9.3.3 Practice Questions

Candidate: Ethan Bonavida (suborange)
Date: 12/3/2022 11:35:31 pm • **Time Spent:** 00:47

Score: 80%   Passing Score: 80%

▼ Question 1:   ✔ Correct

Which of the following devices is a hotplug device?

- ○ CPU (Central Processing Unit)
- ➡ ◉ USB flash drives
- ○ PCI Express cards
- ○ RAM (Random Access Memory) chips

Explanation

The USB flash drive is a hotplug device. Hotplug devices can be removed while the computer is on. Linux uses software designed to detect these changes as the devices are added and removed. Hotplug devices also include FireWire devices.

Coldplug devices should only be removed or replaced when the power to the computer is off. Attempting to remove these devices while the power is on can damage the computer. Coldplug devices include:

- RAM (Random Access Memory) chips
- CPU (Central Processing Unit)
- Expansion cards, such as Peripheral Component Interconnect (PCI) or PCI Express cards
- Hard disk drives

References

▤ **9.3.2 Hotplug and Coldplug Device Facts**

q_hot_cold_dev_f_lp5_01.question.fex

▼ Question 2:   ✔ Correct

Which of the following daemons allow processes to communicate with each other and relay information about hotplug devices?

➡ ◉ D-Bus

　 ○ sysfs

　 ○ hald

　 ○ udev

Explanation

The Desktop Bus (D-Bus) daemon allows processes to communicate with each other and notify one another of new hotplug devices.

The Hardware Abstraction Layer daemon (hald) provides all applications with data about current hardware. sysfs is a virtual file system mounted at /sys that exports information about hotplug devices so that other utilities can access the information. udev is a virtual file system that dynamically creates device files as devices are added and removed.

References

▤ **9.3.2 Hotplug and Coldplug Device Facts**

q_hot_cold_dev_f_lp5_02.question.fex

▼ **Question 3:**   ✕ Incorrect

What is the full path to the directory that allows you to name devices when they are connected to the system?

| ~~/etc/udev/.rules.d/~~ | /etc/udev/rules.d/ |

Explanation

Use the /etc/udev/rules.d/ directory to name devices. udev is a virtual file system that dynamically creates device files as devices are added and removed.

References

▤ **9.3.2 Hotplug and Coldplug Device Facts**

q_hot_cold_dev_f_lp5_03.question.fex

▼ Question 4:   ✔ Correct

Match the correct term on the left with the definition on the right.

Allows processes to communicate with each other and notify one another of new hotplug devices.

✔ D-Bus

Provides all applications with data about current hardware.

✔ hald

Dynamically creates device files in a virtual file system as devices are added and removed.

✔ /udev

Exports information about hotplug devices so that other utilities can access the information.

✔ sysfs

Explanation

Linux uses the following components to manage devices:

- sysfs is a virtual file system mounted at /sys which exports information about hotplug devices so that other utilities can access the information.

- The Hardware Abstraction Layer (HAL) daemon (hald) provides all applications with data about current hardware. hald runs constantly.

- The Desktop Bus (D-Bus) daemon allows processes to communicate with each other and notify them of new hotplug devices.

- udev is a virtual file system that dynamically creates device files as devices are added and removed.

References

▤ **9.3.2 Hotplug and Coldplug Device Facts**

q_hot_cold_dev_f_lp5_04.question.fex

▼ **Question 5:**   ✔ Correct

Which of the following device categories do RAM chips, CPUs, expansion cards (such as PCI cards), and standard hard disk drives belong to?

➡ ◉ Coldplug devices

○ Desktop bus devices

○ Hardware abstraction devices

○ Hotplug devices

Explanation

RAM chips, CPUs, expansion cards (such as PCI cards), and standard hard disk drives are all examples of coldplug devices. Coldplug devices should only be removed or replaced when the power to the computer is off. Attempting to remove these devices while the power is on can damage the device or the computer.

References

▤ **9.3.2 Hotplug and Coldplug Device Facts**

q_hot_cold_dev_f_lp5_05.question.fex