Check yourself - Virtualization and Containers

Due Feb 27 at 11:59pm   **Points** 6   **Questions** 6   **Time Limit** None
Allowed Attempts 2

Instructions

This quiz contains questions about virtual machines, containers and the specifics of working with Jetstream.

Take the Quiz Again

Attempt History

	Attempt	Time	Score
LATEST	**Attempt 1**	7 minutes	4.25 out of 6

⊙ Answers will be shown after your last attempt

Score for this attempt: **4.25** out of 6
Submitted Feb 24 at 5:08pm
This attempt took 7 minutes.

Question 1	1 / 1 pts

What is computer virtualization?

○ Extension of hardware resources on the server.

◉ Use of software capabilities to emulate hardware and applications.

○ Addition of specific constrains to an operating system.

○ Installation of a program or an application in a new environment.

Question 2   1 / 1 pts

What can virtualization be applied to? Check the fullest answer.

○ Compute

○ Networks

◉ All of the above

○ Operating system

○ Storage

○ Applications

Question 3   1 / 1 pts

What is the difference between Jetstream and other high-performance computing environments? Check all that apply.

☐ Jetstream is best suited for business analytics tasks, e.g., running customer satisfaction models on a large-scale database

☐ Jetstream does not allow to customize its virtual machines or software suites

☐ Jetstream can be accessed without authentication

☑ Jetstream has a GUI access

☑
Jetstream is best suited for tasks that require user interaction, e.g.,
prototyping or customizing workflows

Partial

Question 4   0.5 / 1 pts

Service Units (SUs) measure the use of virtual resources per hour
(depending on the size of VM). Consumption of resources depends on the
status of the VM. Match each status and resource consumption below:

Active -   [Select]   ⌄

Suspended -   [Select]   ⌄

Shelved -   [Select]   ⌄

Stopped - 0%

Answer 1:

100%

Answer 2:

0%

Answer 3:

0%

Answer 4:

0%

Partial

Question 5   0.75 / 1 pts

Select "y" for "yes" or "n" for "no" to indicate whether each of the following characteristics applies to virtual machines:

- VM can have its own OS (y/n):   y

- VM is best suited to run multiple workloads on the same OS (y/n):

n

- VM use increases memory and storage consumption (y/n):

y

- Shared components can be "read only" (y/n):   y

Answer 1:

   y

Answer 2:

   n

Answer 3:

   y

Answer 4:

   y

Incorrect

Question 6   0 / 1 pts

In the video that compares VMs and containers Nigel Brown makes a difference between "infinite flexibility" and "infinite portability". What does he mean by that? Select all the correct answers.

☑   VMs are flexible because you can configure the amount of RAM.

☑

Containers are flexible because they can be deposited into various repositories.

☐

VMs are portable because you can configure the number of processors.

☐   Containers are portable because they can run on different machines.

Quiz Score: **4.25** out of 6