

Connect Life and Learning

Student Name:	Aagam Sanjay Shah
Deliverable:	In-Class Tasks Week 3 Assignment
Course Name:	NTWK8141-24S-Sec3-Linux Server

Date Assigned:	22/05/2024
Date Due:	23/05/2024
Rules:	 Individual. Cheating is not allowed. Plagiarism counts as cheating! That FAILURE to submit work in the course can result in a grade of 'F' or 'I' for failure to complete the course!

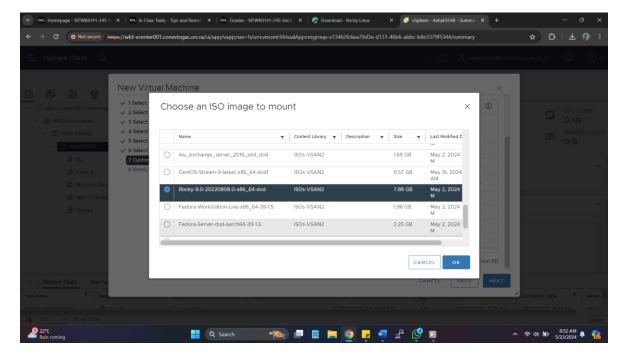
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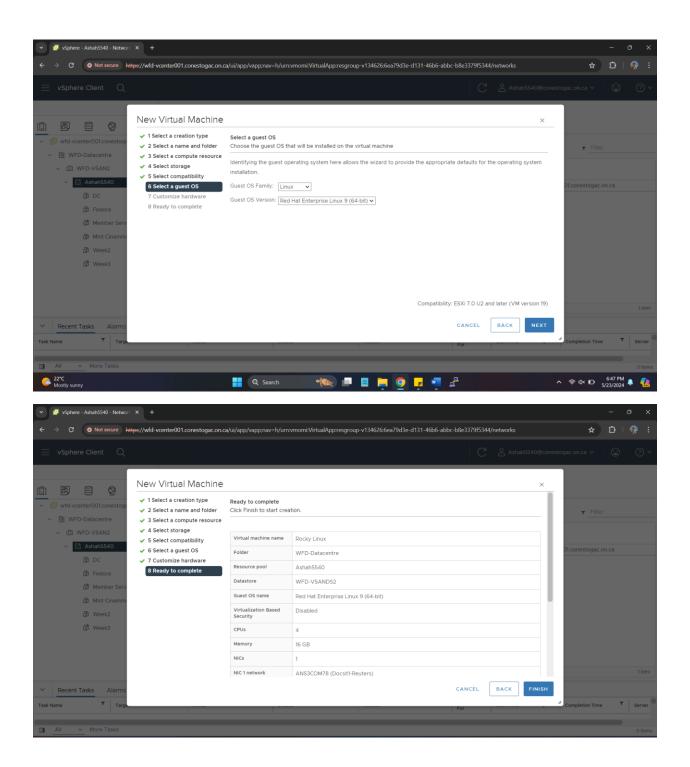
IP address: 172.23.78.13

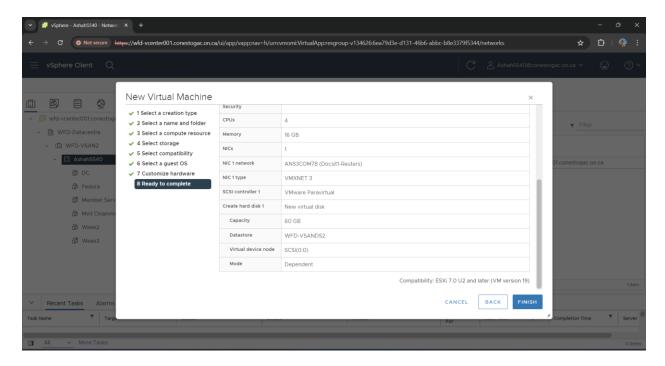
Subnet mask: 255.255.255.0

Gateway: 172.23.78.1

Com Port: ANS3COM78



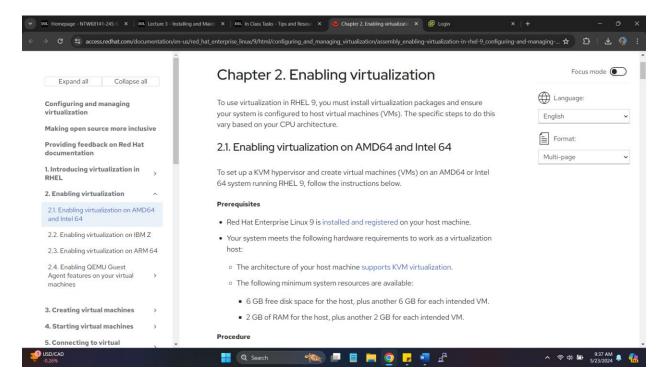




Hardware Requirements

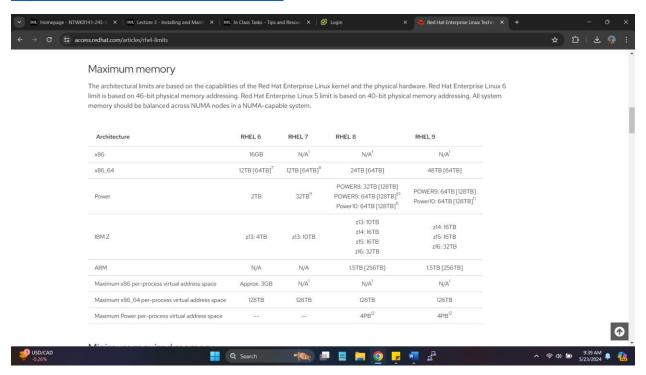
Go to the official websites and find the minimum and recommended hardware requirements for the latest stable releases of following:

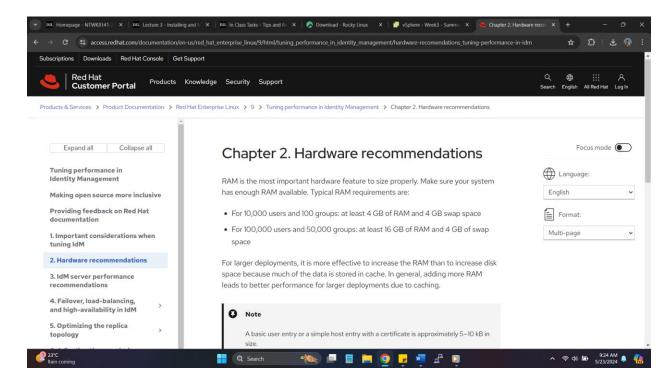
- 1. Red Hat Desktop
- 2. Red Hat headless
- 3. Rocky Linux
- 4. Fedora
- 1. Red Hat Desktop → <a href="https://access.redhat.com/documentation/en-us/red-hat_enterprise_linux/9/html/configuring_and_managing_virtualization/assembly_enabling-virtualization-in-rhel-9_configuring-and-managing-virtualization_assembly_enabling-virtualization



2. Red Hat headless →

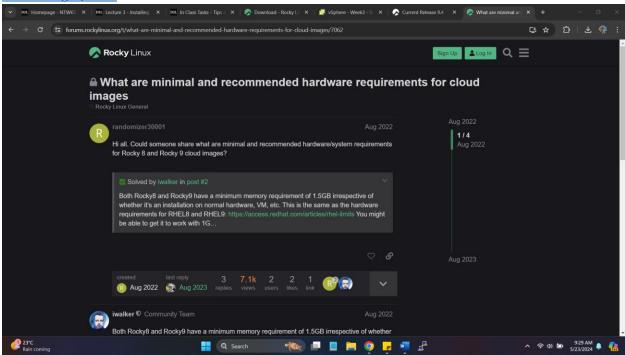
https://access.redhat.com/articles/rhel-limits



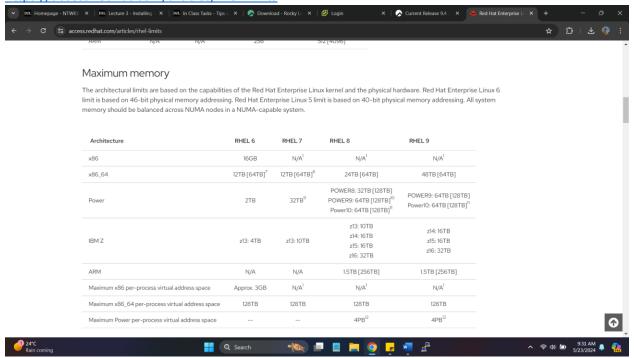


3. Rocky Linux → https://rockylinux.org/

https://forums.rockylinux.org/t/what-are-minimal-and-recommended-hardware-requirements-for-cloud-images/7062

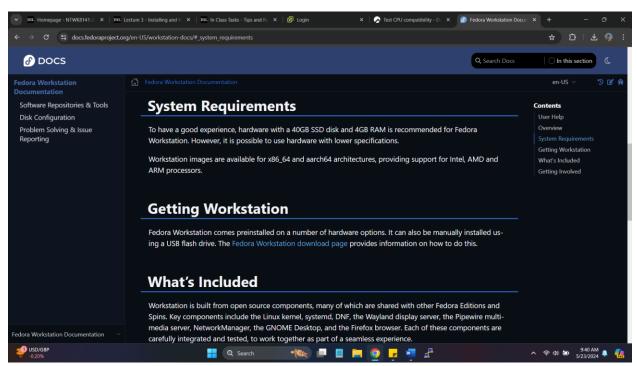


https://access.redhat.com/articles/rhel-limits



4. Fedora → https://fedoraproject.org/

https://docs.fedoraproject.org/en-US/workstation-docs/#_system_requirements



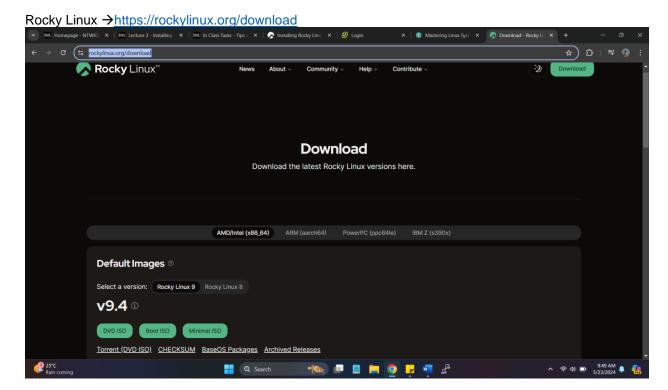
https://docs.fedoraproject.org/en-US/fedora/f39/release-notes/welcome/Hardware Overview/



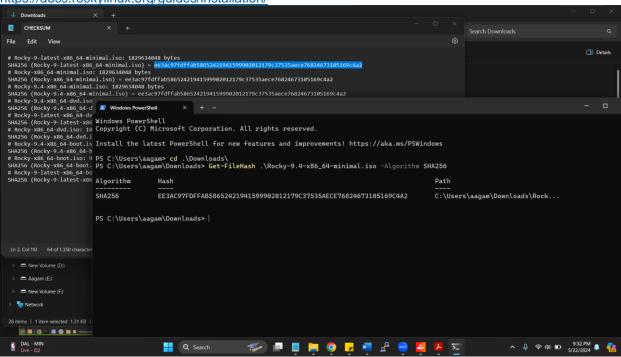
Verifying and installation media download:

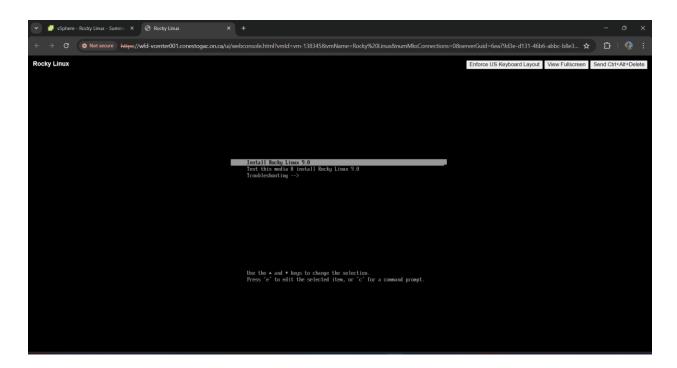
Complete the Real World Scenario: Chapter 2, "Checking the CentOS ISO Image File" for the latest version of CentOS

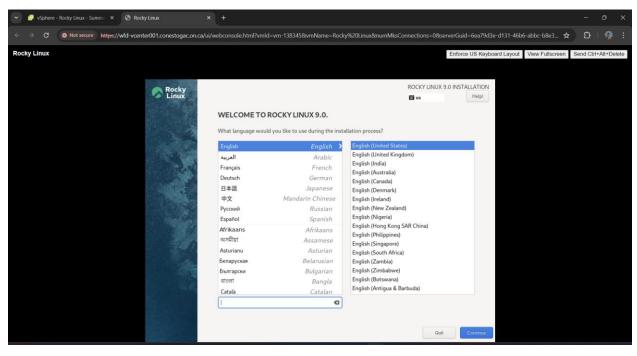
You will need a VM of Linux Mint, Windows 10 or another OS with SHA256 hash capability.

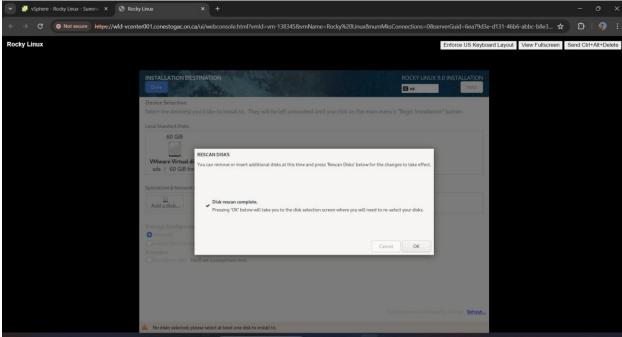


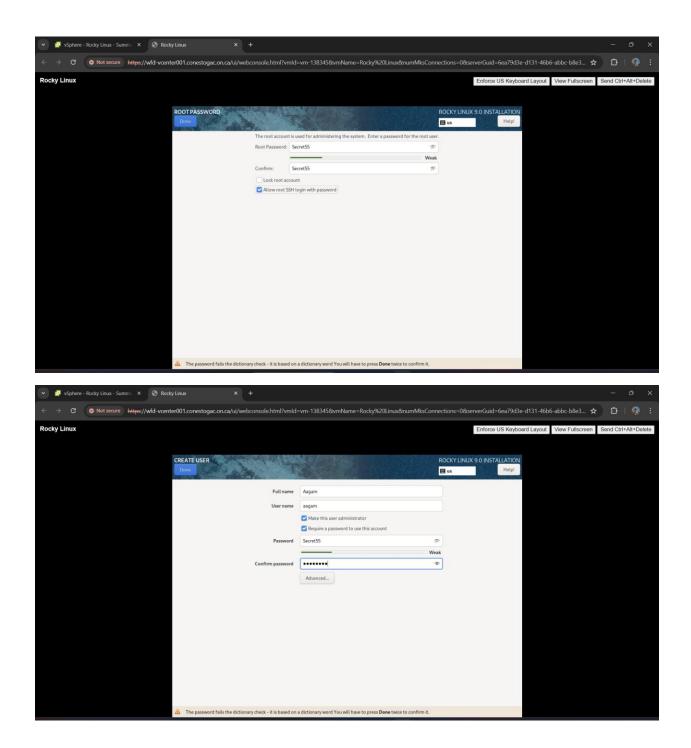
https://docs.rockylinux.org/guides/installation/

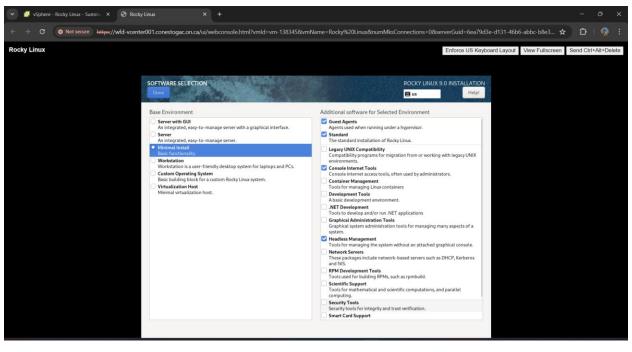


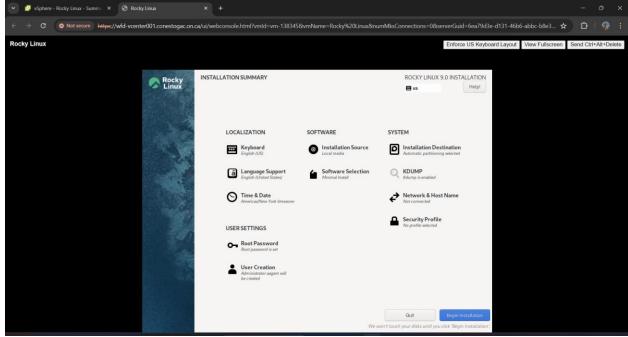


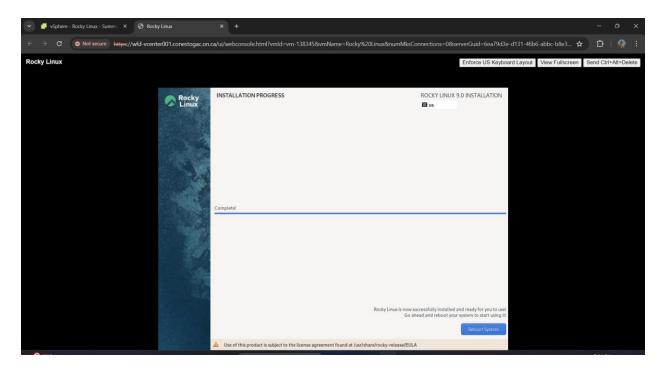






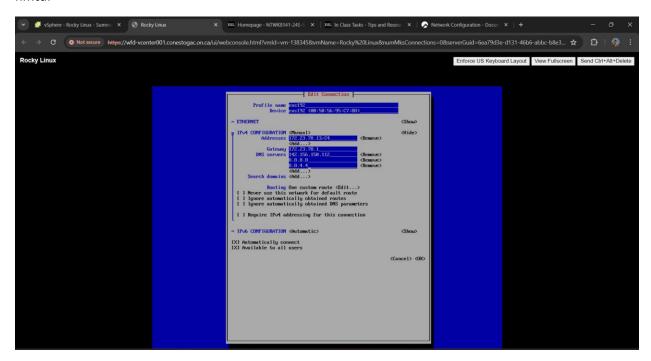






/etc/NetworkManager/system-connections/enp192.nmconnection

nmtui

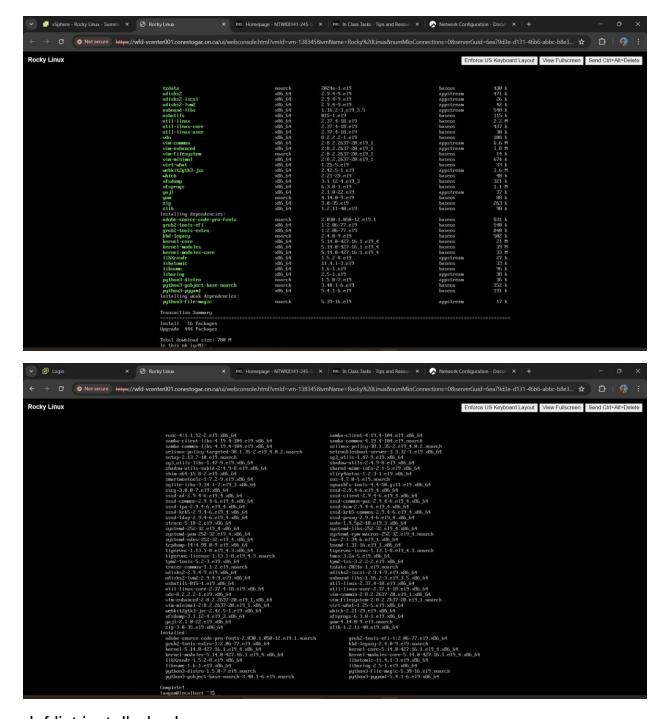


In-Class Task: dnf

- Complete Ch 5 Real World Scenario
- "Installing Software Using dnf"

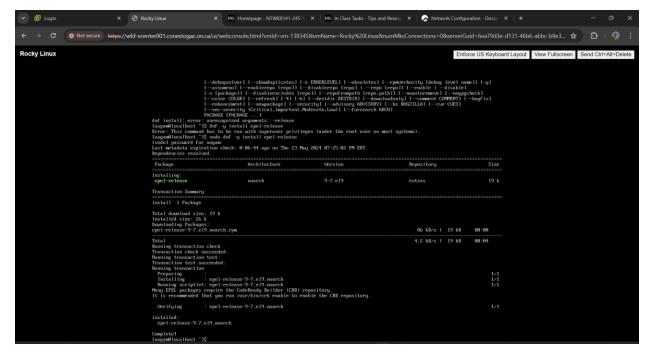
sudo dnf upgrade --refresh

```
| Lagan@localhost ~ 1.25/1.453/1.453/0.077 ms
| Lagan@localhost ~ 1$ sudo dnf upgrade --refresh
```



dnf list installed zsh

Complete Ch 5 Real World Scenario - "Manually Installing RPM Packages" dnf -y install epel-release



dnf makecache

```
      Laagam@localhost ~1$ dnf makecache
      15 MB/s | 21 MB
      00:01

      Extra Packages for Enterprise Linux 9 - x86_64
      15 MB/s | 21 MB
      00:01

      Extra Packages for Enterprise Linux 9 openh264 (From Cisco) - x86_64
      533 B/s | 2.5 kB
      08:04

      Rocky Linux 9 - BaseUS
      448 kB/s | 2.2 MB
      08:05

      Rocky Linux 9 - AppStream
      2.8 MB/s | 7.9 MB
      08:02

      Nocky Linux 9 - Extras
      28 kB/s | 15 kB
      08:08

      Metadata cache created.
      28 kB/s | 15 kB
      08:08
```

sudo dnf --downloadonly --destdir=/tmp/ install htop

```
[aagam@localhost ~1$ sudo dnf --downloadonly --destdir=/tmp/ install htop
Extra Packages for Enterprise Linux 9 - x86_64
Extra Packages for Enterprise Linux 9 openh264 (From Cisco) - x86_64
                                                                                                                                                   4.1 MB/s | 21 MB
4.5 kB/s | 2.5 kB
                                                                                                                                                                                    00:05
                                                                                                                                                                                    00:00
Dependencies resolved.
  Package
                                                  Architecture
                                                                                             Version
                                                                                                                                               Repository
                                                                                                                                                                                           Size
Installing:
                                                  ×86 64
                                                                                                                                               epe l
                                                                                                                                                                                          198 k
htop
Installing dependencies:
                                                                                             3.3.0-1.el9
  hwloc-libs
                                                  ×86_64
                                                                                             2.4.1-5.el9
                                                                                                                                               baseos
                                                                                                                                                                                          2.1 M
Transaction Summary
Install 2 Packages
Total download size: 2.3 M
Installed size: 3.5 M
Installed size: 3.5 M
DNF will only download packages for the transaction.
Is this ok [y/N]: Y
Downloading Packages:
(1/2): hwloc-libs-2.4.1-5.e19.x86_64.rpm
(2/2): htop-3.3.0-1.e19.x86_64.rpm
                                                                                                                                                  1.8 MB/s | 2.1 MB
51 kB/s | 198 kB
                                                                                                                                                                                    00:01
                                                                                                                                                                                    00:03
                                                                                                                                                  561 kB/s | 2.3 MB
1.6 MB/s | 1.6 kB
Total
                                                                                                                                                                                    00:04
Extra Packages for Enterprise Linux 9 - x86_64
Complete!
The downloaded packages were saved in cache until the next successful transaction. You can remove cached packages by executing 'dnf clean packages'. [aagam@localhost~1$
```

```
sudo rpm -i ./hwloc <tab>
sudo rpm -i ./htop <tab>
```

```
You can remove cached packages by executing 'dnf clean packages'.

[aagam@localhost "]$ cd /tmp

[aagam@localhost tmp]$ sudo rpm -i ./hwloc-libs-2.4.1-5.el9.x86_64.rpm

[aagam@localhost tmp]$ sudo rpm -i ./htop-3.3.0-1.el9.x86_64.rpm

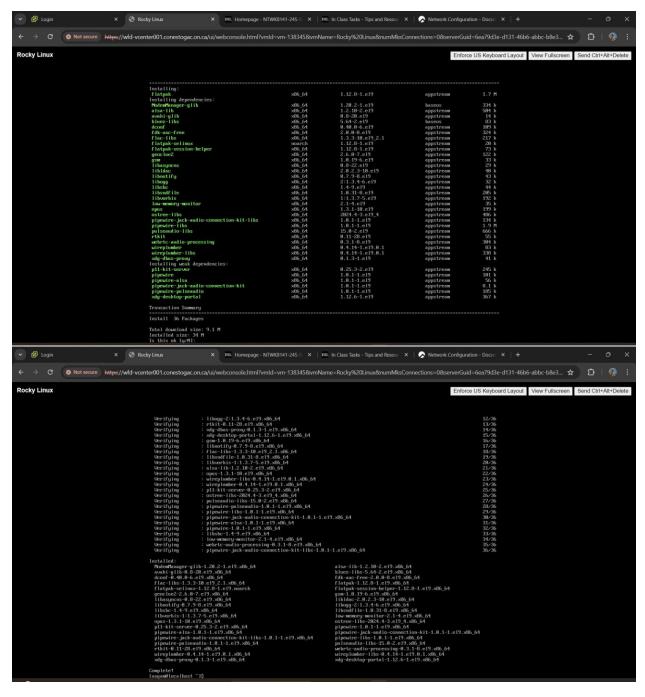
[aagam@localhost tmp]$ _
```

htop

Complete Ch 5 Real World Scenario

- "Installing Flatpak"

sudo dnf install flatpak



flatpak remote-add --if-not-exists --subset=verified flathub-verified
https://flathub.org/repo/flathub.flatpakrepo

```
laagam@localhost ~1$ flatpak remote-add --if-not-exists --subset=verified flatpak-verified https://flathub.org/repo/flathub.flat
pakrepo

Note that the directories

'/var/lib/flatpak/exports/share'
'/home/aagam/.local/share/flatpak/exports/share'

are not in the search path set by the XDG_DATA_DIRS environment variable, so
applications installed by Flatpak may not appear on your desktop until the
session is restarted.

==== AUTHENTICATING FOR org.freedesktop.Flatpak.configure-remote ====
Authentication is required to configure software repositories
Authenticating as: Aagam (aagam)
Password:
==== AUTHENTICATION COMPLETE ====
laagam@localhost ~1$
```

sudo flatpak remotes

```
[aagam@localhost ~1$ sudo flatpak remotes
Name Options
flatpak-verified system
[aagam@localhost ~1$
```

sudo flatpak search mosh