DBCLOUD
EXAMS

QUESTIONS & ANSWERS

verified

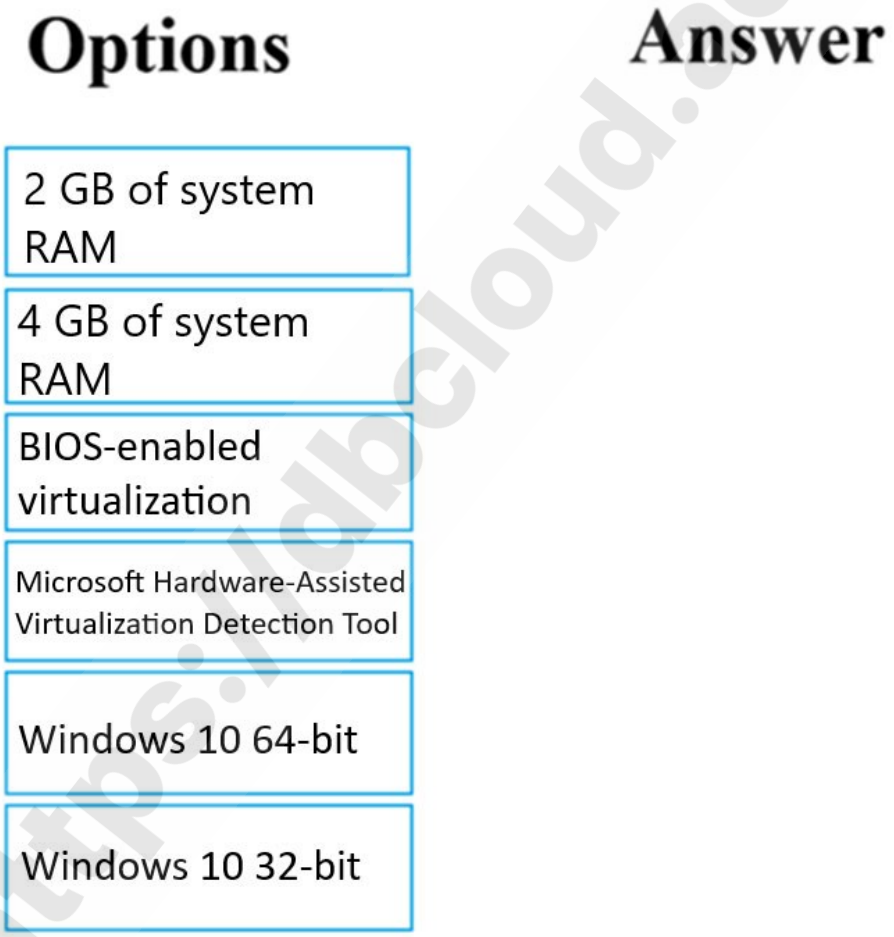


Technology Provider: Microsoft
Exam: Designing and Implementing a Data Science Solution on Azure (beta)
Number of questions in the database: 519
Exam Version: NOV.2026

Topic 1 - Question Set 1

Question #1*Topic 1*

DRAG DROP -
You are planning to host practical training to acquaint staff with Docker for Windows.
Staff devices must support the installation of Docker.
Which of the following are requirements for this installation? Answer by dragging the correct options from the list to the answer area.
Select and Place:



Correct Answer:

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Options	Answer
2 GB of system RAM	4 GB of system RAM
	BIOS-enabled virtualization
	Windows 10 64-bit
Microsoft Hardware-Assisted Virtualization Detection Tool	
Windows 10 32-bit	

Reference:
https://docs.docker.com/toolbox/toolbox_install_windows/
https://blogs.technet.microsoft.com/canitpro/2015/09/08/step-by-step-enabling-hyper-v-for-use-on-windows-10/ https://docs.docker.com/docker-for-windows/install/

WSL 2 backend

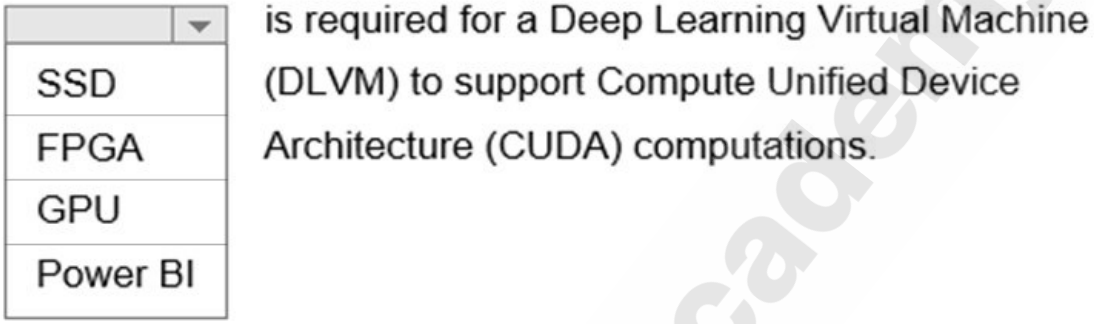
- Windows 10 64-bit: Home or Pro 2004 (build 19041) or higher, or Enterprise or Education 1909 (build 18363) or higher.
- Enable the WSL 2 feature on Windows. For detailed instructions, refer to the Microsoft documentation.
- The following hardware prerequisites are required to successfully run WSL 2 on Windows 10:
  - 64-bit processor with Second Level Address Translation (SLAT)
  - 4GB system RAM
  - BIOS-level hardware virtualization support must be enabled in the BIOS settings. For more information, see Virtualization.
- Download and install the Linux kernel update package.

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Question #2*Topic 1*

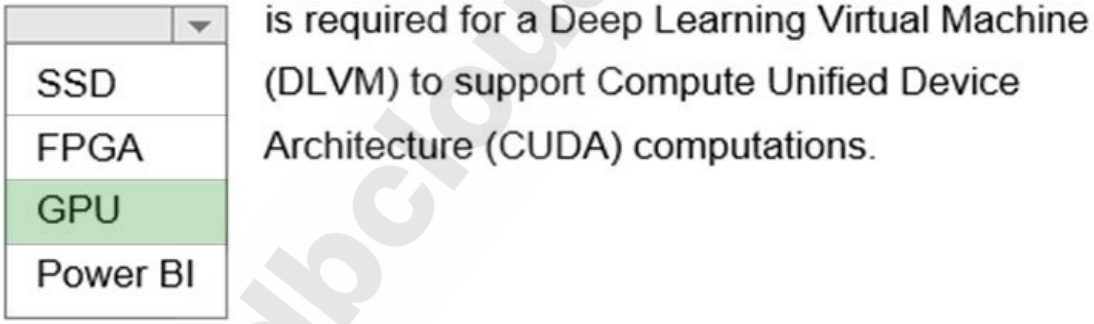
HOTSPOT -
Complete the sentence by selecting the correct option in the answer area.
Hot Area:

Answer Area



Correct Answer:

Answer Area



A Deep Learning Virtual Machine is a pre-configured environment for deep learning using GPU instances.

Question #3*Topic 1*

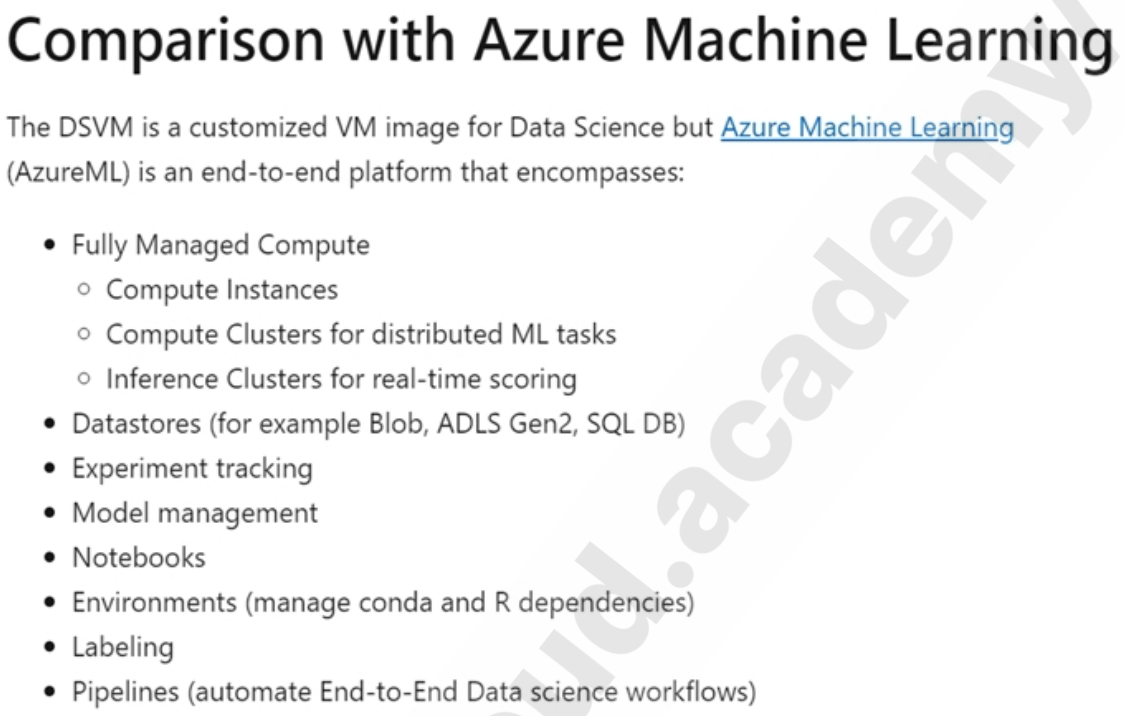
You need to implement a Data Science Virtual Machine (DSVM) that supports the Caffe2 deep learning framework.
Which of the following DSVM should you create?

- A. Windows Server 2012 DSVM
- B. Windows Server 2016 DSVM
- C. Ubuntu 16.04 DSVM
- D. CentOS 7.4 DSVM

Correct Answer: *C*
Caffe2 is supported by Data Science Virtual Machine for Linux.

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Microsoft offers Linux editions of the DSVM on Ubuntu 16.04 LTS and CentOS 7.4.
However, only the DSVM on Ubuntu is preconfigured for Caffe2.
Reference:
https://docs.microsoft.com/en-us/azure/machine-learning/data-science-virtual-machine/overview



Comparison with Azure Machine Learning

The DSVM is a customized VM image for Data Science but Azure Machine Learning (AzureML) is an end-to-end platform that encompasses:

- Fully Managed Compute
  - Compute Instances
  - Compute Clusters for distributed ML tasks
  - Inference Clusters for real-time scoring
- Datastores (for example Blob, ADLS Gen2, SQL DB)
- Experiment tracking
- Model management
- Notebooks
- Environments (manage conda and R dependencies)
- Labeling
- Pipelines (automate End-to-End Data science workflows)

Respuesta por mayor votación de la comunidad

C (100%)

Question #4*Topic 1*

This question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the recommendation satisfies the requirements.
You have been tasked with employing a machine learning model, which makes use of a PostgreSQL database and needs GPU processing, to forecast prices.
You are preparing to create a virtual machine that has the necessary tools built into it.
You need to make use of the correct virtual machine type.
Recommendation: You make use of a Geo AI Data Science Virtual Machine (Geo-DSVM) Windows edition.
Will the requirements be satisfied?

- A. Yes
- B. No

Correct Answer: *B*
The Azure Geo AI Data Science VM (Geo-DSVM) delivers geospatial analytics capabilities from Microsoft's Data Science VM. Specifically, this VM extends the AI and data science toolkits in the Data Science VM by adding ESRI's market-leading ArcGIS Pro Geographic Information System.

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Reference:
https://docs.microsoft.com/en-us/azure/machine-learning/data-science-virtual-machine/overview

Respuesta por mayor votación de la comunidad

B (100%)

Question #5*Topic 1*

This question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the recommendation satisfies the requirements.
You have been tasked with employing a machine learning model, which makes use of a PostgreSQL database and needs GPU processing, to forecast prices.
You are preparing to create a virtual machine that has the necessary tools built into it.
You need to make use of the correct virtual machine type.
Recommendation: You make use of a Deep Learning Virtual Machine (DLVM) Windows edition.
Will the requirements be satisfied?

- A. Yes
- B. No

Correct Answer: *B*
DLVM is a template on top of DSVM image. In terms of the packages, GPU drivers etc are all there in the DSVM image. Mostly it is for convenience during creation where we only allow DLVM to be created on GPU VM instances on Azure.
Reference:
https://docs.microsoft.com/en-us/azure/machine-learning/data-science-virtual-machine/overview

Respuesta por mayor votación de la comunidad

A (90%)

10%

Question #6*Topic 1*

This question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the recommendation satisfies the requirements.
You have been tasked with employing a machine learning model, which makes use of a PostgreSQL database and needs GPU processing, to forecast prices.
You are preparing to create a virtual machine that has the necessary tools built into it.
You need to make use of the correct virtual machine type.
Recommendation: You make use of a Data Science Virtual Machine (DSVM) Windows edition.
Will the requirements be satisfied?

- A. Yes
- B. No

Correct Answer: *A*
In the DSVM, your training models can use deep learning algorithms on hardware that's based on

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graphics processing units (GPUs).
PostgreSQL is available for the following operating systems: Linux (all recent distributions), 64-bit installers available for macOS (OS X) version 10.6 and newer ג€"
Windows (with installers available for 64-bit version; tested on latest versions and back to Windows 2012 R2.
Reference:
https://docs.microsoft.com/en-us/azure/machine-learning/data-science-virtual-machine/overview

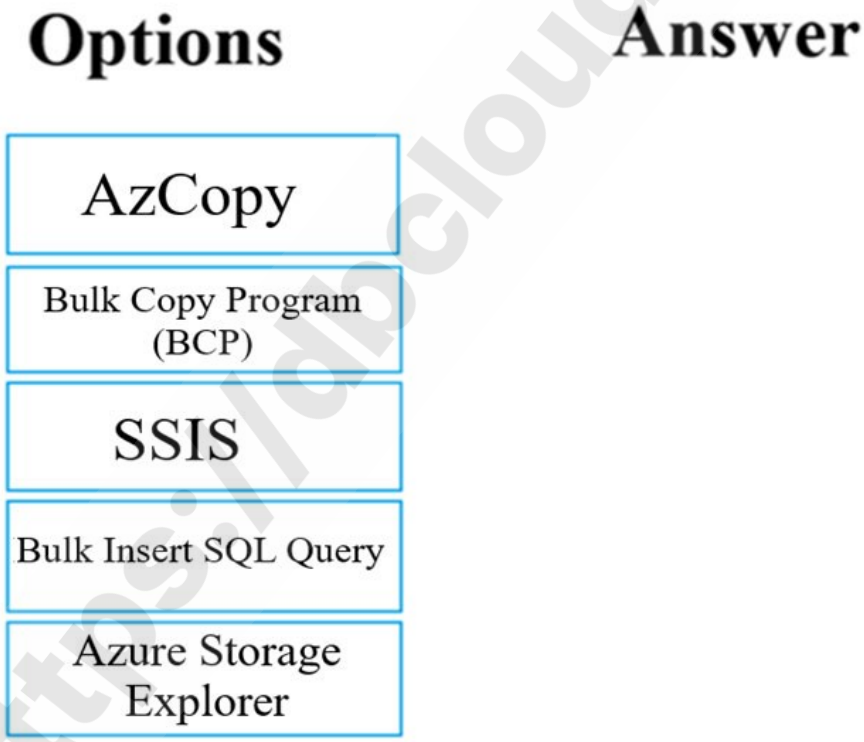
Respuesta por mayor votación de la comunidad

B (72%)

A (28%)

Question #7*Topic 1*

DRAG DROP -
You have been tasked with moving data into Azure Blob Storage for the purpose of supporting Azure Machine Learning.
Which of the following can be used to complete your task? Answer by dragging the correct options from the list to the answer area.
Select and Place:



Correct Answer:

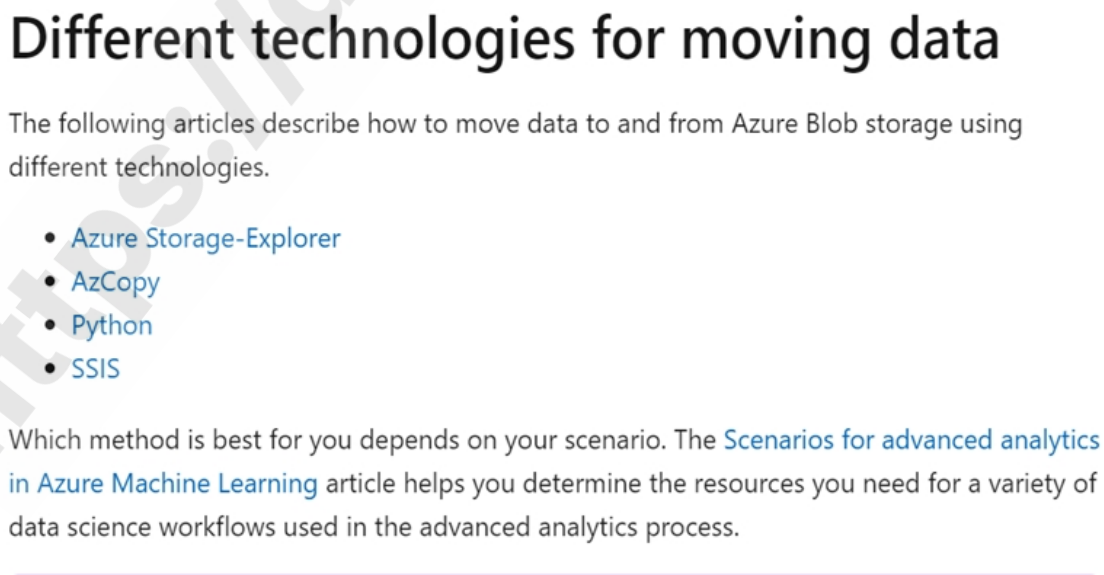
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Options	Answer
AzCopy	AzCopy
Bulk Copy Program (BCP)	SSIS
SSIS	Azure Storage Explorer
Bulk Insert SQL Query	
Azure Storage Explorer	

You can move data to and from Azure Blob storage using different technologies:

- Azure Storage-Explorer
- AzCopy
- Python
- SSIS

Reference:
https://docs.microsoft.com/en-us/azure/machine-learning/team-data-science-process/move-azure-blob



Different technologies for moving data

The following articles describe how to move data to and from Azure Blob storage using different technologies.

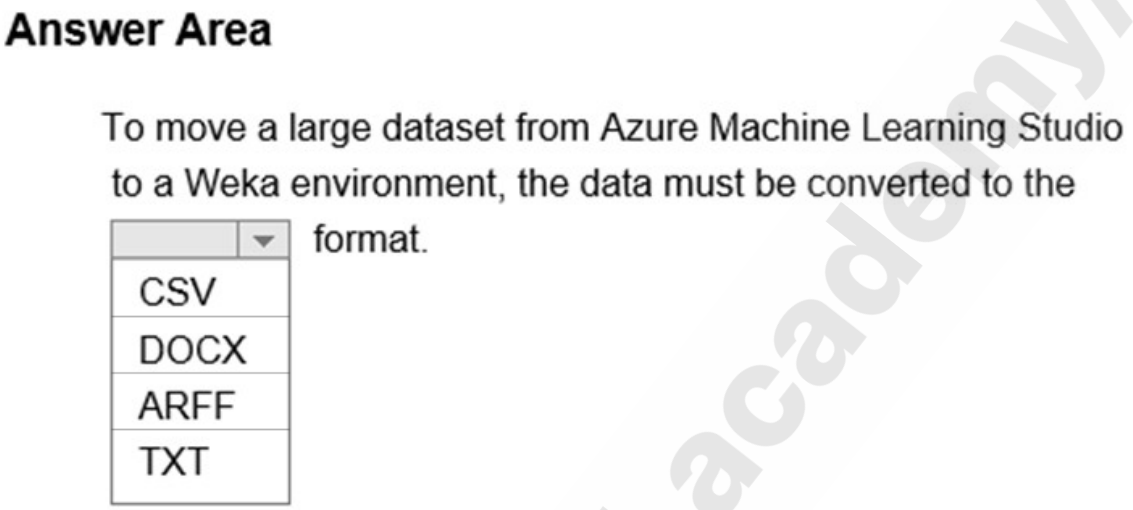
- Azure Storage-Explorer
- AzCopy
- Python
- SSIS

Which method is best for you depends on your scenario. The Scenarios for advanced analytics in Azure Machine Learning article helps you determine the resources you need for a variety of data science workflows used in the advanced analytics process.

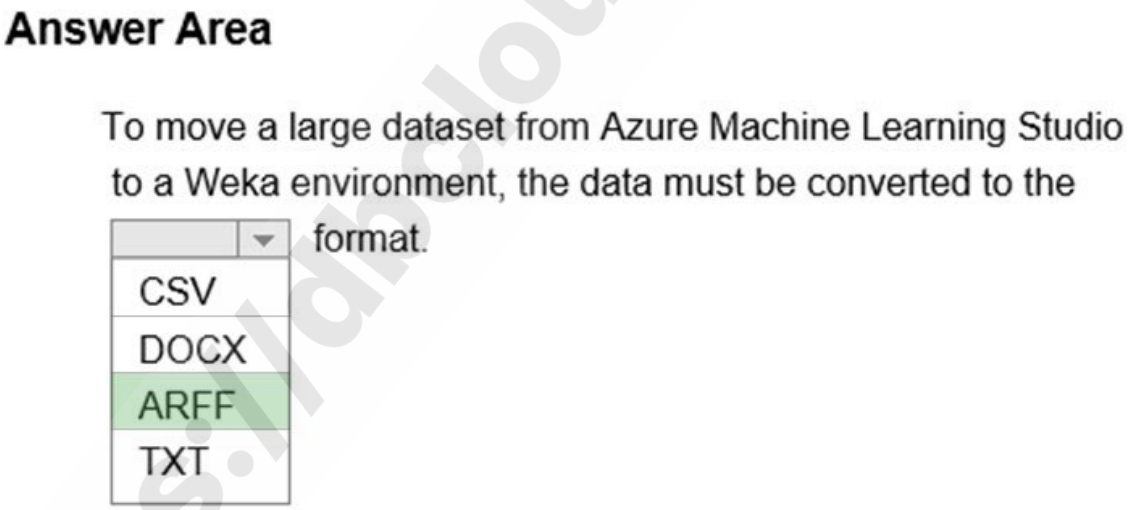
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Question #8*Topic 1*

HOTSPOT -
Complete the sentence by selecting the correct option in the answer area.
Hot Area:



Correct Answer:



Use the Convert to ARFF module in Azure Machine Learning Studio, to convert datasets and results in Azure Machine Learning to the attribute-relation file format used by the Weka toolset. This format is known as ARFF.
The ARFF data specification for Weka supports multiple machine learning tasks, including data preprocessing, classification, and feature selection. In this format, data is organized by entities and their attributes, and is contained in a single text file.
Reference:
https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/convert-to-

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