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20BCI0233
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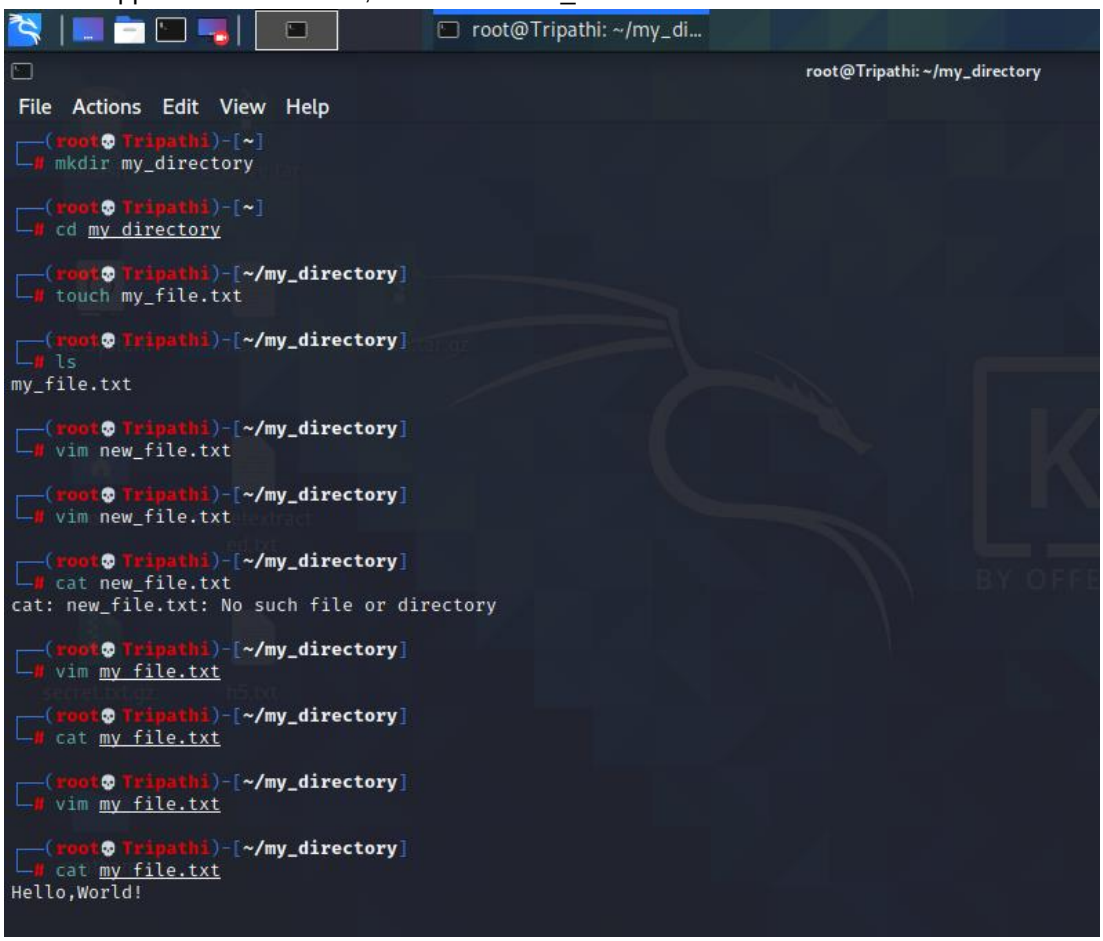
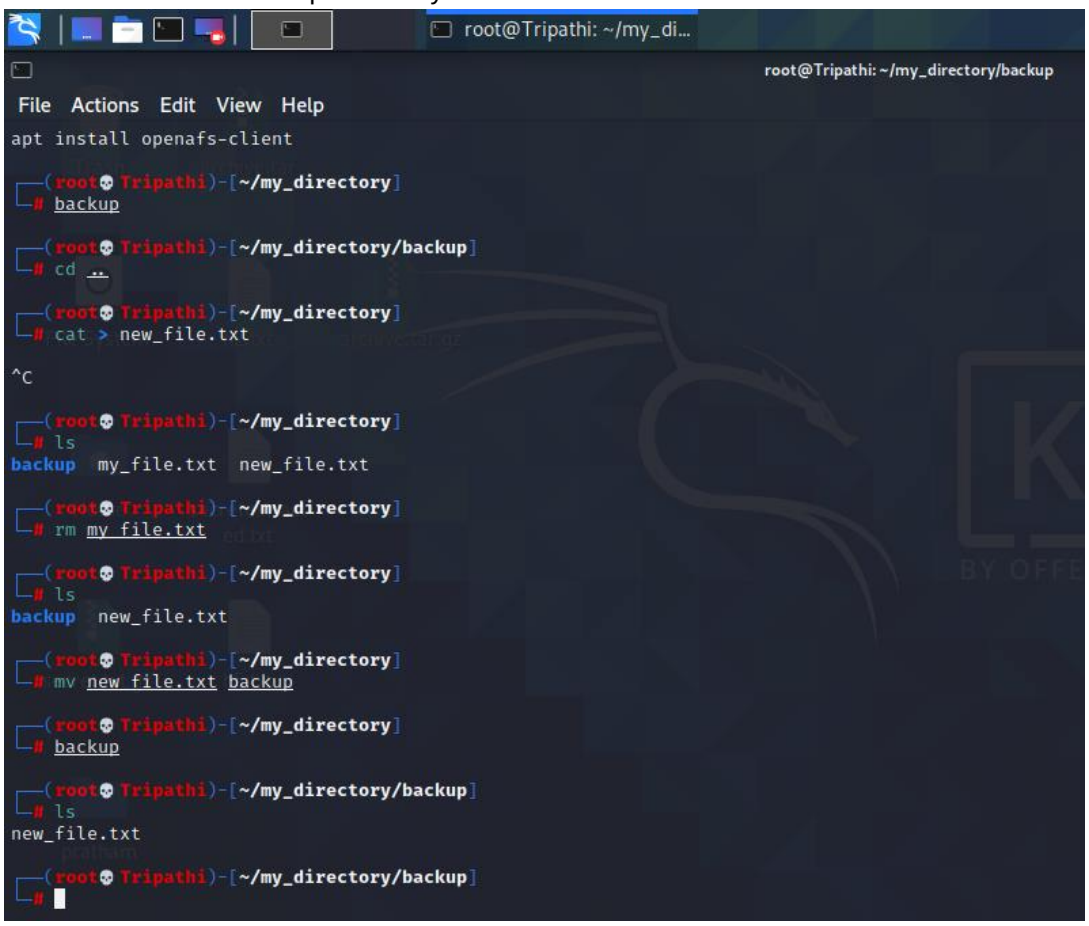
Task 1: File and Directory Manipulation

1. Create a directory called "my_directory".
2. Navigate into the "my_directory".
3. Create an empty file called "my_file.txt".
4. List all the files and directories in the current directory.
5. Rename "my_file.txt" to "new_file.txt".
6. Display the content of "new_file.txt" using a pager tool of your choice.
7. Append the text "Hello, World!" to "new_file.txt".



8. Create a new directory called "backup" within "my_directory".
9. Move "new_file.txt" to the "backup" directory.
10. Verify that "new_file.txt" is now located in the "backup" directory.
11. Delete the "backup" directory and all its contents



Task 2: Permissions and Scripting

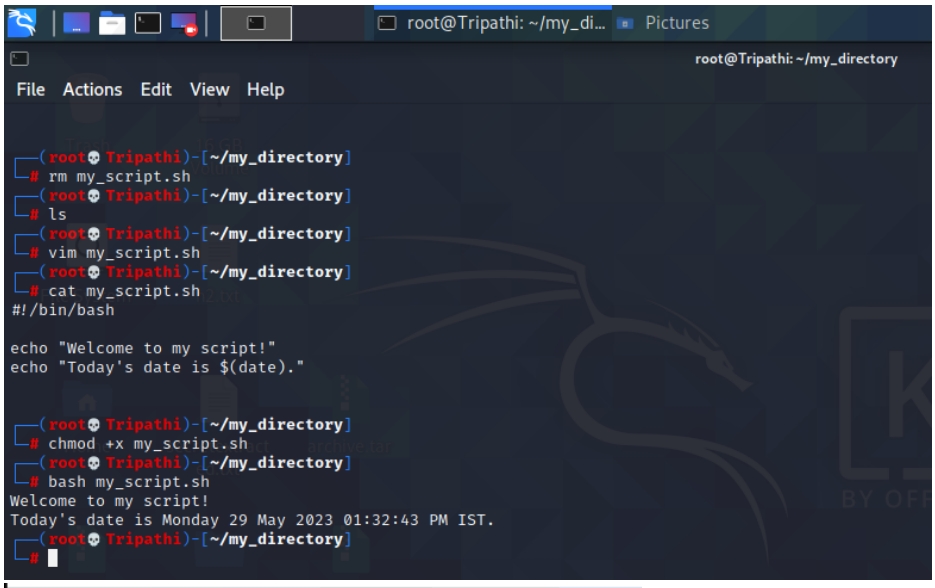
- Create a new file called "my_script.sh".

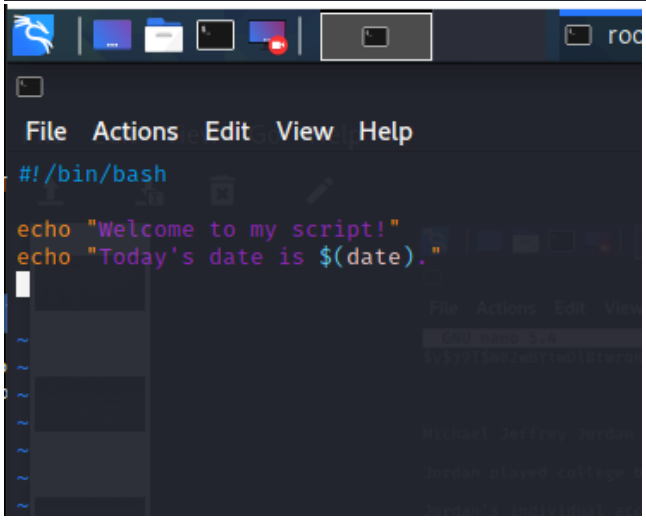
- Edit "my_script.sh" using a text editor of your choice and add the following lines:

bash

#!/bin/bash
echo "Welcome to my script!"
echo "Today's date is $(date)."
Save and exit the file.

- Make "my_script.sh" executable.
- Run "my_script.sh" and verify that the output matches the expected result.





Task 3: Command Execution and Pipelines

- List all the processes running on your system using the "ps" command.

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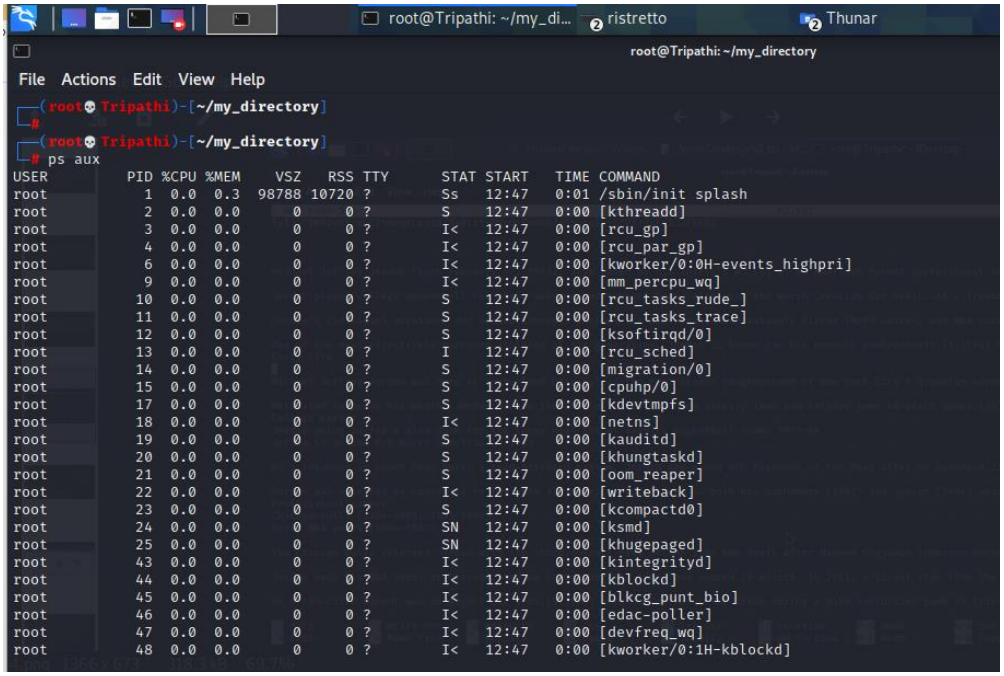
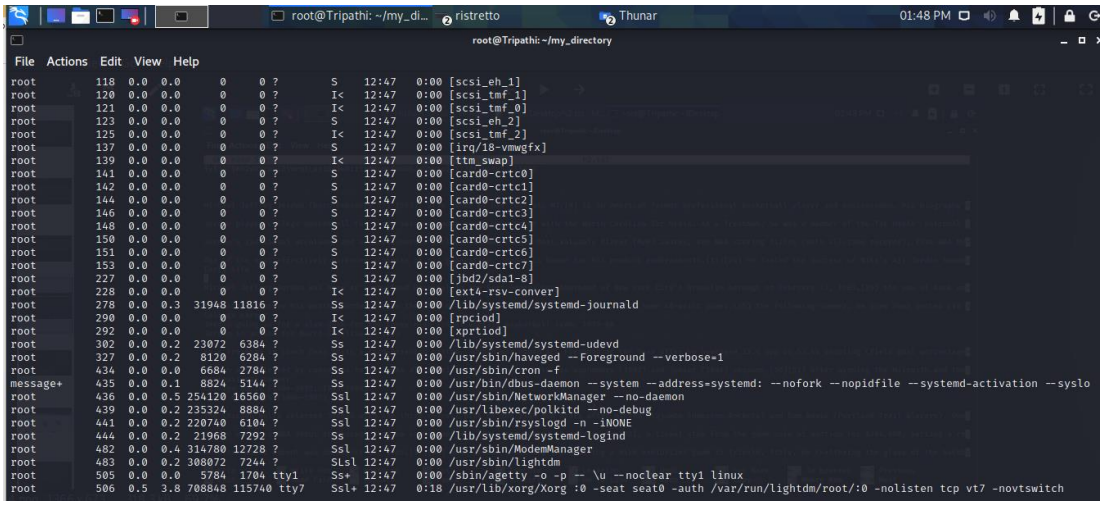


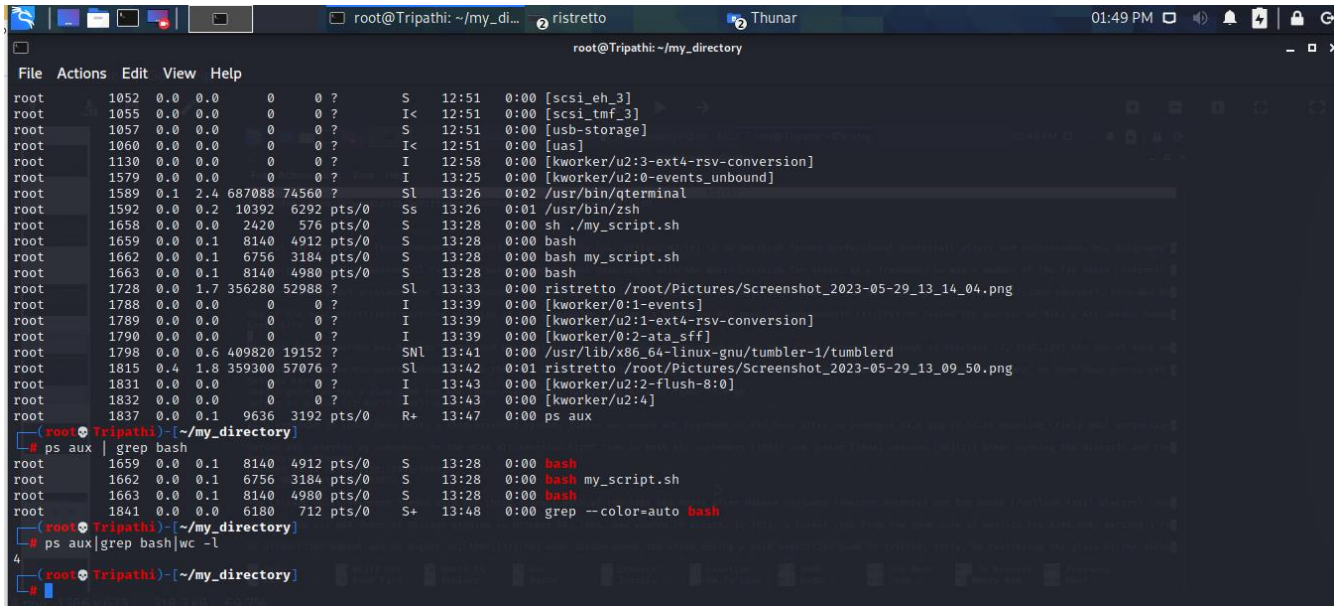


All the process are stated above

Use the "grep" command to filter the processes list and display only the processes with "bash" in their name.

Giving us the 4 options in the following ss that are visible

Use the "wc" command to count the number of lines in the filtered output



4 is the result