

# Session 01 – Linux Familiarity

## What we will be covering

Session 01 is designed to make you a bit more familiar with the fundamentals of common Linux terminal commands, their extended capabilities, basic scripting, and basic terminal exploitation.

You will have an opportunity to gain hands-on experience with the OverTheWire Bandit wargame, which allows you to ssh into different challenges, each covering something new.

Some may also be interested in customising their terminal to suit their individual preferences. Example adjustments that you may want to make include:

- Grouping a long list of commands under an alias for convenience
- Installing your own binaries into the system as commands
- Installing someone else's binaries into the system as commands
- Splitting a terminal into multiple windows via bash commands (useful when you don't have access to GUI-based terminal splitters)

## Starting the session

For those who are participating in the research project, please fill out the pre-training survey (you should have received an email).

To access your workstations, you can follow the instructions provided on the General channel on Teams; file README.md

The Bandit OverTheWire challenges can be found at:

<https://overthewire.org/wargames/bandit/>. Please read the instructions provided by OverTheWire. There are 33 levels, we think it is possible for you to reach level 15 in this session.

The page for each level gives you a basic description of the challenge, as well as some hints on how to solve it. **Linux *man* is your friend; I recommend that you spend some time looking at the suggested commands to solve each level.** Each level will give you the password for the next one.

## Assorted Reading Material

A compiled list of some reading material related to the lab is as follows

- <https://www.geeksforgeeks.org/linux-directory-structure/>

- <https://tmuxcheatsheet.com/>
- <https://linuxhandbook.com/linux-file-permissions/>
- <https://geekflare.com/linux-package-manager-explained/>
- <https://www.linux.com/news/how-install-packages-source-linux/>
- <https://www.geeksforgeeks.org/linux-commands-cheat-sheet/>
- <https://phoenixnap.com/kb/linux-commands-cheat-sheet/>
- **Google.com**