

Linux Fundamentals – Exercise

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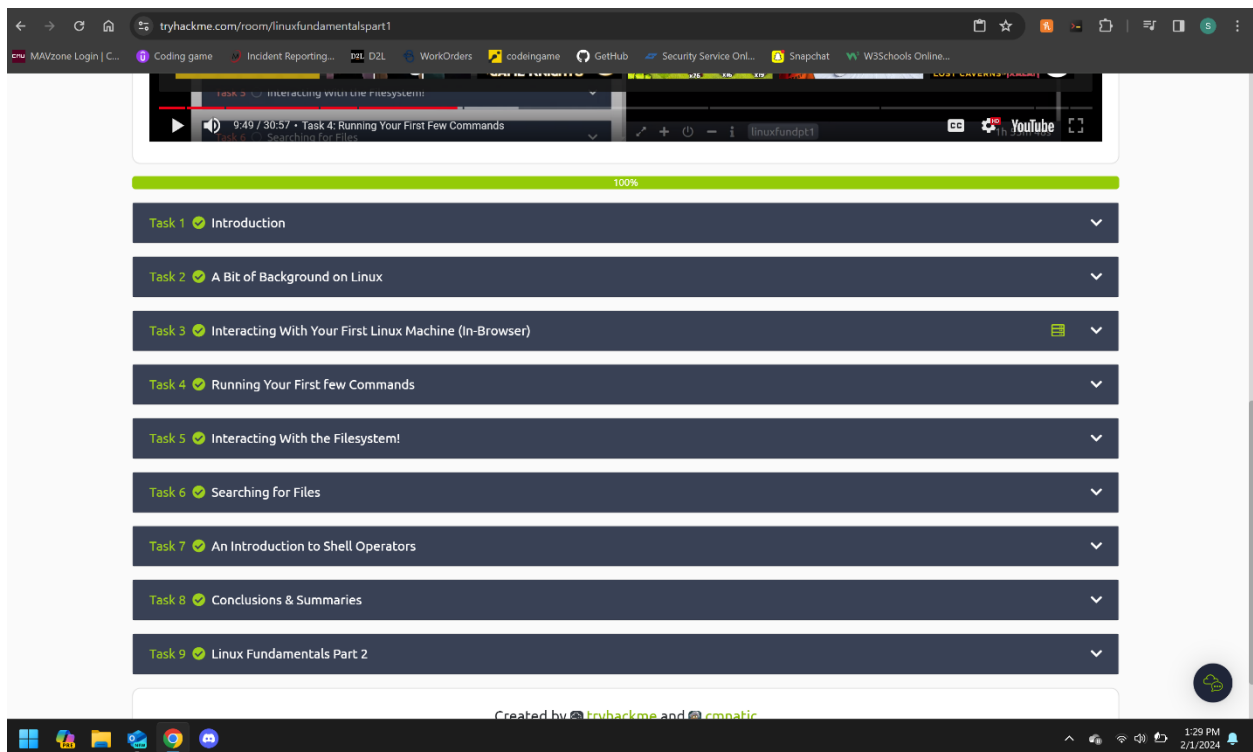
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1. Linux Fundamentals

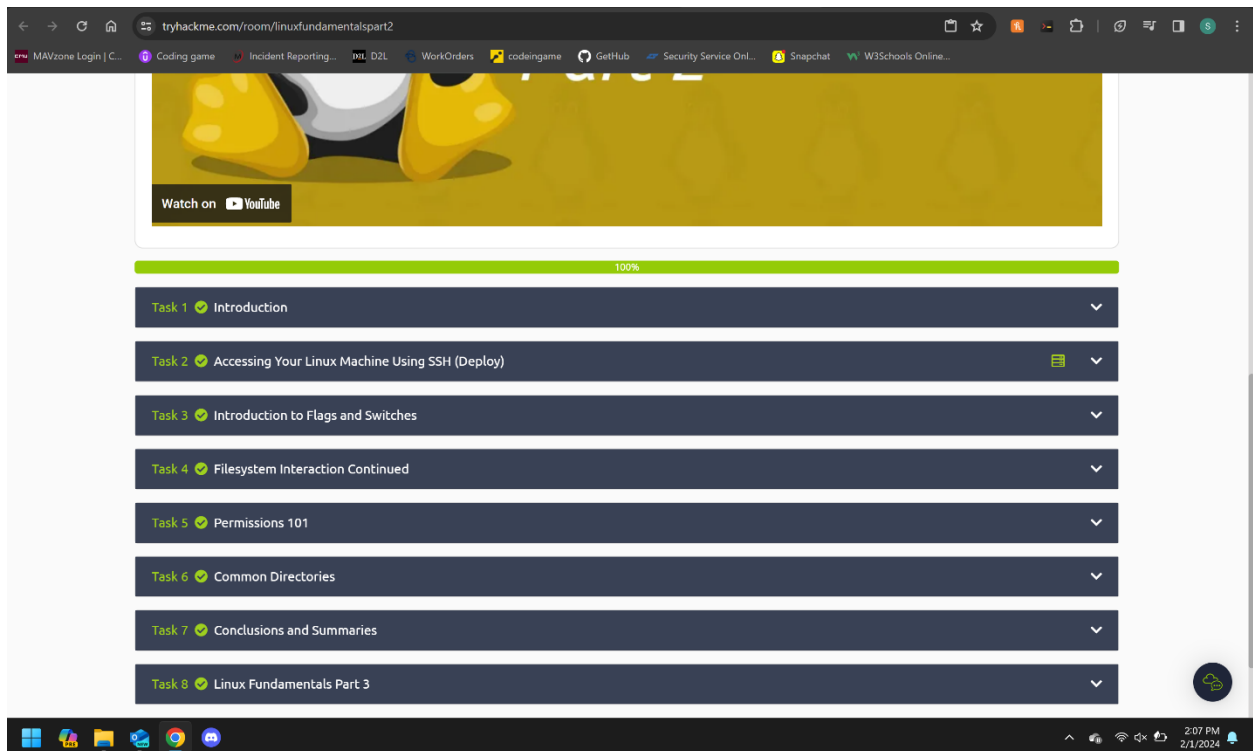
1.1 Linux Fundamentals Part 1

The goal of the first module is to get you acquainted with the operating system Linux and learning some essential commands and how users and groups work on Linux. In this module you learn how Linux is used in Websites control panels and more of your everyday life because of how light weight it is. Some of the commands that you learn in this lesson are echo which outputs the text that you provided, whoami shows you who is currently logged in, ls which lists all the files and directories within the directory you're in, and lastly cat which allows you to see the contents of a file. Then the lesson tested your knowledge and made you navigate around a filesystem with these commands



1.2 Linux Fundamentals Part 2

In this module you learn how to connect to a remote Linux Machine using ssh and how you must use the IP address and know the correct credentials to sign in. Next you learned how to add flags and switches to certain commands to advance your knowledge of commands to get more accomplished and efficient within your Linux Terminal. It also goes over common directories besides the home directory. You learn what /var, /root, /tmp, and /etc directories are and what the job of each of them are. Lastly this module teaches you more commands in Linux like touch to create a file, mkdir to create a folder, cp to copy and mv to move or rename a file.



1.3 Linux Fundamentals Part 3

For the last module it will finally complete teaching you how to use and work with the fundamentals of Linux. You learn about terminal text editors like nano, vi, and vim and how you can use them to view contents of a file as well as edit them to with the terminal editors. Then you learn how to use python3 as a webserver and use the wget command to download content from the server to your machine. You also are introduced to processes which are programs running on your machine and managed by the kernel. You learn what PID increments means for process which means the order that the process will execute. Lastly you learn how your system is to at a certain time of the year, day, week, etc with crontabs. Also learn how to maintain your system by reviewing logs and who accesses certain files and directories.

The screenshot shows a web browser window with the URL `tryhackme.com/room/linuxfundamentalspart3`. The browser's address bar and tabs are visible at the top. Below the browser window, there is a video player showing a video titled "Task 9: Conclusions & Summaries" with a progress bar at 43:26 / 45:38. Below the video player, there is a list of tasks, each with a green checkmark indicating completion:

- Task 1 Introduction
- Task 2 Deploy Your Linux Machine
- Task 3 Terminal Text Editors
- Task 4 General/Useful Utilities
- Task 5 Processes 101
- Task 6 Maintaining Your System: Automation
- Task 7 Maintaining Your System: Package Management
- Task 8 Maintaining Your System: Logs
- Task 9 Conclusions & Summaries

The tasks are listed in a dark blue bar with a white checkmark and a dropdown arrow. A green progress bar is visible above the task list, indicating 100% completion. A small circular icon with a green checkmark is located at the bottom right of the task list.