|  |  |  |
| --- | --- | --- |
|  | | **Experiment No : 6 Date :** |
|  | |  |
| **Title** | | **Delete all log files, Create Directories, Check user, print file and folder** |
|  | |  |
| **Aim** | | **a.Write a shell script to delete all log files present inside your var/log directory**  **b.** **Write script to check if user is root user**  **c.** **Write script to print number of files and folders**  **d.** **Write Script to Create Directories** |
|  | |  |
| **Hardware**  **Requirement** | | Personal Computer |
|  | |  |
| **Software**  **Requirement** | | Linux Operating System(Ubuntu 20.04) , Shell-Interpreter  Nano or Vi or Vim or gedit text editor |
|  | |  |
| **Theory** | | The log file is a file that records either events that occur in an operating system or other software runs. In here, the Linux servers have log files which keep messages about the server, including the kernel, services, and applications running on it. And the log files are located at the /var/log directory.  Mainly there are **four types of log files generated** in a Linux based environment and they are:   * Application Logs. * Event Logs. * Service Logs. * System Logs.  **Uses of Linux log files** From the log files, one can observe and find the details on server performance, security, error messages, and underlying issues. Hence any issue that the server is undergoing one can get the clue by detailed view on the log files.  Hence by reviewing the log files one can solve the existing issues and can take precautions for the issues that may cause in future!  Log Files can also be viewed with following command Viewing logs with lessViewing logs with dmesgViewing logs with tail (ref : <https://www.linux.com/topic/desktop/viewing-linux-logs-command-line/>) |
|  | |  |
| **Shell Script** | |  |
|  | |  |
|  | |  |
| **Output** | |  |
|  | |  |
|  | |  |
|  | |  |
|  | |  |
|  | |  |
|  | |  |
| **Conclusion** | |  |
|  | |  |
|  | |  |
|  | |  |
|  | |  |
|  | |  |
|  | |  |
| **Signature** | |  |
|  | |  |
|  | |  |
|  | |  |
|  | |  |
|  | |  |
|  | |  |
|  | |  |
|  | |  |
|  | |  |
| **Grade** | |  |
|  | |  |
|  | |  |
|  | |  |
|  | |  |
|  | |  |
| **Date** | |  |
|  | |  |
|  | **Experiment No : 6A** | | |
|  |  | | |
| **Title** | **Accepts the hostname and IP address** | | |
|  |  | | |
| **Aim** | **Write a script that accepts the hostname and IP address as command-line arguments and adds them to the /etc/hosts file.** | | |
|  |  | | |
| **Hardware**  **Requirement** | Personal Computer | | |
|  |  | | |
| **Software**  **Requirement** | Linux Operating System(Ubuntu 20.04) , Shell-Interpreter  Nano or Vi or Vim or gedit text editor | | |
|  |  | | |
| **Theory** | **HostName**  A host name is a unique name or label assigned to any device that is connected to a specific computer network. It facilitates the differentiation of different machines or devices connected to the Internet, a network and/or both. Allotted and assigned host names are based on the naming system used.  **IPaddress**  An IP address, or Internet Protocol address, is a series of numbers that identifies any device on a network. Computers use IP addresses to communicate with each other both over the internet as well as on other networks.  **Sed Command**  Sed command or Stream Editor is very powerful utility offered by Linux/Unix systems. It is mainly used for text substitution , find & replace but it can also perform other text manipulations like insertion, deletion, search etc. With SED, we can edit complete files without actually having to open it. | | |
|  |  | | |
| **Shell Script** |  | | |
|  |  | | |
|  |  | | |
| **Output** |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
| **Conclusion** |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
| **Signature** |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
| **Date** |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
| **Grade** |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |
|  |  | | |