

File System Navigation in Linux

Project description

This simulation project puts the performer, **Maheswar Reddy Avula**, into the position of a system administrator for an organization. Responsibilities include locating and analyzing the information of certain files.

Getting current directory information

Direction: The system admin must use Linux commands to check the current working directory and list its contents.

The **pwd** command was used to display the current directory as follows:

```
analyst@0c9a585dc907:~$ pwd
/home/analyst
analyst@0c9a585dc907:~$
```

This was followed by using the **ls** command to display the contents of the current directory as follows:

```
analyst@0c9a585dc907:~$ ls
logs  projects  reports  temp
analyst@0c9a585dc907:~$
```

Changing directory and listing subdirectories

Direction: The system admin must navigate to a new directory and determine the subdirectories it contains.

The **cd** command was used to change the directory to **/home/analyst/reports** as follows:

```
analyst@0c9a585dc907:~$ cd reports/
analyst@0c9a585dc907:~/reports$ ls
users
analyst@0c9a585dc907:~/reports$
```

Locating and reading contents of a file

Direction: The admin must navigate to a subdirectory and read the contents of a file it contains.

The `cd` command was used to change the directory to `/home/analyst/reports/users` as follows,

This was followed by using the `ls` command to display the contents of the current directory as follows,

The `cat` command was used to read and display the contents of `Q1_added_users.txt` as follows:

```
analyst@0c9a585dc907:~/reports/users$ cat Q1_added_users.txt
employee_id  username  department
1001         bmoreno  Marketing
1026         apatel   Human Resources
1041         cgriffin Sales
1104         mreed    Information Technology
1177         aezra    Human Resources
1188         noshiro  Finance
analyst@0c9a585dc907:~/reports/users$
```

Navigating to a directory and locating a file

Direction: The admin must navigate to a new directory, locate a file, and examine the contents of the file(first 10 lines only).

The `cd` command was used to change the directory to `/home/analyst/logs` as follows,

The `head` command was used to display the first 10 lines of the file `server_logs.txt` as follows:

```
analyst@0c9a585dc907:~/logs$ head server_logs.txt
2022-09-28 13:55:55 info    User logged on successfully
2022-09-28 13:56:22 error   The password is incorrect
2022-09-28 13:56:48 warning The file storage is 75% full
2022-09-28 15:55:55 info    User logged on successfully
2022-09-28 15:56:22 error   The username is incorrect
2022-09-28 15:56:48 warning The file storage is 90% full
2022-09-28 16:55:55 info    User navigated to settings page
2022-09-28 16:56:22 error   The password is incorrect
2022-09-28 16:56:48 warning The current user's password expires in 15 days
2022-09-29 13:55:55 info    User logged on successfully
analyst@0c9a585dc907:~/logs$
```

Summary

Navigation and displaying of file contents was performed successfully. All tasks were successfully completed in accordance with the directions given by the organization.