

CompTIA Linux+

Run User Level Queries

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Introduction

Welcome to the Run User Level Queries Practice Lab. In this module you will be provided with the instructions and devices needed to develop your hands-on skills.

Queries
Run User
User-level

Learning Outcomes

In this module, you will complete the following exercise:

- Exercise 1 - Execute user-level queries

After completing this lab, you will be able to:

- Use the whoami command
- Use the who command
- Use the w command
- Use the last command

Exam Objectives

The following exam objectives are covered in this lab:

- LPI: 107.1 Manage user and group accounts and related system files.
- LPI: 110.1 Perform security administration tasks.
- CompTIA: 2.2 Given a scenario, manage users and groups.

Exercise 1 - Execute User-level Queries

In this exercise, you will understand how to modify process execution priorities.

Learning Outcomes

After completing this exercise, you will be able to:

- Log into a Linux system
- Use the whoami command
- Use the who command
- Use the w command
- Use the last command

Task 1 - Use the whoami command

The whoami command is used to display the current username in Linux or UNIX systems.

In this task, you will use the whoami command.

To do this, perform the following steps:

Step 1

On the desktop, right-click and select Open in Terminal.

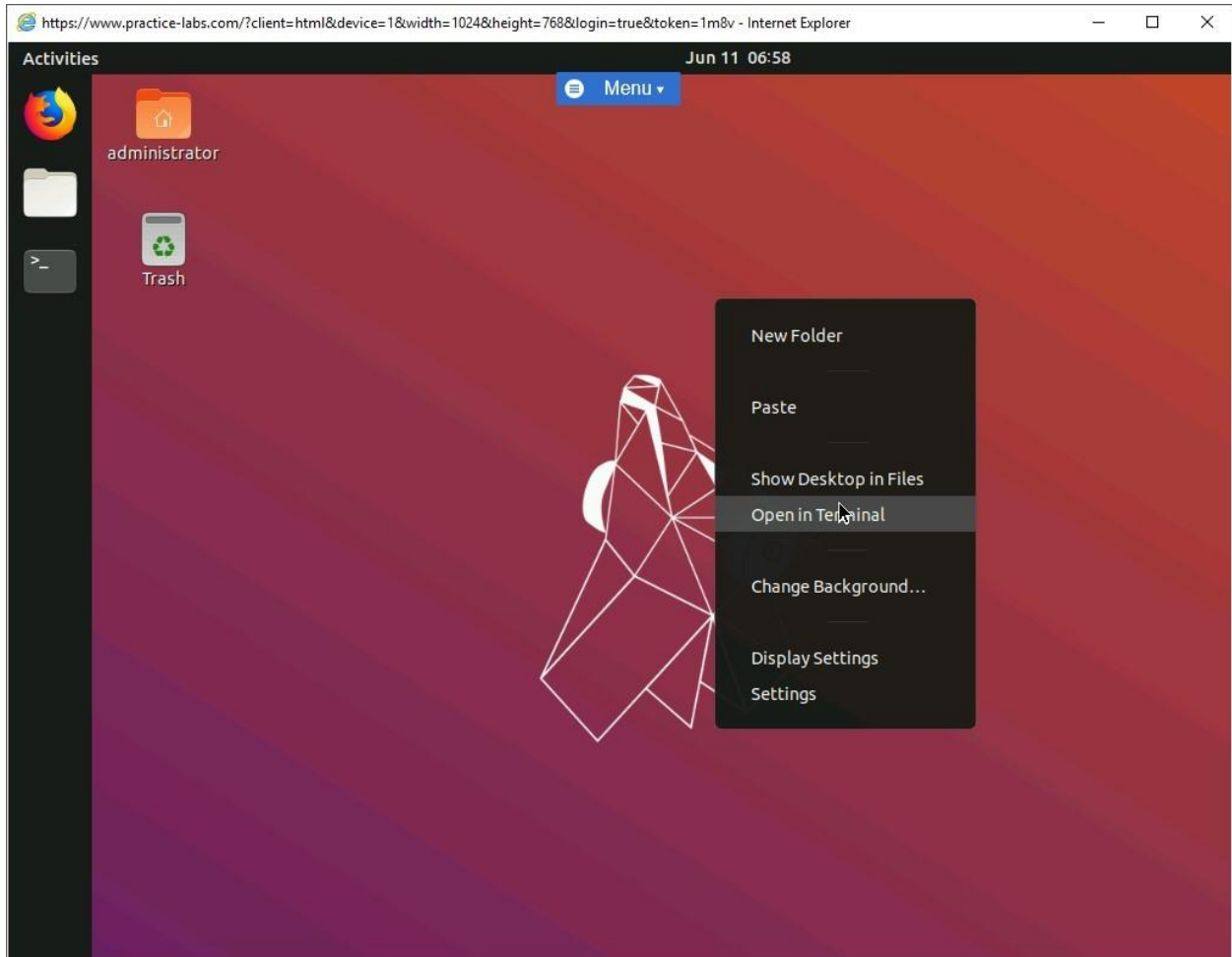


Figure 1.1 Screenshot of PLABLINUX02: Selecting the Open in Terminal option from the context menu.

Step 2

To display the current username, type the following command:

```
whoami
```

Press Enter.

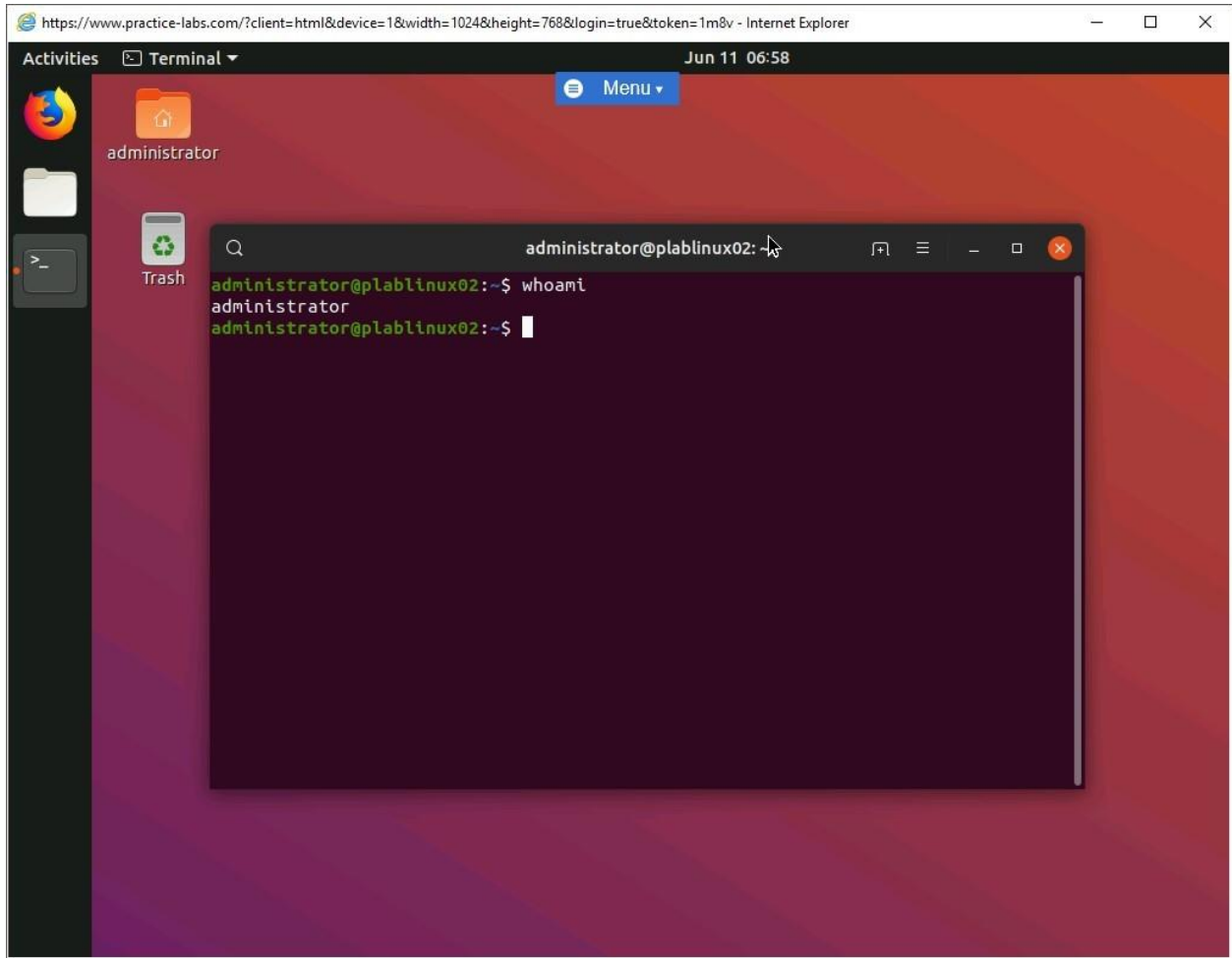


Figure 1.2 Screenshot of PLABLINUX02: Displaying the current username.

Step 3

You can also display the version of the whoami command. To do this, type the following command:

```
whoami --version
```

Press Enter.

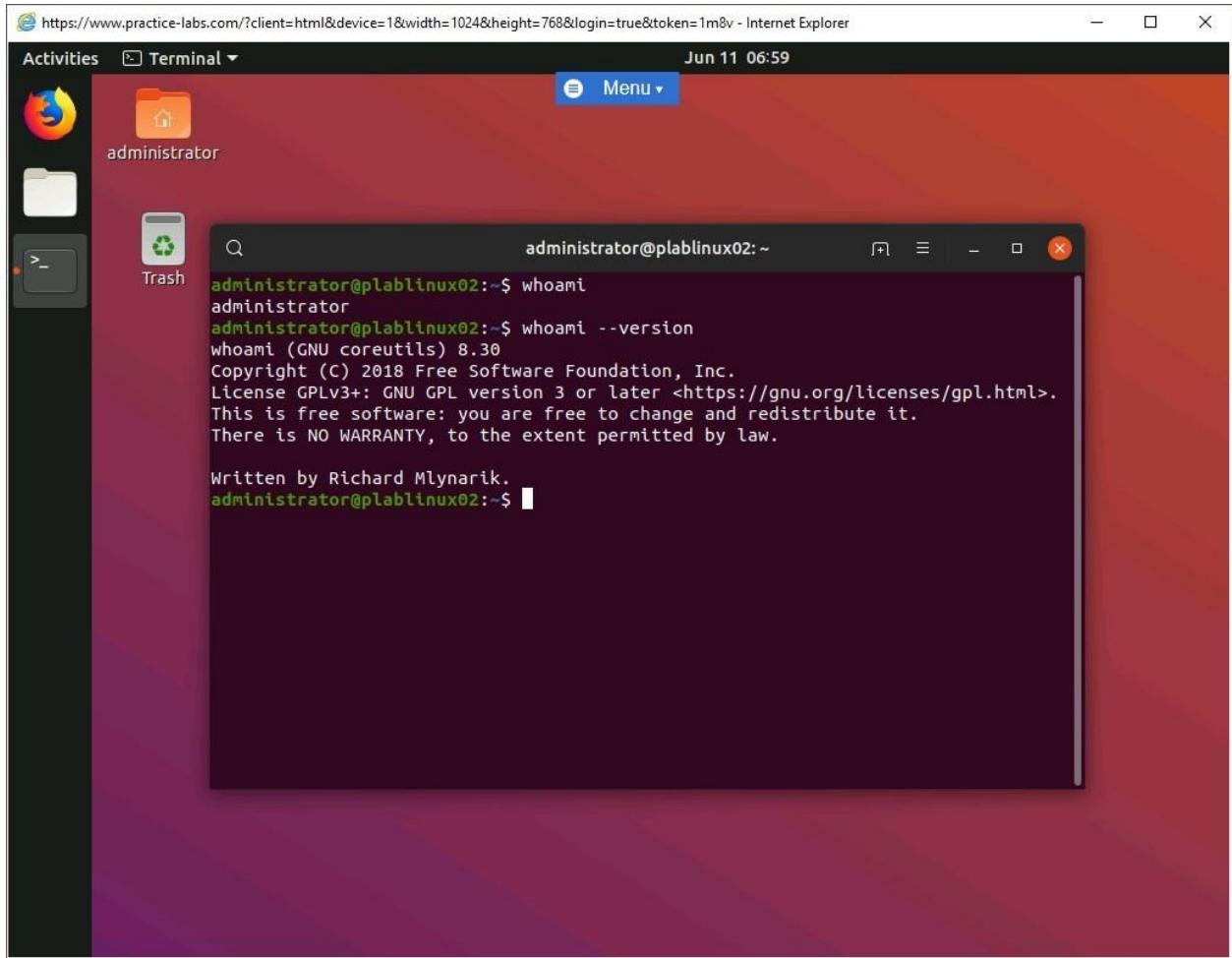


Figure 1.3 Screenshot of PLABLINUX02: Displaying the version of the whoami command.

Step 4

Clear the screen by entering the following command:

```
clear
```

Press Enter.

You can use this command with the sudo command. To do this, type the following command:

```
sudo whoami
```

Press Enter.

When prompted for the password, type the following:

Passw0rd

Press Enter.

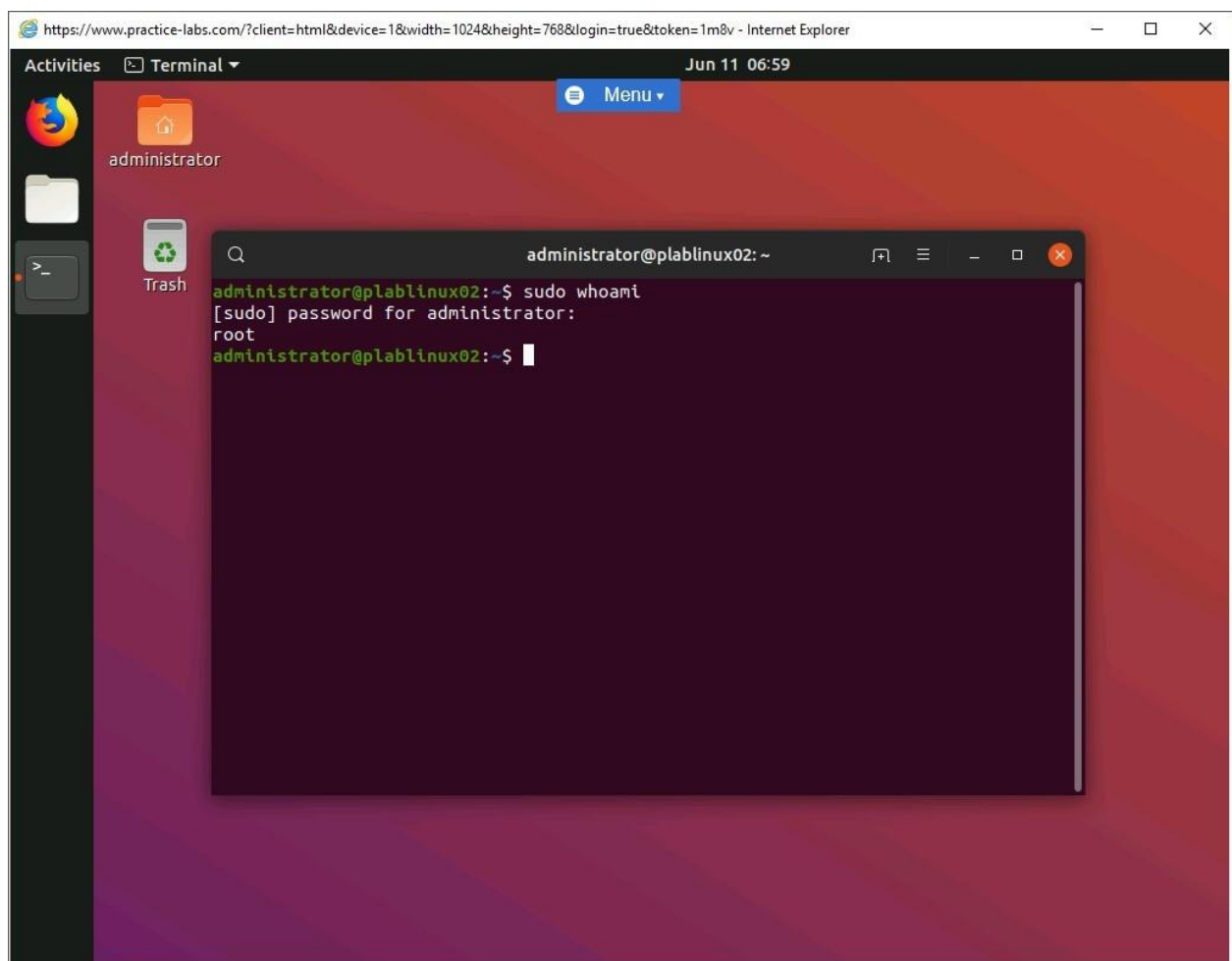


Figure 1.4 Screenshot of PLABLINUX02: Using the whoami command with the sudo command.

Task 2 - Use the who command

You can use the `who` command to display the following information:

- Time of last system boot
- Current run level of the system
- List of logged in users

In this task, you will use the `who` command.

To do this, perform the following steps:

Step 1

Clear the screen by entering the following command:

```
clear
```

Press Enter.

To view the currently logged in user, type the following command:

```
who
```

Press Enter.

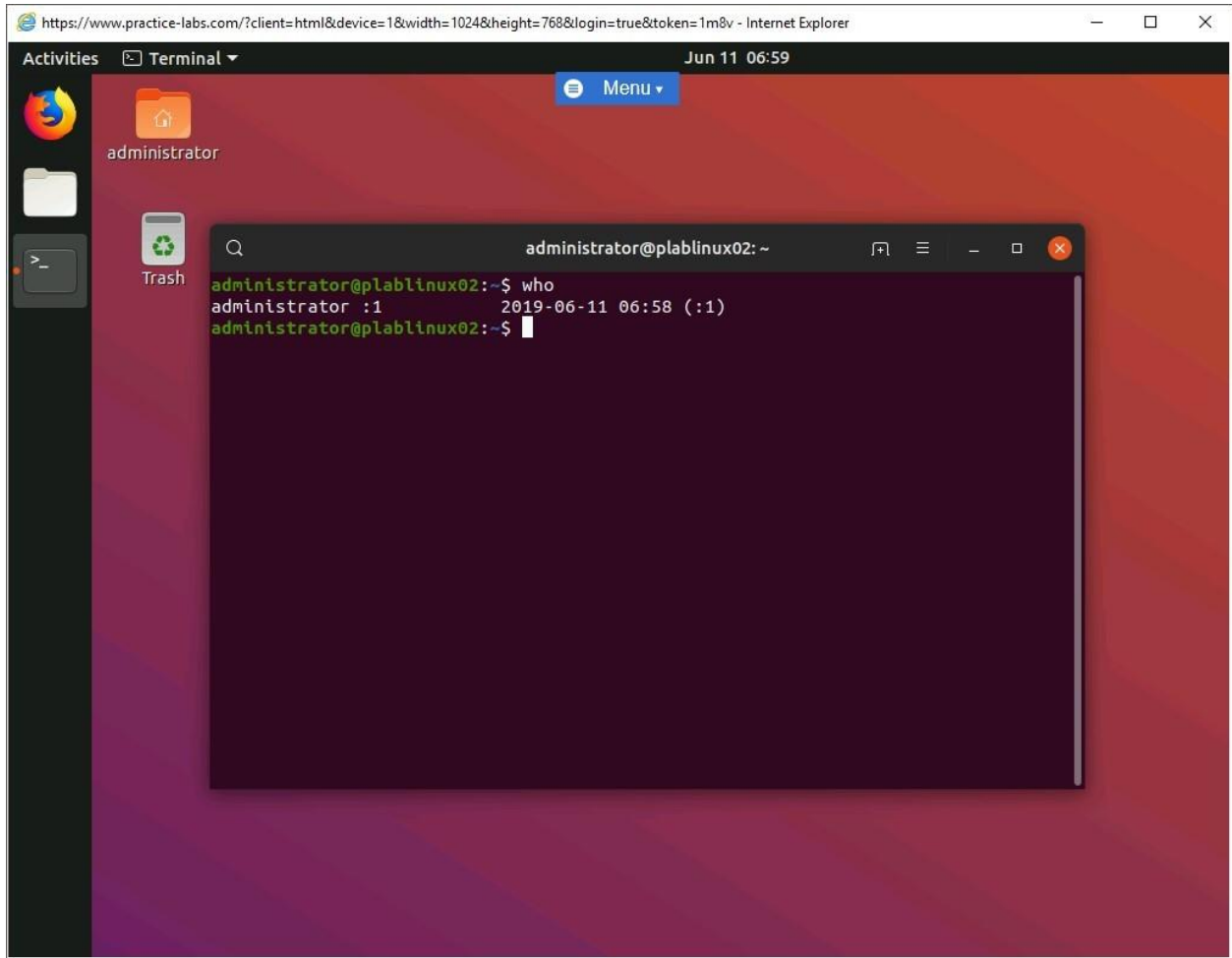


Figure 1.5 Screenshot of PLABLINUX02: the who command to view the currently logged in user has been actioned.

Step 2

Clear the screen by entering the following command:

```
clear
```

Press Enter. To display the list of users logged in to the system, type the following command:

```
who -u
```


Press Enter.

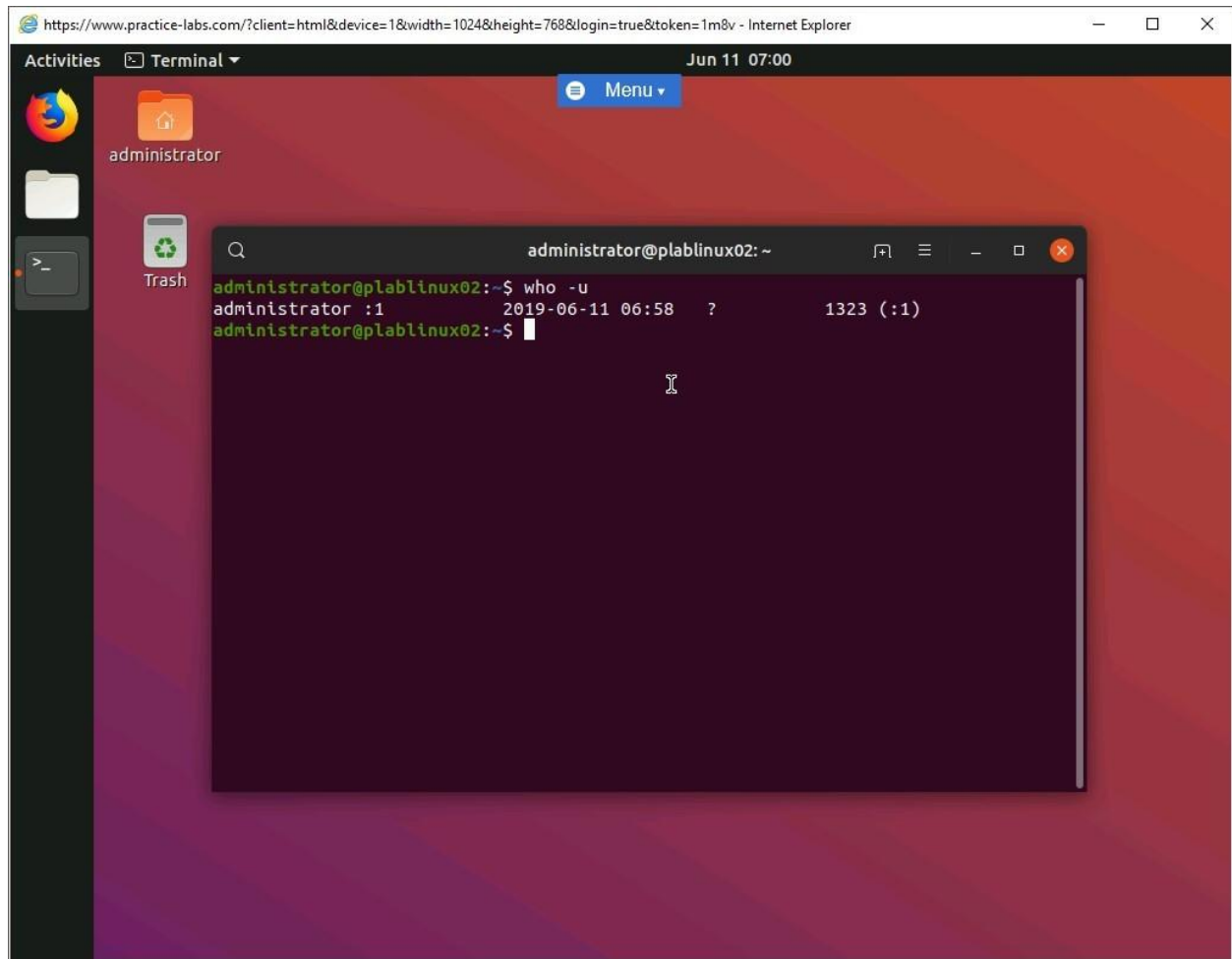


Figure 1.6 Screenshot of PLABLINUX02: Displaying the list of users logged in to the system.

Step 3

Clear the screen by entering the following command:

```
clear
```

Press Enter. To count the number of users logged in to the system, type the following command:

```
who -q -H
```

Press Enter.

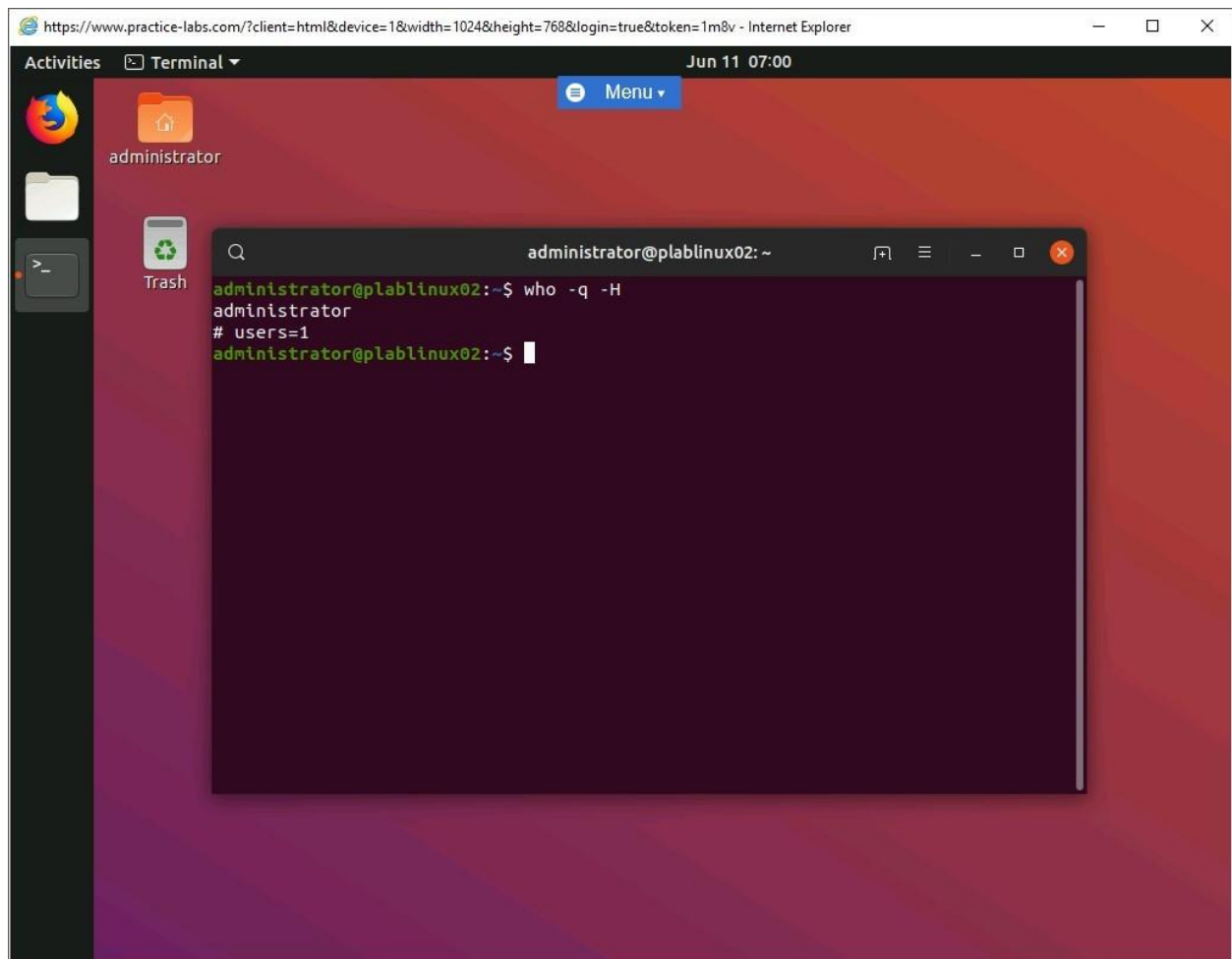


Figure 1.7 Screenshot of PLABLINUX02: Counting the number of users logged in to the system.

Step 4

Clear the screen by entering the following command:

```
clear
```

Press Enter.

To display the current runlevel of the system, type the following command:

```
who -r
```

Press Enter.

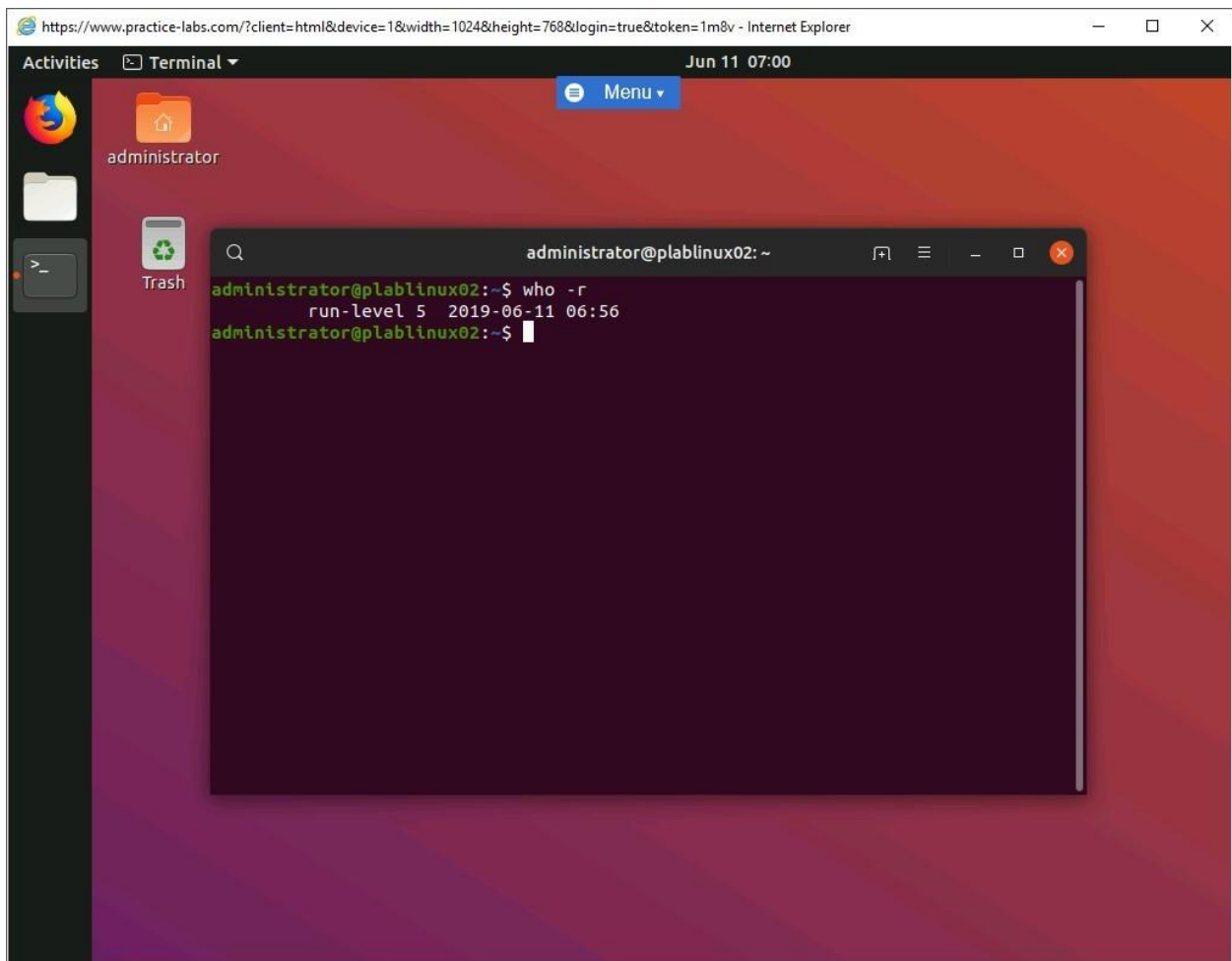


Figure 1.8 Screenshot of PLABLINUX02: Displaying the current runlevel of the system.

Step 5

Clear the screen by entering the following command:

```
clear
```

Press Enter.

To display the complete details of the current logged in user, type the following command:

```
who -a
```

Press Enter.

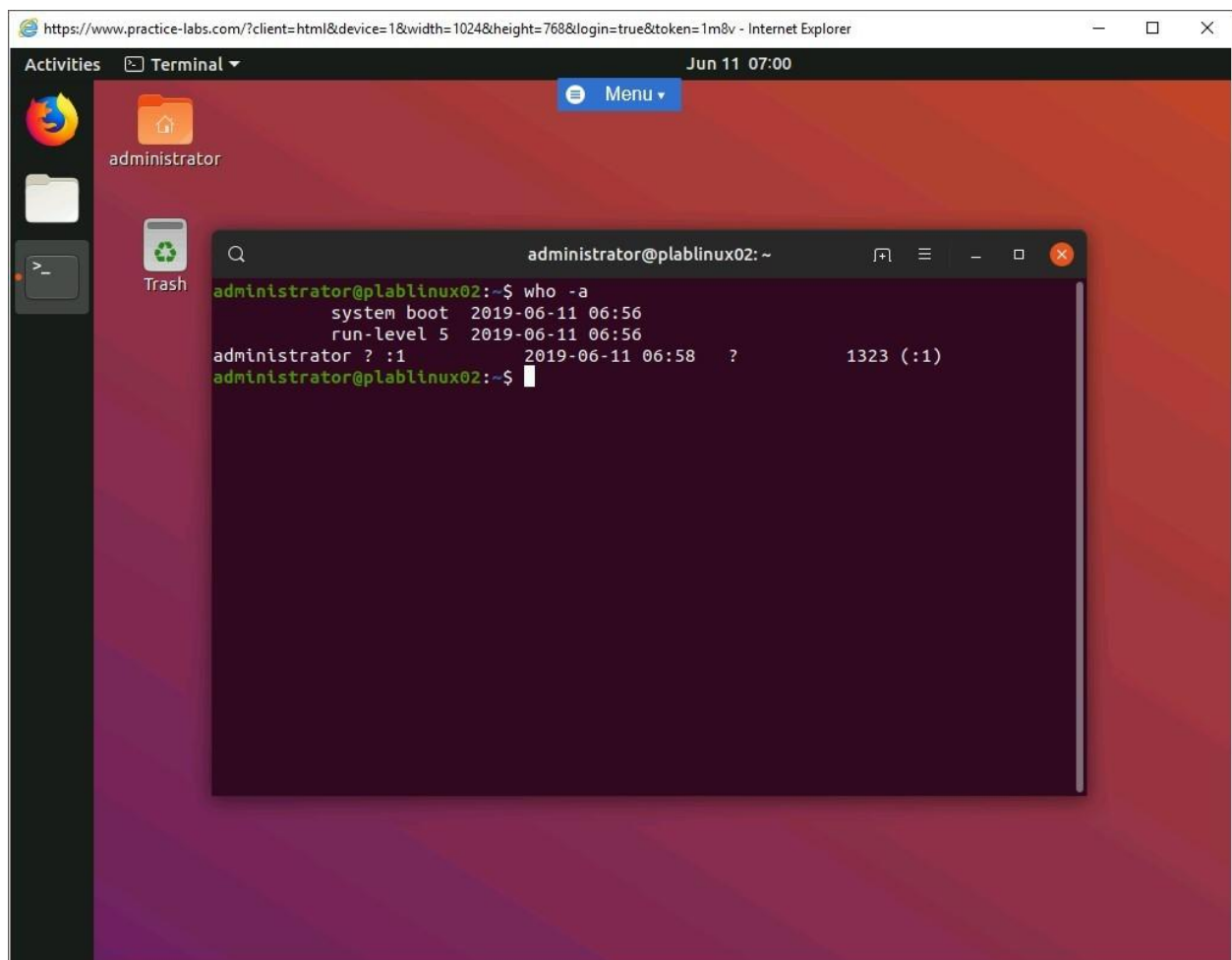


Figure 1.9 Screenshot of PLABLINUX02: Displaying the complete details of the current logged in user.

Task 3 - Use the w command

The w command is used to display info about currently logged users into a system.

In this task, you will use the w command. To do this, perform the following steps:

Step 1

Clear the screen by entering the following command:

```
clear
```

Press Enter. To display information about currently logged users into a system, type the following command:

```
w
```

Press Enter.

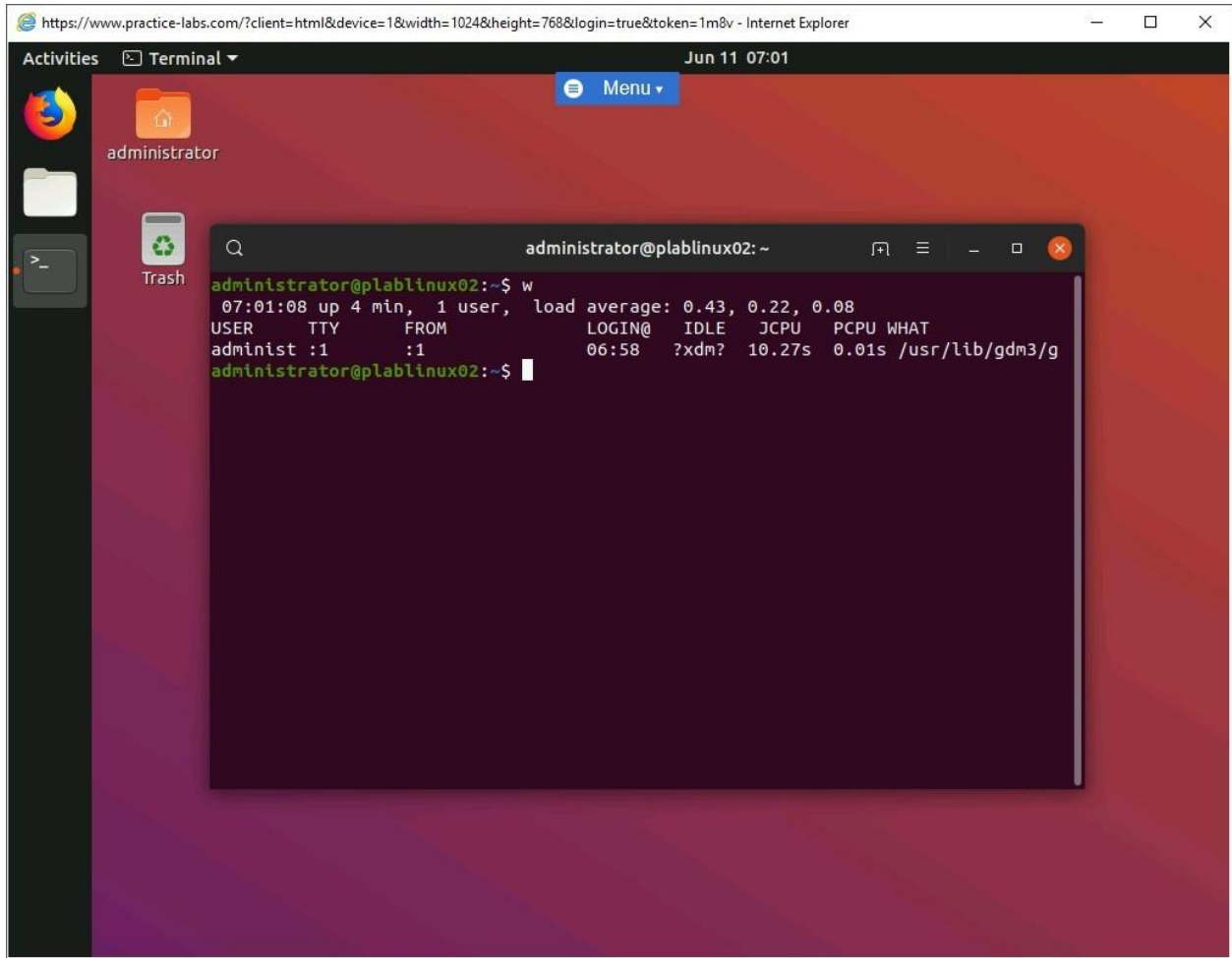


Figure 1.10 Screenshot of PLABLINUX02: Displaying information about currently logged users into a system.

Step 2

With the `-s` switch, you do not get to see the Login, JCPU, and PCPU information. You only get to see brief information about the user. To do this, type the following command:

```
w -s
```

Press Enter.

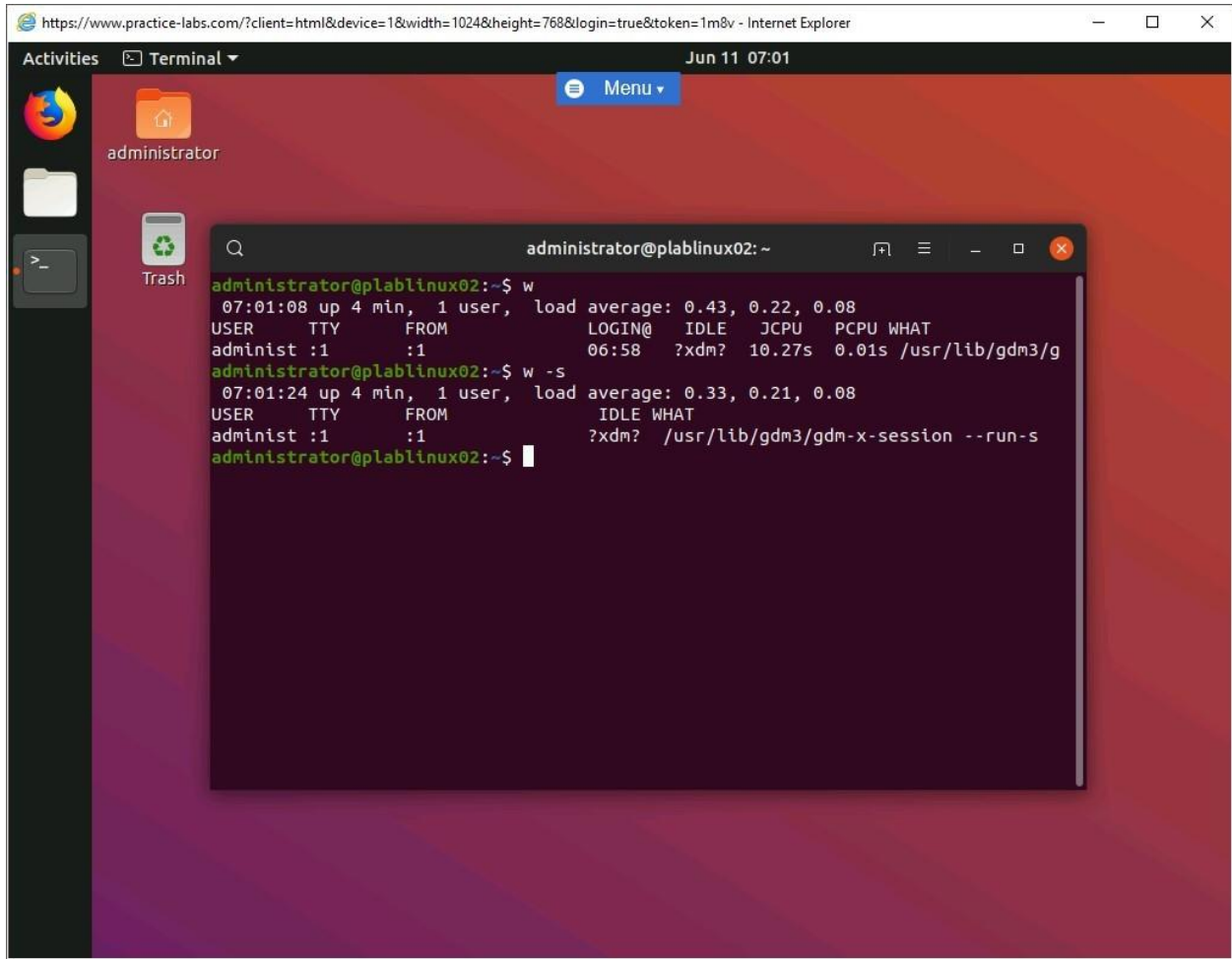


Figure 1.11 Screenshot of PLABLINUX02: Displaying brief information about the user.

Step 3

You can view the information about a specific user. To do this, type the following command:

```
w administrator
```

Press Enter.

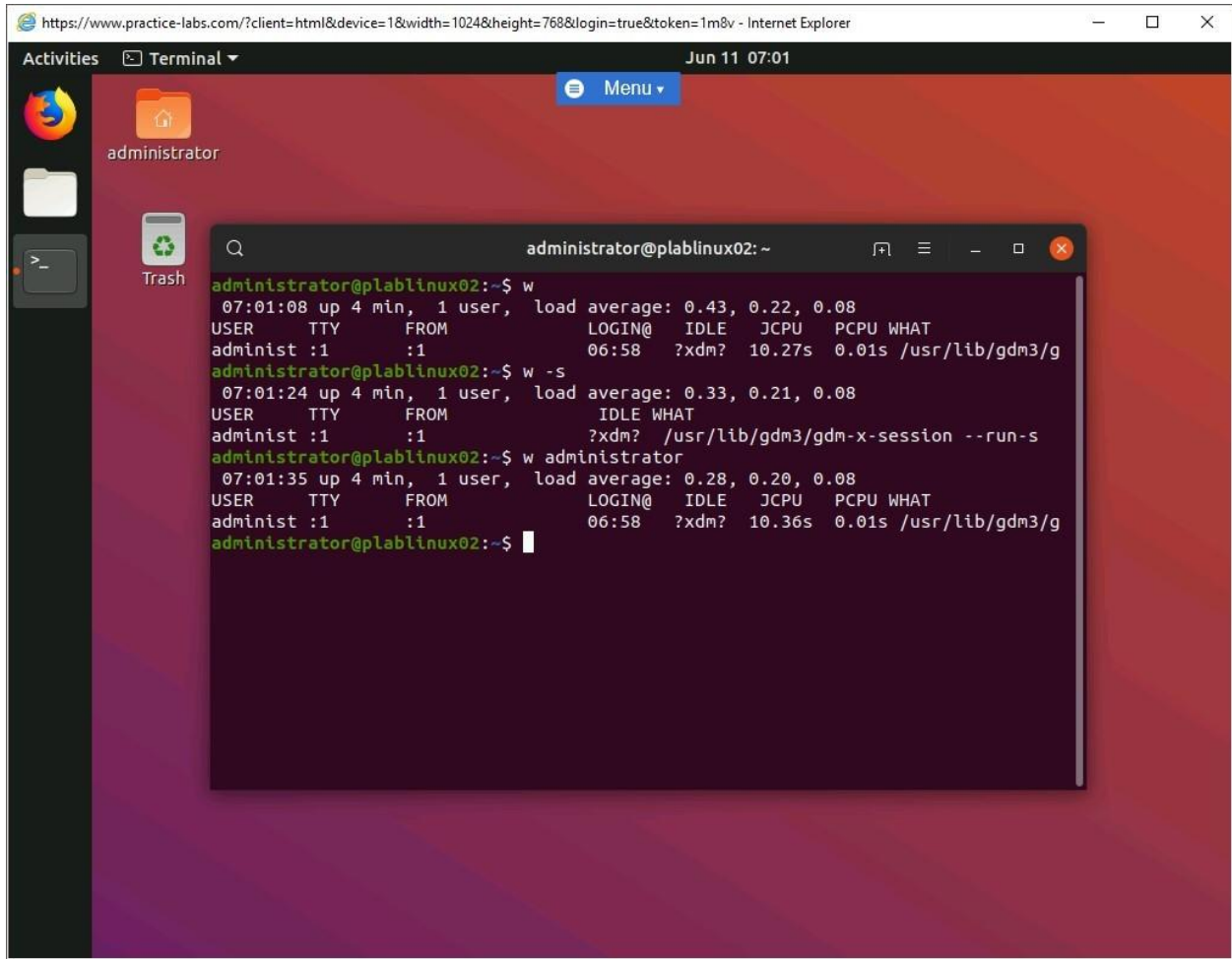


Figure 1.12 Screenshot of PLABLINUX02: Viewing the information about a specific user.

Task 4 - Use the last command

It is possible to track the user logins on a system. You can use the last command to find out when and what time did the user login into the system. In this task, you will use the last command.

To do this, perform the following steps:

Step 1

Clear the screen by entering the following command:


```
clear
```

Press Enter. To verify the logins performed on the system, type the following command:

last

Press Enter.

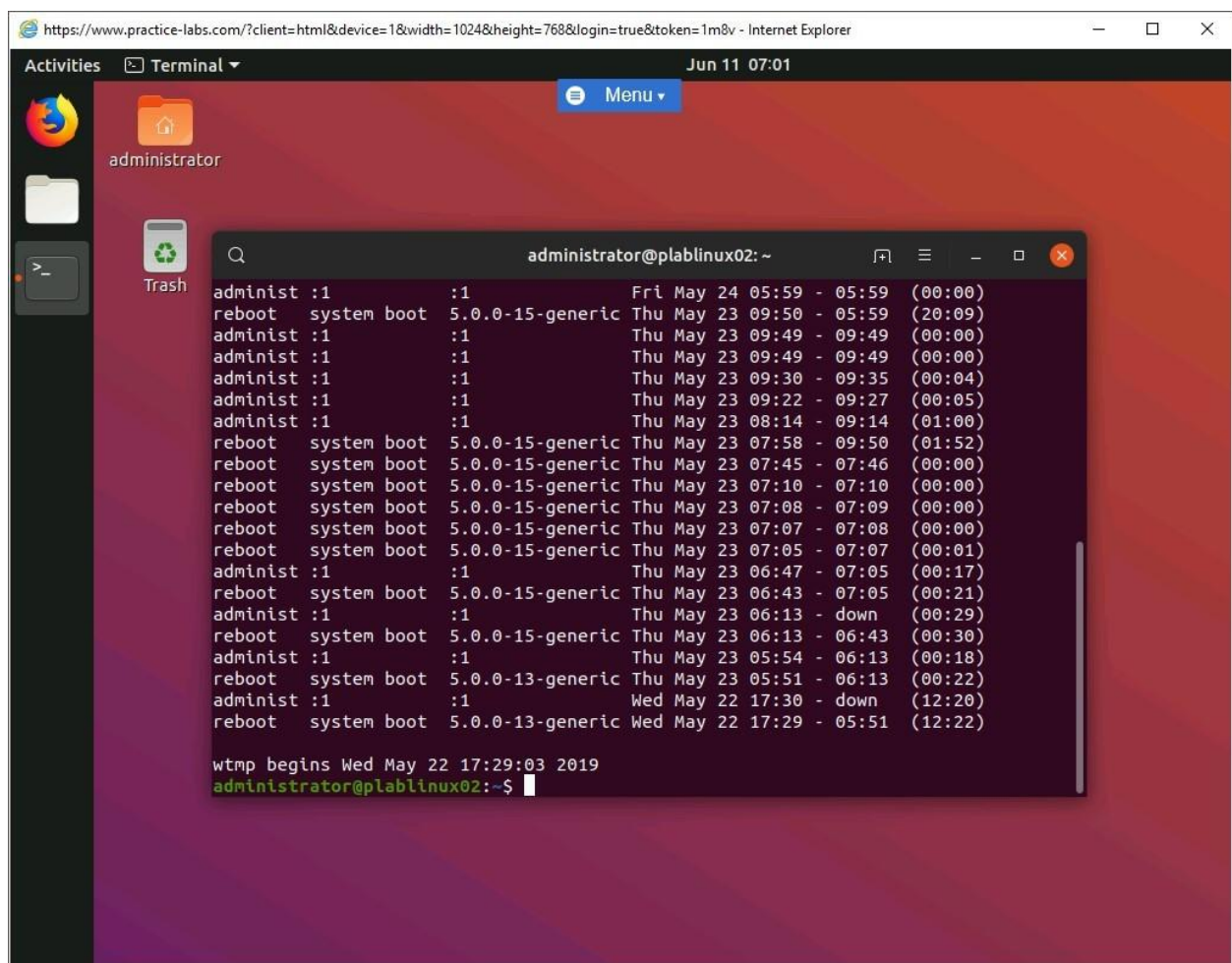


Figure 1.13 Screenshot of PLABLINUXo2: Verifying the logins performed on the system.

Step 2

You can view the login records for a specific user. Type the following command:

```
last administrator
```

Press Enter.

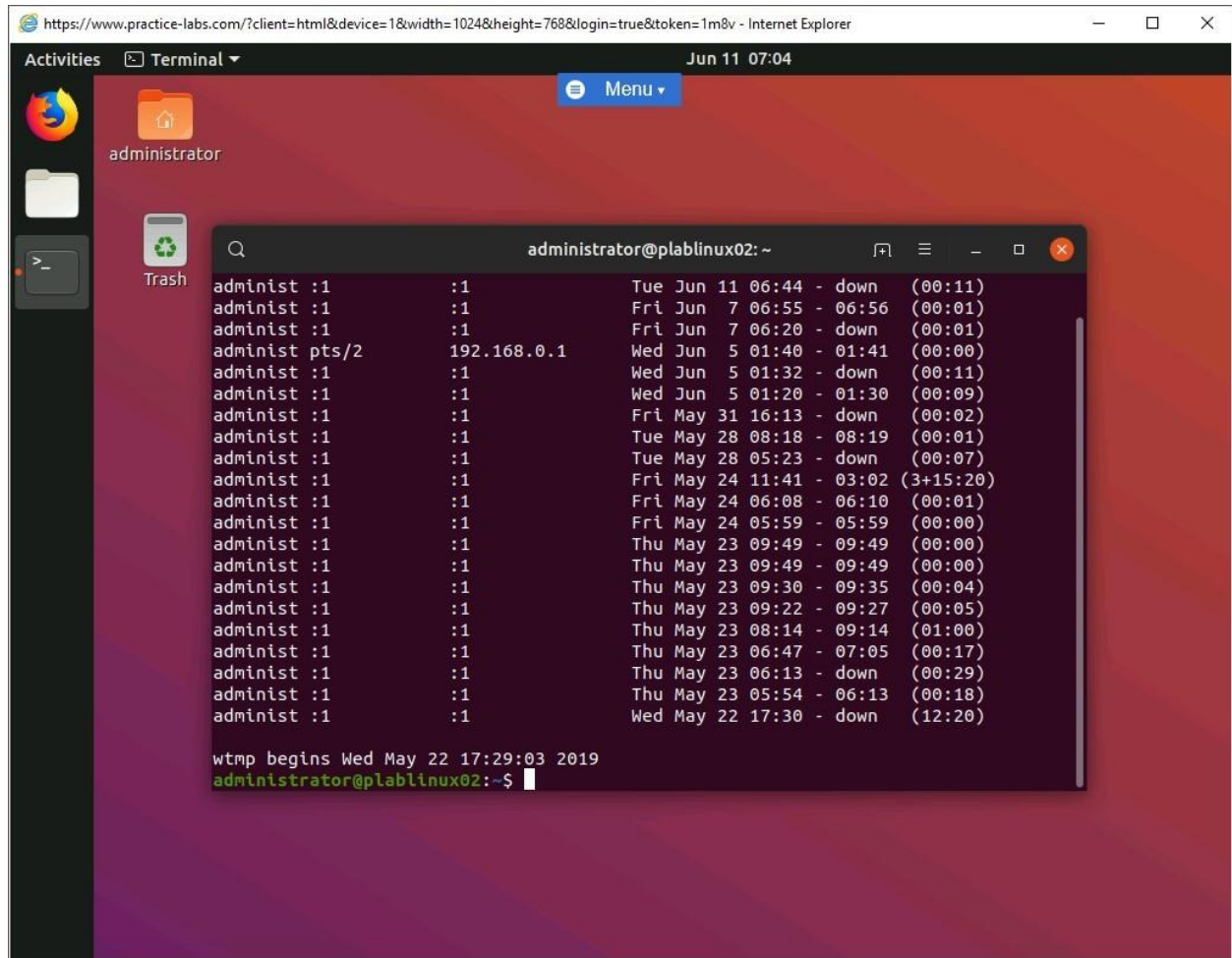


Figure 1.14 Screenshot of PLABLINUX02: Viewing the login records for a specific user.

Step 3

Clear the screen by entering the following command:

```
clear
```

Press Enter. You can view the complete date and time information about the users. Type the following command:

```
last -F administrator
```

Press Enter.

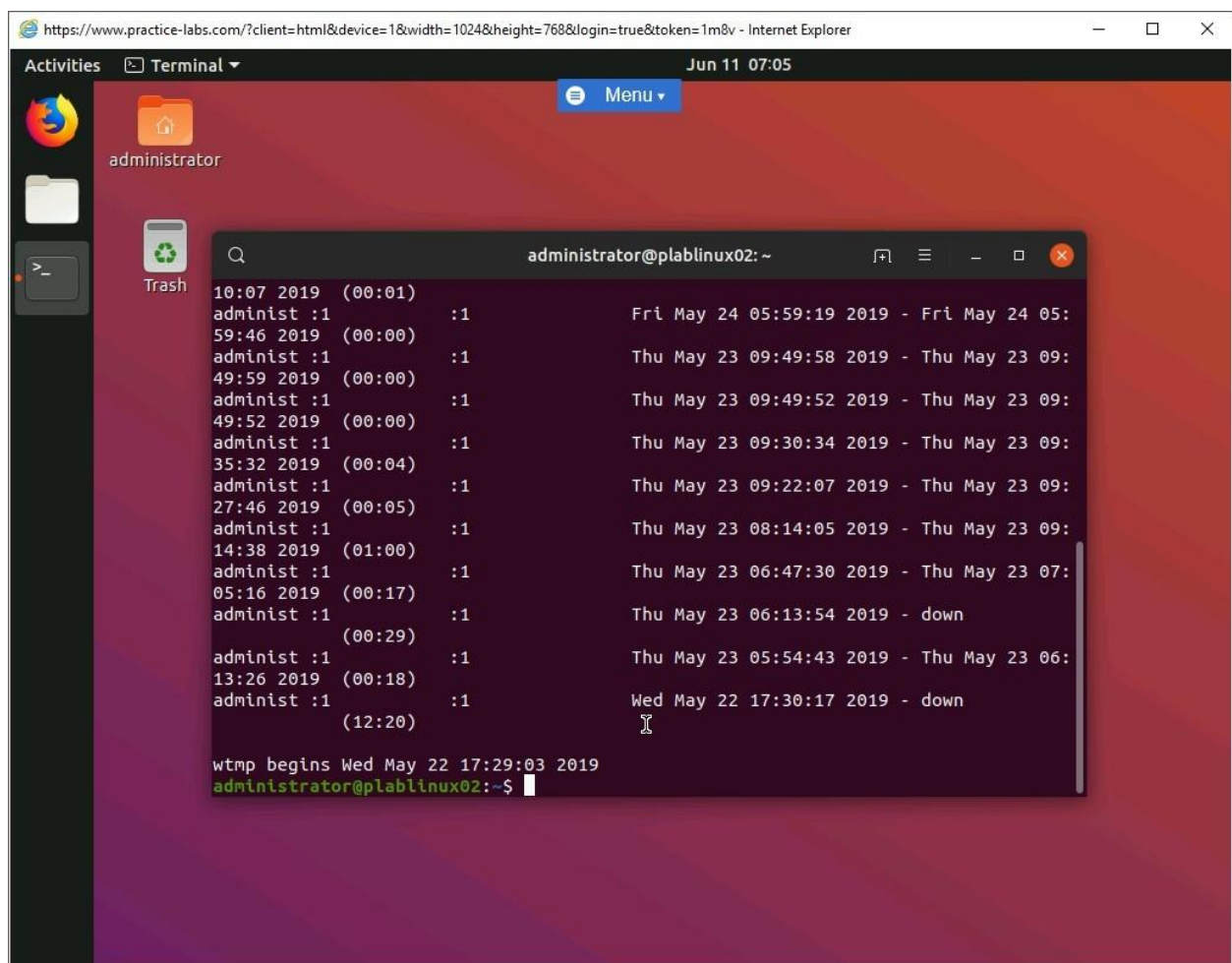


Figure 1.15 Screenshot of PLABLINUX02: Viewing the complete date and time information about the users.

Keep all devices in their current state and proceed to the next exercise.

Review

Well done, you have completed the Run User Level Queries Practice Lab.

Summary

You completed the following exercise:

- Exercise 1 - Execute user-level queries

You should now be able to:

- Use the whoami command
- Use the who command
- Use the w command
- Use the last command