# Exemplar: Get help in the command line

**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.

This exemplar is a walkthrough of the previous Qwiklab activity, including detailed instructions and solutions. You may use this exemplar if you were unable to complete the lab and/or you need extra guidance in competing lab tasks. You may also refer to this exemplar to prepare for the graded quiz in this module.

**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!

**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:

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What are the first two words of the short description of cat returned by whatis?

**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.

1. Use the **man** command to get more details about **cat**.

The command to complete this step:

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

A screenshot of a computer program

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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.*

What option can you use to number the output lines of the cat command?

**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:

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***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.*

Which command returns the first part of a file?

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

**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:

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***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.*

Which option can be used with the useradd command to set an expiration date for a temporary user account?

**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.

**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:

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Which of these commands removes only empty directories?

**Answer**: The **rmdir** command removes only empty directories.

**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:

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What command can you use to create a new group?

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

**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.