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Question: 1

You are working on a Linux system and need to ensure that a specific user account can only access files in their home directory and a specific directory [project/data]. Which command and options would you use to achieve this?

A.

```
chown user:user /project/data
```

B.

```
chmod 777 /project/data
```

C.

```
usermod -G project /project/data user
```

D.

```
setfacl -m u:user:rw /project/data
```

E.

```
sudo usermod -d /home/user -s /bin/bash user
```

Answer: D

Explanation:

The 'setfacl' command is used to manage Access Control Lists (ACLs) on files and directories. The option '-m' grants the user read and write permissions on the specified directory (C/project/data*). This approach allows you to specify granular permissions for users without changing ownership or modifying the default permissions.

Question: 2

You need to create a new directory called 'my_dir' within the '/home/user' directory and set the permissions so that the owner can read, write, and execute files within it, and the group has only read and execute permissions. Which command would you use to accomplish this?

A.

```
mkdir /home/user/my_dir && chmod 755 /home/user/my_dir
```

B.

```
mkdir /home/user/my_dir && chmod 750 /home/user/my_dir
```

C.

```
mkdir /home/user/my_dir && chmod 744 /home/user/my_dir
```

D.

```
mkdir /home/user/my_dir && chmod 705 /home/user/my_dir
```

E.

```
mkdir /home/user/my_dir && chmod 770 /home/user/my_dir
```

Answer: A

Explanation:

The command 'mkdir /home/user/my_dir' creates the directory. The command 'chmod 755 /home/user/my_dir' sets the permissions: 7 (owner) = read, write, execute; 5 (group) = read, execute; 5 (others) = read, execute.

Question: 3

Which of the following commands can be used to view the output of the last command executed in the shell?

A.

```
history
```

B.

```
!
```

C.

```
!!
```

D.

```
 $?
```

E.

```
last
```

Answer: C

Explanation:

The command re-executes the last command that was executed in the shell. 'history*' lists the command history, re-executes a specific command from history, '\$?' returns the exit status of the last command, and 'last' shows the last logged-in users.

Question: 4

You are tasked with managing a Linux server that is running multiple web applications. Each application requires a specific set of libraries and dependencies. To ensure that these applications do not interfere with each other, which core Linux feature should you use?

- A. User accounts
- B. Virtualization
- C. Namespaces
- D. File system permissions
- E. System calls

Answer: C

Explanation:

Namespaces provide a way to isolate resources, such as processes, network interfaces, and file systems, for each application. This isolation ensures that applications cannot interfere with each other's functionality. Other options are not directly related to application isolation: User accounts manage user access, virtualization creates virtual environments, file system permissions control access to files, and system calls are low-level interfaces for interacting with the kernel.

Question: 5

A Linux system administrator needs to configure a service to automatically start when the system boots. Which directory should the administrator place the service's configuration file in to ensure this behavior?

- A. /etc/init.d/
- B. /var/log/
- C. /bin/
- D. /etc/systemd/system/
- E. /usr/bin/

Answer: D

Explanation:

The `/etc/systemd/system/` directory is where `systemd` units are stored, which are used to manage services and other system components. Placing the service's configuration file in this directory ensures that `systemd` will automatically start the service on boot. While `/etc/init.d/` is a legacy directory for system initialization scripts, modern systems use `systemd`.

Question: 6

A Linux system administrator needs to configure a virtual network interface for a virtual machine. Which command-line tool should the administrator use to create this interface?

- A. `ifconfig`
- B. `ip`
- C. `netstat`
- D. `route`
- E. `virsh`

Answer: E

Explanation:

The virsh command-line tool is used to manage virtual machines and their associated resources, including virtual network interfaces. It provides commands for creating, modifying, and deleting virtual network interfaces. The other options are not specific to virtual network interface management: ifconfig and ip are used for general network configuration, netstat displays network statistics, and route manipulates the routing table.

Question: 7

Which of the following are core features of the Linux operating system? Select all that apply.

- A. Multitasking
- B. Graphical User Interface (GUI)
- C. Security
- D. Open source
- E. Command-line interface (CLI)

Answer: A,C,D,E

Explanation:

Linux is a multitasking operating system, meaning it can run multiple programs simultaneously. Security is a key feature of Linux, with robust access control mechanisms and a focus on system security. Linux is open-source, allowing for community contributions and transparency. Linux traditionally relies heavily on the command-line interface, although it supports graphical user interfaces as well. While a GUI can be used, it's not a core feature of the operating system.

Question: 8

Which Linux distribution is primarily designed for embedded systems and is known for its lightweight footprint, making it suitable for devices with limited resources?

- A. Ubuntu
- B. Debian
- C. Fedora
- D. CentOS
- E. Yocto Project

Answer: E

Explanation:

The Yocto Project is specifically designed for creating custom Linux distributions for embedded systems. It provides a powerful framework for tailoring the distribution to the specific needs of embedded devices with varying hardware configurations and resource limitations.

Question: 9

You're tasked with setting up a web server on a new server, and your requirements involve stability, security, and long-term support. Which Linux distribution would be the most suitable choice for this scenario, given its focus on stability and long-term support?

- A. Ubuntu
- B. Debian
- C. Fedora
- D. CentOS
- E. Arch Linux

Answer: D

Explanation:

CentOS, based on Red Hat Enterprise Linux, prioritizes stability and long-term support, making it an excellent choice for mission-critical web servers that require reliable operation and predictable security updates.

Question: 10

A user running a custom Linux distribution wants to easily install and manage packages while adhering to the principles of open-source software. Which package management system would likely be the best fit for this scenario?

- A. RPM
- B. apt
- C. yum
- D. pacman
- E. dpkg

Answer: B

Explanation: apt, the Advanced Packaging Tool, is a widely used package management system that aligns with open-source principles, enabling users to easily install, update, and remove software packages while maintaining a consistent and reliable system.

Question: 11

Which of the following Linux distributions are known for their strong emphasis on user-friendliness, making them suitable for beginners and users who prioritize a desktop experience?

- A. Fedora
- B. Ubuntu
- C. Debian
- D. Linux Mint
- E. Arch Linux

Answer: B,D

Explanation:

Both Ubuntu and Linux Mint are known for their user-friendly desktop environments, making them popular choices for beginners and users who prioritize a smooth and intuitive desktop experience. While Fedora is also known for its cutting-edge features, it can be more challenging for beginners compared to Ubuntu and Linux Mint.

Question: 12

You have a directory named 'data' containing numerous files. You need to move all files starting with 'log' to a new directory named 'logs'. Which command would achieve this effectively?

- A. mv data/log logs
- B. cp data/log logs
- C. mv data/log llogs
- D. cp data/log [logs
- E. mv .log logs

Answer: A

Explanation:

The correct answer is A: mv data/log logs . Here's why: mv is the command for moving files and directories. data/log : This part uses a wildcard character C ') to select all files in the 'data' directory that start with 'log'. logs: This specifies the destination directory where you want the files moved. Option B (cp) would copy the files, not move them. Options C and D use '/' before 'logs', which implies moving to a 'logs' directory within the root directory. Option E only moves files that start with 'log' in the current directory, not in the 'data' directory.



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