

# Linux Privilege Escalation

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**Tags** : #linux, #priv-esac, #pentest, #red-team

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## Introduction

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- This lab is targeted for those who are beginners in Pentesting world or have some basic understanding and wanted to understand the basics of Post-Exploitation process
  - The labs are designed aiming to meet the basic requirements for Linux Privilege Escalation
  - The labs are very easy and thus will be a piece of cake if you know what to look and how to look
  - The main focus is on enumeration and exploiting the mis-configs
  - Most importantly, because this is build over docker, so we don't have kernel exploits in the lab right now, but will be adding more labs soon
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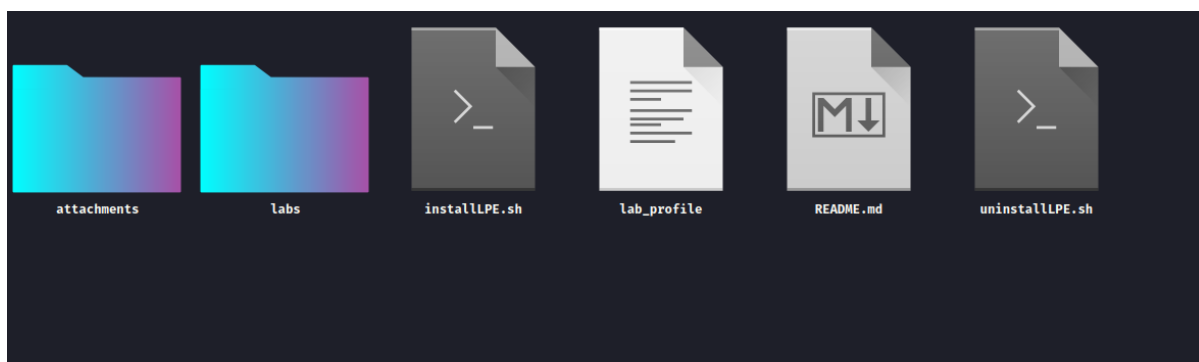
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## Installation

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- Because the labs are designed over docker, installation and cleanup is very easy.
- Steps:
  - Create a fresh **ubuntu** VM, you can also take the latest one as we are not targetting Kernel Exploits as of now
  - Update the VM: `sudo apt-get update && sudo apt-get upgrade -y && sudo apt-get dist-upgrade -y && sudo apt-get install -y build-essential linux-headers-$(uname -r)`
  - Install **docker** and dependencies: `sudo apt-get install -y git lolcat docker docker.io`
  - Once installed, add current user to **docker** to avoid using **sudo** everytime you run **docker** and also this is required by the **installer** script to function properly
  - To do that: `sudo usermod -aG docker $USER`
  - Now **logout** your VM and login back to apply all the changes made
  - To check that all the dependencies are installed and we are good to go, run: `docker ps -a`
  - If no error shows up, we can proceed with lab installation
  - Clone the repo: `git clone ????????????`
  - Then: `cd Linux_Privilege_Escalation` and you will see



- Then: `chmod +x installLPE.sh && chmod +x uninstallLPE.sh`
- Then: `./installLPE.sh`. Sit tight and enjoy the auto-installation 🤗🌈
- You have to be patient while the installation is under progress
- Once done, just run : `source $HOME/.bashrc` and you are ready to kick in 🙌🙌
- To start the labs you just have to type: **lab1** and hit enter
- You can also do **lab** and hit tab to see what all labs are there

- Once you are done with all the labs, you can do complete cleanup using: `./uninstallLPE.sh`
- This will revert back all the changes

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## Notes

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- If you want to see what all labs are installed, you can run: `docker ps -a`
  - Currently, for `lab10` and `lab11` uses the same container image, so you will not find `lab11` seperately but the command `lab11` works
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## Future Endeavours

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- Will add more labs related to advance topics of Linux Privilege Escalation like **Seccomp**, **Capabilities** and **Apparmor**
  - Also, the current labs are **single** escalation boxes. Next model will be more complex due to chaining in escalation process to get to the root
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