Sample question for Practice (ST-1)

| Sample question for i factice (51°). |
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| What is the primary function of the Linux kernel? |
| A) User interface |
| B) Device drivers management |
| C) File system navigation |
| D) System administration |
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| Which component of Linux is responsible for managing processes and system resources? |
| A) Shell |
| B) Kernel |
| C) Libraries |
| D) File system |
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| The shell in Linux is responsible for: |
| A) Managing hardware resources |
| B) Providing a command-line interface |
| C) Controlling the graphical user interface |
| D) Handling file system operations |
| |
| Who is the original creator of the Linux kernel? |
| A) Richard Stallman |
| B) Linus Torvalds |
| C) Eric S. Raymond |
| D) Andrew Tanenbaum |
| |
| In which year was the first version of the Linux kernel released? |
| A) 1985 |
| B) 1991 |

C) 1995

D) 2000

| The GNU General Public License (GPL), under which Linux is distributed, is an example of: |
|---|
| A) Proprietary software license |
| B) Open-source license |
| C) Freeware license |
| D) Commercial license |
| |
| Which Linux distribution is known for its focus on simplicity and ease of use? |
| A) Fedora |
| B) Arch Linux |
| C) Ubuntu |
| D) CentOS |
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| What is the package management system used by Debian-based Linux distributions? |
| A) RPM |
| B) Pacman |
| C) apt |
| D) YUM |
| |
| Which of the following Linux distributions is designed for penetration testing and ethical hacking? |
| A) Kali Linux |
| B) Red Hat Enterprise Linux |
| C) Gentoo |
| D) openSUSE |
| |
| The Linux distribution commonly used for servers and enterprise environments is: |
| A) Ubuntu Server |
| B) CentOS |
| C) Debian |
| D) Fedora Server |
| |
| What is the primary responsibility of the kernel in an operating system? |
| A) Managing user applications |
| B) Providing a graphical user interface |
| C) Handling system resources and core functionalities |

| In a microkernel architecture, which of the following components typically runs in user space rather than kernel space? |
|---|
| A) Device drivers |
| B) Process scheduler |
| C) File system |
| D) Memory management |
| |
| Which of the following file systems is commonly used by Linux, while not natively supported by Windows? |
| A) NTFS |
| B) FAT32 |
| C) ext4 |
| D) exFAT |
| What is a major distinction between Windows and Linux in terms of licensing? |
| A) Linux is always open source, while Windows requires a paid license. |
| B) Windows is always open source, while Linux requires a paid license. |
| |
| C) Both Windows and Linux are always open source. |
| D) Both Windows and Linux require a paid license. |
| Which of the following is a characteristic feature of Linux, distinguishing it from Windows? |
| A) Linux uses a graphical user interface by default. |
| B) Linux is primarily designed for gaming. |
| C) Linux follows a monolithic kernel architecture. |
| D) Linux supports only a limited number of programming languages. |
| During the Linux installation process, which component allows users to select specific software packages to install? |
| A) BIOS settings |
| |
| B) Bootloader configuration |
| C) Package manager |
| D) Kernel customization |
| |

| in the Linux structure, what does the /bin directory contain? |
|---|
| A) Boot files |
| B) Binary executable files |
| C) Backup files |
| D) Device files |
| |
| What is the primary function of the Linux kernel? |
| A) Manage peripheral devices |
| B) Run applications |
| C) Act as an intermediary between software and hardware |
| D) Manage network connections |
| |
| Which command is used to change the current directory in Linux? |
| A) mv |
| B) cd |
| C) Is |
| D) pwd |
| |
| In Linux, what command is used to change the current working directory? |
| A) move |
| B) cd |
| C) change |
| D) switch |
| |
| The command Is -I is used to: |
| A) List all files including hidden files |
| B) List files in a long format with detailed information |
| C) List only directories |
| D) List files sorted by modification time |
| What does a forward slash (/) represent in a Linux file path? |
| A) Root directory |
| B) Home directory |
| C) Current directory |
| D) Parent directory |

| A) Absolute path |
|--|
| B) Relative path |
| C) Home path |
| D) Root path |
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| To create an empty text file named "example.txt," the command would be: |
| A) touch example.txt |
| B) create example.txt |
| C) newfile example.txt |
| D) edit example.txt |
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| What command is used to create a new directory in Linux? |
| A) mkdir |
| B) newdir |
| C) createdir |
| D) makedir |
| The command df -h is used to: |
| A) Display disk free space in human-readable format |
| B) Delete files |
| C) Display disk file information |
| D) Check disk fragmentation |
| |
| The command du -sh /directory is used to: |
| A) Display disk usage of the specified directory |
| B) Delete files in the specified directory |
| C) Display detailed information about the directory |
| D) Check for disk errors in the directory |
| Which command can be used to find out the sizes of individual files in a directory? |
| A) size |
| B) Is -I |
| C) du -a |
| D) filesize |
| |

The path ../documents/file.txt represents a:

| C) Used disk space |
|---|
| D) Available disk space |
| |
| If you want to navigate to the "user2/documents" directory from the current location, which command should be used? |
| a) cd /home/user2/documents |
| b) cd /documents |
| c) change /user2/documents |
| d) dir /user2/documents |
| |
| What does the command Is /home/user1/documents do in Linux? |
| a) Moves files to the "documents" directory |
| b) Lists the contents of the "documents" directory in "/home/user1" |
| c) Removes the "documents" directory |
| d) Creates a new directory named "documents" |
| |
| In Linux, what does the command Is -I do? |
| a) Lists files in the long format |
| b) Lists only the directories in a location |
| c) Lists files without showing their permissions |
| d) Displays hidden files |
| |
| What is the purpose of the find command with the -exec option in Linux? |
| A) Display file permissions |

In the output of the df command, the "Used" column represents:

A) Total disk space

B) Free disk space

B) Execute a command on each found file

D) Search for files based on content

C) Find hidden files only

| Which option in the find command is used to search for files modified within the last 24 hours? |
|---|
| A) -mtime +1 |
| B) -mtime 0 |
| C) -mtime -1 |
| D) -mtime 1 |
| |
| What is the purpose of a Linux symbolic link (symlink)? |
| A) Duplicate a file |
| B) Create a shortcut to a file or directory |
| C) Encrypt a file |
| D) Compress a file |
| |
| The file /dev/null in Linux is used for: |
| A) Temporary storage |
| B) Device communication |
| C) Log file storage |
| D) Network communication |
| |
| In the less command, how can you search for a specific text string within a file? |
| A) /search |
| B) find search |
| C) grep search |
| D) search / |
| The tail command with the -f option is commonly used for: |
| A) Displaying the first lines of a file |
| B) Following the growth of a log file in real-time |
| C) Truncating a file |
| D) Rearranging lines in a file |
| |
| The chmod command is used to: |
| A) Change the modification time of a file |
| B) Change file ownership |
| C) Change file permissions |

D) Change the file type

The chown command is used to:

A) Change file ownership

- B) Change file permissions
- C) Change the file type
- D) Change the modification time of a file

What is the purpose of the umask command in Linux?

A) Set default permissions for new files

- B) Change the ownership of a file
- C) Display file permissions
- D) Remove file permissions