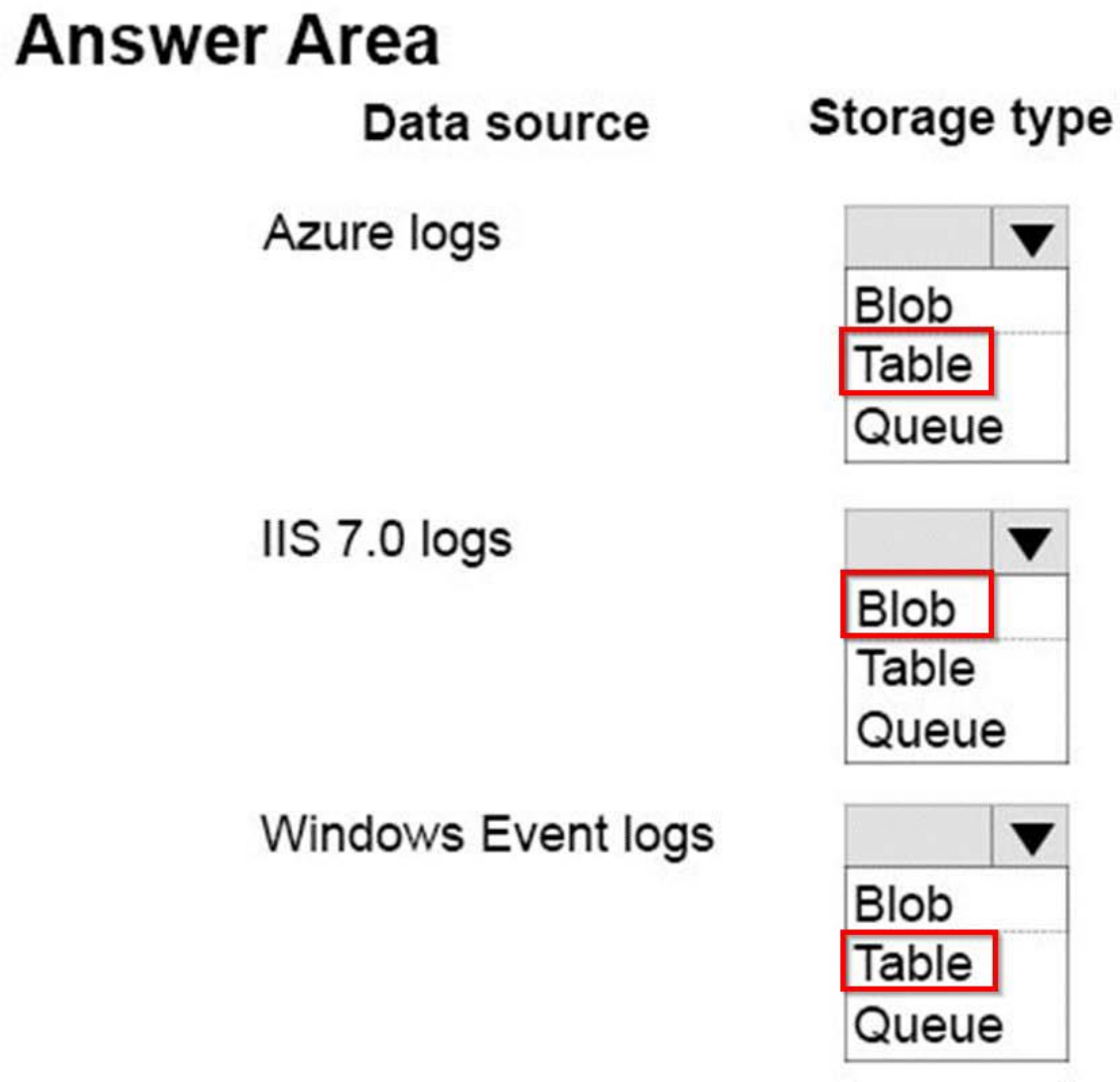
You need to view and retrieve diagnostic logs for all VMs.

Which storage type should you use for each data source? To answer, select the appropriate options in the answer area.

Answer Area

Data source	Storage type
Azure logs	[▼] Blob / Table / Queue
IIS 7.0 logs	[▼] Blob / Table / Queue
Windows Event logs	[▼] Blob / Table / Queue

Answer:



References:
https://docs.microsoft.com/en-us/azure/cloud-services/cloud-services-dotnet-diagnostics-storage

NO.13 Following an IT Service Management lifecycle approach, a Chef Information Officer would take which of the following paths to implement a cloud solution?

A. Choose the SaaS provider, Design the application; Choose whether to develop the service application in- house or outsource; Operate the service application in the cloud.

B. Decide whether to implement the application on the cloud; Choose an IaaS provider; Choose whether to develop the service in-house; Operate the Service application in the cloud.

C. Decide whether to implement on the cloud; Choose a XaaS provider, Design the application; Choose where to develop the service application; Operate the service application in the cloud.

D. Strategize which IaaS provider to use; Design the application; Transition processes to the cloud; Operate the service application in the cloud.

Answer: B

NO.14 HOTSPOT

You store JSON data in a blob by using the Azure Blob service. Web applications access the JSON data by using client-side JavaScript calls.

JSON data is stored in a container that is configured to allow anonymous access. Web applications that are allowed to make updates to the data have access to any necessary shared access signatures (SASs) and storage keys.
You configure one Cross-Origin Resource Sharing (CORS) rule for the https://fabrikam.com domain and then run the following method. Line numbers are provided for reference only.

```
01 void ConfigureBlobCorsRules(CloudBlobClient blobClient)
02 {
03   var blobServiceProperties = blobClient.GetServiceProperties();
04   var partnerCorsRule = new CorsRule();
05   partnerCorsRule.AllowedOrigins.Add("https://contoso.com");
06   partnerCorsRule.AllowedMethods = CorsHttpMethods.Post | CorsHttpMethods.Put;
07   partnerCorsRule.ExposedHeaders.Add("*");
08   partnerCorsRule.AllowedHeaders.Add("*");
09   blobServiceProperties.Cors.CorsRules.Add(partnerCorsRule);
10   var publicCorsRule = new CorsRule();
11   publicCorsRule.AllowedOrigins.Add("*");
12   publicCorsRule.AllowedMethods = CorsHttpMethods.Get;
13   publicCorsRule.ExposedHeaders.Add("*");
14   publicCorsRule.AllowedHeaders.Add("*");
15   blobServiceProperties.Cors.CorsRules.Add(publicCorsRule);
16   blobClient.SetServiceProperties(blobServiceProperties);
17 }
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

Answer Area

	Yes	No
The CORS rule that was previously configured for https://fabrikam.com is no longer in effect after this method runs.	○	○
Partners from the https://contoso.com domain can access the configured storage by using the **HTTP HEAD** operation.	○	○
Partners from the https://contoso.com domain can access the configured storage service by using the **HTTP GET** operation.	○	○

Answer:

Answer Area

	Yes	No
The CORS rule that was previously configured for https://fabrikam.com is no longer in effect after this method runs.	◉	○
Partners from the https://contoso.com domain can access the configured storage by using the **HTTP HEAD** operation.	○	◉
Partners from the https://contoso.com domain can access the configured storage service by using the **HTTP GET** operation.	○	◉

NO.15 DRAG DROP

You are developing an ASP.NET Web App that makes a large number of calls to Azure Blob storage.
You observe that the app suffers from Azure Blob storage throttling.
You need to resolve throttling failures when loading data from Azure Blob storage.
What should you do? To answer, drag the appropriate code segment to the correct location. Each code segment 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 NOTE: Each correct selection is worth one point.

400
403
500
503
waitMillisecnd * 2;
waitMillisecnd + 2;

Answer Area

```
var sasBlobUri = "..." ;
var waitMillisecond = 1000;
while (true) {
  using (var client = new System.Net.Http.HttpClient())
  {
    var response = await client.GetAsync(sasBlobUri );
    if (response.IsSuccessStatusCode)
    {
      return await response.Content.ReadAsByteArrayAsync();
    }
    else
    {
      var statusCode = ( int)response.StatusCode;
      if (statusCode = = [          ]
       || statusCode = = [          ] )
      {
        waitMillisecond = [          ]
        await Task .Delay(waitMillisecond)
      }
      else
      {
        response.EnsureSuccessStatusCode();
      }
    }
  }
}
```

Answer:

400

403

500

503

waitMillisecnd * 2;

waitMillisecnd + 2;

Answer Area

```
var sasBlobUri = "..." ;
var waitMillisecond = 1000;
while (true) {
  using (var client = new System.Net.Http.HttpClient())
  {
    var response = await client.GetAsync(sasBlobUri );
    if (response.IsSuccessStatusCode)
    {
      return await response.Content.ReadAsByteArrayAsync();
    }
    else
    {
      var statusCode = ( int)response.StatusCode;
      if (statusCode = = [500]
       || statusCode = = [503] )
      {
        waitMillisecond = [waitMillisecnd * 2;]
        await Task .Delay(waitMillisecond)
      }
      else
      {
        response.EnsureSuccessStatusCode();
      }
    }
  }
}
```

NO.16 HOTSPOT

You are creating a set of load-balanced virtual machines (VMs) that are hosted on Azure.

You run the following Windows PowerShell script. Line numbers are included for reference only.

```
01  Add-AzureInternalLoadBalancer -ServiceName "Contoso-Chicago" -InternalLoadBalancerName "Data-LB"
     -SubnetName "DataFarm1" -StaticVNetIPAddress 192.168.100.10
02  Get-AzureVM -ServiceName "Contoso-Chicago" -Name "DATA1" | Add-AzureEndpoint -Name "DataFarm"
     -Protocol "TCP" -LocalPort 1433 -PublicPort 1337 -DefaultProbe -InternalLoadBalancerName "Data-LB" | Update-AzureVM
03  Get-AzureService -ServiceName "Contoso-Chicago" | Get-AzureInternalLoadBalancer
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

Answer Area

	Yes	No
The internal IP address of the VM named **DATA1** is 192.168.100.10.	○	○
The endpoint named **DataFarm** can be accessed by using external port 1337.	○	○
The internal load balancer for the Contoso-Chicago service is named **Data-LB**.	○	○

Answer:

Answer Area

	Yes	No
The internal IP address of the VM named **DATA1** is 192.168.100.10.	○	○
The endpoint named **DataFarm** can be accessed by using external port 1337.	○	○
The internal load balancer for the Contoso-Chicago service is named **Data-LB**.	○	○

NO.17 A cloud computing vendor is focusing on delivering applications to customers. The goal is to simplify the deployment of database functionality while removing the need for customers to manage the operation system and application patching. Which of the following types of solution is the vendor offering?

A. Infrastructure as a Service

B. IT as a Service

C. Platform as a Service

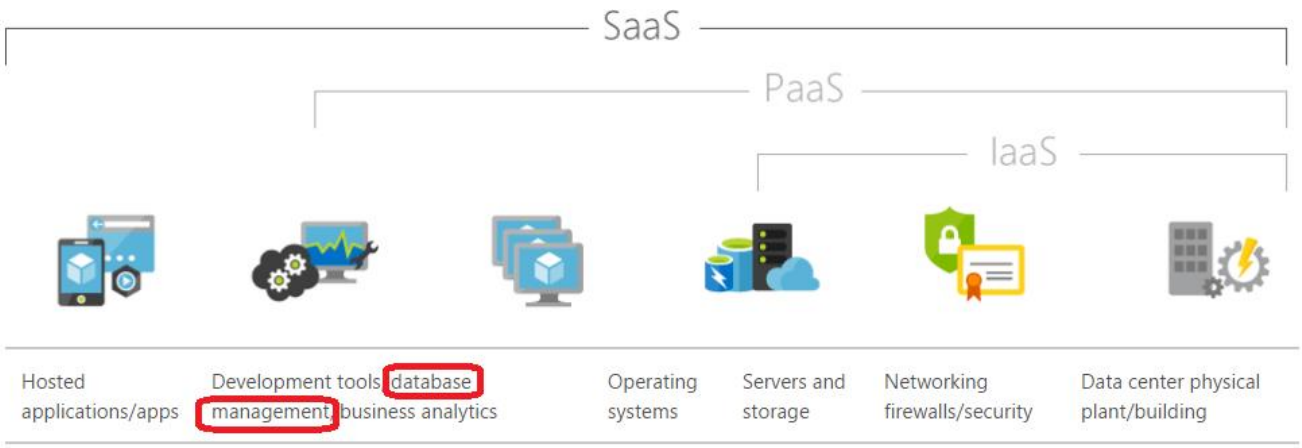
D. Anything as a Service

E. Software as a Service

Answer: C

PaaS includes infrastructure-servers, storage, and networking-but also middleware, development tools, business intelligence (BI) services, database management systems, and more.

Note:



References: https://azure.microsoft.com/en-us/overview/what-is-paas/

NO.18 Which of the following is a potential advantage of using Storage as a Service?

A. Data is accessible when the Internet is not functioning

B. In-house IT staff controls all data

C. Decrease in IT management of the platform

D. Increase in encryption technologies

Answer: C

One advantages of SaaS is that is makes it easy to "mobilize" your workforce because users can access SaaS apps and data from any Internet-connected computer or mobile device. You don't need to worry about developing apps to run on different types of computers and devices because the service provider has already done so. In addition, you don't need to bring special expertise onboard to manage the security issues inherent in mobile computing. A carefully chosen service provider will ensure the security of your data, regardless of the type of device consuming it.

References: https://azure.microsoft.com/en-us/overview/what-is-saas/