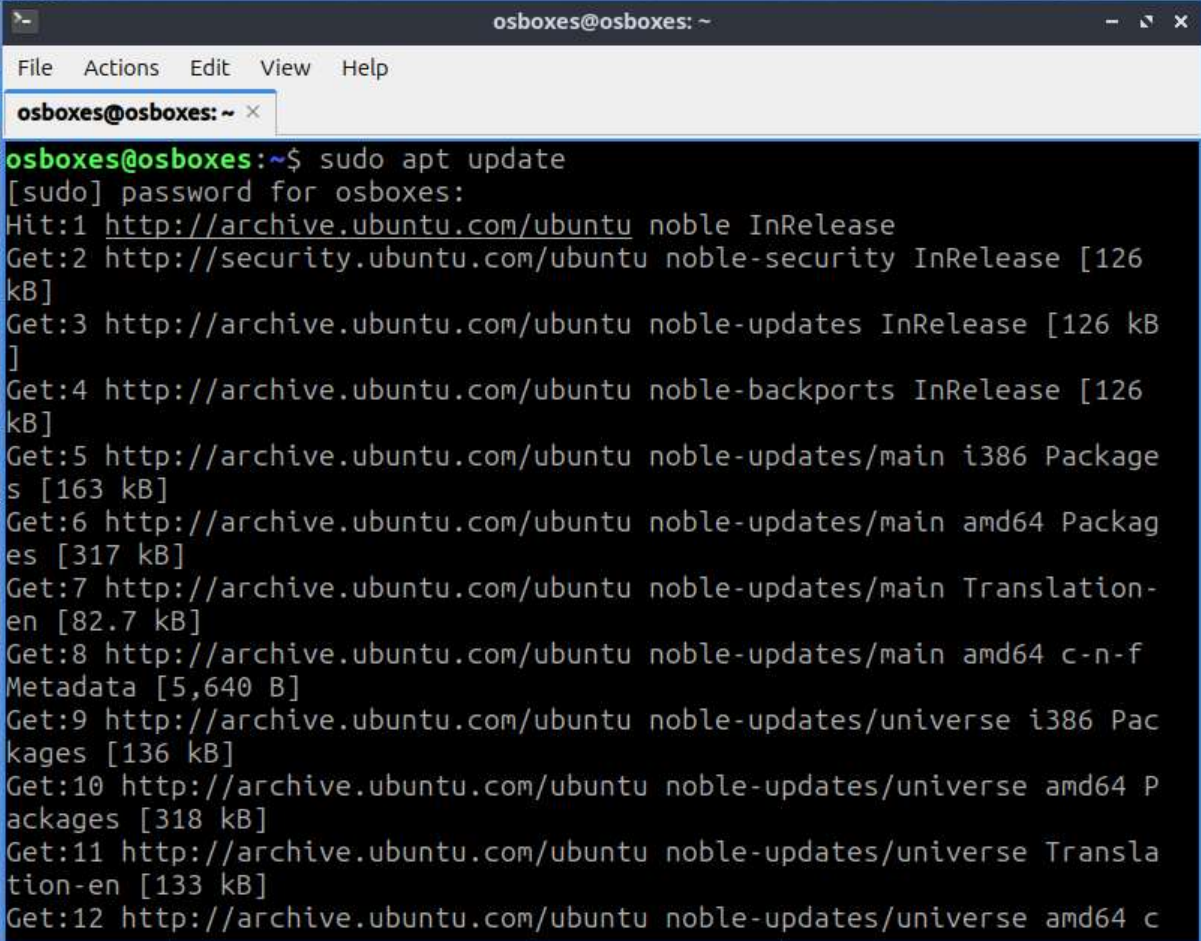


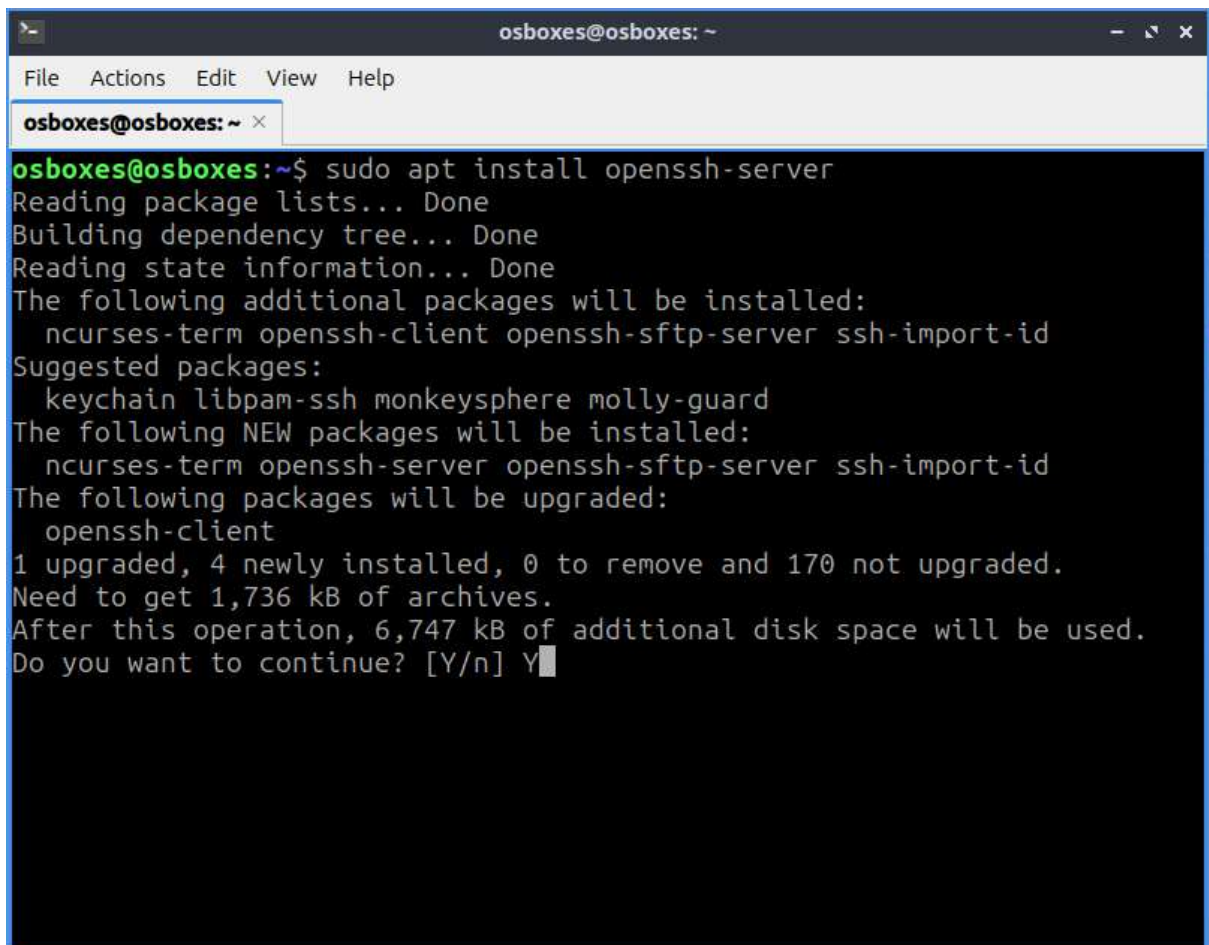
# NO LINUX

sudo apt update



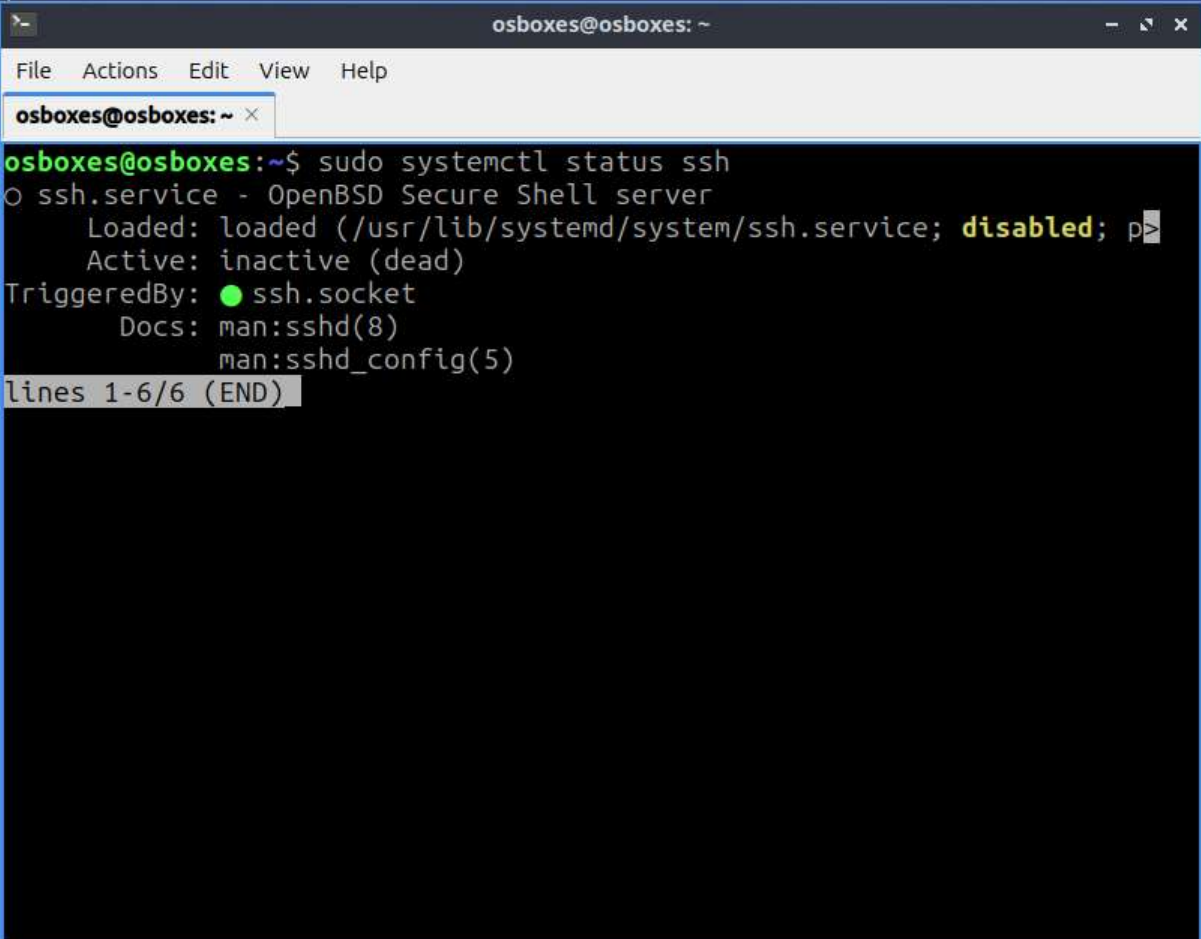
```
osboxes@osboxes: ~  
File Actions Edit View Help  
osboxes@osboxes: ~ x  
osboxes@osboxes:~$ sudo apt update  
[sudo] password for osboxes:  
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease  
Get:2 http://security.ubuntu.com/ubuntu noble-security InRelease [126  
kB]  
Get:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB  
]  
Get:4 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126  
kB]  
Get:5 http://archive.ubuntu.com/ubuntu noble-updates/main i386 Package  
s [163 kB]  
Get:6 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packag  
es [317 kB]  
Get:7 http://archive.ubuntu.com/ubuntu noble-updates/main Translation-  
en [82.7 kB]  
Get:8 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f  
Metadata [5,640 B]  
Get:9 http://archive.ubuntu.com/ubuntu noble-updates/universe i386 Pac  
kages [136 kB]  
Get:10 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 P  
ackages [318 kB]  
Get:11 http://archive.ubuntu.com/ubuntu noble-updates/universe Transla  
tion-en [133 kB]  
Get:12 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 c
```

```
sudo apt install openssh-server
```

A terminal window titled 'osboxes@osboxes: ~' with a menu bar (File, Actions, Edit, View, Help) and a tab labeled 'osboxes@osboxes: ~'. The terminal displays the command 'sudo apt install openssh-server' and its output. The output shows that several additional packages will be installed along with the requested package, and it provides details on disk space requirements and a confirmation prompt.

```
osboxes@osboxes:~$ sudo apt install openssh-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  ncurses-term openssh-client openssh-sftp-server ssh-import-id
Suggested packages:
  keychain libpam-ssh monkeysphere molly-guard
The following NEW packages will be installed:
  ncurses-term openssh-server openssh-sftp-server ssh-import-id
The following packages will be upgraded:
  openssh-client
1 upgraded, 4 newly installed, 0 to remove and 170 not upgraded.
Need to get 1,736 kB of archives.
After this operation, 6,747 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
```

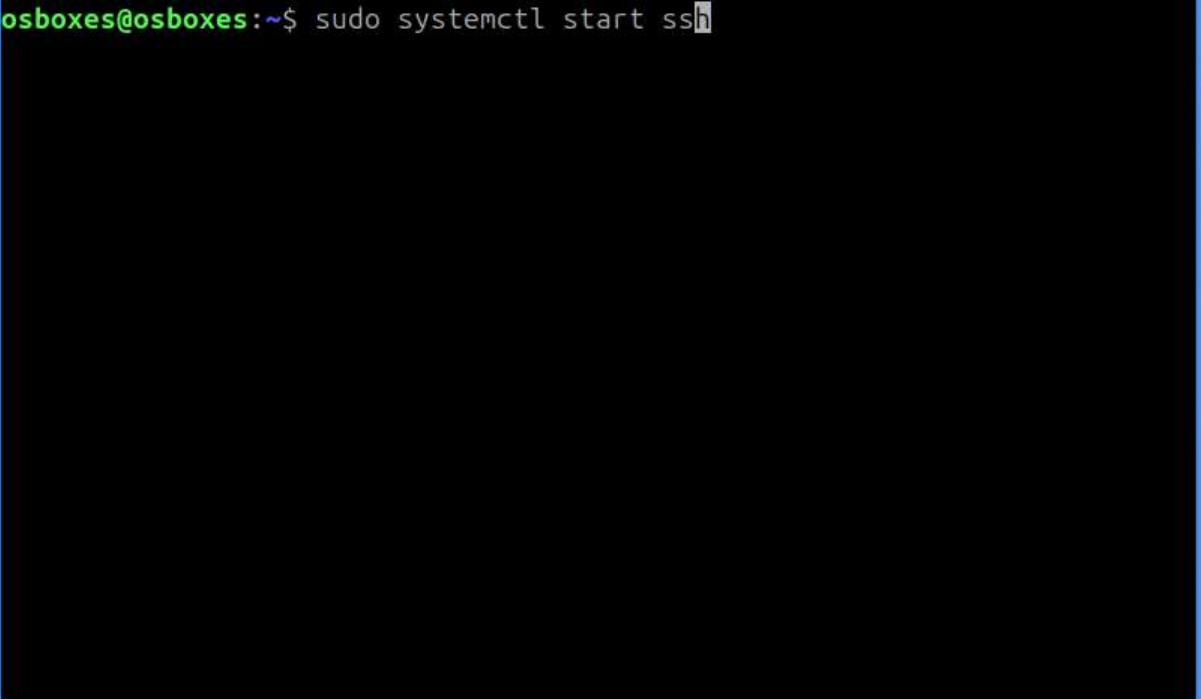
```
sudo systemctl status ssh
```



A terminal window titled "osboxes@osboxes: ~" with a menu bar (File, Actions, Edit, View, Help) and a tab labeled "osboxes@osboxes: ~". The terminal displays the output of the command "sudo systemctl status ssh". The output shows that the "ssh.service" is loaded but disabled and inactive. It also lists the trigger "ssh.socket" and documentation files "man:sshd(8)" and "man:sshd\_config(5)". The prompt "lines 1-6/6 (END)" is visible at the bottom of the output.

```
osboxes@osboxes:~$ sudo systemctl status ssh
O ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/usr/lib/systemd/system/ssh.service; disabled; p>
   Active: inactive (dead)
TriggeredBy: ● ssh.socket
   Docs: man:sshd(8)
        man:sshd_config(5)
lines 1-6/6 (END)
```

```
sudo systemctl start ssh
```



A terminal window titled "osboxes@osboxes: ~" with a menu bar (File, Actions, Edit, View, Help) and a tab labeled "osboxes@osboxes: ~". The terminal displays the command "sudo systemctl start ssh" entered at the prompt. The rest of the terminal is empty.

```
osboxes@osboxes:~$ sudo systemctl start ssh
```

```
sudo systemctl enable ssh
```

```
osboxes@osboxes:~$ sudo systemctl enable ssh
Synchronizing state of ssh.service with SysV service script with /usr/
lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable ssh
Created symlink /etc/systemd/system/ssh.service → /usr/lib/systemd/sy
stem/ssh.service.
Created symlink /etc/systemd/system/multi-user.target.wants/ssh.servic
e → /usr/lib/systemd/system/ssh.service.
osboxes@osboxes:~$
```

```
sudo adduser nome_do_usuario
```

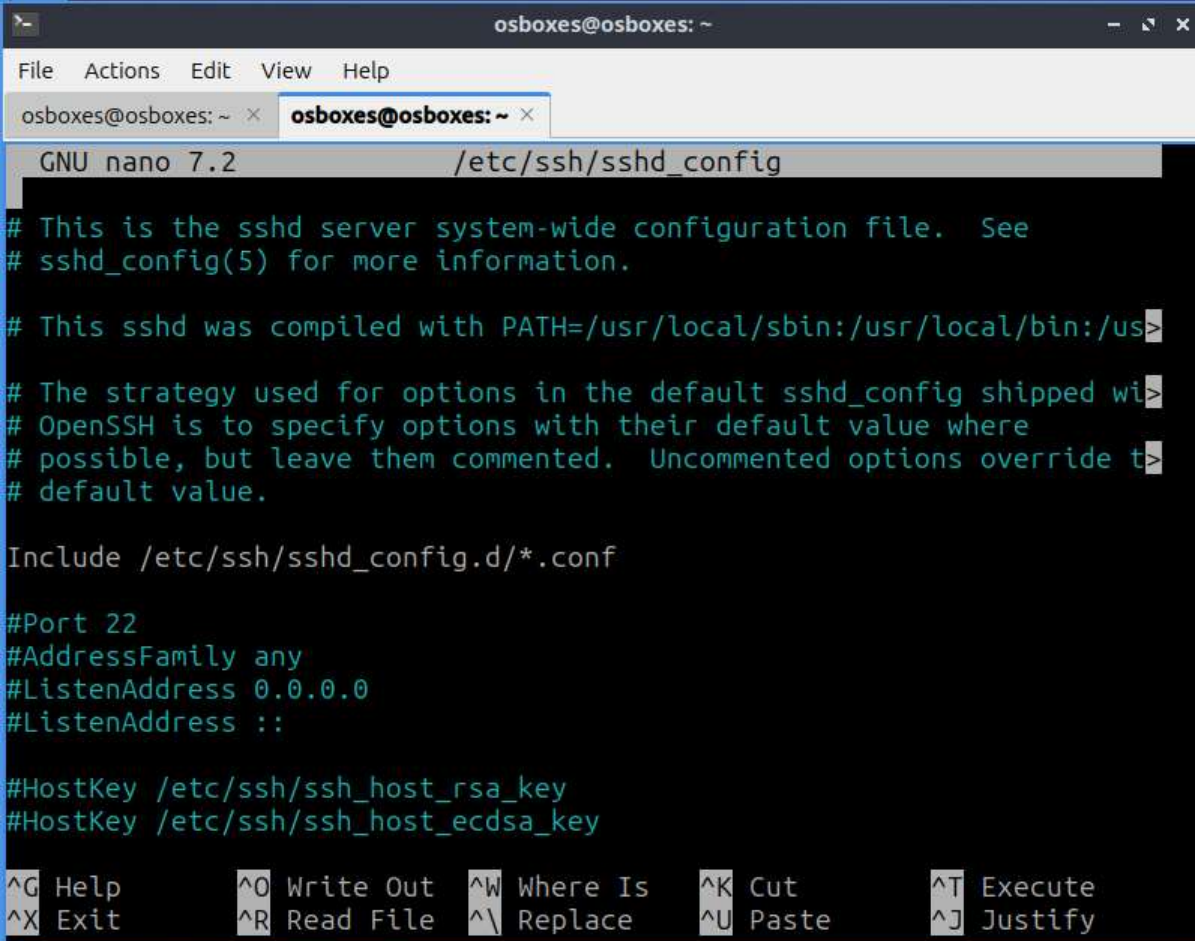
CRIE O NOME E A SENHA DO USUÁRIO

EM FULL NAME [], ROOM NUMBER[], WORK PHONE[] E OTHER[] DÊ ENTER

```
osboxes@osboxes: ~
File Actions Edit View Help
osboxes@osboxes: ~ x osboxes@osboxes: ~ x
osboxes@osboxes:~$ sudo adduser cacau123
info: Adding user `cacau123' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `cacau123' (1001) ...
info: Adding new user `cacau123' (1001) with group `cacau123 (1001)' .
..
info: Creating home directory `/home/cacau123' ...
info: Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for cacau123
Enter the new value, or press ENTER for the default
    Full Name []:
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] Y
info: Adding new user `cacau123' to supplemental / extra groups `users'
...
info: Adding user `cacau123' to group `users' ...
osboxes@osboxes:~$
```

```
sudo nano /etc/ssh/sshd_config
```

PARA ABRIR A GNU













```
osboxes@osboxes: ~  
File Actions Edit View Help  
osboxes@osboxes: ~ x osboxes@osboxes: ~ x  
GNU nano 7.2 /etc/ssh/sshd_config  
# This is the sshd server system-wide configuration file. See  
# sshd_config(5) for more information.  
# This sshd was compiled with PATH=/usr/local/sbin:/usr/local/bin:/usr  
# The strategy used for options in the default sshd_config shipped with  
# OpenSSH is to specify options with their default value where  
# possible, but leave them commented. Uncommented options override the  
# default value.  
Include /etc/ssh/sshd_config.d/*.conf  
  
#Port 22  
#AddressFamily any  
#ListenAddress 0.0.0.0  
#ListenAddress ::  
  
#HostKey /etc/ssh/ssh_host_rsa_key  
#HostKey /etc/ssh/ssh_host_ecdsa_key  
  
^G Help      ^O Write Out  ^W Where Is  ^K Cut       ^T Execute  
^X Exit      ^R Read File  ^\ Replace   ^U Paste     ^J Justify
```

Editar esse trecho dentro da GNU para conter as seguintes instruções:

```
Subsystem sftp /usr/lib/openssh/sftp-server
Match User nome_do_usuario
    ChrootDirectory /home/nome_do_usuario
    ForceCommand /usr/lib/openssh/sftp-server
    X11Forwarding no
    AllowTcpForwarding no
```

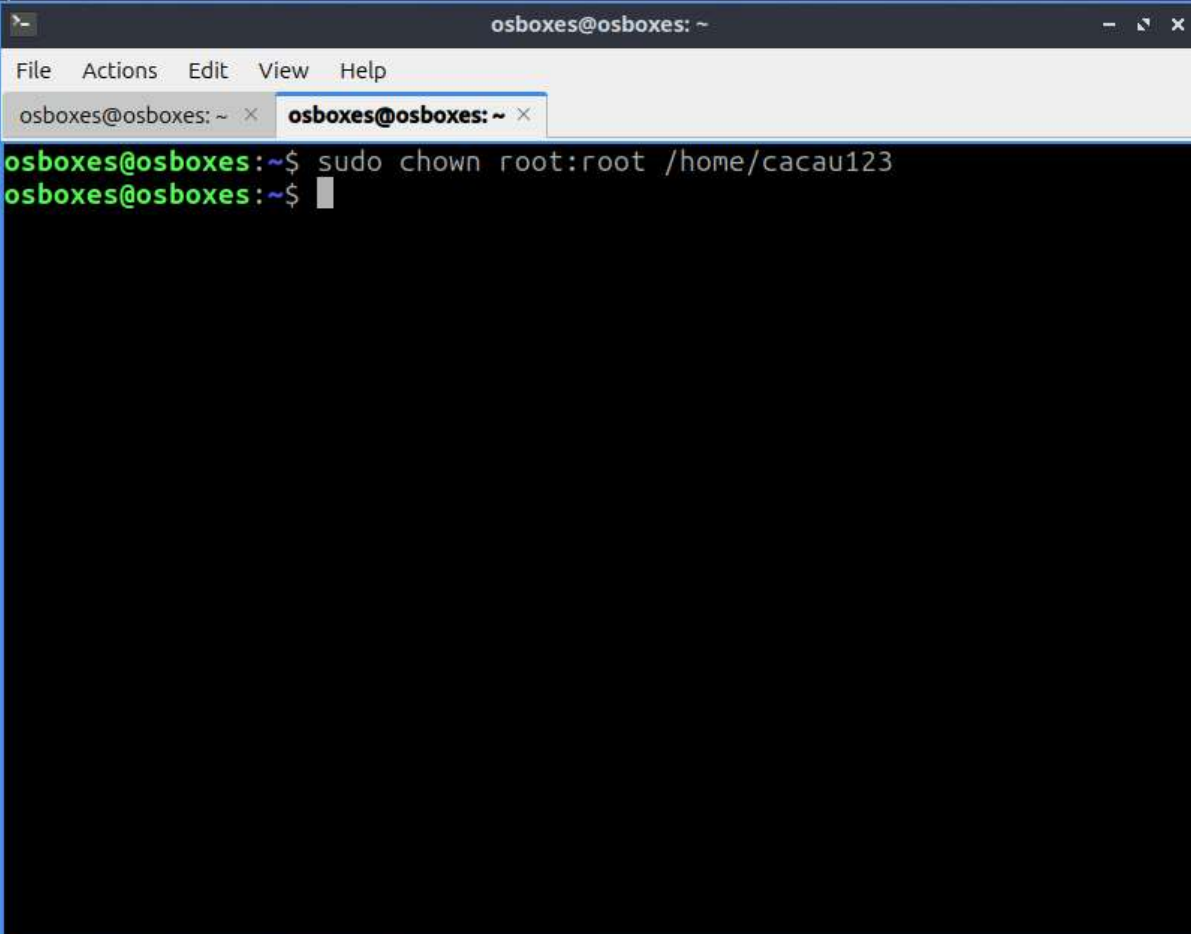
```
# override default of no subsystems
Subsystem      sftp      /usr/lib/openssh/sftp-server

# Example of overriding settings on a per-user basis
Match User cacau123
    ChrootDirectory /home/cacau123
    ForceCommand /usr/lib/openssh/sftp-server
    X11Forwarding no
    AllowTcpForwarding no
# PermitTTY no
# ForceCommand cvs server
```

 ^G Help	 ^O Write Out	 ^W Where Is	 ^K Cut	 ^T Execute
 ^X Exit	 ^R Read File	 ^\ Replace	 ^U Paste	 ^J Justify




```
sudo chown root:root /home/nome_do_usuario
```



A terminal window titled "osboxes@osboxes: ~" with a menu bar (File, Actions, Edit, View, Help) and two tabs. The active tab shows the command "sudo chown root:root /home/cacau123" being executed, followed by a new prompt line.

```
osboxes@osboxes:~$ sudo chown root:root /home/cacau123
osboxes@osboxes:~$
```

```
sudo chmod 775 /home/nome_do_usuario
```



A terminal window showing the command "sudo chmod 775 /home/cacau123" being executed, followed by a new prompt line.

```
osboxes@osboxes:~$ sudo chmod 775 /home/cacau123
osboxes@osboxes:~$
```

para criar o diretório de uploads

```
sudo mkdir /home/nome_do_usuario/uploads
```

```
osboxes@osboxes:~$ sudo mkdir /home/cacau123/uploads  
osboxes@osboxes:~$
```

Altera a propriedade do diretório para o usuário e grupo do usuário

```
sudo chown nome_do_usuario:nome_do_usuario/home/nome_do_usuario/uploads
```

```
osboxes@osboxes:~$ sudo chown cacau123:cacau123 /home/cacau123/uploads  
osboxes@osboxes:~$
```



# NO WINDOWS

sftp nome\_do\_usuario@ip\_do\_servidor

E digite a senha do usuário

```

Prompt de Comando - sftp cacau123@10.112.10.211
Microsoft Windows [versão 10.0.19045.4717]
(c) Microsoft Corporation. Todos os direitos reservados.

C:\Users\Alunos>sftp
usage: sftp [-46aCfpqrv] [-B buffer_size] [-b batchfile] [-c cipher]
          [-D sftp_server_path] [-F ssh_config] [-i identity_file]
          [-J destination] [-l limit] [-o ssh_option] [-P port]
          [-R num_requests] [-S program] [-s subsystem | sftp_server]
          destination

C:\Users\Alunos>sftp cacau123@10.112.10.211
The authenticity of host '10.112.10.211 (10.112.10.211)' can't be established.
ECDSA key fingerprint is SHA256:LmvQqS8QnvvFtB/Ocpmd3VeDon9VsNETVzPvud1FdUg.
Are you sure you want to continue connecting (yes/no/[fingerprint])?
Warning: Permanently added '10.112.10.211' (ECDSA) to the list of known hosts.
cacau123@10.112.10.211's password:
Connected to 10.112.10.211.
sftp>
```

ls

para ver o conteúdo dentro do servidor

```

Prompt de Comando - sftp cacau123@10.112.10.211
Microsoft Windows [versão 10.0.19045.4717]
(c) Microsoft Corporation. Todos os direitos reservados.

C:\Users\Alunos>sftp
usage: sftp [-46aCfpqrv] [-B buffer_size] [-b batchfile] [-c cipher]
          [-D sftp_server_path] [-F ssh_config] [-i identity_file]
          [-J destination] [-l limit] [-o ssh_option] [-P port]
          [-R num_requests] [-S program] [-s subsystem | sftp_server]
          destination

C:\Users\Alunos>sftp cacau123@10.112.10.211
The authenticity of host '10.112.10.211 (10.112.10.211)' can't be established.
ECDSA key fingerprint is SHA256:LmvQqS8QnvvFtB/Ocpmd3VeDon9VsNETVzPvud1FdUg.
Are you sure you want to continue connecting (yes/no/[fingerprint])?
Warning: Permanently added '10.112.10.211' (ECDSA) to the list of known hosts.
cacau123@10.112.10.211's password:
Connected to 10.112.10.211.
sftp> ls
uploads
sftp>
```



exit

para encerrar a sessão

```
sftp> exit  
C:\Users\Alunos>
```

## EXTRAS:

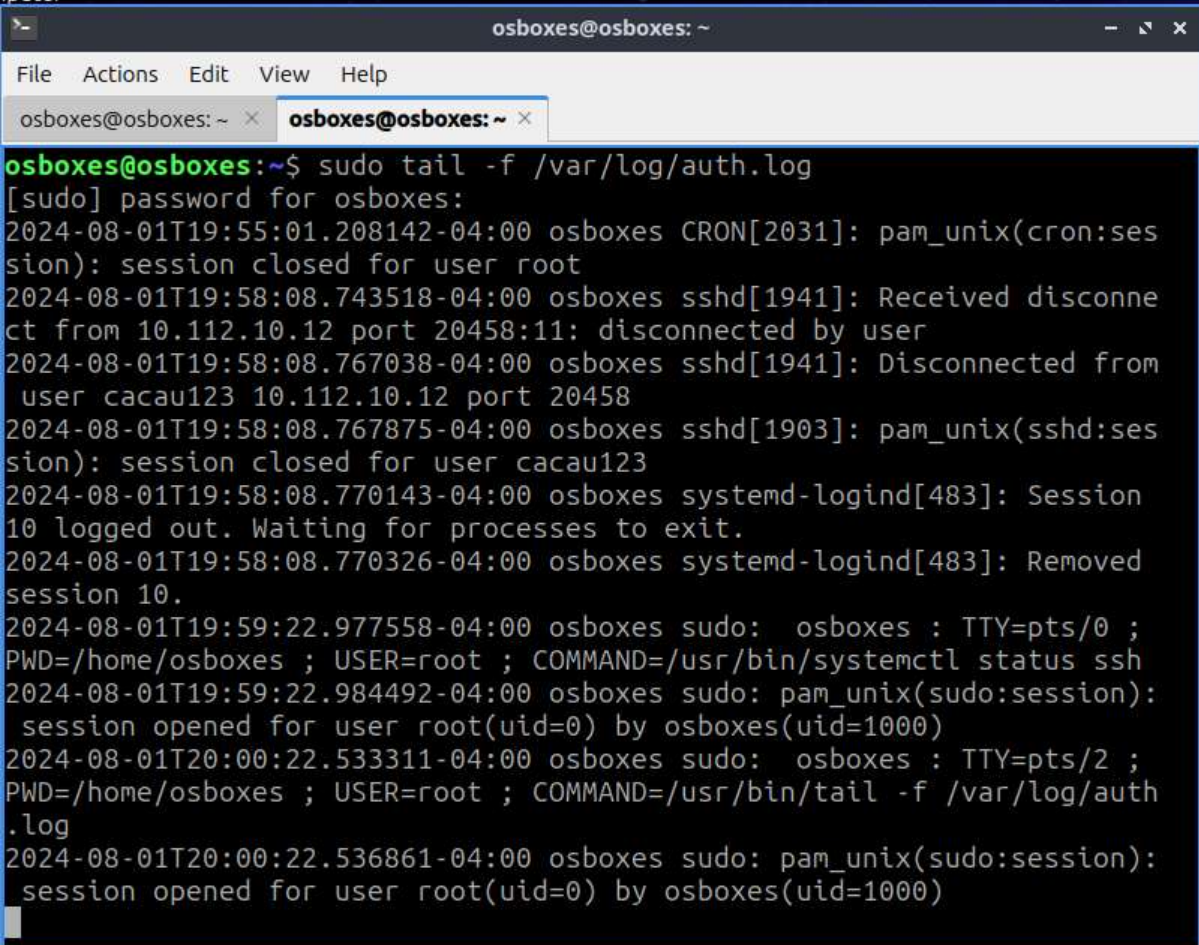
1. Certifique-se que o SSH esteja **active(running)** durante o processo.

sudo systemctl status ssh

```
osboxes@osboxes: ~  
File Actions Edit View Help  
osboxes@osboxes: ~ x  
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
osboxes@osboxes:~$ sudo systemctl status ssh  
[sudo] password for osboxes:  
● ssh.service - OpenBSD Secure Shell server  
   Loaded: loaded (/usr/lib/systemd/system/ssh.service; enabled; pr>  
   Active: active (running) since Thu 2024-08-01 19:34:12 EDT; 25mi>  
   TriggeredBy: ● ssh.socket  
     Docs: man:sshd(8)  
           man:sshd_config(5)  
   Process: 767 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=>  
   Main PID: 781 (sshd)  
     Tasks: 1 (limit: 7242)  
    Memory: 2.2M (peak: 19.5M)  
       CPU: 172ms  
    CGroup: /system.slice/ssh.service  
            └─781 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 st>  
Aug 01 19:34:12 osboxes systemd[1]: Starting ssh.service - OpenBSD Se>  
Aug 01 19:34:12 osboxes sshd[781]: Server listening on :: port 22.  
Aug 01 19:34:12 osboxes systemd[1]: Started ssh.service - OpenBSD Sec>  
Aug 01 19:43:27 osboxes sshd[1903]: Accepted password for cacau123 fr>  
Aug 01 19:43:27 osboxes sshd[1903]: pam_unix(sshd:session): session o>  
lines 1-19/19 (END)
```

2. Após o processo é possível verificar o histórico (log).

```
sudo tail -f /var/log/auth.log
```



The screenshot shows a terminal window titled 'osboxes@osboxes: ~'. The terminal displays the command 'sudo tail -f /var/log/auth.log' and its output. The output shows several log entries from the system's authentication log, including session closures for 'root' and 'cacau123', a disconnection from 'cacau123', and the opening of a new session for 'root' by 'osboxes'.

```
osboxes@osboxes:~$ sudo tail -f /var/log/auth.log
[sudo] password for osboxes:
2024-08-01T19:55:01.208142-04:00 osboxes CRON[2031]: pam_unix(cron:session): session closed for user root
2024-08-01T19:58:08.743518-04:00 osboxes sshd[1941]: Received disconnect from 10.112.10.12 port 20458:11: disconnected by user
2024-08-01T19:58:08.767038-04:00 osboxes sshd[1941]: Disconnected from user cacau123 10.112.10.12 port 20458
2024-08-01T19:58:08.767875-04:00 osboxes sshd[1903]: pam_unix(sshd:session): session closed for user cacau123
2024-08-01T19:58:08.770143-04:00 osboxes systemd-logind[483]: Session 10 logged out. Waiting for processes to exit.
2024-08-01T19:58:08.770326-04:00 osboxes systemd-logind[483]: Removed session 10.
2024-08-01T19:59:22.977558-04:00 osboxes sudo: osboxes : TTY=pts/0 ; PWD=/home/osboxes ; USER=root ; COMMAND=/usr/bin/systemctl status ssh
2024-08-01T19:59:22.984492-04:00 osboxes sudo: pam_unix(sudo:session): session opened for user root(uid=0) by osboxes(uid=1000)
2024-08-01T20:00:22.533311-04:00 osboxes sudo: osboxes : TTY=pts/2 ; PWD=/home/osboxes ; USER=root ; COMMAND=/usr/bin/tail -f /var/log/auth.log
2024-08-01T20:00:22.536861-04:00 osboxes sudo: pam_unix(sudo:session): session opened for user root(uid=0) by osboxes(uid=1000)
```