KUIS 1 KEAMANAN SISTEM DAN JARINGAN KOMPUTER

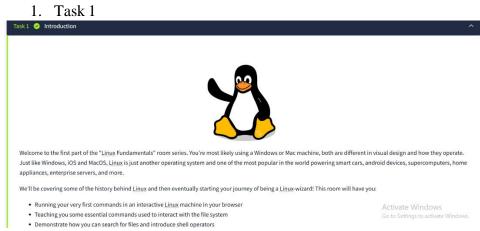


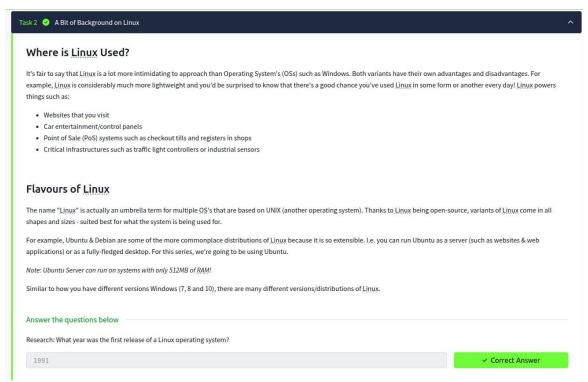
Nama: Raihan Adeya Nurcahyo

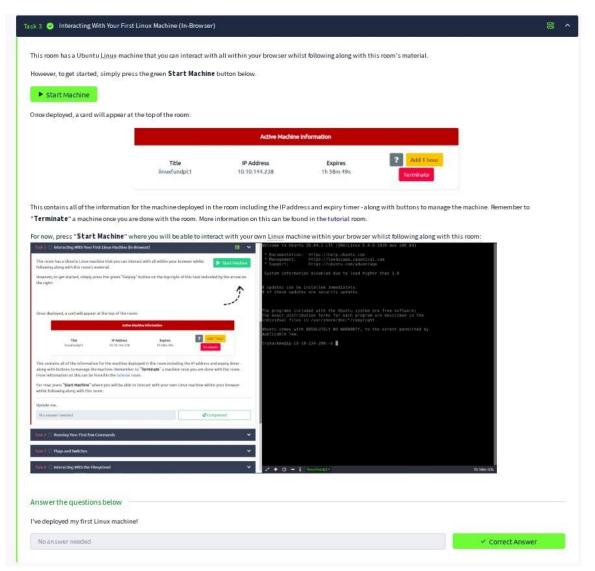
Nim: 2231740019

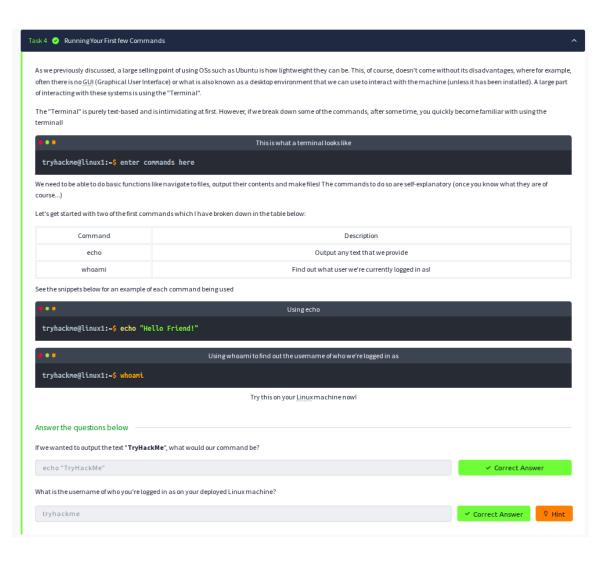
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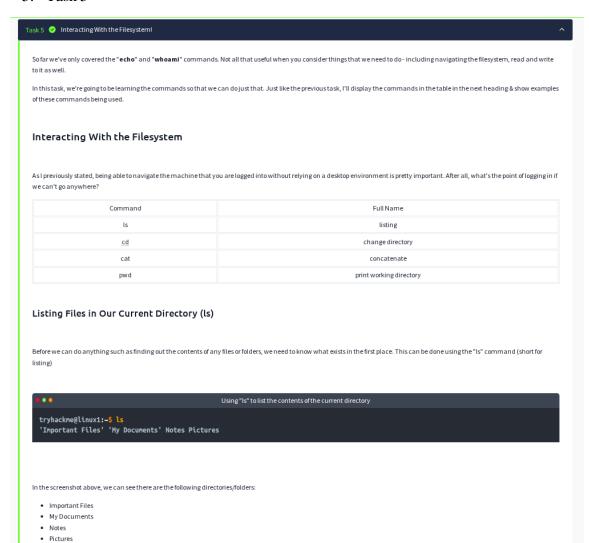
PROGRAM STUDI D3 TEKNOLOGI INFORMASI JURUSAN TEKNOLOGI INFORMASI POLITEKNIK NEGERI MALANG KAMPUS LUMAJANG 2025











Greatl You can probably take a guess as to what to expect a folder to contain given by its name.

Pro tip: You can list the contents of a directory without having to navigate to it by using Is and the name of the directory. I.e. 1s Pictures

Changing Our Current Directory (cd)

Now that we know what folders exist, we need to use the "cd" command (short for change directory) to change to that directory. Say if I wanted to open the "Pictures" directory - I'd do "cd Pictures". Where again, we want to find out the contents of this "Pictures" directory and to do so, we'd use "ts" again:

```
Listing our new directory afterwe have used " cd "

tryhackme@linux1:-/Pictures$ ls

dog_picture1.jpg dog_picture2.jpg dog_picture3.jpg dog_picture4.jpg
```

In this case, it looks like there are 4 pictures of dogs!

Outputting the Contents of a File (cat)

 $Whilst knowing about the \ existence \ of files \ is \ great-it's \ not \ all \ that \ useful \ unless \ we're \ able to \ view \ the \ contents \ of \ them.$

We will come on to discuss some of the tools available to us that allows us to transfer files from one machine to another in a later room. But for now, we're going to talk about simply seeing the contents of text files using a command called "cat".

"Cat" is short for concatenating & is a fantastic way for us to output the contents of files (not just text filesl).

In the screenshot below, you can see how I have combined the use of "Is" to list the files within a directory called "Documents":

```
Using "Is" to to list the contents of the current directory

tryhackme@linux1:~/Documents$ ls

todo.txt

tryhackme@linux1:~/Documents$ cat todo.txt

Here's something important for me to do later!
```

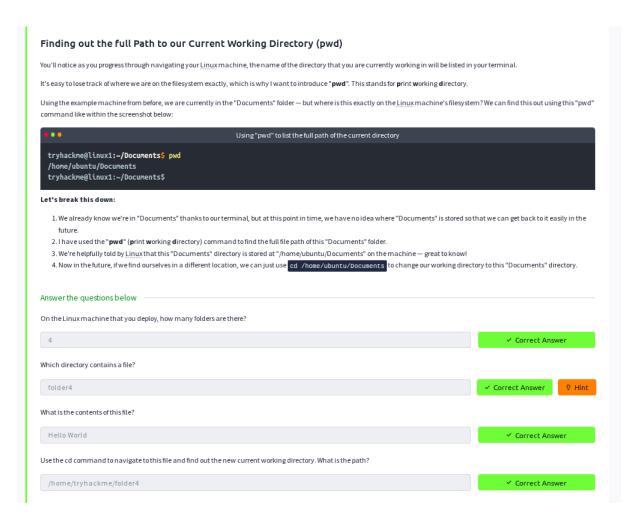
We've applied some knowledge from earlier in this task to do the following:

- $1. Used \verb"ls"" to let us know what files are available in the "Documents" folder of this machine. In this case, it is called "todo.txt".$
- 2. We have then used cat todo.txt to concatenate/output the contents of this "todo.txt" file, where the contents are "Here's something important for me to do later!"

Pro tip: You can use cat to output the contents of a file within directories without having to navigate to it by using cat and the name of the directory. I.e.

/home/ubuntu/Documents/todo.txt

Sometimes things like usernames, passwords (yes-really...), flags or configuration settings are stored within files where "cat" can be used to retrieve these.



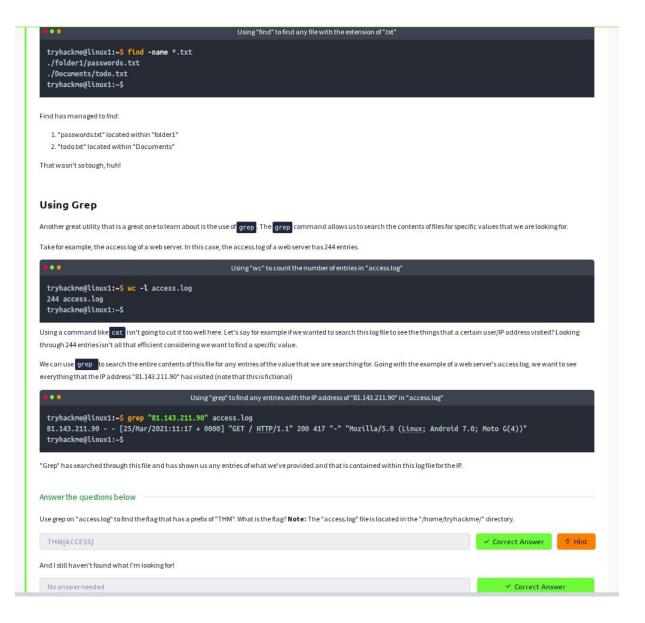
Task 6 🤣 Searching for Files Although it doesn't seem like it so far, one of the redeeming features of Linux is truly how efficient you can be with it. With that said, you can only be as efficient as you are familiar with it of course. As you interact with OSs such as Ubuntu over time, essential commands like those we've already covered will start to become muscle-memory. One fant a stic way to show just how efficient you can be with systems like this is using a set of commands to quickly search for files across the entire system that our user has access to.No need to consistently use cd and ls to find out what is where. Instead, we can use commands such as find to automate things like this for usl $This is where \underline{Linux} starts to become a bit more intimidating to approach -- but we'll break this down and ease you into it. \\$ **Using Find** The find command is fantastic in the sense that it can be used both very simply or rather complex depending upon what it is you want to do exactly. However, let's stick to the properties of the properties offundamentals first. Take the snippet below; we can see a list of directories available to us: Using "Is" to list the contents of the current directory tryhackme@linux1:~\$ ls Desktop Documents Pictures folder1 tryhackme@linux1:~\$ 1. Desktop 2. Documents 3. Pictures 4. folder1 Now, of course, directories can contain even more directories within themselves. It becomes a head ache when we're having to look through every single one just to try and look for the source of thspecific files. We can use find to do just this for usl Let's start simple and assume that we already know the name of the file we're looking for --but can't remember where it is exactly! In this case, we're looking for "passwords bst" and the properties of the file we're looking for the file we're looking for the file we're looking for --but can't remember where it is exactly! In this case, we're looking for "passwords bst" and the file we're looking for --but can't remember where it is exactly! In this case, we're looking for "passwords bst" and the file we're looking for --but can't remember where it is exactly! In this case, we're looking for "passwords bst" and the file we're looking for --but can't remember where it is exactly! In this case, we're looking for "passwords bst" and the file we're looking for --but can't remember where it is exactly! In this case, we're looking for "passwords bst" and the file we're looking for --but can't remember where it is exactly! In this case, we're looking for --but can't remember where it is exactly! In this case, we're looking for --but can't remember where it is exactly! In this case, we're looking for --but can't remember where it is exactly in the file we're looking for --but can't remember where it is exactly in the file we're looking for --but can't remember where it is exactly in the file we're looking for --but can't remember where the file we're looking for --but can't remember where the file we're looking for --but can't remember where the file we're looking for --but can't remember where the looking forIf we remember the filename, we can simply use find -name passwords.txt where the command will look through every folder in our current directory for that specific file like so:

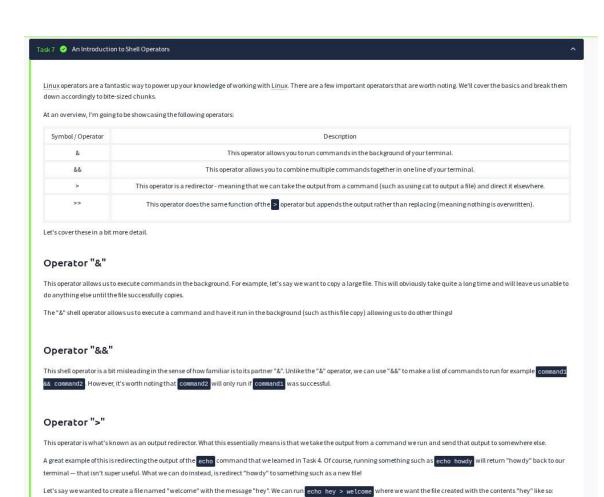
Using "find" to find a file with the name of "passwords.txt"

tryhackme@linux1:-\$ find -name passwords.txt
./folderI/passwords.txt
tryhackme@linux1:-\$

"Find" has managed to find the file — it turns out it is located in folder 1/passwords.txt — sweet. But let's say that we don't know the name of the file, or want to search for every file that has an extension such as ".txt". Find let's us do that tool

We can simply use what's known as a wildcard (*) to search for anything that has .bxt at the end. In our case, we want to find every .bxt file that's in our current directory. We will construct a command such as find -name *.txt . Where "Find" has been able to find every .bxt file and has then given us the location of each one:





Using the > Operator

tryhackme@linux1:~\$ echo hey > welcome

