**Grep**

You might be used to nice graphical interfaces that allow you to search for text in files, usually with ctrl+f or cmd+f. But what about when you're working on a terminal?

As it turns out, once you're used to it, searching for text in files on a CLI can be much faster than using a GUI.

**The grep Command**

The [grep command](https://www.digitalocean.com/community/tutorials/grep-command-in-linux-unix) allows you to search for text in files. It has a *ton* of capability, and we'll only be scratching the surface of its true power.

**Basic Usage**

The most basic use for grep is to search for a string in a file. For example, if we wanted to search for the word "hello" in the file words.txt, we could run:

grep "hello" words.txt

This will print out every line in words.txt that contains the word "hello". It's a case-sensitive search, so it will only match "hello", not "Hello" or "HELLO".

**Assignment**

Applications often write their logs to files on disk. These logs can contain useful information about what the application is doing, and can also be used to debug problems. As a security auditor, you need to dig through these logs to find any evidence of suspicious activity.

Use the grep command to find any lines with the text "CRITICAL" (all caps) in the worldbanc/private/logs/2024-01-10.log file.

Paste the output of your grep command into the input field and submit it.

**Tip**

The tab key is your friend! If you start typing the name of a file or directory and then press tab, your shell will try to autocomplete the name for you. If there are multiple possible completions, it will show you a list of them. I rarely type out full file names, I type the first few characters and then press tab.

024-01-10.log 2024-01-11.log 2024-01-12.log 2024-01-13.log 2024-01-14.log 2024-01-15.log 2024-01-16.log

codemaster@Money:~/worldbanc/private/logs$ grep "CRITICAL" 2024-01-10.log

2024-01-10 01:10:27 CRITICAL: Boots is loose in the server room.

2024-01-10 05:58:18 CRITICAL: Server is on fire, please evacuate.

2024-01-10 20:13:04 CRITICAL: Someone rm -rf'd the root directory.

2024-01-10 20:19:37 CRITICAL: Database files are corrupt.