

1. Which command is used to set a shell variable in Linux?

- a) export
- b) set
- c) define
- d) var

Answer: a) export

Explanation: In Linux, the export command is used to set a shell variable. This command allows a variable to be used by subsequent child processes in the shell environment.

2. What control structure in shell scripting is used for conditional execution?

- a) Loop control structure
- b) Branching control structure
- c) Sequence control structure
- d) Function control structure

Answer: b) Branching control structure

Explanation: Branching control structures in shell scripting, such as if-else statements, allow for conditional execution based on the evaluation of expressions.

3. Which keyword is used to skip the current iteration of a loop in shell scripting?

- a) skip
- b) pass
- c) continue
- d) next

Answer: c) continue

Explanation: In shell scripting, the continue keyword is used to skip the current iteration of a loop and proceed to the next iteration.

4. What keyword is used to terminate a loop prematurely in shell scripting?

- a) end
- b) finish
- c) break
- d) stop

Answer: c) break

Explanation: The break keyword is used in shell scripting to prematurely terminate a loop, causing the program to exit the loop immediately.

5. Which command is used to introduce a delay or pause in a shell script?

- a) delay
- b) pause
- c) sleep
- d) wait

Answer: c) sleep

Explanation: The sleep command in Linux is used to introduce a delay or pause for a specified amount of time in a shell script.

6. Which role does Linux typically perform when used as a DNS server?

- a) Web server
- b) File server
- c) Directory server
- d) Domain Name Server

Answer: d) Domain Name Server

Explanation: Linux can be used as a DNS server to translate domain names into IP addresses and vice versa, facilitating the resolution of network addresses.

7. In the context of Linux servers, which service provides email functionality?

- a) DNS server
- b) FTP server
- c) SMTP server
- d) Proxy server

Answer: c) SMTP server

Explanation: SMTP (Simple Mail Transfer Protocol) servers handle the sending, receiving, and routing of email messages over a network.

8. What is the primary function of a firewall in Linux server administration?

- a) File storage
- b) User authentication
- c) Network security
- d) Website hosting

Answer: c) Network security

Explanation: A firewall in Linux server administration is primarily responsible for controlling and monitoring incoming and outgoing network traffic based on predetermined security rules.

9. Which type of server in Linux is responsible for caching web content and improving performance?

- a) Firewall server
- b) DNS server
- c) Proxy server
- d) SMTP server

Answer: c) Proxy server

Explanation: A proxy server in Linux acts as an intermediary between clients and other servers, such as web servers, caching frequently accessed content to improve performance and security.

10. Which type of server in Linux manages user access to files and directories within a network?

- a) DNS server
- b) File server
- c) Web server
- d) Application server

Answer: b) File server

Explanation: A file server in Linux is responsible for storing and managing files and directories, allowing users within a network to access and share data resources.

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