



Module 3 Check your Knowledge! Key

Free Response:

1. What are the four layers of a computer?

The Hardware layer,
Operating System,
Applications,
User(s)

2. What is a virtual machine?

Computers accessed through the internet, virtualized by some kind of software program. A Computer within another computer.

3. What are the pros and cons of implementing a virtual setup?

Pros:

More efficient use of hardware

Better power efficiency

Save physical space

Reduced setup time

OS flexibility → Application flexibility

Very easy to save to a backup in case of an emergency

Cons:

Requires additional knowledge to set up and use

Can still be pricey.

Requires internet access to be able to use



4. Linux is an example of what?

An operating system, and Kali Linux is a distribution of Linux informally referred to as a “flavor” of linux.

5. Why is it important to take snapshots of your machines?

Taking a snapshot of your VM is like freezing the state of your machine at a certain point in time. Similar to taking a photograph, which is what the concept is named after. Relying on snapshots helps us revert back to a previous checkpoint if we make a mistake and something goes wrong with our machine.

It is generally good practice to routinely take snapshots of your virtual machines.

Matching:

Write the corresponding letters next to each question. They may be used more than once.

A. User B. Application C. Hardware D. Operating System

1. Installed computer programs with specific functions. **B.**
2. Mouse, motherboard, printer. **C.**
3. A hacker. **A.**
4. Complex coded program embedded in computers. **D.**
5. Firefox, Google Chrome, Explorer. **B.**
6. The physical components that make up the computer system. **C.**
7. Microsoft Word, FaceTime, Webex. **B.**