

WEEK 1 ASSIGNMENT

1. What is an Operating System (OS).

- A. Hardware component for managing software
- B. Program that manages hardware and software resources on a computer
- C. Application software for word processing
- D. Device for improving network speed

Answer: Program that manages hardware and software resources on a computer

2. Why is an operating system necessary.

- A. It provides hardware for computers
- B. It simplifies user interaction, manages resources, and ensures smooth and secure operation
- C. It enables only one user to use the computer
- D. It prevents computers from connecting to the internet

Answer: It simplifies user interaction, manages resources, and ensures smooth and secure operation

3. Linux was initially developed as a result of limitations found in which operating system.

- A. Windows
- B. MINIX
- C. MS-DOS
- D. MacOS

Answer: MINIX

4. What is the function of the Memory Management Unit (MMU) in Linux.

- A. Scheduling processes to the CPU
- B. Translating virtual addresses to physical addresses
- C. Handling network communications
- D. Interpreting user commands

Answer: Translating virtual addresses to physical addresses

5. Which file type in Linux points to another file or directory.

- A. Regular file
- B. Directory
- C. Symbolic Link
- D. Device file

Answer: Symbolic Link

6. Which command is used to check the currently logged-in user.

- A. uname
- B. whoami
- C. ps
- D. top

Answer: whoami

7. Which command provides information about the CPU's frequency on a Linux system.

- A. free
- B. lscpu
- C. uname -a
- D. ps -e

Answer: lscpu

8. How can you display a list of all running processes in Linux.

- A. top
- B. ps
- C. ps -e
- D. kill

Answer: ps -e

9. Which command is used to search for a pattern in a file.

- A. awk
- B. sed
- C. grep
- D. uniq

Answer: grep

10. Which command displays all currently running processes in the system with detailed information.

- A. ps
- B. ps -x
- C. ps -ef
- D. kill

Answer: ps -ef

11. Which Linux command displays disk space usage.

- A. df
- B. du
- C. vmstat
- D. free

Answer: df

12. Which shell is the default on most Linux distributions and is an enhanced version of the Bourne Shell.

- A. bash
- B. csh
- C. zsh
- D. ksh

Answer: bash

13. Which Linux file permission structure indicates read, write, and execute permissions for the owner only.

- A. rwxr-xr-x
- B. rw-r--r--
- C. rwx-----
- D. rw-rw-rw-

Answer: rwx-----

14. What is the primary function of the Linux kernel.

- A. Managing user interfaces
- B. Bridging hardware and software applications
- C. Managing internet connectivity
- D. Organizing file permissions

Answer: Bridging hardware and software applications

15. What is the role of symbolic links in Linux.

- A. To execute commands in a terminal
- B. To point to another file or directory
- C. To manage memory allocation
- D. To handle process synchronization

Answer: To point to another file or directory