Linux Operations Basics: Part 2
Linux Command Cheat Sheet

Class:
Linux OS Operations

Workshop Number:
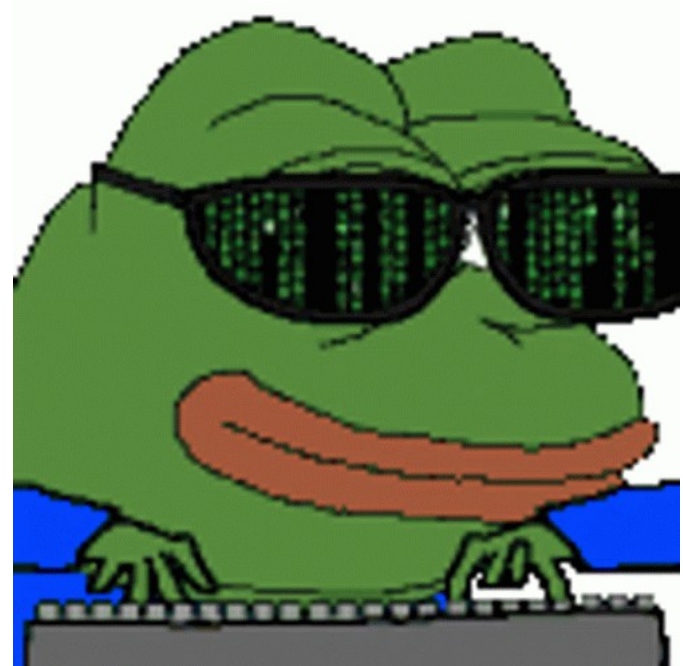AS-LIN-02

Document Version:
1.2

Special Requirements:
None

LS command: list directory contents

The LS command lists out the current directory's contents. It's often used with the -l switch to output in list form, or with the -a switch to output hidden files as well

PWD command:
print working directory

The PWD command outputs our current (working) directory. When we see a slash in front of a name in Linux, we know that's a directory name

CAT command:
read file contents

```
localhost:~# cat readme.txt
Some tests:


- Compile hello.c with gcc (or tcc):
```

The CAT command is used to read file contents

CD command:
change working directory


```
localhost:~# pwd
/root   (1)
localhost:~# cd /tmp
localhost:/tmp# pwd
/tmp   (2)
localhost:/tmp# cd
localhost:~# pwd
/root   (3)
```

The CD command is used to change our current (working) directory. If we use CD by itself, it will send us to our home directory

MKDIR command:
create a new directory


```
localhost:~# mkdir newdirectory
localhost:~# ls
bench.py       hello.c       hello.js       newdirectory   readme.txt
localhost:~#
```

The MKDIR command is used to create new directories. We usually can't create directories outside of our home directory or the /tmp directory

WGET command:
download a file

```
theshyhat-picoctf@webshell:~/obedientcat$ wget https://mercury.picoctf.net/static/217686fc11d733b80be62dcfc
fca6c75/flag
--2024-07-31 18:07:10--  https://mercury.picoctf.net/static/217686fc11d733b80be62dcfcfca6c75/flag
Resolving mercury.picoctf.net (mercury.picoctf.net)... 18.189.209.142
Connecting to mercury.picoctf.net (mercury.picoctf.net)|18.189.209.142|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 34 [application/octet-stream]
Saving to: 'flag'

flag                    100%[===================================>]      34  --.-KB/s    in 0s

2024-07-31 18:07:10 (13.6 MB/s) - 'flag' saved [34/34]
```

The WGET command is used to download files.
We usually can't download files outside of our
home directories or the /tmp directory

RM command:
delete files or directories


```
localhost:~# ls
bench.py        hello.c         hello.js        newdirectory    readme.txt
localhost:~# rm -r newdirectory
localhost:~# ls
bench.py        hello.c         hello.js        readme.txt
```

The RM command is used to delete files or directories. Directories that aren't empty can't be deleted unless we use the -r switch.