Linux System Administration v9

Explore Now

Summer Internship Tasks

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- * Output of a command should be spoken from the speaker also .
- * Send Email from Linux Terminal.
- * Send SMS using terminal.
- * Use linux as a zoom server .
- * To make a post in telegram,instagram,facebook, discord from the linux terminal
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- * Run Windows softwares e.g notepad in linux .
- * Sync two different folders in linux . It should ask the user which folders to sync.
- * On your cmd you print something and it will be converted to ascii art.

1.Send Whatsapp Message using terminal

In this article, we will explore how to send WhatsApp messages directly from the command line using Node.js and Mudslide.

Step 1: Installing Node.js:

To install Node.js, follow these commands in your terminal:

```
$ curl -fsSL https://rpm.nodesource.com/setup_19.x | sudo bash - $ sudo yum install -y nodejs
```

\$ sudo yum groupinstall 'Development Tools'

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Step 2: Installing Mudslide:

Mudslide is a powerful command-line tool that enables interaction with WhatsApp directly from your terminal.

\$ npm install -g mudslide

```
required: { node: '>=18' },
                      current: { node: 'v16.20.2', npm: '8.19.4' }
                      required: { node: '>=18' },
                     current: { node: 'v16.20.2', npm: '8.19.4' }
changed 154 packages, and audited 155 packages in 27s
30 packages are looking for funding
 run `npm fund` for details
found 0 vulnerabilities
```

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Step 3: Logging in to WhatsApp:

To utilize Mudslide, you need to log in to your WhatsApp account through the command line.

\$ npx mudslide login



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Step 4: Sending WhatsApp Messages:

Now that you've successfully logged in, you can start sending WhatsApp messages directly from your terminal using Mudslide.

\$ npx mudslide send me 'Hello Linux Worls'

```
[root@localhost ~]# npx mudslide send me 'Hello khemraj'

awaiting Sending message: "Hello khemraj" to: 919356456823@s.whatsapp.net

success Done

awaiting Closing WA connection, waiting for 3 second(s)...

Please star Mudslide on GitHub! https://github.com/robvanderleek/mudslide

[root@localhost ~]# npx mudslide send 7057173707 'Hello khemraj'

awaiting Sending message: "Hello khemraj" to: 7057173707@s.whatsapp.net

success Done

awaiting Closing WA connection, waiting for 3 second(s)...

Please star Mudslide on GitHub! https://github.com/robvanderleek/mudslide

[root@localhost ~]#
```

2.Send SMS using terminall

For programmatically sending SMS messages, Twilio is a popular service. Start by installing the Twilio Python library

pip install twilio

Create a Python script to send an SMS directly from your terminal using Mudslide.

```
from twilio.rest import Client

account_sid = 'your_account_sid'
auth_token = 'your_auth_token'
client = Client(account_sid, auth_token)message =
client.messages.create(
   body="Your SMS message here",
   from_="your_twilio_phone_number",
   to="recipient_phone_number"
)print(message.sid)
```

```
[root@localhost ~]# yum install twilio
Updating Subscription Management repositories.
Last metadata expiration check: 20:07:20 ago on Saturday 24 August 2024 05:07:08 PM.

No match for argument: twilio
Error: Unable to find a match: twilio
[root@localhost ~]# pip install twilio

Downloading twilio-9.2.3-py2.py3-none-any.whl (1.8 MB)

Downloading aiohttp>=3.8.4

Downloading aiohttp>=3.8.4

Downloading aiohttp-3.10.5-cp39-cp39-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (1.2 MB)

1.2 MB 1.6 MB/s

Collecting aiohttp-retry>=2.8.3

Downloading aiohttp-retry>=2.8.3-py3-none-any.whl (9.8 kB)

Collecting PyJWT<3.0.0,>=2.0.0

Downloading PyJWT-2.9.0-py3-none-any.whl (22 kB)

Requirement already satisfied: requests>=2.0.0 in /usr/lib/python3.9/site-packages (from twilio) (2.25.1)

Collecting attrs>=17.3.0

Downloading aiohappyeyeballs>=2.3.0

Downloading aiohappyeyeballs>=2.3.0

Downloading aiohappyeyeballs>=2.3.0

Downloading aiohappyeyeballs>=2.3.0

Downloading aiohappyeyeballs>=2.4.0-py3-none-any.whl (12 kB)

Collecting yarl<2.0.>=1.0
```

3.Send Email from Linux Terminal

The mail command is a simple yet effective way to send emails right from the terminal. If you don't have it installed, you can do so with

sudo yum install mailx

Compose an email and send it using the following syntax:

echo "This is the body of the email" | mail -s "Subject" recipient@example.com

```
ast metadata expiration check: 20:07:20 ago on Saturday 24 August 2024 05:07:08 PM
Downloading twilio-9.2.3-py2.py3-none-any.whl (1.8 MB)
Downloading aiohttp-3.10.5-cp39-cp39-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (1.2 MB)
                                      1.2 MB 1.6 MB/s
Downloading aiohttp_retry-2.8.3-py3-none-any.whl (9.8 kB)
collecting PyJWT<3.0.0,>=2.0.0
Downloading PyJWT-2.9.0-py3-none-any.whl (22 kB)
equirement already satisfied: requests>=2.0.0 in /usr/lib/python3.9/site-packages (from twilio) (2.25.1)
Downloading attrs-24.2.0-py3-none-any.whl (63 kB)
                                       63 kB 1.5 MB/s
Downloading aiohappyeyeballs-2.4.0-py3-none-any.whl (12 kB)
```

4.On your cmd you print something and it will be converted to ascii art

Installing Figlet
First, you need to install Figlet. Depending on your Linux distribution, you can use one of the following commands:

\$:sudo yum install figlet \$:figlet "Hello World"

ASCII into text file \$:figlet "Hello World" > hello.txt



5.Sync two different folders in linux . It should ask the user which folders to sync

I have recently came across a request/challenge to setup a two-way sync with as less voodoo as possible

Step 1: ssh passwordless access

Lsyncd requires rsync to work without user intervention.

\$> ssh webdev@193.92.100.2

Login to server WebApp1 and on the command prompt issue:

\$> ssh-keygen -t rsa

\$> ssh-copy-id webdev@193.92.100.2

\$> service sshd status -l

\$> sudo ssh webdev@193.92.100.2

\$> sudo ssh-keygen -t rsa

\$> sudo ssh-copy-id webdev@193.92.100.2

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I have recently came across a request/challenge to setup a two-way sync with as less voodoo as possible

Step 2: Setup folders and folder structure

- the replication (project)folder.
- For example: /var/www/html/mysite/
- the rsync temporary files folder. For example: /home/webdev/mysite/rsync_temp/

Step 3: Install lsyncd and its log and status files

This is quite straightforward. Use yum to install lsyncd: Once done, do not start the service, as it requires a few more steps

\$> sudo yum install lsyncd

Once done, do not start the service, as it requires a few more steps prior to starting it.

\$> sudo touch /var/log/lsyncd/lsyncd.{log,status}

6.Google search from terminal.

Have you wondered about searching Google directly from the terminal?

In this article, I will be showing you an easy and simple way to Google Search directly from the terminal.

Step 1: Install the glook first

\$> npm i -g glook

Step 1: Search on google

\$> glook search

```
[root@localhost ~]# npx mudslide send me 'Hello khemraj'

__awaiting Sending message: "Hello khemraj" to: 919356456823@s.whatsapp.net

/ success Done

__awaiting Closing WA connection, waiting for 3 second(s)...

↑ Please star Mudslide on GitHub! https://github.com/robvanderleek/mudslide

[root@localhost ~]# npx mudslide send 7057173707 'Hello khemraj'

__awaiting Sending message: "Hello khemraj" to: 7057173707@s.whatsapp.net

/ success Done

__awaiting Closing WA connection, waiting for 3 second(s)...

↑ Please star Mudslide on GitHub! https://github.com/robvanderleek/mudslide

[root@localhost ~]# ■
```

7.Run Windows softwares e.g notepad in linux

want to run Windows applications like Notepad on a Linux system

1. Install Wine:

- Open your terminal and run the following sudo dnf install wine
- For Ubuntu or Debian-based systems, you would use:
- o sudo apt install wine

0

1. Run the Application:

o wine notepad.exe

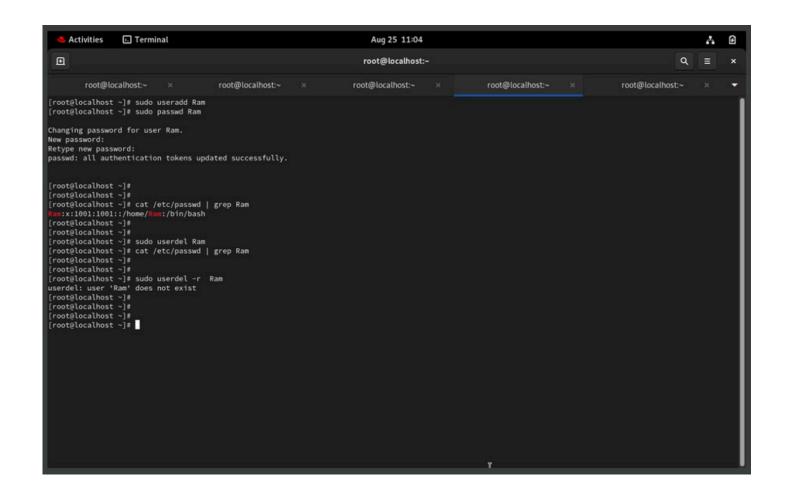
```
### mingw64-libsystem-148-3.el9.noarch
### mingw64-libsys
```

8.To create user and set password

- 1. Create a user
- 2. The simple format for this command is useradd [options] USERNAME.
- 3. For example useradd test (as the root user prefix with sudo if you are not logged in as root).

PassWord

- You then add a password for the test user by using the passwd command: passwd test. This will prompt you to enter a password for the user.
- There is an option for adding an encrypted password via the -p option on useradd, but this is not recommended for security purposes.



9.Use linux as a zoom server

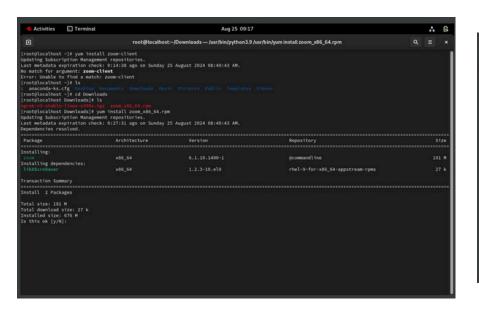
To use Linux as a Zoom server, you can set up a selfhosted version of Zoom.

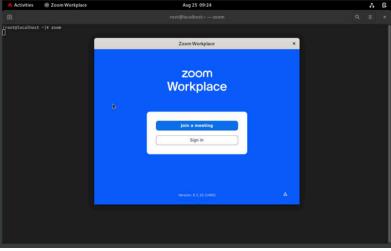
step 1: Install the zoom-client file

- yum install zoom-client
- cd downloads
- yum install zoom.x86.64.rpm

Step 2: Open zoom

zoom





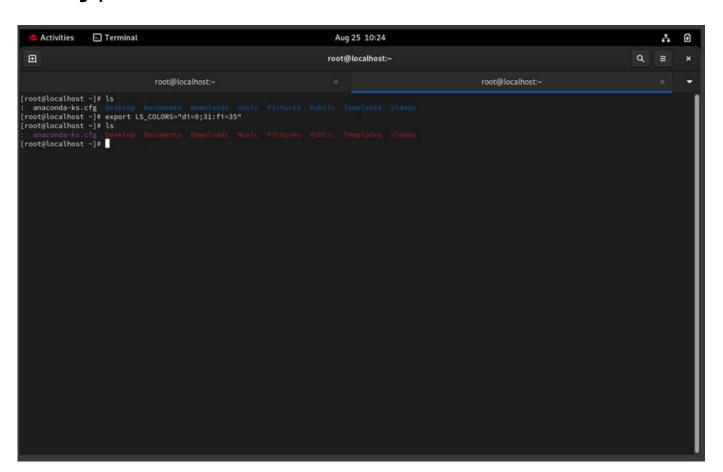
10.Change the color of files and folder in linux

Customizing the colors of files and folders in Linux can enhance your terminal experience and help you quickly identify different file types.

Cmd: \$ls

Cmd: \$export LS_COLORS="di=0; 31:fi=35"

Cmd: \$ls

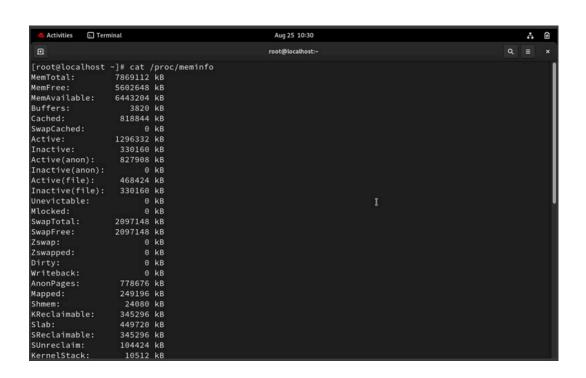


11.Reading the entire RAM

eading the entire RAM (Random Access Memory) on a Linux system can be useful for various purposes, including debugging, forensic analysis

For a quick view of the RAM contents, you can use the cat command, but this will only show a portion of the memory:

Cmd: \$cat/proc/meminfo



12. Running linux in the browser

If you prefer a command-line interface, you can use text-based browsers like Lynx or w3m.

If you prefer a command-line interface, you can use text-based browsers like Lynx or w3m. 1. Install Lynx:

Cmd: \$sudo dnf install lynx

2.Install Lynx:

Cmd: \$lynx https://www.example.com

```
t metadata expiration check: 0:01:22 ago on Sunday 25 August 2024 04:39:37 PM
kage lynx-2.8.9-20.el9.x86_64 is already installed.
```