Exemplar: Get help in the command line

1 hour No cost

Activity overview

As a security analyst, you won't have all the answers all the time, but you can learn where to find them. One of the great things about Linux is that you can get help right through the command line.

In this lab activity, you'll use the man and whatis commands to get information on other commands and how they work. You'll also use the apropos command to search the manual page for a command with a specified string.

When working as a security analyst, you'll likely find it useful to know how to discover which command to use or information about what commands do.

With that in mind, let's explore your scenario.

Scenario

In this scenario, you have to find more information about commands that you need to use. You also need to discover which command to use to perform a certain task.

Here's how you'll do this task: **First**, you'll explore a few commands you can use in the shell to learn more about other commands. **Next**, you'll find an option you need to add to a command. **Third**, you'll use a command to get a brief description of commands so you can identify their differences. **Finally**, you'll identify the command you need to perform a task.

It's time to get ready to explore some of the Linux help resources!

Disclaimer: For optimal performance and compatibility, it is recommended to use either **Google Chrome** or **Mozilla Firefox** browsers while accessing the labs.

Start your lab

Before you begin, you can review the instructions for using the Qwiklabs platform under the **Resources** tab in Coursera.

If you haven't already done so, click **Start Lab**. This brings up the terminal so that you can begin completing the tasks!

When you have completed all the tasks, refer to the **End your Lab** section that follows the tasks for information on how to end your lab.

Task 1. Learn more about commands

In this task, you need to explore a few commands you can use in the shell to learn more about the functionality of other commands.

First, imagine you can't quite remember what the cat command does and want a quick reminder.

1. Run the whatis command to get a short description of cat.

The command to complete this step:

whatis cat

Answer: The first two words of the short description returned are "concatenate files".

Next, imagine that you want more details about cat and all of its options.

2. Use the man command to get more details about cat.

The command to complete this step:

man cat

The man command returns a general description of cat and information about each of its options:

CAT(1) User Commands CAT(1) NAME cat - concatenate files and print on the standard output SYNOPSIS cat [OPTION]... [FILE]... DESCRIPTION Concatenate FILE(s) to standard output. With no FILE, or when FILE is -, read standard input. -A, --show-all equivalent to -vET -b, --number-nonblank number nonempty output lines, overrides -n -e equivalent to -vE --More--

When the first page of information returned by man is displayed, the output pauses.

Note: You can output more information one line at a time by pressing the **ENTER** key or output the next page of the manual by pressing the space bar.

Answer: The -n, --number option numbers all the output lines.

3. Press **Q** to exit this manual page.

Now, imagine you've remembered there's a command that prints just the first part of a file, but you can't remember the exact command. The apropos command is useful in these instances. You can use keywords with apropos to find a command.

4. Use apropos to find a command that returns the first part of a file:

apropos -a first part file *Note:* There is no right and wrong when using apropos in terms of keywords. Think of it as a very focused search. It will only return commands that correspond to keywords you supply. Keep trying if the first returned command does not provide what you

need. Also, keep in mind that using the -a option will limit results to only those commands that match all keywords supplied.

Answer: The head command returns only the first part of a file.

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

Learn more about commands

Task 2. Explore the useradd command

In this task, imagine that you want to set the expiration date for a temporary user account. You know that you need to use the useradd command for this, but you're not quite sure how to complete the task. You realize it might involve adding an option to the command.

1. Use the most appropriate Linux command to get help on the useradd command and learn more about all of its options.

The command to complete this step:

man useradd *Note:* You can output more information one line at a time by pressing the *ENTER* key or output the next page of the manual by pressing the space bar.

Answer: The -e option can be used to set an expiration date for a temporary user account.

2. Press **Q** to exit this manual page.

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

Explore the useradd command

Task 3. Explore the rm and rmdir commands

In this task, you need to determine the difference between the rm and rmdir commands.

Imagine that you've used these commands before, but you can't remember how they're different.

• Use the most appropriate Linux command to quickly remind yourself what each command does.

Note: This task will require entering two commands, one with rm and one with rmdir.

The commands to complete this step:

whatis rm whatis rmdir

Answer: The rmdir command removes only empty directories.

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

Explore the rm and rmdir commands

Task 4. Determine which command to use

In this task, imagine that you need to create a new group but you can't remember what command to use. You need to identify a command that will do this by searching for it through keywords. In this case, use the keywords create new group.

• Use the most appropriate Linux command with these keywords to identify what command to use.

The correct command to solve this step:

apropos -a create new group

Answer: The groupadd can be used to create a new group.

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

Determine which command to use

Conclusion

Great work!

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

- get a short description of a command,
- display the man pages for a command, and
- find commands based on keywords about their function.

This ability will be valuable as you navigate the Linux command line.

End your lab

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

- 1. Click **End Lab**. A pop-up box will appear. Click **Submit** to confirm that you're done. Ending the lab will remove your access to the Bash shell. You won't be able to access the work you've completed in it again.
- 2. Another pop-up box will ask you to rate the lab and provide feedback comments. You can complete this if you choose to.
- 3. Close the browser tab containing the lab to return to your course.
- 4. Refresh the browser tab for the course to mark the lab as complete.