CLASS-1

DOCKER COMMAND'S

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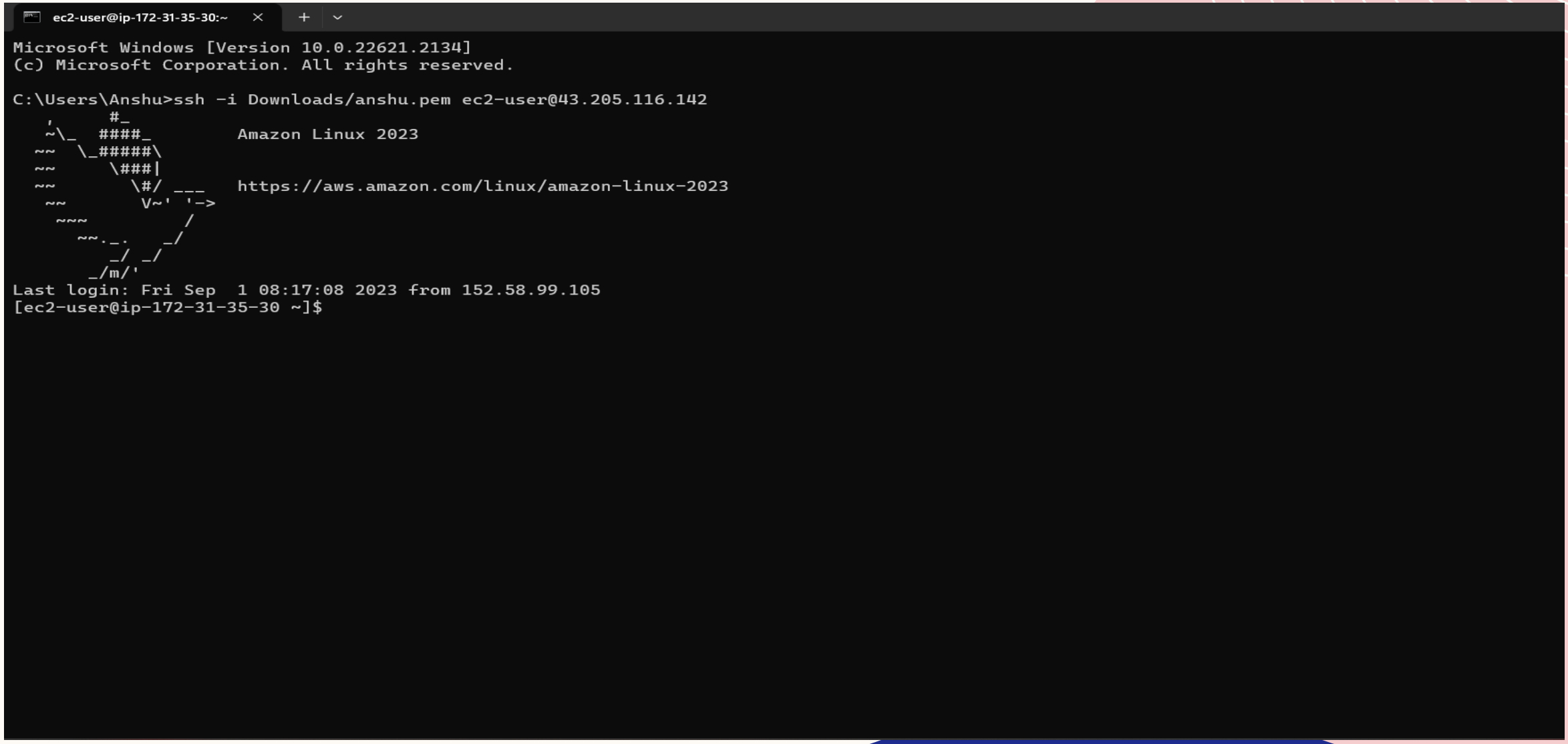
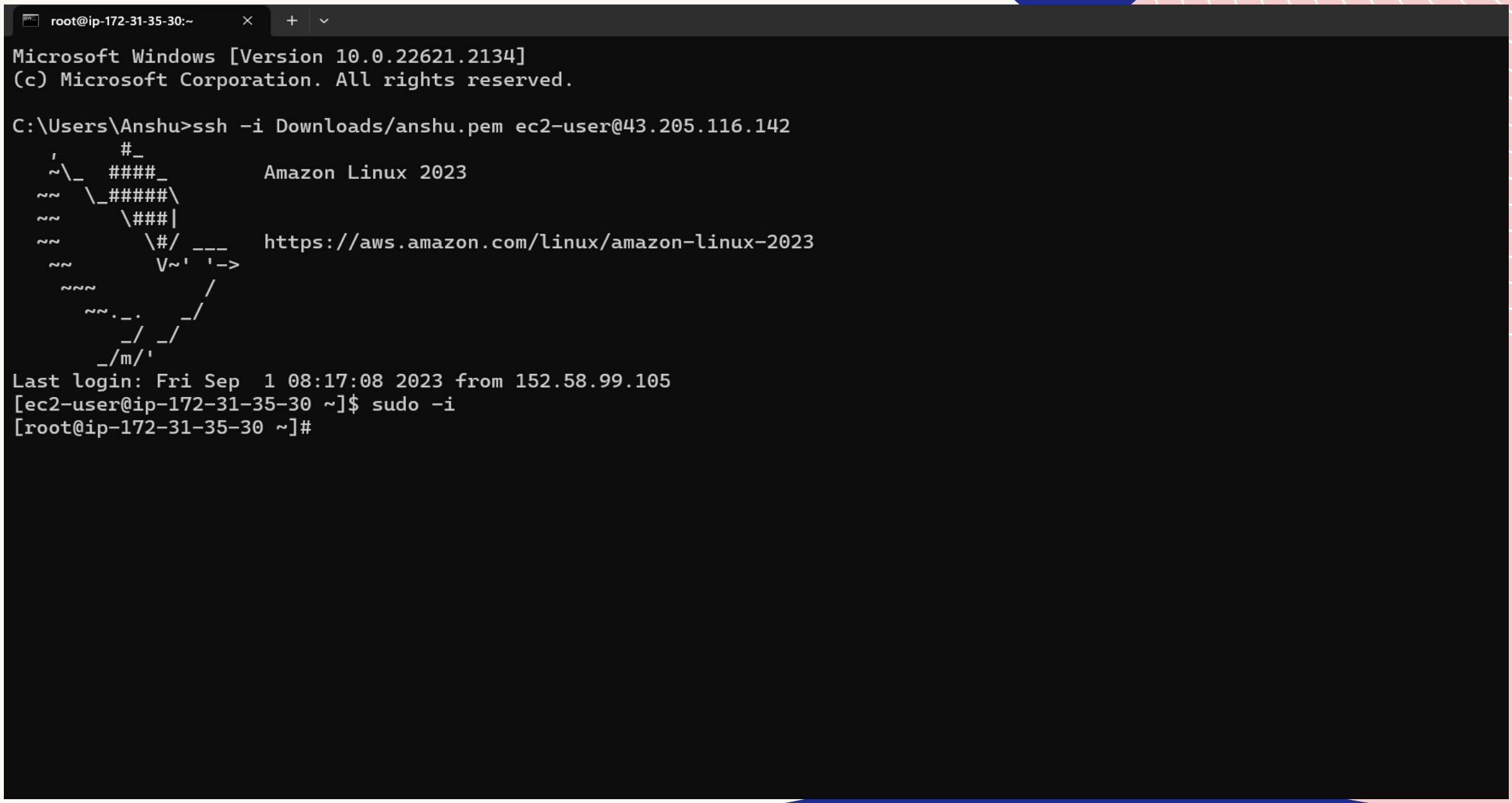
Submitted to:- Ashish Agarwal

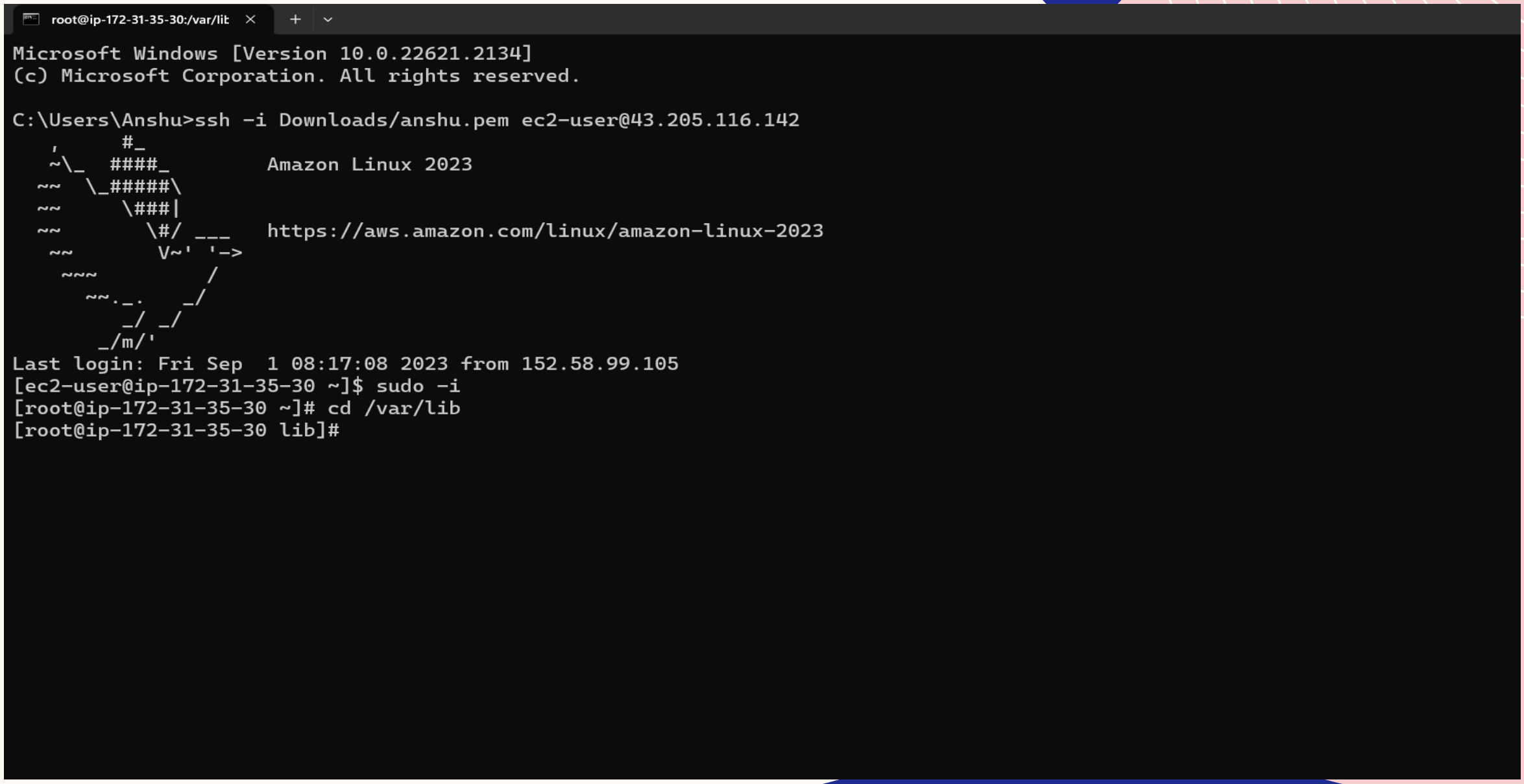
1. SSh -i


ec2-user@ip-172-31-35-30:~
Microsoft Windows [Version 10.0.22621.2134]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Anshu>ssh -i Downloads/anshu.pem ec2-user@43.205.116.142
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
Last login: Fri Sep 1 08:17:08 2023 from 152.58.99.105
[ec2-user@ip-172-31-35-30 ~]$

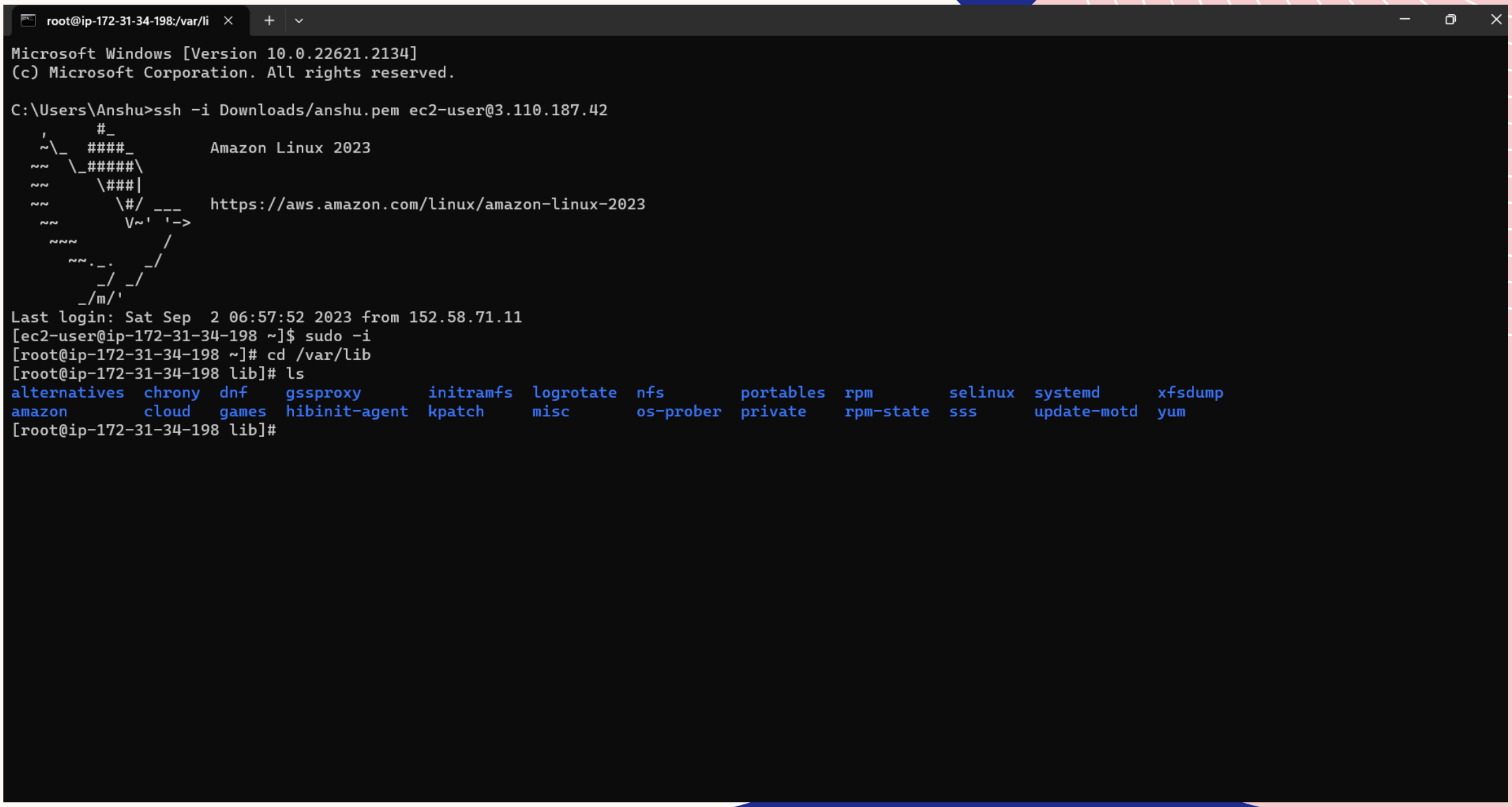
2. SUDO –I


root@ip-172-31-35-30:~
Microsoft Windows [Version 10.0.22621.2134]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Anshu>ssh -i Downloads/anshu.pem ec2-user@43.205.116.142
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
Last login: Fri Sep 1 08:17:08 2023 from 152.58.99.105
[ec2-user@ip-172-31-35-30 ~]$ sudo -i
[root@ip-172-31-35-30 ~]#

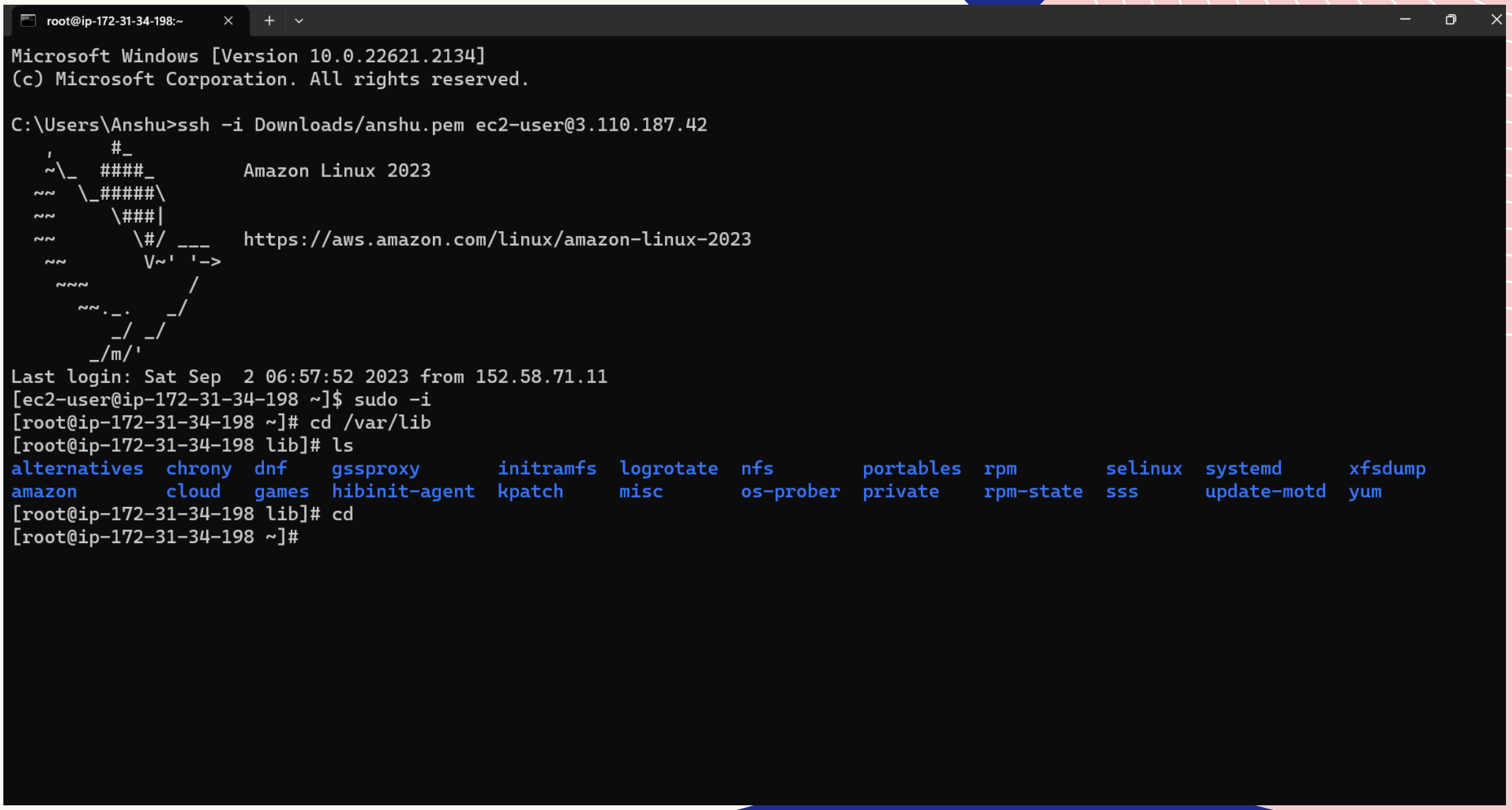
3. CD /VAR/LIB


root@ip-172-31-35-30:/var/lib
Microsoft Windows [Version 10.0.22621.2134]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Anshu>ssh -i Downloads/anshu.pem ec2-user@43.205.116.142
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
Last login: Fri Sep 1 08:17:08 2023 from 152.58.99.105
[ec2-user@ip-172-31-35-30 ~]$ sudo -i
[root@ip-172-31-35-30 ~]# cd /var/lib
[root@ip-172-31-35-30 lib]#

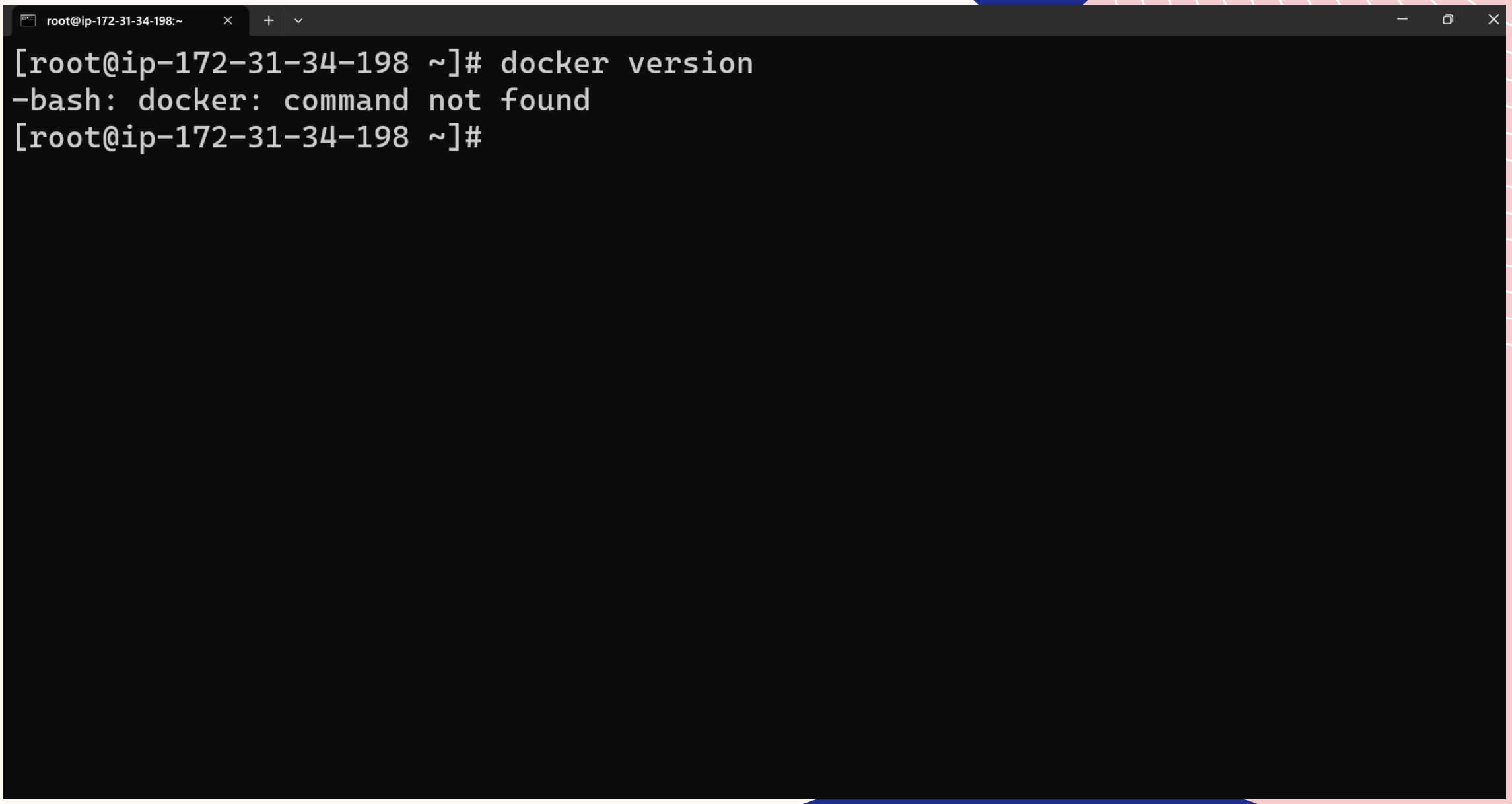
4. ls


root@ip-172-31-34-198:/var/li
Microsoft Windows [Version 10.0.22621.2134]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Anshu>ssh -i Downloads/anshu.pem ec2-user@3.110.187.42
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
Last login: Sat Sep 2 06:57:52 2023 from 152.58.71.11
[ec2-user@ip-172-31-34-198 ~]$ sudo -i
[root@ip-172-31-34-198 ~]# cd /var/lib
[root@ip-172-31-34-198 lib]# ls
alternatives chrony dnf gssproxy initramfs logrotate nfs portables rpm selinux systemd xfsdump
amazon cloud games hibinit-agent kpatch misc os-prober private rpm-state sss update-motd yum
[root@ip-172-31-34-198 lib]#

5. cd


root@ip-172-31-34-198:~
Microsoft Windows [Version 10.0.22621.2134]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Anshu>ssh -i Downloads/anshu.pem ec2-user@3.110.187.42
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
Last login: Sat Sep 2 06:57:52 2023 from 152.58.71.11
[ec2-user@ip-172-31-34-198 ~]$ sudo -i
[root@ip-172-31-34-198 ~]# cd /var/lib
[root@ip-172-31-34-198 lib]# ls
alternatives chrony dnf gssproxy initramfs logrotate nfs portables rpm selinux systemd xfsdump
amazon cloud games hibinit-agent kpatch misc os-prober private rpm-state sss update-motd yum
[root@ip-172-31-34-198 lib]# cd
[root@ip-172-31-34-198 ~]#

6. DOCKER –VERSION



7. Yum install docker -y

```
root@ip-172-31-35-30:~

[root@ip-172-31-35-30 ~]# yum install docker -y
Last metadata expiration check: 8:43:16 ago on Fri Sep  1 07:38:52 2023.
Dependencies resolved.
================================================================================================================
 Package                          Architecture        Version                          Repository              Size
================================================================================================================
Installing:
 docker                           x86_64              20.10.25-1.amzn2023.0.1          amazonlinux             42 M
Installing dependencies:
 containerd                       x86_64              1.7.2-1.amzn2023.0.3             amazonlinux             34 M
 iptables-libs                    x86_64              1.8.8-3.amzn2023.0.2             amazonlinux            401 k
 iptables-nft                     x86_64              1.8.8-3.amzn2023.0.2             amazonlinux            183 k
 libcgroup                        x86_64              3.0-1.amzn2023.0.1               amazonlinux             75 k
 libnetfilter_conntrack           x86_64              1.0.8-2.amzn2023.0.2             amazonlinux             58 k
 libnfnetlink                     x86_64              1.0.1-19.amzn2023.0.2            amazonlinux             30 k
 libnftnl                         x86_64              1.2.2-2.amzn2023.0.2             amazonlinux             84 k
 runc                             x86_64              1.1.7-1.amzn2023.0.2             amazonlinux            3.0 M

Transaction Summary
================================================================================================================
Install  9 Packages

Total download size: 79 M
Installed size: 307 M
Downloading Packages:
(1/9): libnfnetlink-1.0.1-19.amzn2023.0.2.x86_64.rpm                                  427 kB/s |  30 kB     00:00
(2/9): libnftnl-1.2.2-2.amzn2023.0.2.x86_64.rpm                                       1.1 MB/s |  84 kB     00:00
(3/9): iptables-nft-1.8.8-3.amzn2023.0.2.x86_64.rpm                                   5.0 MB/s | 183 kB     00:00
(4/9): libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64.rpm                         4.1 MB/s |  58 kB     00:00
(5/9): runc-1.1.7-1.amzn2023.0.2.x86_64.rpm                                            37 MB/s | 3.0 MB     00:00
(6/9): libcgroup-3.0-1.amzn2023.0.1.x86_64.rpm                                        2.6 MB/s |  75 kB     00:00
(7/9): iptables-libs-1.8.8-3.amzn2023.0.2.x86_64.rpm                                   11 MB/s | 401 kB     00:00
```

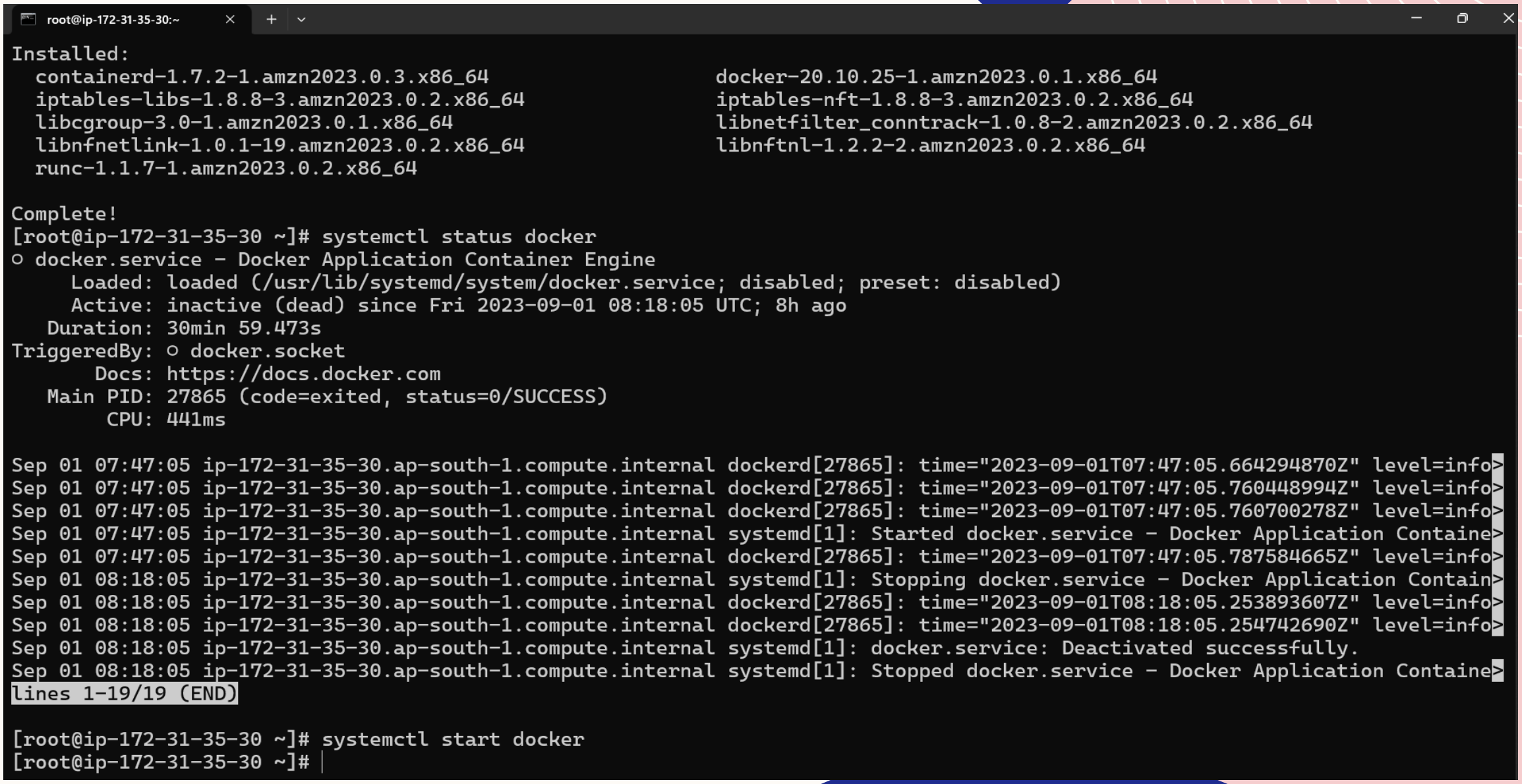
```
root@ip-172-31-35-30:~
(7/9): iptables-libs-1.8.8-3.amzn2023.0.2.x86_64.rpm                    11 MB/s | 401 kB     00:00
(8/9): docker-20.10.25-1.amzn2023.0.1.x86_64.rpm                        53 MB/s |  42 MB     00:00
(9/9): containerd-1.7.2-1.amzn2023.0.3.x86_64.rpm                       30 MB/s |  34 MB     00:01
--------------------------------------------------------------------------------------------------
Total                                                                   67 MB/s |  79 MB     00:01
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing        :                                                                        1/1
  Installing       : runc-1.1.7-1.amzn2023.0.2.x86_64                                       1/9
  Installing       : containerd-1.7.2-1.amzn2023.0.3.x86_64                                 2/9
  Running scriptlet: containerd-1.7.2-1.amzn2023.0.3.x86_64                                 2/9
  Installing       : libcgroup-3.0-1.amzn2023.0.1.x86_64                                    3/9
  Installing       : libnftnl-1.2.2-2.amzn2023.0.2.x86_64                                   4/9
  Installing       : libnfnetlink-1.0.1-19.amzn2023.0.2.x86_64                              5/9
  Installing       : libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64                     6/9
  Installing       : iptables-libs-1.8.8-3.amzn2023.0.2.x86_64                              7/9
  Installing       : iptables-nft-1.8.8-3.amzn2023.0.2.x86_64                               8/9
  Running scriptlet: iptables-nft-1.8.8-3.amzn2023.0.2.x86_64                               8/9
  Running scriptlet: docker-20.10.25-1.amzn2023.0.1.x86_64                                  9/9
  Installing       : docker-20.10.25-1.amzn2023.0.1.x86_64                                  9/9
  Running scriptlet: docker-20.10.25-1.amzn2023.0.1.x86_64                                  9/9
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/docker.socket.

  Verifying        : containerd-1.7.2-1.amzn2023.0.3.x86_64                                 1/9
  Verifying        : libnfnetlink-1.0.1-19.amzn2023.0.2.x86_64                              2/9
  Verifying        : libnftnl-1.2.2-2.amzn2023.0.2.x86_64                                   3/9
  Verifying        : runc-1.1.7-1.amzn2023.0.2.x86_64                                       4/9
  Verifying        : iptables-nft-1.8.8-3.amzn2023.0.2.x86_64                               5/9
  Verifying        : libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64                     6/9
```

```
root@ip-172-31-35-30:~
  Running scriptlet: containerd-1.7.2-1.amzn2023.0.3.x86_64                                 2/9
  Installing       : libcgroup-3.0-1.amzn2023.0.1.x86_64                                    3/9
  Installing       : libnftnl-1.2.2-2.amzn2023.0.2.x86_64                                   4/9
  Installing       : libnfnetlink-1.0.1-19.amzn2023.0.2.x86_64                              5/9
  Installing       : libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64                     6/9
  Installing       : iptables-libs-1.8.8-3.amzn2023.0.2.x86_64                              7/9
  Installing       : iptables-nft-1.8.8-3.amzn2023.0.2.x86_64                               8/9
  Running scriptlet: iptables-nft-1.8.8-3.amzn2023.0.2.x86_64                               8/9
  Running scriptlet: docker-20.10.25-1.amzn2023.0.1.x86_64                                  9/9
  Installing       : docker-20.10.25-1.amzn2023.0.1.x86_64                                  9/9
  Running scriptlet: docker-20.10.25-1.amzn2023.0.1.x86_64                                  9/9
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/docker.socket.

  Verifying        : containerd-1.7.2-1.amzn2023.0.3.x86_64                                 1/9
  Verifying        : libnfnetlink-1.0.1-19.amzn2023.0.2.x86_64                              2/9
  Verifying        : libnftnl-1.2.2-2.amzn2023.0.2.x86_64                                   3/9
  Verifying        : runc-1.1.7-1.amzn2023.0.2.x86_64                                       4/9
  Verifying        : iptables-nft-1.8.8-3.amzn2023.0.2.x86_64                               5/9
  Verifying        : libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64                     6/9
  Verifying        : libcgroup-3.0-1.amzn2023.0.1.x86_64                                    7/9
  Verifying        : iptables-libs-1.8.8-3.amzn2023.0.2.x86_64                              8/9
  Verifying        : docker-20.10.25-1.amzn2023.0.1.x86_64                                  9/9

Installed:
  containerd-1.7.2-1.amzn2023.0.3.x86_64                docker-20.10.25-1.amzn2023.0.1.x86_64
  iptables-libs-1.8.8-3.amzn2023.0.2.x86_64             iptables-nft-1.8.8-3.amzn2023.0.2.x86_64
  libcgroup-3.0-1.amzn2023.0.1.x86_64                   libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64
  libnfnetlink-1.0.1-19.amzn2023.0.2.x86_64             libnftnl-1.2.2-2.amzn2023.0.2.x86_64
  runc-1.1.7-1.amzn2023.0.2.x86_64

Complete!
[root@ip-172-31-35-30 ~]#
```

8. Systemctl status docker

```
root@ip-172-31-35-30:~
  Verifying        : iptables-libs-1.8.8-3.amzn2023.0.2.x86_64                8/9
  Verifying        : docker-20.10.25-1.amzn2023.0.1.x86_64                    9/9

Installed:
  containerd-1.7.2-1.amzn2023.0.3.x86_64          docker-20.10.25-1.amzn2023.0.1.x86_64
  iptables-libs-1.8.8-3.amzn2023.0.2.x86_64       iptables-nft-1.8.8-3.amzn2023.0.2.x86_64
  libcgroup-3.0-1.amzn2023.0.1.x86_64             libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64
  libnfnetlink-1.0.1-19.amzn2023.0.2.x86_64       libnftnl-1.2.2-2.amzn2023.0.2.x86_64
  runc-1.1.7-1.amzn2023.0.2.x86_64

Complete!
[root@ip-172-31-35-30 ~]# systemctl status docker
○ docker.service - Docker Application Container Engine
     Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled; preset: disabled)
     Active: inactive (dead) since Fri 2023-09-01 08:18:05 UTC; 8h ago
   Duration: 30min 59.473s
TriggeredBy: ○ docker.socket
       Docs: https://docs.docker.com
   Main PID: 27865 (code=exited, status=0/SUCCESS)
        CPU: 441ms

Sep 01 07:47:05 ip-172-31-35-30.ap-south-1.compute.internal dockerd[27865]: time="2023-09-01T07:47:05.664294870Z" level=info>
Sep 01 07:47:05 ip-172-31-35-30.ap-south-1.compute.internal dockerd[27865]: time="2023-09-01T07:47:05.760448994Z" level=info>
Sep 01 07:47:05 ip-172-31-35-30.ap-south-1.compute.internal dockerd[27865]: time="2023-09-01T07:47:05.760700278Z" level=info>
Sep 01 07:47:05 ip-172-31-35-30.ap-south-1.compute.internal systemd[1]: Started docker.service - Docker Application Containe>
Sep 01 07:47:05 ip-172-31-35-30.ap-south-1.compute.internal dockerd[27865]: time="2023-09-01T07:47:05.787584665Z" level=info>
Sep 01 08:18:05 ip-172-31-35-30.ap-south-1.compute.internal systemd[1]: Stopping docker.service - Docker Application Contain>
Sep 01 08:18:05 ip-172-31-35-30.ap-south-1.compute.internal dockerd[27865]: time="2023-09-01T08:18:05.253893607Z" level=info>
Sep 01 08:18:05 ip-172-31-35-30.ap-south-1.compute.internal dockerd[27865]: time="2023-09-01T08:18:05.254742690Z" level=info>
Sep 01 08:18:05 ip-172-31-35-30.ap-south-1.compute.internal systemd[1]: docker.service: Deactivated successfully.
Sep 01 08:18:05 ip-172-31-35-30.ap-south-1.compute.internal systemd[1]: Stopped docker.service - Docker Application Containe>
lines 1-19/19 (END)
```

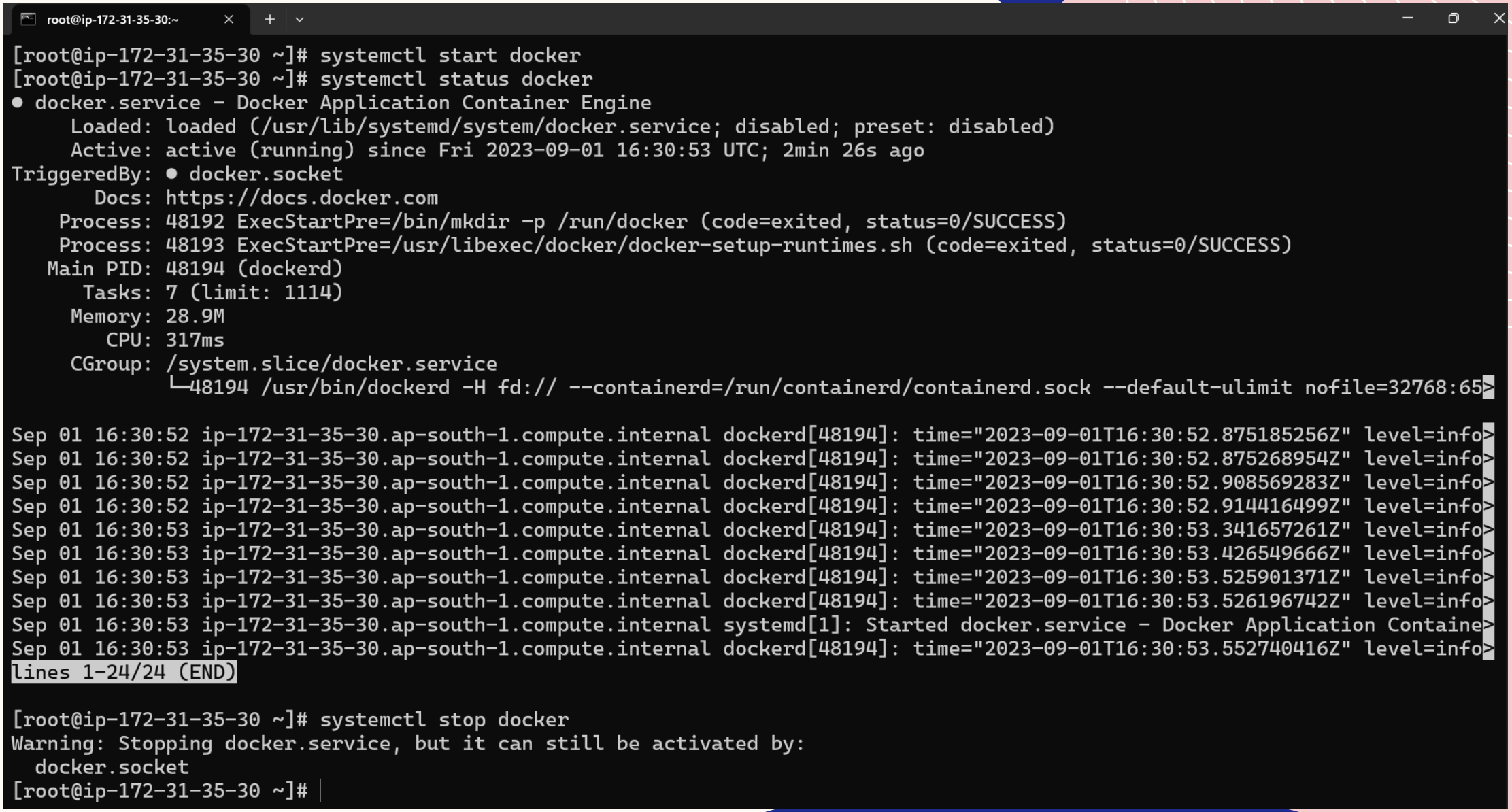
9. Systemctl start docker



10. systemctl status docker

```
root@ip-172-31-35-30:~
Sep 01 08:18:05 ip-172-31-35-30.ap-south-1.compute.internal dockerd[27865]: time="2023-09-01T08:18:05.254742690Z" level=info>
Sep 01 08:18:05 ip-172-31-35-30.ap-south-1.compute.internal systemd[1]: docker.service: Deactivated successfully.
Sep 01 08:18:05 ip-172-31-35-30.ap-south-1.compute.internal systemd[1]: Stopped docker.service - Docker Application Containe>
lines 1-19/19 (END)

[root@ip-172-31-35-30 ~]# systemctl start docker
[root@ip-172-31-35-30 ~]# systemctl status docker
● docker.service - Docker Application Container Engine
     Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled; preset: disabled)
     Active: active (running) since Fri 2023-09-01 16:30:53 UTC; 2min 26s ago
TriggeredBy: ● docker.socket
       Docs: https://docs.docker.com
    Process: 48192 ExecStartPre=/bin/mkdir -p /run/docker (code=exited, status=0/SUCCESS)
    Process: 48193 ExecStartPre=/usr/libexec/docker/docker-setup-runtimes.sh (code=exited, status=0/SUCCESS)
   Main PID: 48194 (dockerd)
      Tasks: 7 (limit: 1114)
     Memory: 28.9M
        CPU: 317ms
     CGroup: /system.slice/docker.service
             └─48194 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock --default-ulimit nofile=32768:65>

Sep 01 16:30:52 ip-172-31-35-30.ap-south-1.compute.internal dockerd[48194]: time="2023-09-01T16:30:52.875185256Z" level=info>
Sep 01 16:30:52 ip-172-31-35-30.ap-south-1.compute.internal dockerd[48194]: time="2023-09-01T16:30:52.875268954Z" level=info>
Sep 01 16:30:52 ip-172-31-35-30.ap-south-1.compute.internal dockerd[48194]: time="2023-09-01T16:30:52.908569283Z" level=info>
Sep 01 16:30:52 ip-172-31-35-30.ap-south-1.compute.internal dockerd[48194]: time="2023-09-01T16:30:52.914416499Z" level=info>
Sep 01 16:30:53 ip-172-31-35-30.ap-south-1.compute.internal dockerd[48194]: time="2023-09-01T16:30:53.341657261Z" level=info>
Sep 01 16:30:53 ip-172-31-35-30.ap-south-1.compute.internal dockerd[48194]: time="2023-09-01T16:30:53.426549666Z" level=info>
Sep 01 16:30:53 ip-172-31-35-30.ap-south-1.compute.internal dockerd[48194]: time="2023-09-01T16:30:53.525901371Z" level=info>
Sep 01 16:30:53 ip-172-31-35-30.ap-south-1.compute.internal dockerd[48194]: time="2023-09-01T16:30:53.526196742Z" level=info>
Sep 01 16:30:53 ip-172-31-35-30.ap-south-1.compute.internal systemd[1]: Started docker.service - Docker Application Containe>
Sep 01 16:30:53 ip-172-31-35-30.ap-south-1.compute.internal dockerd[48194]: time="2023-09-01T16:30:53.552740416Z" level=info>
lines 1-24/24 (END)
```

11. systemctl stop docker



12. systemctl status docker

```
root@ip-172-31-35-30:~
Sep 01 16:30:53 ip-172-31-35-30.ap-south-1.compute.internal dockerd[48194]: time="2023-09-01T16:30:53.526196742Z" level=info>
Sep 01 16:30:53 ip-172-31-35-30.ap-south-1.compute.internal systemd[1]: Started docker.service - Docker Application Containe>
Sep 01 16:30:53 ip-172-31-35-30.ap-south-1.compute.internal dockerd[48194]: time="2023-09-01T16:30:53.552740416Z" level=info>
lines 1-24/24 (END)

[root@ip-172-31-35-30 ~]# systemctl stop docker
Warning: Stopping docker.service, but it can still be activated by:
  docker.socket
[root@ip-172-31-35-30 ~]# systemctl status docker
○ docker.service - Docker Application Container Engine
     Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled; preset: disabled)
     Active: inactive (dead) since Fri 2023-09-01 16:36:24 UTC; 1min 29s ago
   Duration: 5min 31.041s
TriggeredBy: ● docker.socket
       Docs: https://docs.docker.com
    Process: 48192 ExecStartPre=/bin/mkdir -p /run/docker (code=exited, status=0/SUCCESS)
    Process: 48193 ExecStartPre=/usr/libexec/docker/docker-setup-runtimes.sh (code=exited, status=0/SUCCESS)
    Process: 48194 ExecStart=/usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock $OPTIONS $DOCKER_STORAGE>
   Main PID: 48194 (code=exited, status=0/SUCCESS)
        CPU: 332ms

Sep 01 16:30:53 ip-172-31-35-30.ap-south-1.compute.internal dockerd[48194]: time="2023-09-01T16:30:53.426549666Z" level=info>
Sep 01 16:30:53 ip-172-31-35-30.ap-south-1.compute.internal dockerd[48194]: time="2023-09-01T16:30:53.525901371Z" level=info>
Sep 01 16:30:53 ip-172-31-35-30.ap-south-1.compute.internal dockerd[48194]: time="2023-09-01T16:30:53.526196742Z" level=info>
Sep 01 16:30:53 ip-172-31-35-30.ap-south-1.compute.internal systemd[1]: Started docker.service - Docker Application Containe>
Sep 01 16:30:53 ip-172-31-35-30.ap-south-1.compute.internal dockerd[48194]: time="2023-09-01T16:30:53.552740416Z" level=info>
Sep 01 16:36:24 ip-172-31-35-30.ap-south-1.compute.internal systemd[1]: Stopping docker.service - Docker Application Contain>
Sep 01 16:36:24 ip-172-31-35-30.ap-south-1.compute.internal dockerd[48194]: time="2023-09-01T16:36:24.586621540Z" level=info>
Sep 01 16:36:24 ip-172-31-35-30.ap-south-1.compute.internal dockerd[48194]: time="2023-09-01T16:36:24.587401048Z" level=info>
Sep 01 16:36:24 ip-172-31-35-30.ap-south-1.compute.internal systemd[1]: docker.service: Deactivated successfully.
Sep 01 16:36:24 ip-172-31-35-30.ap-south-1.compute.internal systemd[1]: Stopped docker.service - Docker Application Containe>
lines 1-22/22 (END)
```

13. yum remove docker

```
root@ip-172-31-35-30:~

Sep 01 16:36:24 ip-172-31-35-30.ap-south-1.compute.internal systemd[1]: Stopped docker.service - Docker Application Containe>
lines 1-22/22 (END)

[root@ip-172-31-35-30 ~]# yum remove docker
Dependencies resolved.
================================================================================================================================
 Package                          Architecture       Version                              Repository                 Size
================================================================================================================================
Removing:
 docker                           x86_64             20.10.25-1.amzn2023.0.1              @amazonlinux              170 M
Removing unused dependencies:
 containerd                       x86_64             1.7.2-1.amzn2023.0.3                 @amazonlinux              124 M
 iptables-libs                    x86_64             1.8.8-3.amzn2023.0.2                 @amazonlinux              1.9 M
 iptables-nft                     x86_64             1.8.8-3.amzn2023.0.2                 @amazonlinux              541 k
 libcgroup                        x86_64             3.0-1.amzn2023.0.1                   @amazonlinux              158 k
 libnetfilter_conntrack           x86_64             1.0.8-2.amzn2023.0.2                 @amazonlinux              140 k
 libnfnetlink                     x86_64             1.0.1-19.amzn2023.0.2                @amazonlinux               54 k
 libnftnl                         x86_64             1.2.2-2.amzn2023.0.2                 @amazonlinux              232 k
 runc                             x86_64             1.1.7-1.amzn2023.0.2                 @amazonlinux              9.6 M

Transaction Summary
================================================================================================================================
Remove  9 Packages

Freed space: 307 M
Is this ok [y/N]: y
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing        :                                                                                                    1/1
```

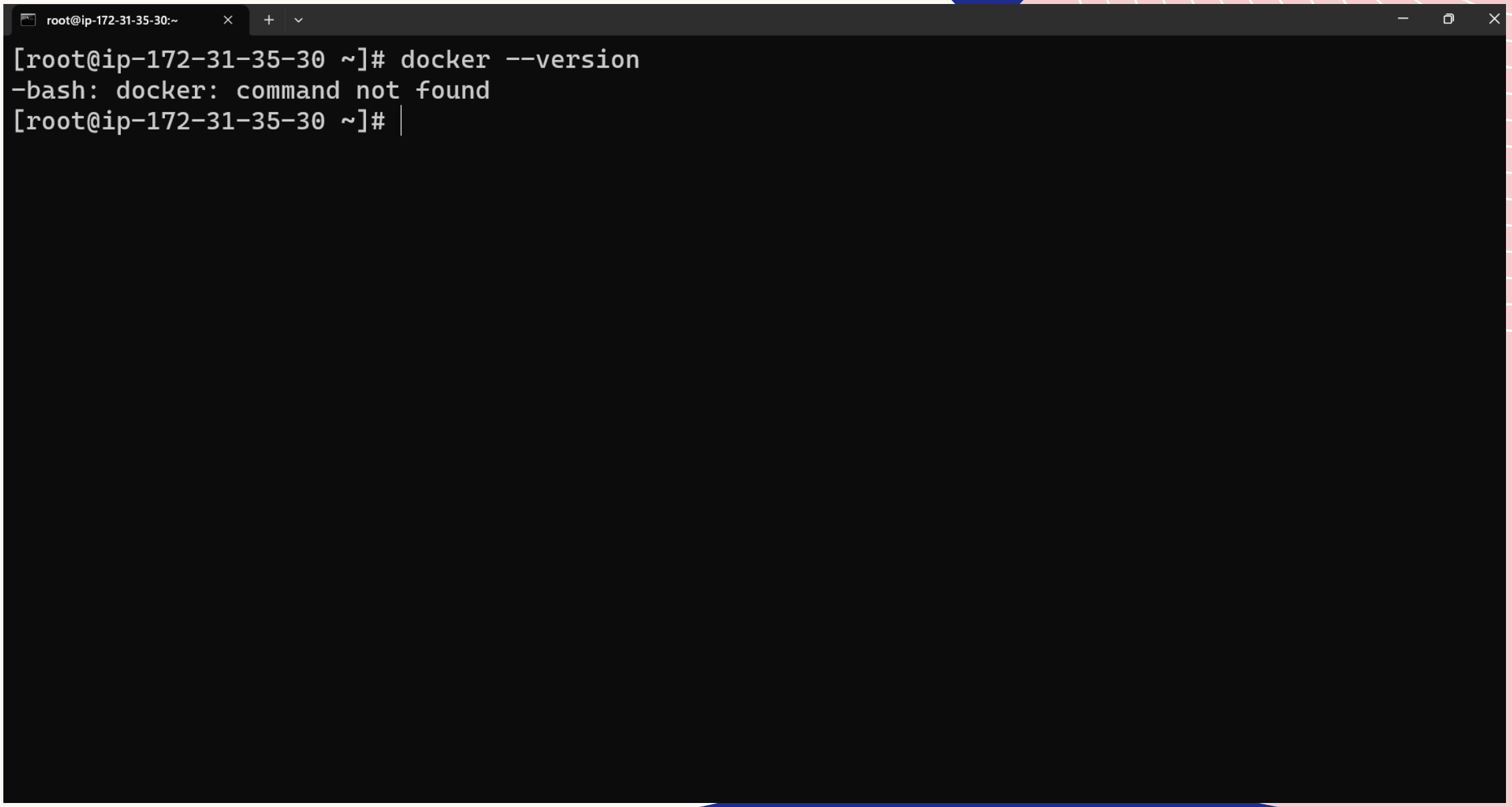
root@ip-172-31-35-30:~

```
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing        :                                                        1/1
  Running scriptlet: docker-20.10.25-1.amzn2023.0.1.x86_64                  1/9
Removed "/etc/systemd/system/sockets.target.wants/docker.socket".

  Erasing          : docker-20.10.25-1.amzn2023.0.1.x86_64                  1/9
  Running scriptlet: docker-20.10.25-1.amzn2023.0.1.x86_64                  1/9
  Erasing          : iptables-nft-1.8.8-3.amzn2023.0.2.x86_64               2/9
  Running scriptlet: iptables-nft-1.8.8-3.amzn2023.0.2.x86_64               2/9
  Erasing          : iptables-libs-1.8.8-3.amzn2023.0.2.x86_64              3/9
  Erasing          : libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64     4/9
  Running scriptlet: containerd-1.7.2-1.amzn2023.0.3.x86_64                  5/9
  Erasing          : containerd-1.7.2-1.amzn2023.0.3.x86_64                  5/9
  Running scriptlet: containerd-1.7.2-1.amzn2023.0.3.x86_64                  5/9
  Erasing          : runc-1.1.7-1.amzn2023.0.2.x86_64                        6/9
  Erasing          : libnfnetlink-1.0.1-19.amzn2023.0.2.x86_64               7/9
  Erasing          : libnftnl-1.2.2-2.amzn2023.0.2.x86_64                    8/9
  Erasing          : libcgroup-3.0-1.amzn2023.0.1.x86_64                     9/9
  Running scriptlet: libcgroup-3.0-1.amzn2023.0.1.x86_64                     9/9
  Verifying        : containerd-1.7.2-1.amzn2023.0.3.x86_64                  1/9
  Verifying        : docker-20.10.25-1.amzn2023.0.1.x86_64                   2/9
  Verifying        : iptables-libs-1.8.8-3.amzn2023.0.2.x86_64               3/9
  Verifying        : iptables-nft-1.8.8-3.amzn2023.0.2.x86_64                4/9
  Verifying        : libcgroup-3.0-1.amzn2023.0.1.x86_64                     5/9
  Verifying        : libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64      6/9
  Verifying        : libnfnetlink-1.0.1-19.amzn2023.0.2.x86_64               7/9
  Verifying        : libnftnl-1.2.2-2.amzn2023.0.2.x86_64                    8/9
  Verifying        : runc-1.1.7-1.amzn2023.0.2.x86_64                        9/9
```

Command Prompt

```
  Running scriptlet: iptables-nft-1.8.8-3.amzn2023.0.2.x86_64                                                
```

14. docker --version



15. yum install docker-y

```
root@ip-172-31-35-30:~
[root@ip-172-31-35-30 ~]# docker --version
-bash: docker: command not found
[root@ip-172-31-35-30 ~]# yum install docker -y
Last metadata expiration check: 9:37:33 ago on Fri Sep  1 07:38:52 2023.
Dependencies resolved.
================================================================================
 Package                 Architecture Version                       Repository      Size
================================================================================
Installing:
 docker                  x86_64       20.10.25-1.amzn2023.0.1       amazonlinux     42 M
Installing dependencies:
 containerd              x86_64       1.7.2-1.amzn2023.0.3          amazonlinux     34 M
 iptables-libs           x86_64       1.8.8-3.amzn2023.0.2          amazonlinux    401 k
 iptables-nft            x86_64       1.8.8-3.amzn2023.0.2          amazonlinux    183 k
 libcgroup               x86_64       3.0-1.amzn2023.0.1            amazonlinux     75 k
 libnetfilter_conntrack  x86_64       1.0.8-2.amzn2023.0.2          amazonlinux     58 k
 libnfnetlink            x86_64       1.0.1-19.amzn2023.0.2         amazonlinux     30 k
 libnftnl                x86_64       1.2.2-2.amzn2023.0.2          amazonlinux     84 k
 runc                    x86_64       1.1.7-1.amzn2023.0.2          amazonlinux    3.0 M

Transaction Summary
================================================================================
Install  9 Packages
```

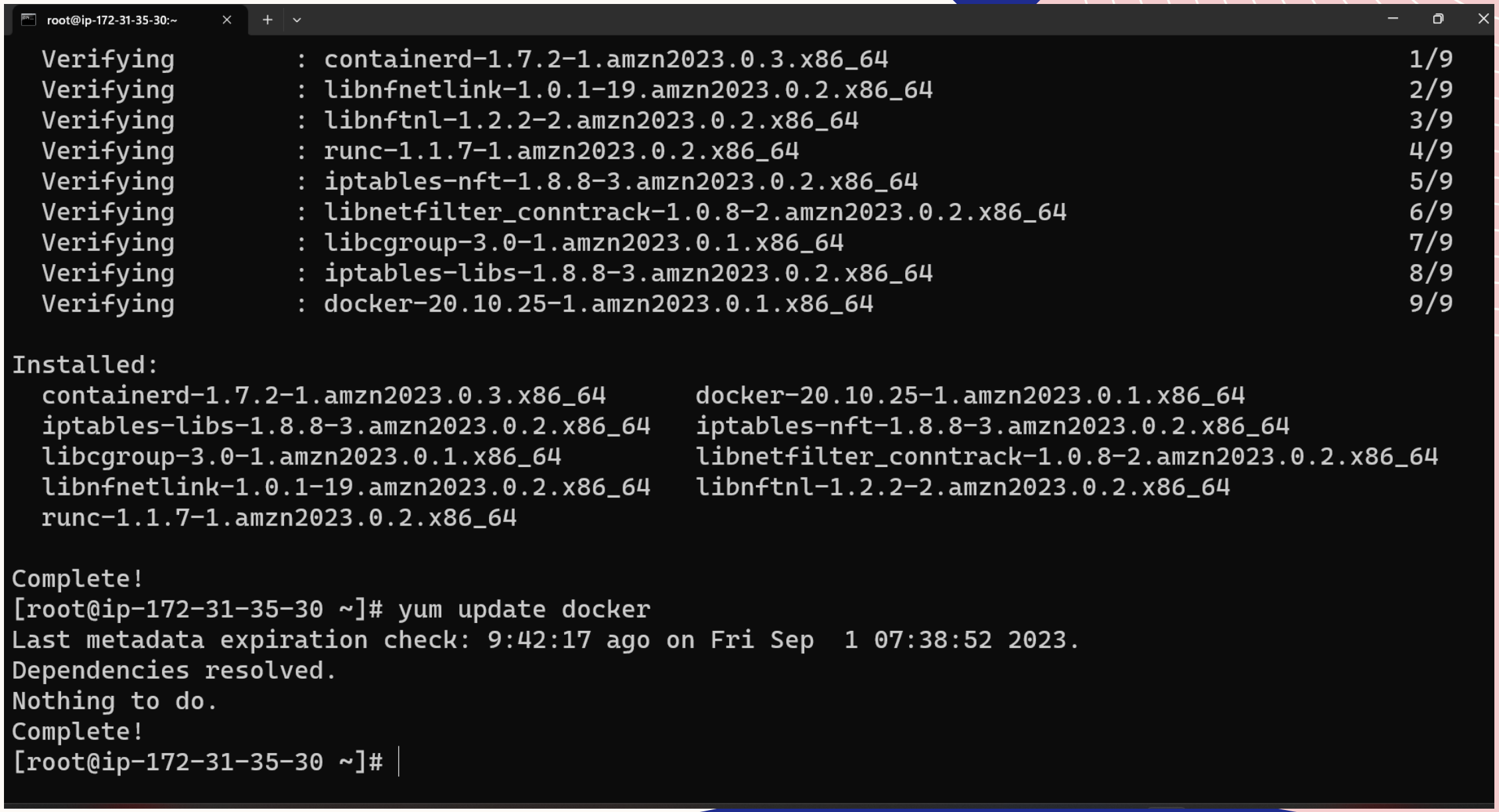
root@ip-172-31-35-30:~

```
Transaction Summary
================================================================================
Install  9 Packages

Total download size: 79 M
Installed size: 307 M
Downloading Packages:
(1/9): libnfnetlink-1.0.1-19.amzn2023.0.2.x86_64.rpm          473 kB/s |  30 kB     00:00
(2/9): libnftnl-1.2.2-2.amzn2023.0.2.x86_64.rpm               893 kB/s |  84 kB     00:00
(3/9): iptables-nft-1.8.8-3.amzn2023.0.2.x86_64.rpm           4.1 MB/s | 183 kB     00:00
(4/9): libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64.rpm 4.2 MB/s |  58 kB     00:00
(5/9): libcgroup-3.0-1.amzn2023.0.1.x86_64.rpm                1.2 MB/s |  75 kB     00:00
(6/9): iptables-libs-1.8.8-3.amzn2023.0.2.x86_64.rpm          4.1 MB/s | 401 kB     00:00
(7/9): runc-1.1.7-1.amzn2023.0.2.x86_64.rpm                    11 MB/s | 3.0 MB     00:00
(8/9): containerd-1.7.2-1.amzn2023.0.3.x86_64.rpm              45 MB/s |  34 MB     00:00
(9/9): docker-20.10.25-1.amzn2023.0.1.x86_64.rpm               45 MB/s |  42 MB     00:00
--------------------------------------------------------------------------------
Total                                                          61 MB/s |  79 MB     00:01
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing        :                                                        1/1
```

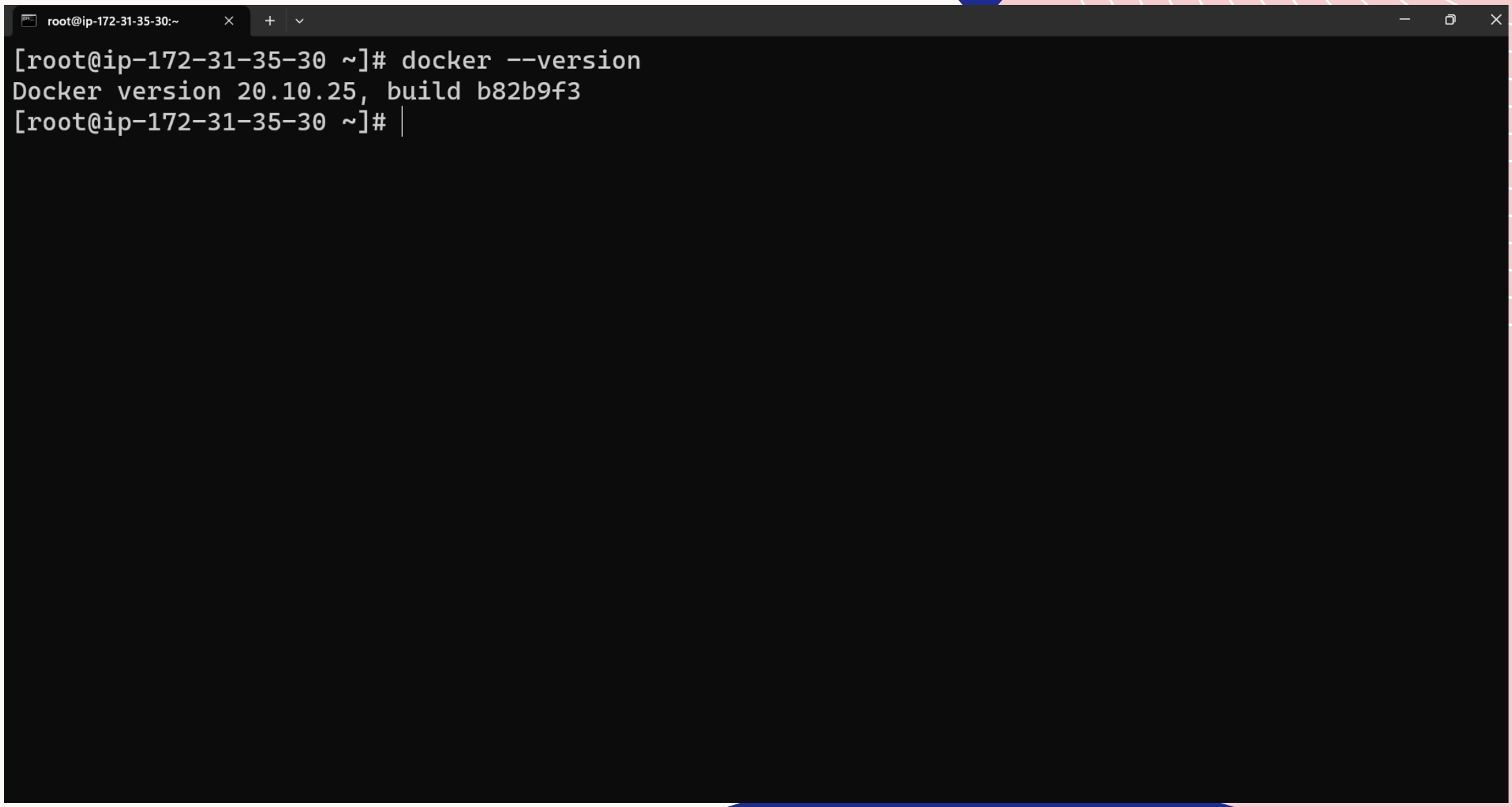
```
root@ip-172-31-35-30:~
  Preparing        :                                                        1/1
  Installing       : runc-1.1.7-1.amzn2023.0.2.x86_64                       1/9
  Installing       : containerd-1.7.2-1.amzn2023.0.3.x86_64                 2/9
  Running scriptlet: containerd-1.7.2-1.amzn2023.0.3.x86_64                 2/9
  Installing       : libcgroup-3.0-1.amzn2023.0.1.x86_64                    3/9
  Installing       : libnftnl-1.2.2-2.amzn2023.0.2.x86_64                   4/9
  Installing       : libnfnetlink-1.0.1-19.amzn2023.0.2.x86_64              5/9
  Installing       : libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64     6/9
  Installing       : iptables-libs-1.8.8-3.amzn2023.0.2.x86_64              7/9
  Installing       : iptables-nft-1.8.8-3.amzn2023.0.2.x86_64               8/9
  Running scriptlet: iptables-nft-1.8.8-3.amzn2023.0.2.x86_64               8/9
  Running scriptlet: docker-20.10.25-1.amzn2023.0.1.x86_64                  9/9
  Installing       : docker-20.10.25-1.amzn2023.0.1.x86_64                  9/9
  Running scriptlet: docker-20.10.25-1.amzn2023.0.1.x86_64                  9/9
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/d
ocker.socket.

  Verifying        : containerd-1.7.2-1.amzn2023.0.3.x86_64                 1/9
  Verifying        : libnfnetlink-1.0.1-19.amzn2023.0.2.x86_64              2/9
  Verifying        : libnftnl-1.2.2-2.amzn2023.0.2.x86_64                   3/9
  Verifying        : runc-1.1.7-1.amzn2023.0.2.x86_64                       4/9
  Verifying        : iptables-nft-1.8.8-3.amzn2023.0.2.x86_64               5/9
  Verifying        : libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64     6/9
  Verifying        : libcgroup-3.0-1.amzn2023.0.1.x86_64                    7/9
```

```
root@ip-172-31-35-30:~
  Installing       : docker-20.10.25-1.amzn2023.0.1.x86_64                    9/9
  Running scriptlet: docker-20.10.25-1.amzn2023.0.1.x86_64                    9/9
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/d
ocker.socket.

  Verifying        : containerd-1.7.2-1.amzn2023.0.3.x86_64                   1/9
  Verifying        : libnfnetlink-1.0.1-19.amzn2023.0.2.x86_64                2/9
  Verifying        : libnftnl-1.2.2-2.amzn2023.0.2.x86_64                     3/9
  Verifying        : runc-1.1.7-1.amzn2023.0.2.x86_64                         4/9
  Verifying        : iptables-nft-1.8.8-3.amzn2023.0.2.x86_64                 5/9
  Verifying        : libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64       6/9
  Verifying        : libcgroup-3.0-1.amzn2023.0.1.x86_64                      7/9
  Verifying        : iptables-libs-1.8.8-3.amzn2023.0.2.x86_64                8/9
  Verifying        : docker-20.10.25-1.amzn2023.0.1.x86_64                    9/9

Installed:
  containerd-1.7.2-1.amzn2023.0.3.x86_64      docker-20.10.25-1.amzn2023.0.1.x86_64
  iptables-libs-1.8.8-3.amzn2023.0.2.x86_64   iptables-nft-1.8.8-3.amzn2023.0.2.x86_64
  libcgroup-3.0-1.amzn2023.0.1.x86_64         libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64
  libnfnetlink-1.0.1-19.amzn2023.0.2.x86_64   libnftnl-1.2.2-2.amzn2023.0.2.x86_64
  runc-1.1.7-1.amzn2023.0.2.x86_64

Complete!
[root@ip-172-31-35-30 ~]#
```

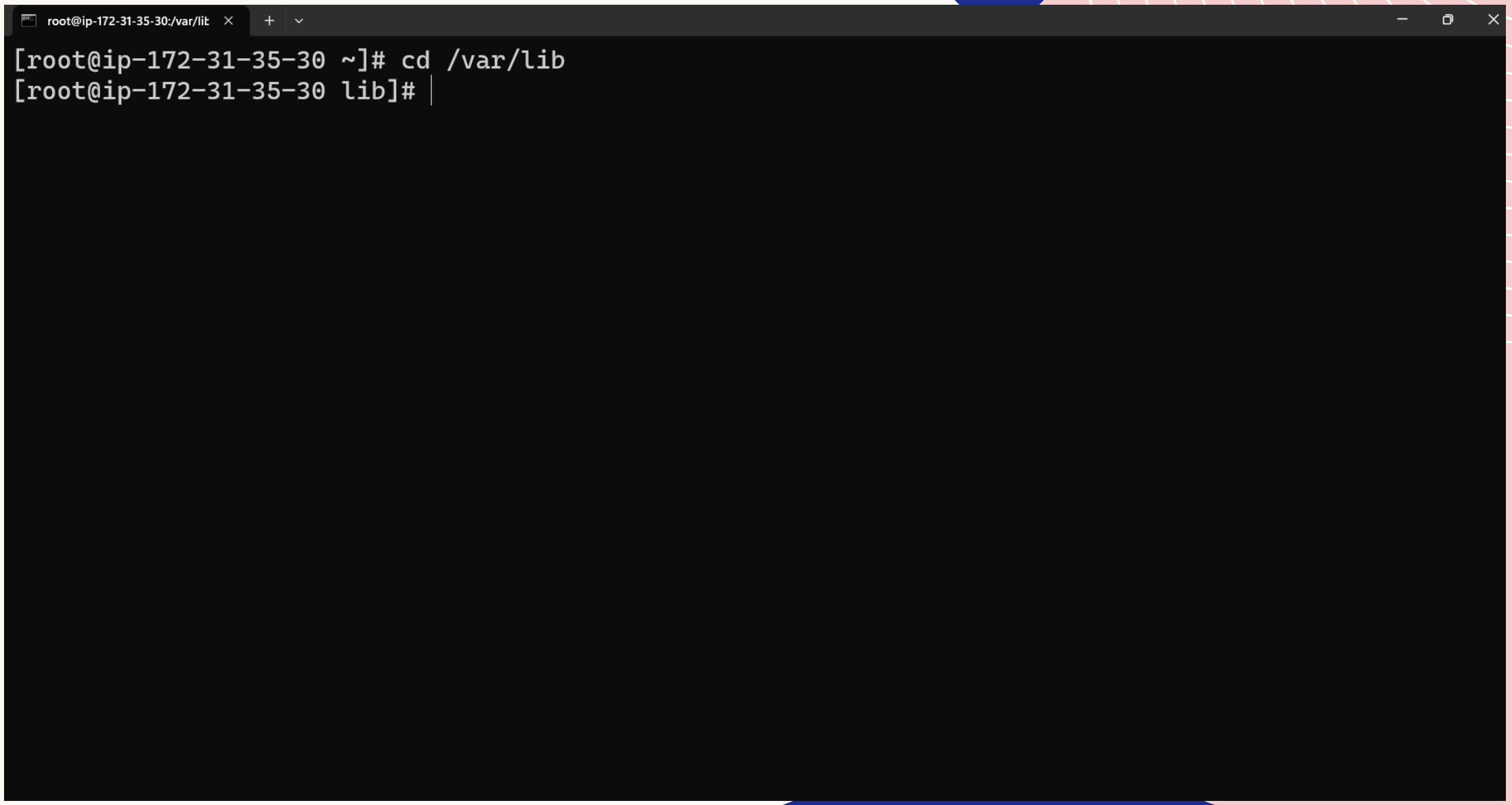
16. yum update docker



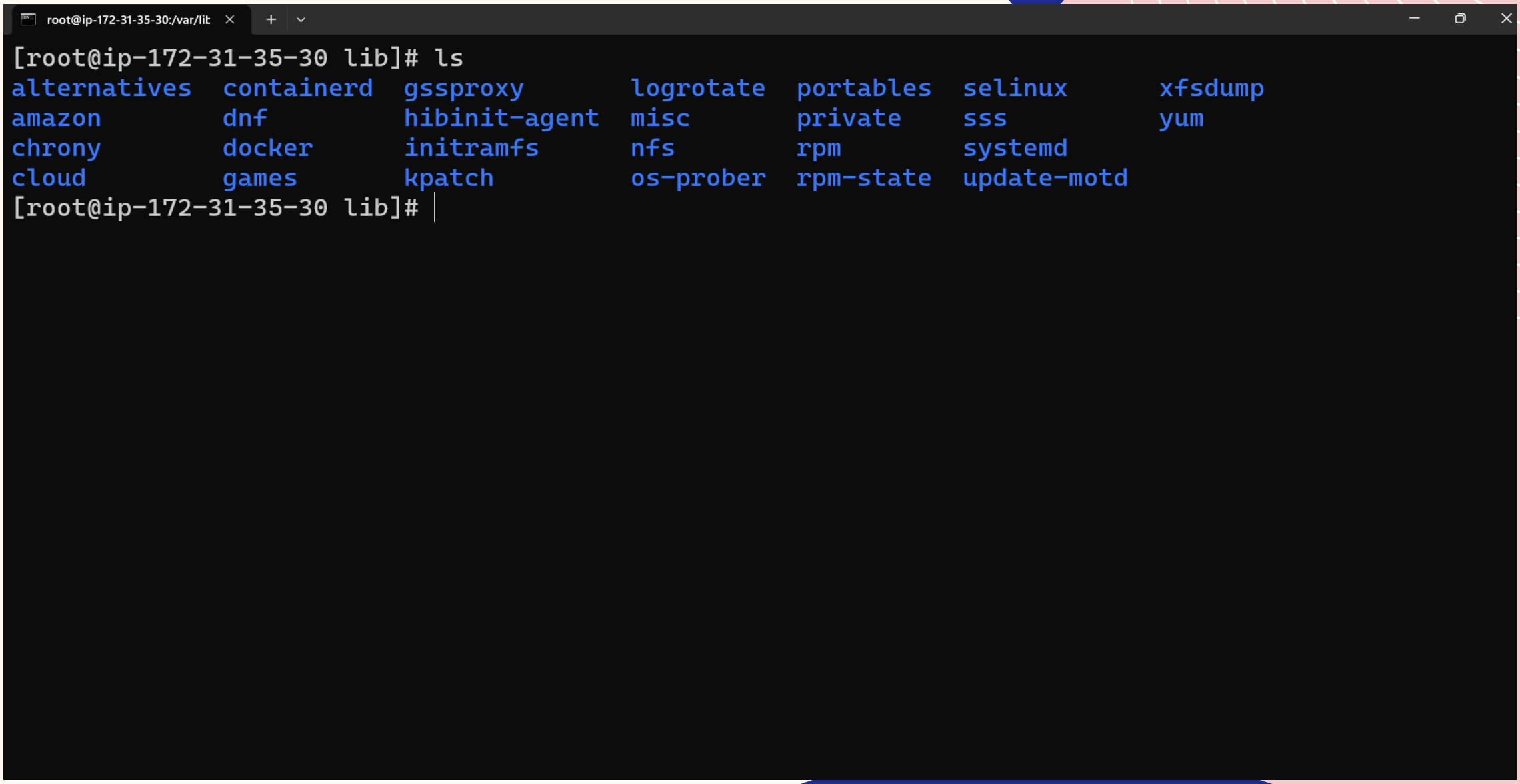
17. docker --version



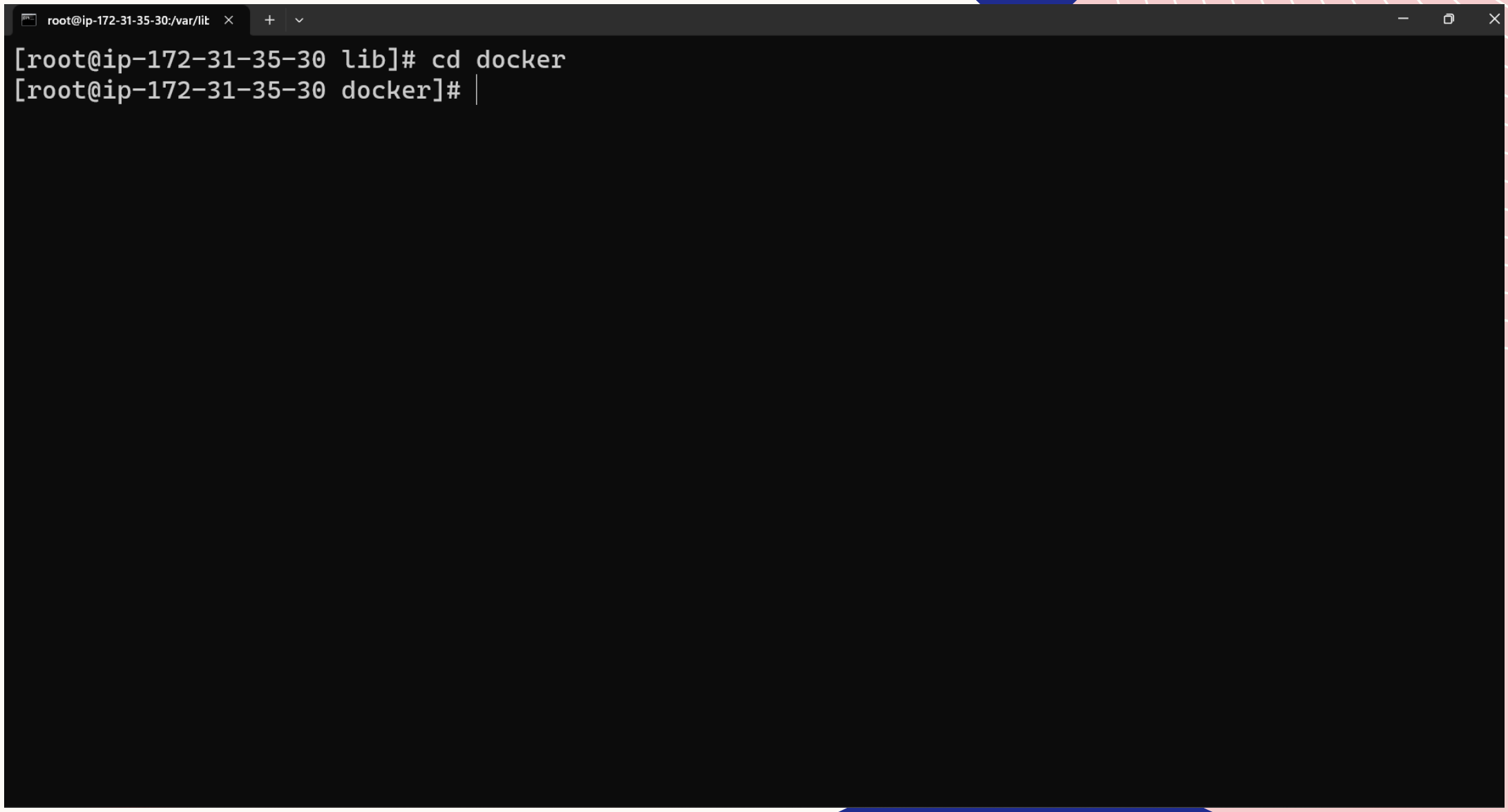
18. cd /var/lib


root@ip-172-31-35-30:/var/lit
[root@ip-172-31-35-30 ~]# cd /var/lib
[root@ip-172-31-35-30 lib]#

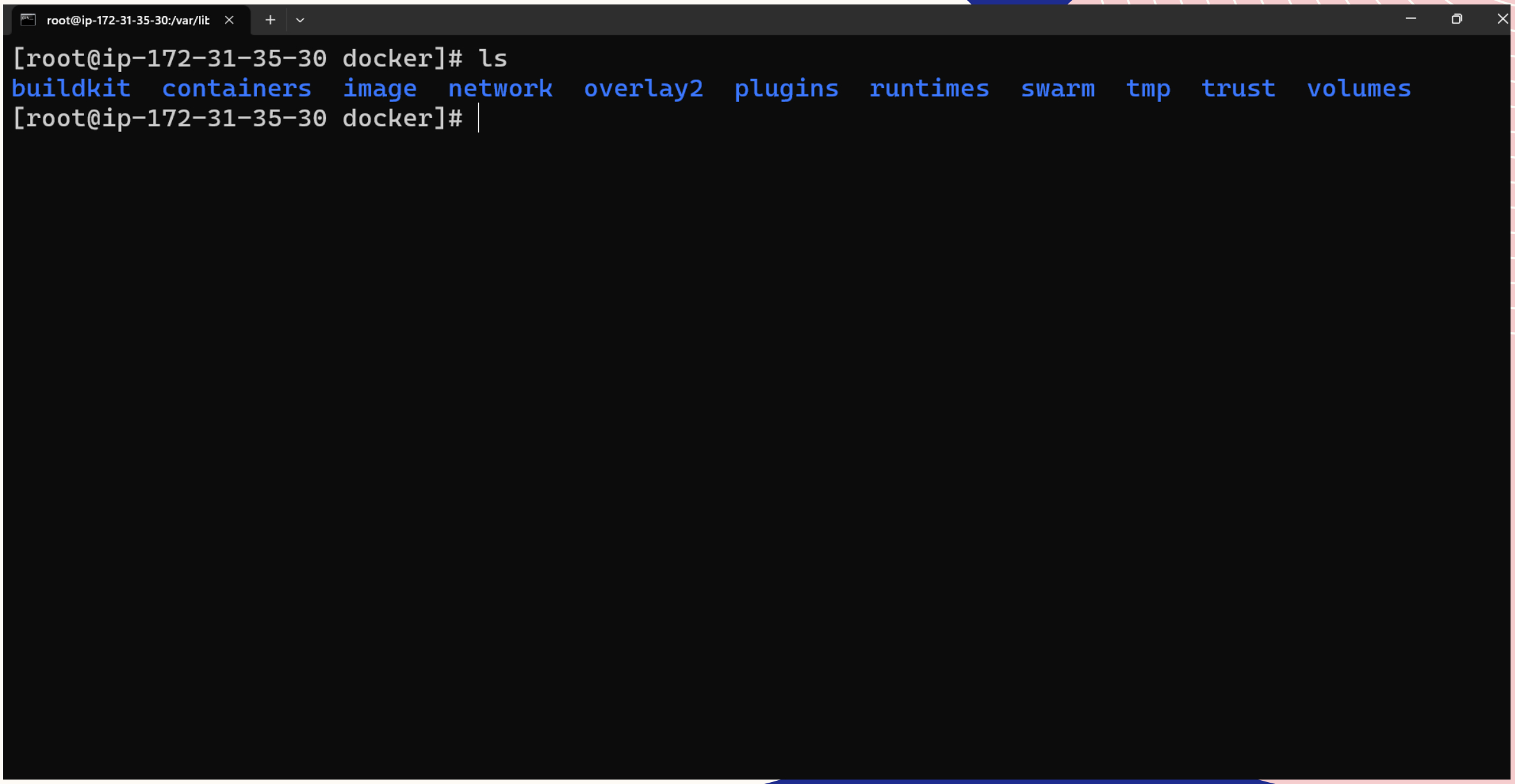
19. ls


root@ip-172-31-35-30:/var/lib
[root@ip-172-31-35-30 lib]# ls
alternatives containerd gssproxy logrotate portables selinux xfsdump
amazon dnf hibinit-agent misc private sss yum
chrony docker initramfs nfs rpm systemd
cloud games kpatch os-prober rpm-state update-motd
[root@ip-172-31-35-30 lib]#

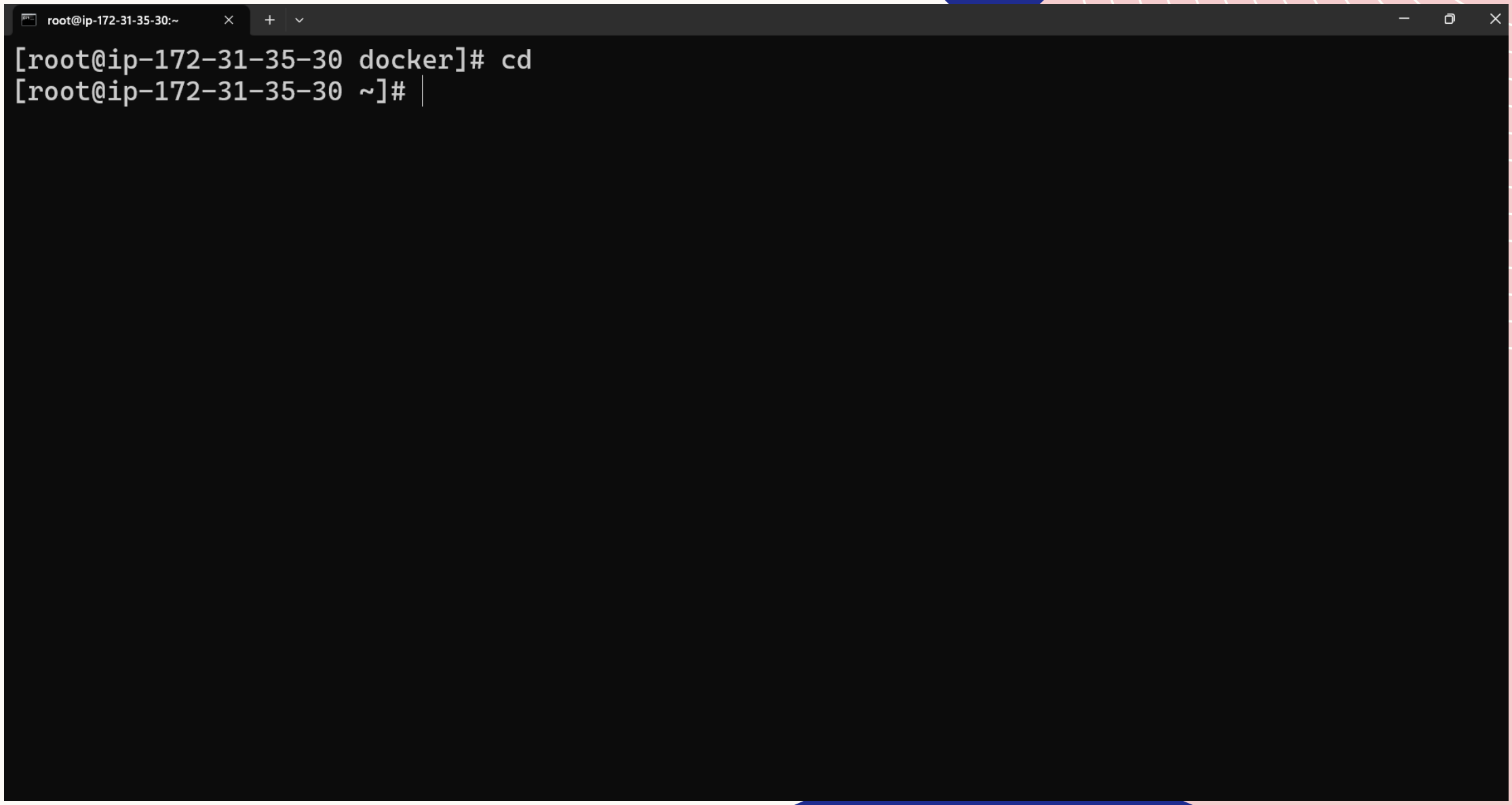
20. cd docker


root@ip-172-31-35-30:/var/lit
[root@ip-172-31-35-30 lib]# cd docker
[root@ip-172-31-35-30 docker]#

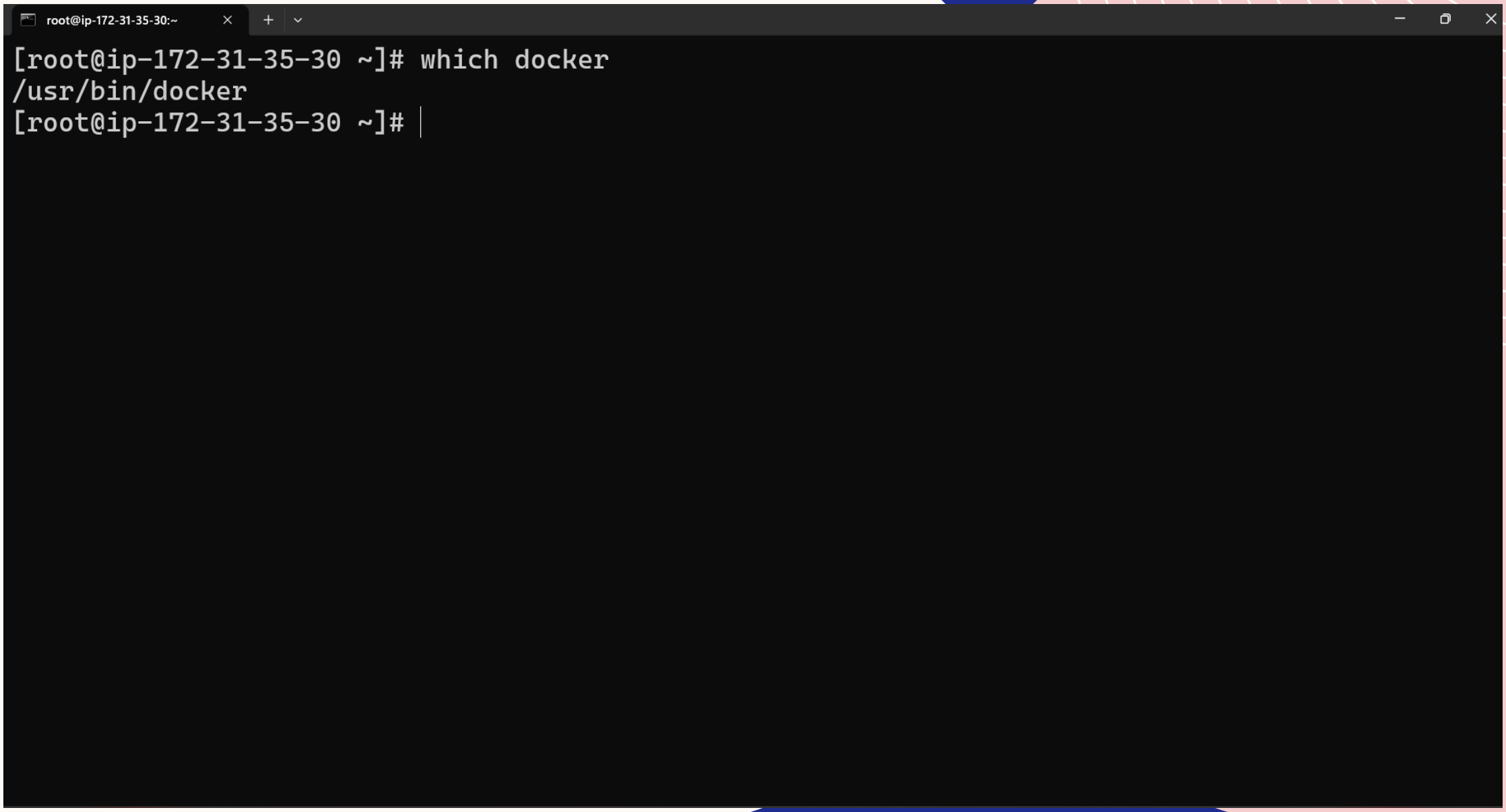
21. ls


root@ip-172-31-35-30:/var/lib
[root@ip-172-31-35-30 docker]# ls
buildkit containers image network overlay2 plugins runtimes swarm tmp trust volumes
[root@ip-172-31-35-30 docker]#

22. cd


root@ip-172-31-35-30:~
[root@ip-172-31-35-30 docker]# cd
[root@ip-172-31-35-30 ~]#

23. which docker



24. man docker

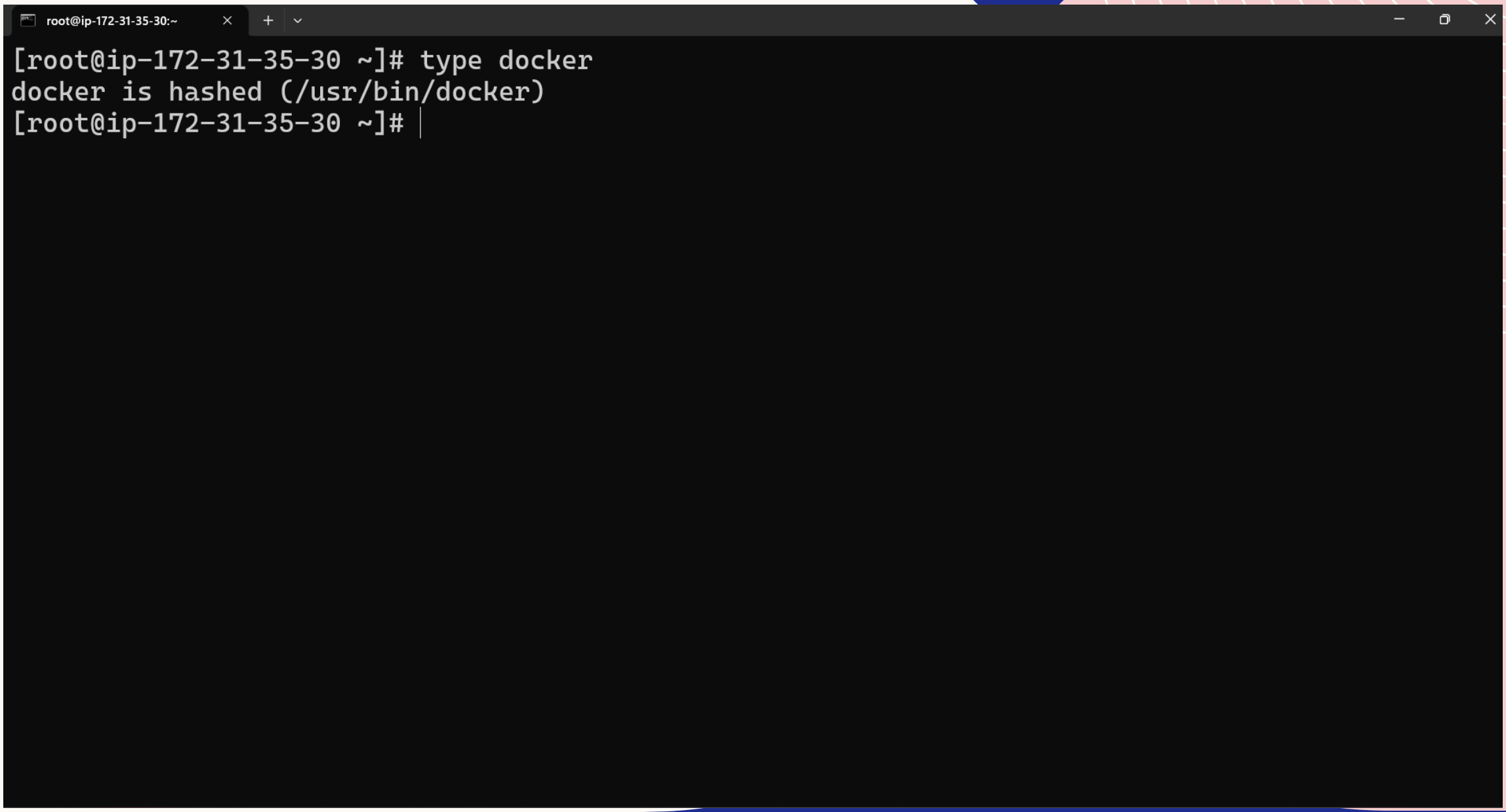
root@ip-172-31-35-30:~

```
DOCKER(1)                         Docker User Manuals                         DOCKER(1)

NAME
       docker - Docker image and container command line interface

SYNOPSIS
       docker [OPTIONS] COMMAND [ARG...]

       docker [--help|-v|--version]

DESCRIPTION
       docker is a client for interacting with the daemon (see dockerd(8)) through the CLI.

       The  Docker CLI has over 30 commands. The commands are listed below and each has its
       own man page which explain usage and arguments.

       To see the man page for a command run man docker .

OPTIONS
       --help
         Print usage statement

       --config=""
 Manual page docker(1) line 1 (press h for help or q to quit)
```

25. info docker

```
root@ip-172-31-35-30:~
DOCKER(1)                        Docker User Manuals                        DOCKER(1)

NAME
       docker - Docker image and container command line interface

SYNOPSIS
       docker [OPTIONS] COMMAND [ARG...]

       docker [--help|-v|--version]

DESCRIPTION
       docker is a client for interacting with the daemon (see dockerd(8)) through the CLI.

       The  Docker CLI has over 30 commands. The commands are listed below and each has its
       own man page which explain usage and arguments.

       To see the man page for a command run man docker .

OPTIONS
       --help
         Print usage statement

-----Info: (*manpages*)docker, 72 lines --Top-----------------------------------------
No menu item 'docker' in node '(dir)Top'
```

26. type docker



27. docker --help

root@ip-172-31-35-30:~

```
[root@ip-172-31-35-30 ~]# docker --help

Usage:  docker [OPTIONS] COMMAND

A self-sufficient runtime for containers

Options:
      --config string      Location of client config files (default "/root/.docker")
  -c, --context string     Name of the context to use to connect to the daemon
                           (overrides DOCKER_HOST env var and default context set with
                           "docker context use")
  -D, --debug              Enable debug mode
  -H, --host list          Daemon socket(s) to connect to
  -l, --log-level string   Set the logging level
                           ("debug"|"info"|"warn"|"error"|"fatal") (default "info")
      --tls                Use TLS; implied by --tlsverify
      --tlscacert string   Trust certs signed only by this CA (default
                           "/root/.docker/ca.pem")
      --tlscert string     Path to TLS certificate file (default "/root/.docker/cert.pem")
      --tlskey string      Path to TLS key file (default "/root/.docker/key.pem")
      --tlsverify          Use TLS and verify the remote
  -v, --version            Print version information and quit

Management Commands:
```

root@ip-172-31-35-30:~

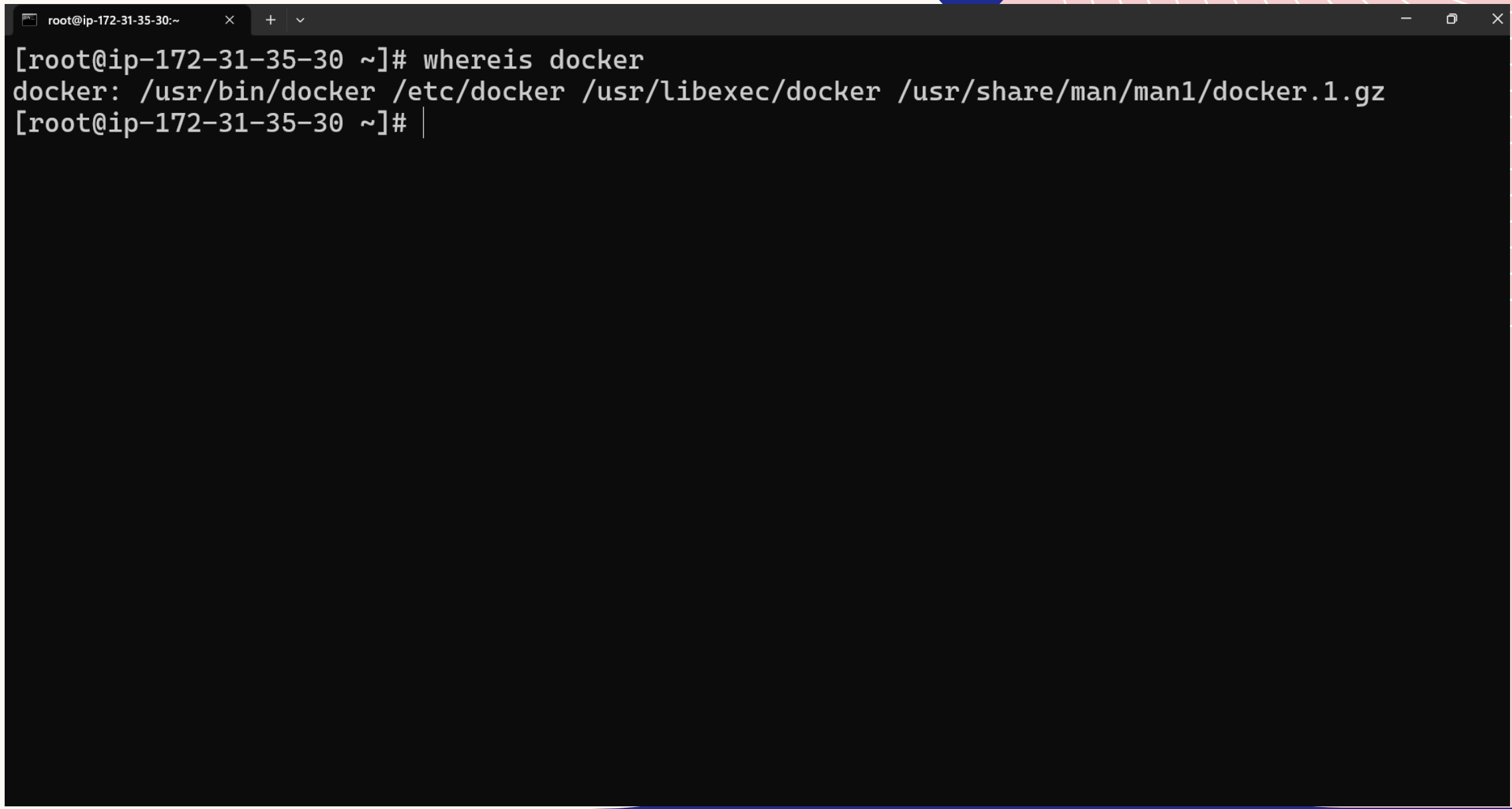
```
Management Commands:
  builder     Manage builds
  buildx*     Docker Buildx (Docker Inc., 0.0.0+unknown)
  config      Manage Docker configs
  container   Manage containers
  context     Manage contexts
  image       Manage images
  manifest    Manage Docker image manifests and manifest lists
  network     Manage networks
  node        Manage Swarm nodes
  plugin      Manage plugins
  secret      Manage Docker secrets
  service     Manage services
  stack       Manage Docker stacks
  swarm       Manage Swarm
  system      Manage Docker
  trust       Manage trust on Docker images
  volume      Manage volumes

Commands:
  attach      Attach local standard input, output, and error streams to a running container
  build       Build an image from a Dockerfile
  commit      Create a new image from a container's changes
  cp          Copy files/folders between a container and the local filesystem
```

root@ip-172-31-35-30:~

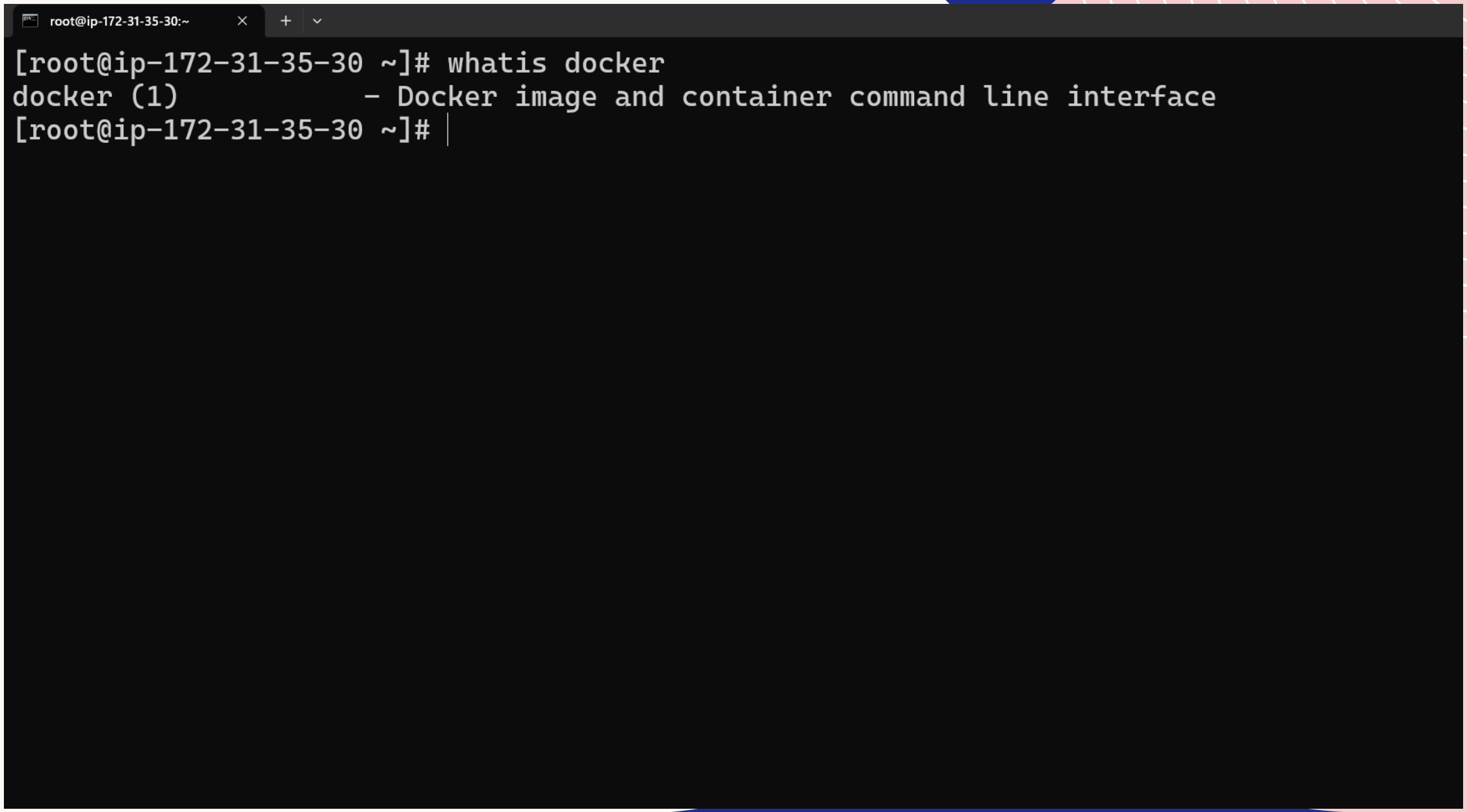
```
Commands:
  attach      Attach local standard input, output, and error streams to a running container
  build       Build an image from a Dockerfile
  commit      Create a new image from a container's changes
  cp          Copy files/folders between a container and the local filesystem
  create      Create a new container
  diff        Inspect changes to files or directories on a container's filesystem
  events      Get real time events from the server
  exec        Run a command in a running container
  export      Export a container's filesystem as a tar archive
  history     Show the history of an image
  images      List images
  import      Import the contents from a tarball to create a filesystem image
  info        Display system-wide information
  inspect     Return low-level information on Docker objects
  kill        Kill one or more running containers
  load        Load an image from a tar archive or STDIN
  login       Log in to a Docker registry
  logout      Log out from a Docker registry
  logs        Fetch the logs of a container
  pause       Pause all processes within one or more containers
  port        List port mappings or a specific mapping for the container
  ps          List containers
  pull        Pull an image or a repository from a registry
```

```
root@ip-172-31-35-30:~
  ps          List containers
  pull        Pull an image or a repository from a registry
  push        Push an image or a repository to a registry
  rename      Rename a container
  restart     Restart one or more containers
  rm          Remove one or more containers
  rmi         Remove one or more images
  run         Run a command in a new container
  save        Save one or more images to a tar archive (streamed to STDOUT by default)
  search      Search the Docker Hub for images
  start       Start one or more stopped containers
  stats       Display a live stream of container(s) resource usage statistics
  stop        Stop one or more running containers
  tag         Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE
  top         Display the running processes of a container
  unpause     Unpause all processes within one or more containers
  update      Update configuration of one or more containers
  version     Show the Docker version information
  wait        Block until one or more containers stop, then print their exit codes

Run 'docker COMMAND --help' for more information on a command.

To get more help with docker, check out our guides at https://docs.docker.com/go/guides/
[root@ip-172-31-35-30 ~]#
```

28. whereis docker



29. whatis docker



THANK YOU