1. Task 01:

* Installation of **virtual box** (VirtualBox is a Type 2 hypervisor used to virtualize machines at fast and reliable speeds depending on the host machine's hardware)
* And installation of **Ubuntu** (Ubuntu Desktop is a Linux distribution developed by Canonical)

1. Task 02:

***Started with BANDITS-------***

* Level 1:
* ssh bandit0@bandit.labs.overthewire.org -p 2220
* ssh used to connect to any remote server.
* -p is used to specify port
* Level 2:
* Cat used to open a file.
* Cd used to change directory.
* to open file with name starting with ‘-’ in terminal,

we use.

cat < -filename or . / -filename

* Level 3:
* to access files with spaces in between them we can
* cat ‘spaces in the file name’
* cat spaces\ in\the\ file\ name
* Level 4:
* the password was hidden in a directory.
* To view the all files: ls al is used
* Hidden files start with.
* Level 5:
* Find a human readable file.
* Find . -type f| xargs file
* Level 6:
* We learned the use of find command.
* Find -type f -size 33c ! -executable
* b🡪 blocks c🡪 bytes
* Level 7:
* We have to find the password which was in a file which is

owned by user bandit7.

owned by group bandit6.

33 bytes in size

* the use of find command.
* find -user bandit7 -size 33c -group bandit6.
* Level 8:
* password is stored in data.txt next to word millionth.
* cat data.txt |grep “millionth”
* grep searches a pattern.
* Level 9:

stored in data.txt and is the only line of text that occurs only once

cat data.txt| sort | uniq -u

-c🡪 no. of times the line occur

-d🡪display repeated lines

-u🡪display nonrepeating lines

* Level 10 :
* Password stored in one of the few human readable strings, preceded by several ‘=’characters.
* cat data.txt| strings |grep “==”
* Level 11:
* Learned about base64 command.
* cat data.txt | base64 -d use to decode.
* base64 <<< “Hello RSM” 🡪use to code
* Level 12:
* Rot13 cipher a decryption technique.
* **ROT13** ("**rotate by 13 places**", sometimes hyphenated **ROT-13**) is a simple letter substitution cipher that replaces a letter with the 13th letter after it in the alphabet. ROT13 is a special case of the [Caesar cipher](https://en.wikipedia.org/wiki/Caesar_cipher) which was developed in ancient Rome.