

Linux Commands Lab Report - Google Cybersecurity Certificate

Step 1: Display Current Directory and Its Contents

Used `pwd` to show the current working directory and `ls` to list four directories: logs, projects, reports, and temp.

Activity: Find files with Linux commands

```
analyst@da807442d127:~$ pwd
/home/analyst
analyst@da807442d127:~$ ls
logs  projects  reports  temp
analyst@da807442d127:~$
```

How many directories does the current working directory contain?

☐ Five

☐ One

☐ Two

☒ Four

Submit

Click **Check my progress** to verify that you have completed this task correctly.

Get the current directory information

☒ Check my progress

Activate Windows
Go to Settings to activate Windows.

You have completed this task and displayed the current working directory and its contents.

Step 2: Change to 'reports' Directory and View Contents

Used `cd /home/analyst/reports` and listed the subdirectory named 'users'.

Activity: Find files with Linux commands

```
analyst@da807442d127:~$ pwd
/home/analyst
analyst@da807442d127:~$ ls
logs  projects  reports  temp
analyst@da807442d127:~$ cd /home/analyst/reports
analyst@da807442d127:~/reports$ ls
users
analyst@da807442d127:~/reports$
```

Change directory and list the subdirectories

☐ analyst

☐ projects

☐ logs

☒ users

Submit

Click **Check my progress** to verify that you have completed this task correctly.

Change directory and list the subdirectories

☒ Check my progress

Activate Windows
Go to Settings to activate Windows.

You have completed this task and navigated to the /home/analyst/reports directory and displayed the subdirectory it contains.

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Step 3: Navigate into 'users' and Read File Contents

Changed into `users` directory and used `cat Q1_added_users.txt` to read the contents of the user data file.

Activity: Find files with Linux commands

```
analyst@3f721e81f681:~$ pwd
/home/analyst
analyst@3f721e81f681:~$ ls
logs  projects  reports  temp
analyst@3f721e81f681:~$ cd /home/analyst/reports
analyst@3f721e81f681:~/reports$ ls
users
analyst@3f721e81f681:~/reports$ cd /home/analyst/reports/users
analyst@3f721e81f681:~/reports/users$ ls
Q1_added_users.txt  Q1_deleted_users.txt
analyst@3f721e81f681:~/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         aeza     Human Resources
1188         noshiro  Finance
analyst@3f721e81f681:~/reports/users$
```

Click **Check my progress** to verify that you have completed this task correctly.

Locate and read the contents of a file

Check my progress

You have completed this task and navigated to the `/home/analyst/reports/users` subdirectory and displayed the contents of the `Q1_added_users.txt` file.

Task 4. Navigate to a

Activate Windows
Go to Settings to activate Windows.

Step 4: Access 'logs' and Read Server Logs

Changed to the `logs` directory and ran `head server_logs.txt` to preview the first 10 lines of the server log file.

Activity: Find files with Linux commands

```
/home/analyst
analyst@3f721e81f681:~$ ls
logs  projects  reports  temp
analyst@3f721e81f681:~$ cd /home/analyst/reports
analyst@3f721e81f681:~/reports$ ls
users
analyst@3f721e81f681:~/reports$ cd /home/analyst/reports/users
analyst@3f721e81f681:~/reports/users$ ls
Q1_added_users.txt  Q1_deleted_users.txt
analyst@3f721e81f681:~/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         aeza     Human Resources
1188         noshiro  Finance
analyst@3f721e81f681:~/reports/users$ cd /home/analyst/logs
analyst@3f721e81f681:~/logs$ ls
server_logs.txt
analyst@3f721e81f681:~/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 day
s
2022-09-29 13:55:55 info    User logged on successfully
analyst@3f721e81f681:~/logs$
```

Click **Check my progress** to verify that you have completed this task correctly.

Navigate to a directory and locate a file

Check my progress

You have completed this task. You have navigated to the `/home/analyst/logs` directory and used the `ls` command to return the name of the file it contains. You also used the `head` command to return the first 10 lines of the `server_logs.txt` file.

Conclusion

Great work!

Activate Windows
Go to Settings to activate Windows.

You now have practical experience in using basic Linux Bash shell commands to

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Step 5: Summary of Commands Used

Demonstrated use of basic Linux Bash commands: `pwd`, `ls`, `cd`, `cat`, and `head` for file navigation and reading.

The screenshot shows a web browser window with the URL https://www.cloudskillsboost.google/focuses/43088772?parent=lti_session. The page title is "Activity: Find files with Linux commands". The main content area is split into two panels. The left panel is a terminal window showing the following commands and output:

```
/home/analyst
analyst@3f721e81f681:~$ ls
logs  projects  reports  temp
analyst@3f721e81f681:~$ cd /home/analyst/reports
analyst@3f721e81f681:~/reports$ ls
users
analyst@3f721e81f681:~/reports$ cd /home/analyst/reports/users
analyst@3f721e81f681:~/reports/users$ ls
Q1_added_users.txt  Q1_deleted_users.txt
analyst@3f721e81f681:~/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@3f721e81f681:~/reports/users$ cd /home/analyst/logs
analyst@3f721e81f681:~/logs$ ls
server_logs.txt
analyst@3f721e81f681:~/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@3f721e81f681:~/logs$
```

The right panel is titled "Conclusion" and contains the following text:

Great work!

You now have practical experience in using basic Linux Bash shell commands to

- navigate directory structures with the `cd` command,
- display the current working directory with the `pwd` command,
- list the contents of a directory with the `ls` command, and
- display the contents of files with the `cat` and `head` commands.

Navigating through directories and reading file contents are fundamental skills that you'll often use when communicating through the shell.

End your lab

Before you end the lab, make sure you're satisfied that you've completed all the tasks, and follow these steps:

Activate Windows
Go to Settings to activate Windows.

The bottom of the screenshot shows a Windows taskbar with the Start button, Search bar, and various application icons. The system clock in the bottom right corner shows 9:12 PM on 7/26/2025.