Date:11-02-2025

#### **LINUX FUNDEMENTALS**

# **PROCEDURE**

#### 1. Log in to TryHackMe

Go to <a href="https://tryhackme.com">https://tryhackme.com</a>, log in with your account, or sign up if you don't have one.

#### 2. Search and Join the Room

In the search bar, type "Linux Fundamentals". There are usually three parts:

- Linux Fundamentals Part 1
   Linux Fundamentals Part 2
- Linux Fundamentals Part 3
   Click on the first one and click "Join Room".

#### 3. Start the Machine

Click "Start Machine" to get the target machine's IP address.

#### 4. Connect to the TryHackMe Network Use either:

- AttackBox (web-based terminal) just click to open it, already connected to THM's VPN.
- Your own Kali/Linux VM with OpenVPN download the .ovpn file and connect using:

bash

CopyEdit

sudo openvpn your-vpn-file.ovpn

#### 5. Go Through Each Task

Each task explains a Linux concept. Carefully read and follow the instructions provided for each task, such as:

- Basic Linux commands
- File navigation and manipulation
- File permissions
- Package management
- Networking commands
- User and group management
- Services and processes

#### 6. Use Linux Commands

Practice commands directly on the target machine, such as:

- Is, cd, cat, nano, touch
- · chmod, chown, ps, kill
- apt, dpkg, top, netstat, ping
- adduser, passwd, sudo
- grep, find, locate

# 7. Answer the Questions

Each task has a series of questions. Use the knowledge and command-line results to find and submit correct answers.

# 8. Mark the Room as Completed

Once all questions are answered correctly, the room will automatically be marked as "Completed".

#### **INTRO**

Note: to actually become familiar with Linux, you need to be using it daily. Make sure you have it installed (whether that be as your host system, a dual reboot, or on a <u>virtual machine</u>). For pentesting, most people prefer to use <u>Kali</u>.

The name "Linux" is actually an umbrella term for multiple OS's that are based on UNIX (another operating system). Thanks to UNIX 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 fullyfledged desktop. For this series, we're going to be using Ubuntu.

The first version of Linux was released in 1991.

#### **Basic Commands**

Some basic commands include pwd, ls, cd, and more.

I have listed commands and their usages in my Gitbook here.

#### **An Introduction To Shell Operators**

Some shell operators include &, &&, >, and >>.

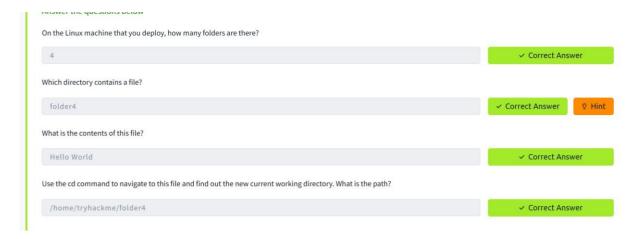
I have listed commands and their usages in my Gitbook here.

#### **TASKS**

# Task 2A Bit of Background on Linux



### Task 5Interacting With the Filesystem!



# Task 6Searching for Files

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.

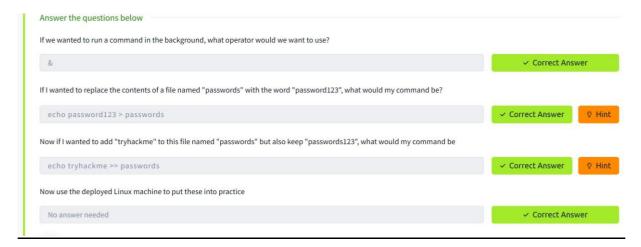
THM[ACCESS]

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

No answer needed

Correct Answer

# Task 7An Introduction to Shell Operators





# **RESULT**

Thus the introduction to Linux fundementals has been sucessfully studied and implemented successfully

