

## **QUIZ 1 LINUX FUNDAMENTALS**



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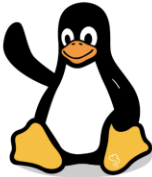
**JURUSAN TEKNOLOGI INFORMASI**

**POLITEKNIK NEGERI MALANG**

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## TASK 1

**Task 1** Introduction



Welcome to the first part of the "Linux Fundamentals" room series. You're most likely using a Windows or Mac machine, both are different in visual design and how they operate. Just like Windows, iOS and MacOS, Linux is just another operating system and one of the most popular in the world powering smart cars, android devices, supercomputers, home appliances, enterprise servers, and more.

We'll be covering some of the history behind Linux and then eventually starting your journey of being a Linux-wizard! This room will have you:

- Running your very first commands in an interactive Linux machine in your browser
- Teaching you some essential commands used to interact with the file system
- Demonstrate how you can search for files and introduce shell operators

Answer the questions below

## TASK 2

- Critical infrastructures such as traffic light controllers or industrial sensors

Woop woop! Your answer is correct

### Flavours of Linux

The name "Linux" is actually an umbrella term for multiple OS's that are based on UNIX (another operating system). Thanks to Linux being open-source, variants of Linux come in all shapes and sizes - suited best for what the system is being used for.

For example, Ubuntu & Debian are some of the more commonplace distributions of Linux because it is so extensible. I.e. you can run Ubuntu as a server (such as websites & web applications) or as a fully-fledged desktop. For this series, we're going to be using Ubuntu.

*Note: Ubuntu Server can run on systems with only 512MB of RAM!*

Similar to how you have different versions Windows (7, 8 and 10), there are many different versions/distributions of Linux.

Answer the questions below

Research: What year was the first release of a Linux operating system?

☐ 1980

☐ 1985

☐ 1989

☒ 1991

Correct Answer

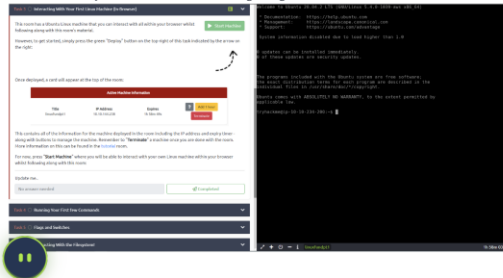
## TASK 3

Once deployed, a card will appear at the top of the room:

Active Machine Information			
Title	IP Address	Expires	
linuxfund01	10.10.144.238	1h 58m 49s	<div><div>?</div><div>Add 1 hour</div><div>Terminate</div></div>

This contains all of the information for the machine deployed in the room including the IP address and expiry timer - along with buttons to manage the machine. Remember to **"Terminate"** a machine once you are done with the room. More information on this can be found in the [tutorial](#) room.

For now, press **"Start Machine"** where you will be able to interact with your own [Linux](#) machine within your browser whilst following along with this room:



```
* Documentation: https://help.ubuntu.com
* Management:   https://landscape.canonical.com
* Support:       https://ubuntu.com/pro
```

System information as of Wed Mar 26 06:38:24 UTC 2025

```
System load: 0.39      Processes:    114
Usage of /:  27.8% of 9.62GB   Users logged in: 0
Memory usage: 36%      IPv4 address for ens5: 10.10.14.213
Swap usage:  0%
```

\* Ubuntu Pro delivers the most comprehensive open source security and compliance features.

<https://ubuntu.com/aws/pro>

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

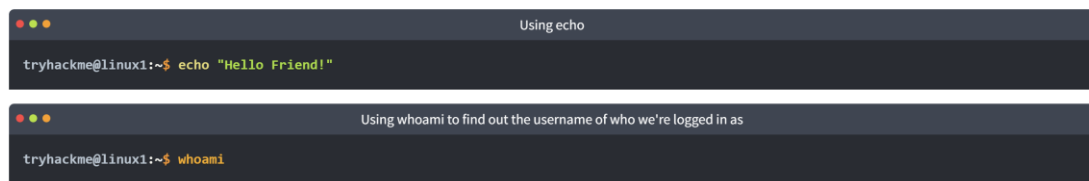
Enable ESM Apps to receive additional future security updates.  
See <https://ubuntu.com/esm> or run: `sudo pro status`

The list of available updates is more than a week old.  
To check for new updates run: `sudo apt update`

```
tryhackme@linux1:~$
tryhackme@linux1:~$
```

## TASK 4

See the snippets below for an example of each command being used



Try this on your [Linux](#) machine now!

Answer the questions below

If we wanted to output the text **"TryHackMe"**, what would our command be?

✓ Correct Answer

What is the username of who you're logged in as on your deployed Linux machine?

✓ Correct Answer

🔍 Hint

## TASK 5

Answer the questions below

On the Linux machine that you deploy, how many folders are there?

✓ Correct Answer

Which directory contains a file?

✓ Correct Answer

🔍 Hint

What is the contents of this file?

✓ Correct Answer

Use the `cd` command to navigate to this file and find out the new current working directory. What is the path?

✓ Correct Answer

## TASK 6

Answer the questions below

Use grep on "access.log" to find the flag that has a prefix of "THM". What is the flag? **Note:** The "access.log" file is located in the "/home/tryhackme/" directory.

THM{ACCESS}

✓ Correct Answer

🔍 Hint

And I still haven't found what I'm looking for!



Hey, Congratulations! You submitted the correct answer for task 6 question 1. Keep it up!

✓ Correct Answer

## TASK 7

Answer the questions below

If we wanted to run a command in the background, what operator would we want to use?

&

✓ Correct Answer

If I wanted to replace the contents of a file named "passwords" with the word "password123", what would my command be?

echo password123 > passwords

✓ Correct Answer

🔍 Hint

Now if I wanted to add "tryhackme" to this file named "passwords" but also keep "passwords123", what would my command be

echo tryhackme >> passwords

✓ Correct Answer

🔍 Hint

Now use the deployed Linux machine to put these into practice

No answer needed

✓ Correct Answer