Filter a File in Linux

Project description

Using grep command and piping to search for files and return specific information.

Search for error messages in a log file

The following code demonstrates how I used Linux commands to search for an error string in a file.

The first line of the screenshot displays the command I entered, and the other lines display the output. I used the grep command to search for an error string in the server_logs.txt file. The output of my command indicated that error strings occurred six times in the server_logs.txt file.

Find files containing specific strings

The following code demonstrates how I used Linux commands to search for an Q1 and access string in a directory.

```
analyst@bd10c2708afc:~/logs$ cd /home/analyst/reports/users
analyst@bd10c2708afc:~/reports/users$ ls
Q1 access.txt
                      Q2 access.txt
                                            Q3_access.txt
                                                                  Q4 access.txt
Q1_added_users.txt
                     Q2_added_users.txt
                                            Q3_added_users.txt
                                                                  Q4 added users.txt
Q1_deleted_users.txt Q2_deleted_users.txt Q3_deleted_users.txt Q4_deleted_users.txt
analyst@bd10c2708afc:~/reports/users$ ls /home/analyst/reports/users | grep "Q1"
Q1 access.txt
Q1 added users.txt
Q1 deleted_users.txt
analyst@bd10c2708afc:~/reports/users$ ls /home/analyst/reports/users | grep "access"
Q1 access.txt
Q2_access.txt
Q3_access.txt
Q4_access.txt
analyst@bd10c2708afc:~/reports/users$ [
```

The first line of the screenshot displays the command I entered, and the other lines display the output. I used pipe command with grep command to search for users directory for a filename consisting Q1 and access. The output of my command indicated that the directory contained three files whose filename consists of Q1 and four files with filename consisting of access.

Search more file contents

The following code demonstrates how I used Linux commands to search for an 2 words string in a file.

The first line of the screenshot displays the command I entered, and the other lines display the output. I used the grep command to search for two word strings in a file. The output of my command displays the result.