

SOS for Linux

Ye Kyaw Thu

@Deep Learning Summer School 2018, Myanmar

Your problem is as follows:

Using Windows OS

&

want to practice linux commands immediately



Yes, you can!

How can I practice Linux/Unix commands online?

Check following links:

1. Coding Ground Terminal:

https://www.tutorialspoint.com/unix_terminal_online.php

2. Copy.sh Terminal

<http://copy.sh/v86/?profile=linux26>

3. JsUix Terminal:

<https://bellard.org/jslinux/>

How can I practice Linux/Unix commands online?

Check following links:

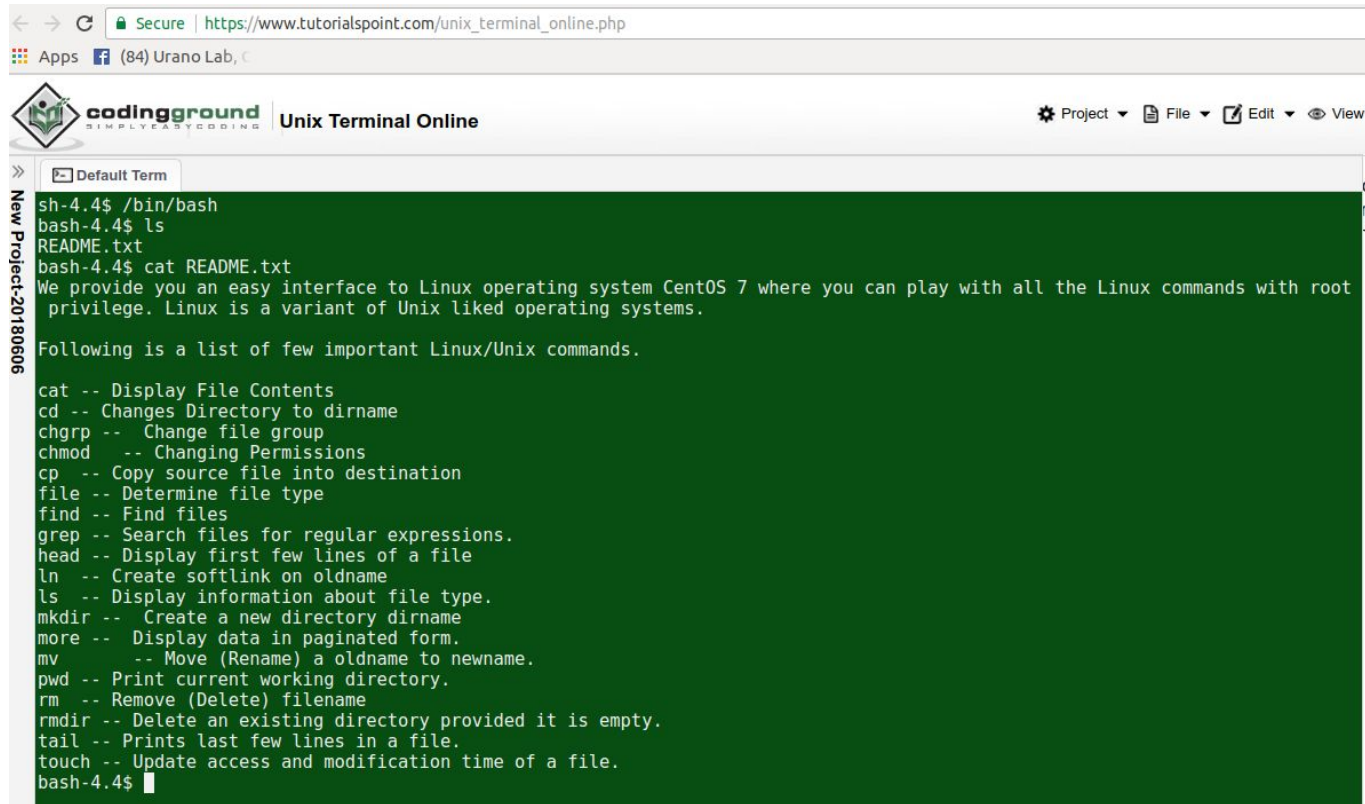
4. CB.VU

<http://cb.vu>

5. Webminal

<http://www.webminal.org/>

1. Coding Ground Terminal:



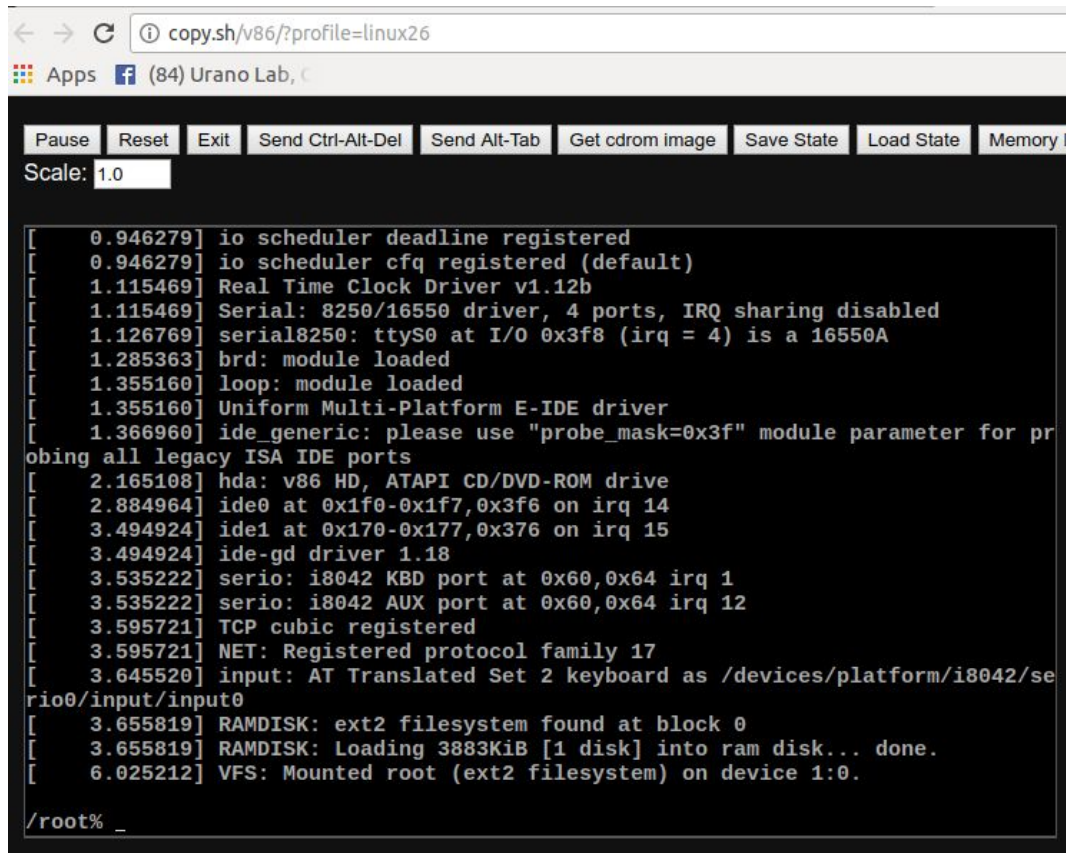
```
sh-4.4$ /bin/bash
bash-4.4$ ls
README.txt
bash-4.4$ cat README.txt
We provide you an easy interface to Linux operating system CentOS 7 where you can play with all the Linux commands with root
privilege. Linux is a variant of Unix liked operating systems.

Following is a list of few important Linux/Unix commands.

cat -- Display File Contents
cd -- Changes Directory to dirname
chgrp -- Change file group
chmod -- Changing Permissions
cp -- Copy source file into destination
file -- Determine file type
find -- Find files
grep -- Search files for regular expressions.
head -- Display first few lines of a file
ln -- Create softlink on oldname
ls -- Display information about file type.
mkdir -- Create a new directory dirname
more -- Display data in paginated form.
mv -- Move (Rename) a oldname to newname.
pwd -- Print current working directory.
rm -- Remove (Delete) filename
rmdir -- Delete an existing directory provided it is empty.
tail -- Prints last few lines in a file.
touch -- Update access and modification time of a file.
bash-4.4$
```

- Fast
- One of the Linux distribution CentOS Terminal
- Not only Linux but also support other programming IDEs such as Node.js, PHP, Lua, Ruby ...

2. Copy.sh Terminal:



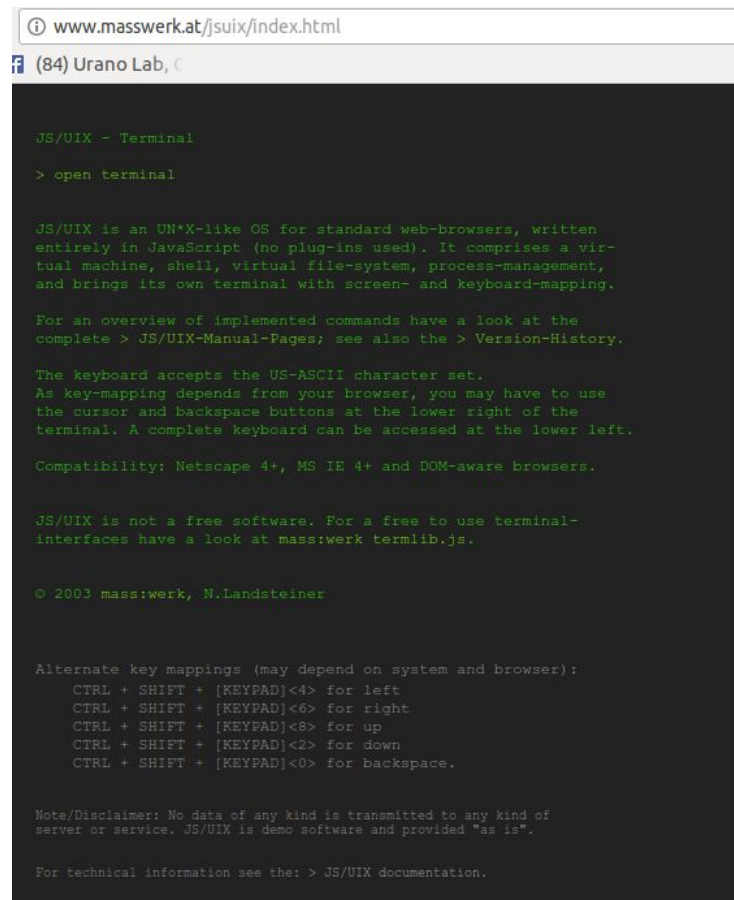
The screenshot shows a web browser window with the address bar displaying 'copy.sh/v86/?profile=linux26'. Below the address bar, there's a toolbar with buttons: 'Pause', 'Reset', 'Exit', 'Send Ctrl-Alt-Del', 'Send Alt-Tab', 'Get cdrom image', 'Save State', 'Load State', and 'Memory'. A 'Scale: 1.0' input field is also present. The main area is a terminal window with a black background and white text. The terminal output shows the following lines:

```
[ 0.946279] io scheduler deadline registered
[ 0.946279] io scheduler cfq registered (default)
[ 1.115469] Real Time Clock Driver v1.12b
[ 1.115469] Serial: 8250/16550 driver, 4 ports, IRQ sharing disabled
[ 1.126769] serial8250: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
[ 1.285363] brd: module loaded
[ 1.355160] loop: module loaded
[ 1.355160] Uniform Multi-Platform E-IDE driver
[ 1.366960] ide_generic: please use "probe_mask=0x3f" module parameter for probing all legacy ISA IDE ports
[ 2.165108] hda: v86 HD, ATAPI CD/DVD-ROM drive
[ 2.884964] ide0 at 0x1f0-0x1f7,0x3f6 on irq 14
[ 3.494924] ide1 at 0x170-0x177,0x376 on irq 15
[ 3.494924] ide-gd driver 1.18
[ 3.535222] serio: i8042 KBD port at 0x60,0x64 irq 1
[ 3.535222] serio: i8042 AUX port at 0x60,0x64 irq 12
[ 3.595721] TCP cubic registered
[ 3.595721] NET: Registered protocol family 17
[ 3.645520] input: AT Translated Set 2 keyboard as /devices/platform/i8042/serio0/input/input0
[ 3.655819] RAMDISK: ext2 filesystem found at block 0
[ 3.655819] RAMDISK: Loading 3883KiB [1 disk] into ram disk... done.
[ 6.025212] VFS: Mounted root (ext2 filesystem) on device 1:0.

/root% _
```

- You have to wait system loading for a while (Less than 1 minute)
- Try “Go fullscreen”
- Try “Take screenshot” when you need

3. JS/UIX Terminal:



```
JS/UIX - Terminal
> open terminal

JS/UIX is an UN*X-like OS for standard web-browsers, written
entirely in JavaScript (no plug-ins used). It comprises a vir-
tual machine, shell, virtual file-system, process-management,
and brings its own terminal with screen- and keyboard-mapping.

For an overview of implemented commands have a look at the
complete > JS/UIX-Manual-Pages; see also the > Version-History.

The keyboard accepts the US-ASCII character set.
As key-mapping depends from your browser, you may have to use
the cursor and backspace buttons at the lower right of the
terminal. A complete keyboard can be accessed at the lower left.

Compatibility: Netscape 4+, MS IE 4+ and DOM-aware browsers.

JS/UIX is not a free software. For a free to use terminal-
interfaces have a look at mass:werk termLib.js.

© 2003 mass:werk, N.Landsteiner

Alternate key mappings (may depend on system and browser):
CTRL + SHIFT + [KEYPAD]<4> for left
CTRL + SHIFT + [KEYPAD]<6> for right
CTRL + SHIFT + [KEYPAD]<8> for up
CTRL + SHIFT + [KEYPAD]<2> for down
CTRL + SHIFT + [KEYPAD]<0> for backspace.

Note/Disclaimer: No data of any kind is transmitted to any kind of
server or service. JS/UIX is demo software and provided "as is".

For technical information see the: > JS/UIX documentation.
```

- Click
> open terminal

3. JS/UIX Terminal:

```
JS/UIX 0.49  starting up [init] ...

terminal (dhtml-gui) ready.
bringing up the file-system ...      ok
re-entering file-system as root.
building tree ...                    ok
trying for RC-file ...               found
rc-profile looks good.
initializing rc-profile ...          ok
re-entering tree for command-system ... ok
setting up system variables ...      ok
system up and stable.
starting login-demon.

JS/UIX:Log-on - type user-name (e.g. "guest") and hit <return>.

login:
```

SHOW KEYBOARD ▾

←... →... ⌫ <ESC>

- You might need to use “zoom in”, “zoom out” of your browser
- On/Off “SHOW KEYBOARD”

4. CB.VU Terminal:

```
← → ↻ | ① cb.vu
Apps (84) Urano Lab, C
Last login: Thu Jun 07 2018 09:24:48 GMT+0900 (JST) from 74.50.213.118
FreeBSD 7.1-STABLE (CB.VU) #3: Thu Jun 07 2018 09:25:58 GMT+0900 (JST)

---- Welcome to cb.vu ---- (start with "help" if you are lost)

[www@cb.vu]~> whoami
www
[www@cb.vu]~> ls
about.txt          bugs.txt           cb.txt
exploring.gif      favicon.ico        index.html
shell.js           sitemap.xml        termlib.js
termlib_invaders.js  termlib_parser.js  unixtoolbox.book.pdf
unixtoolbox.book2.pdf  unixtoolbox.pdf    unixtoolbox.txt
unixtoolbox.xhtml
[www@cb.vu]~> whatis ping
ping a host, or yourself when no argument is given
[www@cb.vu]~> whatis man
man: nothing appropriate
[www@cb.vu]~> whatis info
display the info message with credentials
[www@cb.vu]~> ping www.google.com
PING www.google.com (216.58.209.228): 56 data bytes
64 bytes from 216.58.209.228: icmp_seq=0 ttl=55 time=4.045 ms
64 bytes from 216.58.209.228: icmp_seq=1 ttl=55 time=4.045 ms

--- www.google.com ping statistics ---
2 packets transmitted, 2 packets received, 0.0 packet loss
round-trip min/avg/max/stddev = 4.045/4.045/4.045/0.000 ms
[www@cb.vu]~>
```

- > uname -a
FreeBSD cb.vu 7.1-STABLE
FreeBSD 7.1-STABLE #2: Wed
Jan 30 16:21:05 CET 2009
c@cb.vu:/usr/obj/usr/src/sys/
CB
i386

5. Webminal:

[Webminal]

[Home](#) [Register](#) [Log In](#) [Terminal](#) [Team](#) [About](#) [FAQ](#)

Welcome to Webminal, the free GNU/Linux Online Terminal

We provide an unique free online learning platform where you can learn about Linux, practise, play with Linux and interact with other Linux users.

Using webminal, you can practise Linux commands, write bash scripts, create and access MySQL tables, Learn Python programming and perform root user tasks (with sudo feature). With the help of 'Webminal Play' feature, you can watch screencasts (instead of reading docs) and practise too.

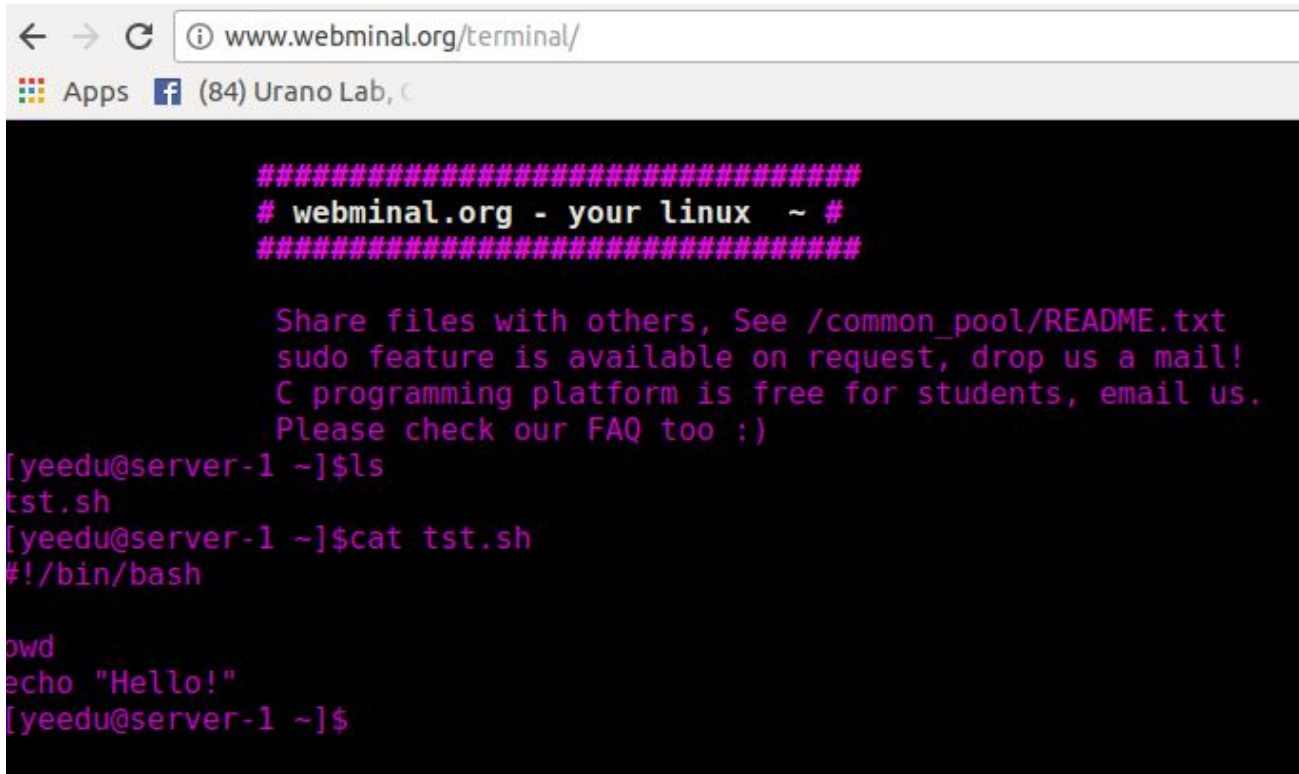
Fast Facts!

More than **100000** users from **125** different countries practised more than **6.57** **Million** commands To be precise its **6578203** commands executed!!! Webminal

also helped Professors and Students from **117** universities around the world to learn Linux in their classrooms. (Last Update: May 11, 2018)

- You have to Register
- You will get “Webminal Account Verification email”
- Click the link for account confirmation
- After that click the “_Terminal” menu for using Webminal

5. Webminal:



The screenshot shows a web browser window with the address bar displaying `www.webminal.org/terminal/`. The browser's address bar also shows navigation icons (back, forward, refresh) and a search icon. Below the address bar, there are social media icons for 'Apps' and Facebook, along with the text '(84) Urano Lab, C'. The main content area of the browser is a black terminal window with pink text. The terminal output is as follows:

```
#####  
# webminal.org - your linux ~ #  
#####  
  
Share files with others, See /common_pool/README.txt  
sudo feature is available on request, drop us a mail!  
C programming platform is free for students, email us.  
Please check our FAQ too :)  
[yeedu@server-1 ~]$ls  
tst.sh  
[yeedu@server-1 ~]$cat tst.sh  
#!/bin/bash  
  
pwd  
echo "Hello!"  
[yeedu@server-1 ~]$
```

- You have to login with your “user name” and “password”
- Good point is **you can save your files**

Enjoy Linux!

*** But I suggest you to install Linux on your notebook or PC for your research works and future carrier

References:

- <https://geekflare.com/run-linux-from-a-web-browser/>
- <https://www.quora.com/How-can-I-practice-Unix-commands-online>