

OS-Lab

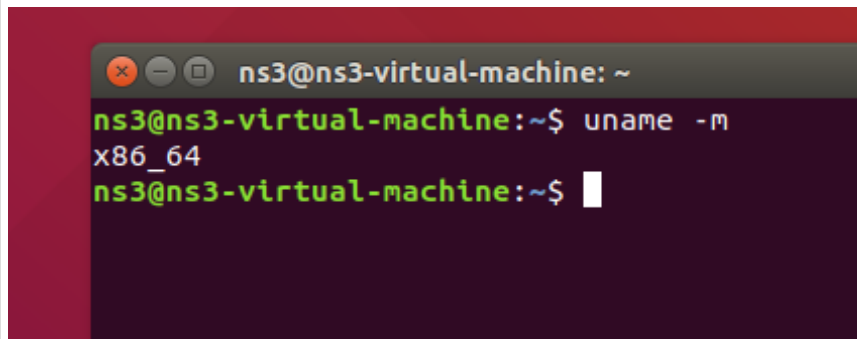
Lab#2

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Terminal Screenshots:

Cmd-1

A terminal window with a dark purple background and a red title bar. The title bar contains the text 'ns3@ns3-virtual-machine: ~'. The terminal shows the command 'ns3@ns3-virtual-machine:~\$ uname -m' and the output 'x86_64'. The prompt 'ns3@ns3-virtual-machine:~\$' is followed by a white cursor.

```
ns3@ns3-virtual-machine: ~  
ns3@ns3-virtual-machine:~$ uname -m  
x86_64  
ns3@ns3-virtual-machine:~$
```

Cmd-2

```
ns3@ns3-virtual-machine:~$ lscpu
Architecture:          x86_64
CPU op-mode(s):        32-bit, 64-bit
Byte Order:             Little Endian
CPU(s):                 2
On-line CPU(s) list:   0,1
Thread(s) per core:    1
Core(s) per socket:    1
Socket(s):              2
NUMA node(s):          1
Vendor ID:              GenuineIntel
CPU family:             6
Model:                  183
Model name:             13th Gen Intel(R) Core(TM) i7-13700
Stepping:               1
CPU MHz:                2112.003
BogoMIPS:               4224.00
Hypervisor vendor:     VMware
Virtualization type:    full
L1d cache:              48K
L1i cache:              32K
L2 cache:               2048K
L3 cache:               30720K
NUMA node0 CPU(s):     0,1
Flags:                  fpu vme de pse tsc msr pae mce cx8 apic s
nonstop_tsc cpuid pni pclmulqdq ssse3 fma cx16 pcid sse4_1 ss
lear flush_l1d arch_capabilities
ns3@ns3-virtual-machine:~$
```

Cmd-3

```
ns3@ns3-virtual-machine:~$ uname -r
4.15.0-88-generic
ns3@ns3-virtual-machine:~$
```

Cmd-4

```
ns3@ns3-virtual-machine:~$ date
سپ 26 14:45:51 PKT 2024
ns3@ns3-virtual-machine:~$
```

Cmd-5

```
ns3@ns3-virtual-machine:~$ sudo date -s "2025-01-01 11:34:00"
سپ 1 11:34:00 PKT 2025
ns3@ns3-virtual-machine:~$
```

Cmd-6

```
ns3@ns3-virtual-machine:~$ ls
123      Documents  examples.desktop  google-chrome-stable_current_amd64.deb.
Desktop  Downloads  google-chrome-stable_current_amd64.deb  Music
ns3@ns3-virtual-machine:~$ ls -l
total 123332
drwxr-xr-x  2 ns3 ns3      4096 سپ  2  2021 123
drwxr-xr-x 11 ns3 ns3      4096 سپ 19 15:06 Desktop
drwxr-xr-x  2 ns3 ns3      4096 سپ 17 2017 Documents
drwxr-xr-x  2 ns3 ns3      4096 سپ 20 2017 Downloads
-rw-r--r--  1 ns3 ns3      8980 سپ 16 2017 examples.desktop
-rw-rw-r--  1 ns3 ns3 63111826 سپ 22 2020 google-chrome-stable_current_amd64.deb
-rw-r--r--  1 ns3 ns3 63111826 سپ 22 2020 google-chrome-stable_current_amd64.deb.1
drwxr-xr-x  2 ns3 ns3      4096 سپ 17 2017 Music
drwxr-xr-x  2 ns3 ns3      4096 سپ 17 2017 Pictures
drwxr-xr-x  2 ns3 ns3      4096 سپ 17 2017 Public
-rwxr--r--  1 ns3 ns3      438 نوچ 21 2022 Q3.sh
-rw-r--r--  1 ns3 ns3      408 نوچ 21 2022 Q4_part2.sh
-----w--w- 1 ns3 ns3      428 نوچ 21 2022 Q4.sh
drwxr-xr-x  2 ns3 ns3      4096 سپ 17 2017 Templates
drwxr-xr-x  2 ns3 ns3      4096 سپ 17 2017 Videos
ns3@ns3-virtual-machine:~$
```

Cmd-7

```
ns3@ns3-virtual-machine:~$ ls -a
.          .bash_logout  .compiz  Documents
..         .bash_profile  .config  Downloads
123        .bashrc       .dbus    examples.desktop
.bash_history .cache       Desktop  .gconf
ns3@ns3-virtual-machine:~$
```

Cmd-8

```
ns3@ns3-virtual-machine:~$ ls *[0-9]*
google-chrome-stable_current_amd64.deb  google-chrome-stable_current_amd64.deb.1  Q3.sh  Q4_part2.sh  Q4.sh
123:
ns3@ns3-virtual-machine:~$
```

Cmd-9

```
ns3@ns3-virtual-machine:~$ mkdir dir1
ns3@ns3-virtual-machine:~$ ls
123      dir1      Downloads      google-chrome-stable_current_amd64.de
Desktop  Documents  examples.desktop  google-chrome-stable_current_amd64.de
ns3@ns3-virtual-machine:~$
```

Cmd-10

```
ns3@ns3-virtual-machine:~$ mkdir dir2 dir3
ns3@ns3-virtual-machine:~$ ls
123      dir1  dir3      Downloads      google-chrome-
Desktop  dir2  Documents examples.desktop google-chrome-
ns3@ns3-virtual-machine:~$
```

Cmd-11

```
ns3-virtual-machine: ~
ns3@ns3-virtual-machine:~$ pwd
/home/ns3
ns3@ns3-virtual-machine:~$
```

Cmd-12

```
ns3-virtual-machine: ~
ns3@ns3-virtual-machine:~$ ls
123      dir1  dir3      Downloads      file1
Desktop  dir2  Documents examples.desktop google-chrome-stable_current_amd64.deb
ns3@ns3-virtual-machine:~$ rm file1
ns3@ns3-virtual-machine:~$ ls
123      dir1  dir3      Downloads      google-chrome-stable_current_amd64.deb
Desktop  dir2  Documents examples.desktop google-chrome-stable_current_amd64.deb.1
ns3@ns3-virtual-machine:~$
```

Cmd-13

```
ns3@ns3-virtual-machine:~$ rm -rf dir1
ns3@ns3-virtual-machine:~$ ls
123      dir2  Documents examples.desktop
Desktop  dir3  Downloads google-chrome-stable_current_amd64.deb
ns3@ns3-virtual-machine:~$
```

Cmd-14

```
ns3-virtual-machine: ~  
ns3@ns3-virtual-machine:~$ ls  
123      dir1  dir3    Downloads  google-chrome-stable_current_amd64.deb  
Desktop  dir2  Documents  examples.desktop  google-chrome-stable_current_amd64.deb  
ns3@ns3-virtual-machine:~$ rm dir1  
rm: cannot remove 'dir1': Is a directory  
ns3@ns3-virtual-machine:~$ rm -r dir1  
ns3@ns3-virtual-machine:~$ ls  
123      dir2  Documents  examples.desktop  google-chrome-stable_current_amd64.deb  
Desktop  dir3  Downloads  google-chrome-stable_current_amd64.deb  
ns3@ns3-virtual-machine:~$
```

Cmd-15

```
ns3@ns3-virtual-machine:~$ touch -t 2301011536 dir2  
drwxr-xr-x  2 ns3 ns3      4096 Jan  1  2023 dir2
```

Cmd-16

```
ns3@ns3-virtual-machine:~$ mkdir LABS  
ns3@ns3-virtual-machine:~$ ls  
123      dir2  Documents  examples.desktop  google-chrome-stable_current_amd64.deb.1  
Desktop  dir3  Downloads  google-chrome-stable_current_amd64.deb  LABS  
ns3@ns3-virtual-machine:~$ cd LABS/  
ns3@ns3-virtual-machine:~/LABS$
```

Cmd-17

```
ns3@ns3-virtual-machine:~/LABS$ touch file1
ns3@ns3-virtual-machine:~/LABS$ echo "Lab-01-OS" > file1
ns3@ns3-virtual-machine:~/LABS$ cat file1
Lab-01-OS
ns3@ns3-virtual-machine:~/LABS$ cp file1 file2
ns3@ns3-virtual-machine:~/LABS$ ls
file1 file2
ns3@ns3-virtual-machine:~/LABS$
```

Cmd-18

```
ns3@ns3-virtual-machine:~/LABS$ mv file2 thefile
ns3@ns3-virtual-machine:~/LABS$ ls
thefile
ns3@ns3-virtual-machine:~/LABS$
```

Cmd-19

```
ns3@ns3-virtual-machine:~/LABS$ echo "New Line added" > thefile
ns3@ns3-virtual-machine:~/LABS$ wc thefile
1 3 15 thefile
ns3@ns3-virtual-machine:~/LABS$ cat thefile
New Line added
ns3@ns3-virtual-machine:~/LABS$
```