$NSE - LAB_1$

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1 Understanding Basic Linux Commands

- ullet Global sudo use command sudo -s
- Current Date use command date
- ullet Use manual use command man
- To print first 5 lines use command head -5 /file/directory
- To print last 5 lines use command tail -5 /file/directory
- ullet Global sudo use command sudo -s

2 Permissions on file

-rw-r
-r 1 ns staff 0 12 Feb 17:44 file.txt

- Left most bit: its indicating that it is a plain file (-)
- Next 3 left-most bits: current user permission, in this example I can **read** and **write** but not **execute**.
- last 3 bits: others who are not in the group, in this example they can only read but not execute or write. write

3 Composing Basic linux commands

- ullet read file use command ls-cut-head-tail
- you can use cut to display wanted data use command cut -f for the fields and -d ':' for example for : delimiter
- The above can return many duplicates to remove them, pipe the output with uniq command use command cut -f7 -d':' /etc/passwd PIPE uniq
- But even with piped uniq we still get duplicates, because uniq isnist on data to be ordered so we need to pipe sort first use command cut -f7 -d':' /etc/passwd PIPE sort PIPE uniq
- stream OUTPUT use command

 ls /etc/password 1; or ; /logfile

 This can be used to display both OUTPUT and ERROR
- stream ERROR use command

 ls /etc/password 2; /logfile

 This can be used to redirect output without showing the error
- Otherwise display echo message use command ls /etc/password —— echo "file, not found"

 This can be used to redirect output without showing the error
- It's always good to check if file exists before performing operation on it so use command ls /etc/password AND cut -f7 -d':' /etc/passwd

 This ensures the file exists before the cut

We can also execute the .txt files, by passing them into shell input. Because we can't execute the .txt file itself without changing the permission to **executable** with *chmod* command.

To add executable permissioms we use $chmod\ u+x\ file.txt$ This command changes mode of user and appends the executable permission to it, followed by file name. This allows user to execute the file rather than passing it to the shell.

This is the end of Lab 1, showing basics of linux before we jump into hacking.