Activity: Filter with grep

Scenario

In this scenario, you need to obtain information contained in server log and user data files. You also need to find files with specific names.

Here's how you'll do this: **First**, you'll navigate to the logs directory and return the error messages in the server_logs.txt file. **Next**, you'll navigate to the users directory and search for files that contain a specific string in their names. **Finally**, you'll search for information contained in user files.

Task 1. Search for error messages in a log file

- 1. Navigate to the /home/analyst/logs directory.
- 2. Use **grep** to filter the server_logs.txt file, and return all lines containing the text string error.

Task 2. Find files containing specific strings

- 1. Navigate to the /home/analyst/reports/users directory.
- 2. Using the pipe character (|), pipe the output of the ls command to the **grep** command to list only the files containing the string Q1 in their names.

```
analyst@cb6962faa975:~/logs$ cd
analyst@cb6962faa975:~$ cd reports/users
analyst@cb6962faa975:~/reports/users$ ls | grep Q1
Q1_access.txt
Q1_added_users.txt
Q1_deleted users.txt
```

3. List the files that contain the word access in their names.

```
analyst@cb6962faa975:~/reports/users$ ls | grep access
Q1_access.txt
Q2_access.txt
Q3_access.txt
Q4_access.txt
```

Task 3. Search more file contents

- 1. Display the files in the /home/analyst/reports/users directory.
- 2. Search the **Q2_deleted_users.txt** file for the username **jhill**.

3. Search the **Q4_added_users.txt file** to list the users who were added to the **Human Resources** department.

```
analyst@cb6962faa975:~/reports/users$ grep "Human Resources" Q4_added_users.txt
1151 sshah Human Resources
1145 msosa Human Resources_
```