



Universidad Galileo

Carrera: Técnico universitario en desarrollo Full stack

Curso: Introducción a la nube

Sede: Virtual

Conexión de un servidor por ssh y vsftpd

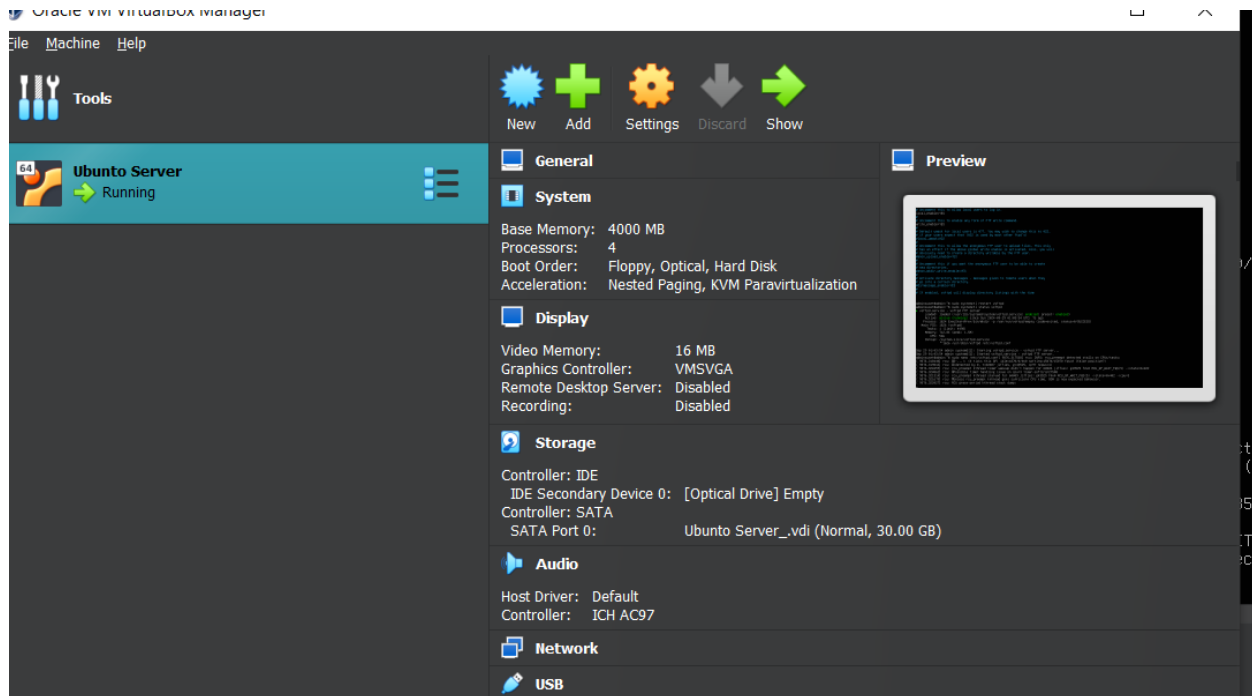
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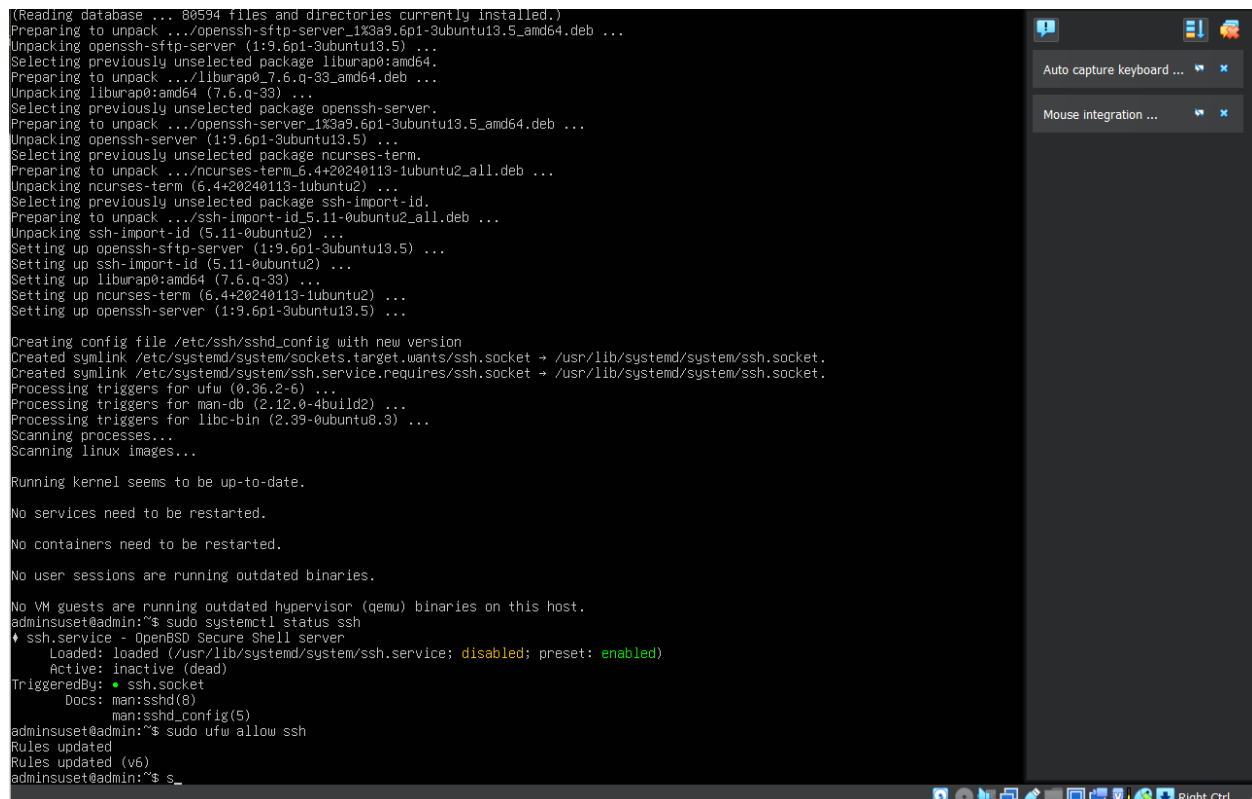
Sección: T

Fecha de entrega: 09-29-2024

INSTALACION DE SSH

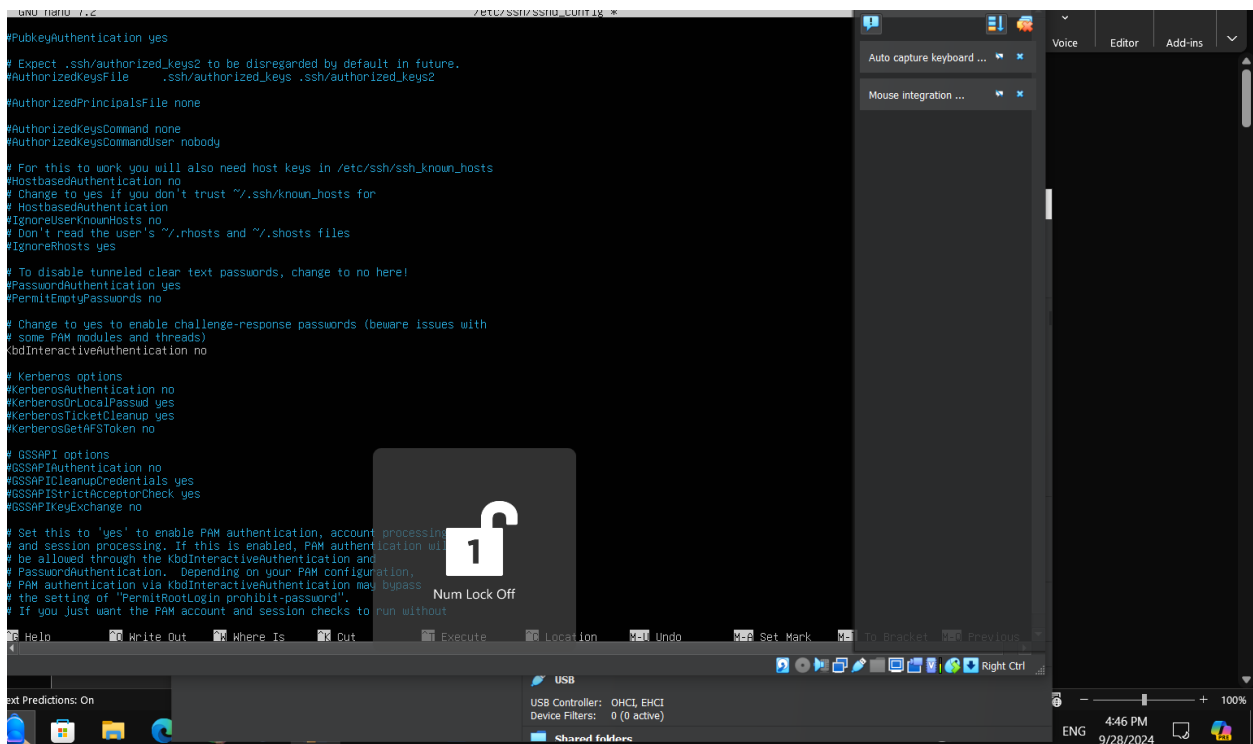


Inicio mi maquina virtual en VirtualBox



En esta sección instalemos ssh desde nuestra máquina virtual que ya hemos creado con ubuntu server la line de comandos se muestra y se ejecuta el comando `sudo apt install openssh-server`

Configurando SSH



```
ubuntu@ubuntu:~$ sudo apt install openssh-server
[sudo] password for ubuntu:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  openssh-client
The following NEW packages will be installed:
  openssh-client openssh-server
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
Need to get 6,840 kB of archives.
After this operation, 30.7 MB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 openssh-client amd64 1:9.9p1-3ubuntu0.1 [4,255 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 openssh-server amd64 1:9.9p1-3ubuntu0.1 [2,585 kB]
Fetched 6,840 kB in 2s (3,420 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package openssh-client.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../openssh-client_1%3A9.9p1-3ubuntu0.1_amd64.deb ...
Unpacking openssh-client (1:9.9p1-3ubuntu0.1) ...
Selecting previously unselected package openssh-server.
Preparing to unpack .../openssh-server_1%3A9.9p1-3ubuntu0.1_amd64.deb ...
Unpacking openssh-server (1:9.9p1-3ubuntu0.1) ...
Setting up openssh-client (1:9.9p1-3ubuntu0.1) ...
Setting up openssh-server (1:9.9p1-3ubuntu0.1) ...
/usr/sbin/sshd: warning: Rhosts authentication is deprecated and will be disabled in the future.
/usr/sbin/sshd: warning: Password authentication is deprecated and will be disabled in the future.
/usr/sbin/sshd: warning: Keyboard-interactive authentication is deprecated and will be disabled in the future.
/usr/sbin/sshd: warning: GSSAPI authentication is deprecated and will be disabled in the future.
/usr/sbin/sshd: warning: Hostbased authentication is deprecated and will be disabled in the future.
/usr/sbin/sshd: warning: Don't read the user's ~/.rhosts and ~/.shosts files
/usr/sbin/sshd: warning: IgnoreRhosts yes
/usr/sbin/sshd: warning: To disable tunneled clear text passwords, change to no here!
/usr/sbin/sshd: warning: Change to yes to enable challenge-response passwords (beware issues with
some PAM modules and threads)
/usr/sbin/sshd: warning: kbdInteractiveAuthentication no
/usr/sbin/sshd: warning: Kerberos options
/usr/sbin/sshd: warning: #GSSAPI options
/usr/sbin/sshd: warning: # Set this to 'yes' to enable PAM authentication, account processing
and session processing. If this is enabled, PAM authentication will
be allowed through the kbdInteractiveAuthentication and
PasswordAuthentication. Depending on your PAM configuration,
PAM authentication via kbdInteractiveAuthentication may bypass
the setting of "PermitRootLogin prohibit-password".
If you just want the PAM account and session checks to run without
[...]
```

En esta sección configuramos ssh para que nos permita conectarnos desde nuestra maquina local. Ingresamos ala configuraciones con el comando `sudo nano /etc/ssh.conf`

ME CONECTO AL SERVIDOR DESDE MI PC LOCAL USANDO LA TERMINAL (SSH)

```
adminset@admin: ~
Permission denied, please try again.
suset@192.168.0.7's password:
Permission denied, please try again.
suset@192.168.0.7's password:
Connection closed by 192.168.0.7 port 22

C:\Users\suset>ping 192.168.0.7

Pinging 192.168.0.7 with 32 bytes of data:
Reply from 192.168.0.7: bytes=32 time<1ms TTL=64
Reply from 192.168.0.7: bytes=32 time<1ms TTL=64
Reply from 192.168.0.7: bytes=32 time<1ms TTL=64
Reply from 192.168.0.7: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.0.7:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\suset>ssh 192.168.0.7
suset@192.168.0.7's password:
Permission denied, please try again.
suset@192.168.0.7's password:
Permission denied, please try again.
suset@192.168.0.7's password:
Connection closed by 192.168.0.7 port 22

C:\Users\suset>ssh adminset@192.168.0.7
adminset@192.168.0.7's password:
adminset@admin:~$
```

En esta sección ire a mi maquina local e ingreso a la terminal o CMD presionando control + r y escribiendo cmd ahí me conecto a mi servidor por ssh con el comando `ssh usuario@ip`

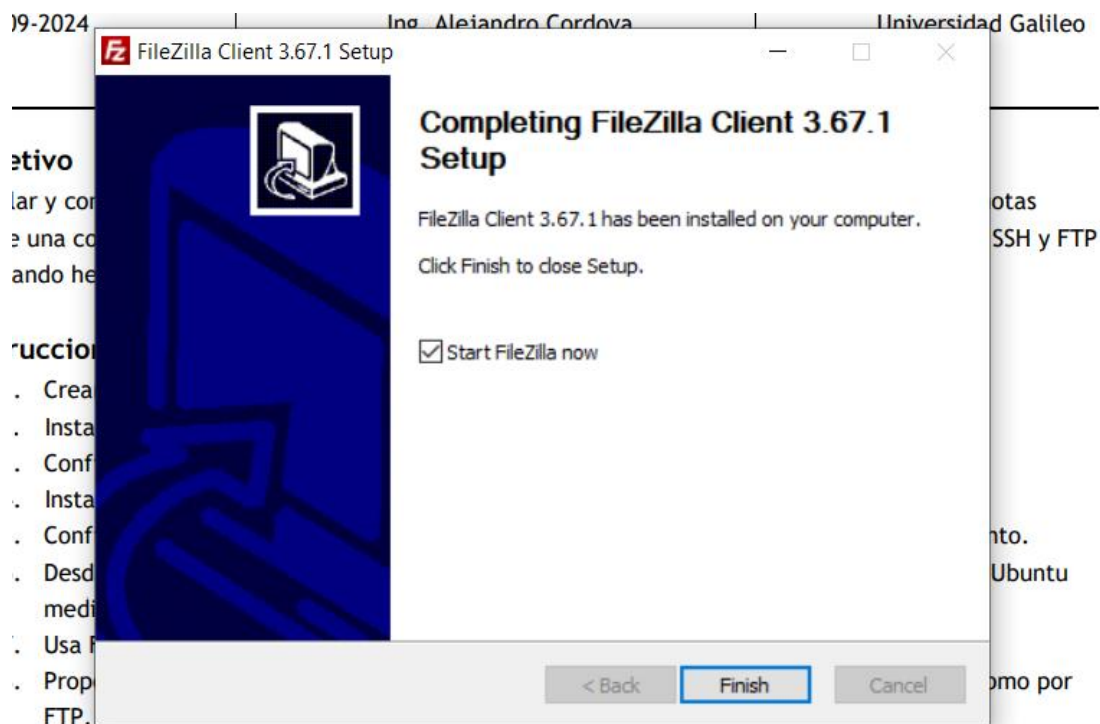
CONECTADO CORRECTAMENTE

```
adminset@admin: ~
--1431 "sshd: adminset@pts/0"
--1432 -bash
--1452 sudo systemctl status ssh
--1453 sudo systemctl status ssh
--1454 systemctl status ssh
--1455 less

ep 29 00:36:34 admin sshd[1426]: error: Could not get shadow information for NOUSER
ep 29 00:36:34 admin sshd[1426]: Failed password for invalid user suset from 192.168.0.6 port 59400 ssh2
ep 29 00:36:42 admin sshd[1426]: Failed password for invalid user suset from 192.168.0.6 port 59400 ssh2
ep 29 00:38:14 admin sshd[1429]: Accepted password for adminset from 192.168.0.6 port 59435 ssh2
ep 29 00:39:49 admin sudo[1445]: pam_unix(sudo:auth): authentication failure; logname=adminset uid=1000 euid=0 tty=/dev/pts/0
ep 29 00:39:54 admin sudo[1445]: adminset : TTY=pts/0 ; PWD=/home/adminset ; USER=root ; COMMAND=/usr/bin/systemctl
ep 29 00:39:54 admin sudo[1445]: pam_unix(sudo:session): session opened for user root(uid=0) by adminset(uid=1000)
ep 29 00:40:23 admin sudo[1445]: pam_unix(sudo:session): session closed for user root
ep 29 00:40:49 admin sudo[1452]: adminset : TTY=pts/0 ; PWD=/home/adminset ; USER=root ; COMMAND=/usr/bin/systemctl
ep 29 00:40:49 admin sudo[1452]: pam_unix(sudo:session): session opened for user root(uid=0) by adminset(uid=1000)

adminset@admin:~$ pwe
command 'pwe' not found, did you mean:
  command 'wpe' from deb xwpe (1.5.30a-3)
  command 'xwe' from deb xwpe (1.5.30a-3)
  command 'pee' from deb moreutils (0.67-1)
  command 'we' from deb xwpe (1.5.30a-3)
  command 'pwd' from deb coreutils (9.4-2ubuntu2)
  command 'pwn' from deb python3-pwntools (4.11.1-1)
Try: sudo apt install <deb name>
adminset@admin:~$ pwd
/home/adminset
adminset@admin:~$
```

INSTALAR VSTPD



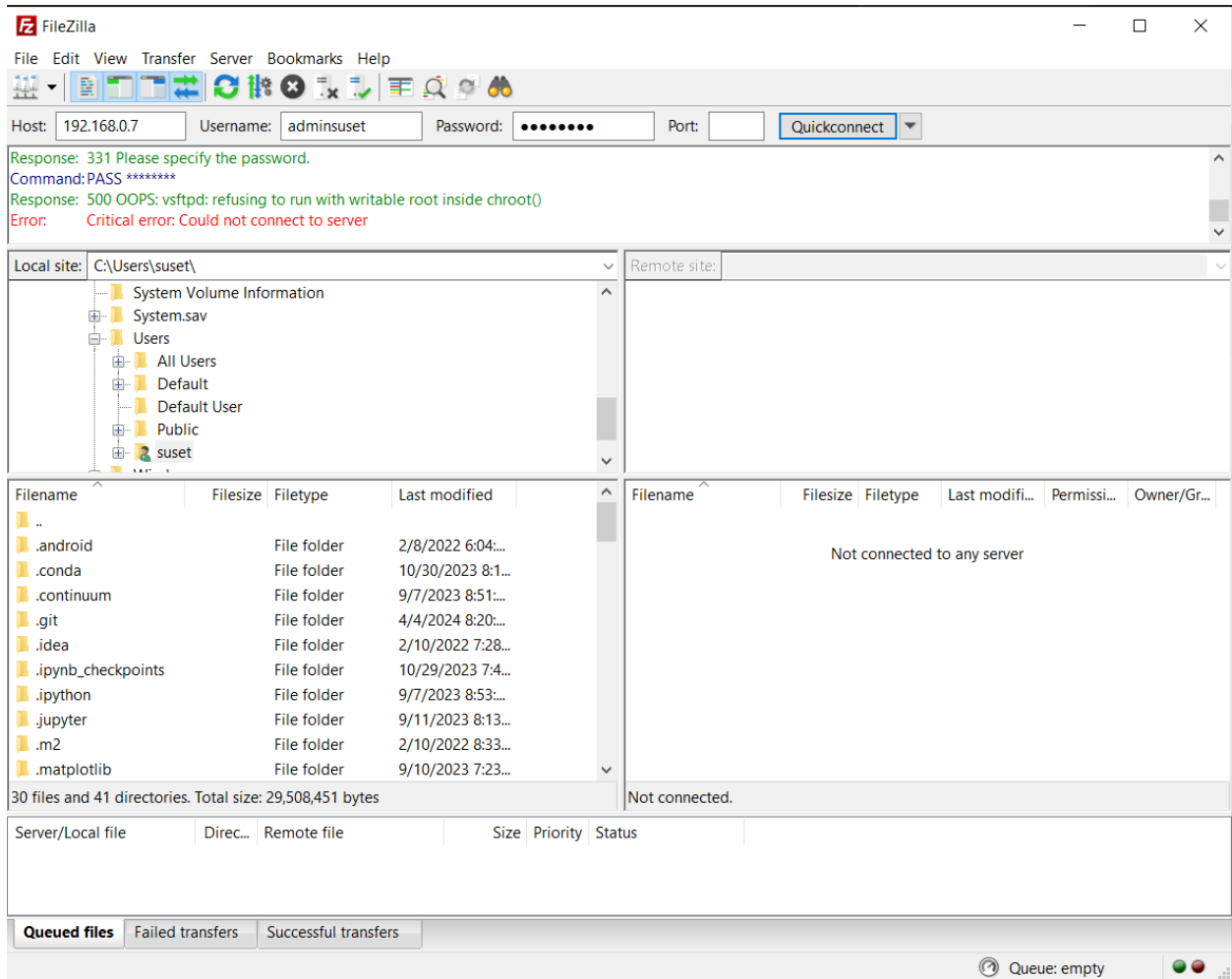
nato

Documento en formato PDF que incluya:

- o Capturas de pantalla de la instalación de SSH y FTP.

CONECTANDO VSFTPD

En esta sección me conecto por medio de VSFTPD con una herramienta instalo File Zilla en la sección de arriba ingreso la ip del servidor el usuario y la contraseña así como el puerto al que me quiero conectar usualmente es 21



Como lo resolvemos?

Ingresamos a la configuración de vsftpd con el comando `sudo nano etc/vsftpd.conf` desde mi maquina virtual y allí veo que configuraciones están mal regularmente debo de verificar que este


Listen= yes

Writable=yes etc.

GUARDANDO LOS CAMBIOS Y RESTAURO

```
#chroot_list_enable=YES
# (default follows)
#chroot_list_file=/etc/vsftpd.chroot_list
#
# You may activate the "-R" option to the builtin ls. This is disabled by
# default to avoid remote users being able to cause excessive I/O on large
# sites. However, some broken FTP clients such as "nfsftp" and "mirror" assume
# the presence of the "-R" option, so there is a strong case for enabling it.
#ls_recurse_enable=YES
#
# Customization
#
# Some of vsftpd's settings don't fit the filesystem layout by
# default.
#
# This option should be the name of a directory which is empty. Also, the
# directory should not be writable by the ftp user. This directory is used
# as a secure chroot() jail at times vsftpd does not require filesystem
# access.
#secure_chroot_dir=/var/run/vsftpd/empty
#
# This string is the name of the PAM service vsftpd will use.
#pam_service_name=vsftpd
#
# This option specifies the location of the RSA certificate to use for SSL
# encrypted connections.
#rsa_cert_file=/etc/ssl/certs/ssl-cert-snakeoil.pem
#rsa_private_key_file=/etc/ssl/private/ssl-cert-snakeoil.key
#ssl_enable=NO
#
# Uncomment this to indicate that vsftpd use a utf8 filesystem.
#utf8_filesystem=YES

adminusset@admin:~$ sudo systemctl restart vsftpd
adminusset@admin:~$ sudo systemctl restart vsftpd
adminusset@admin:~$ sudo systemctl status ssh
* ssh.service - OpenSSH Secure Shell server
   Loaded: loaded (/usr/lib/systemd/system/ssh.service; disabled; preset:
   Active: inactive (dead)
   TriggeredBy: ● ssh.socket
   Docs: man:sshd(8)
         man:sshd_config(5)
adminusset@admin:~$ sudo systemctl status ssh_
```

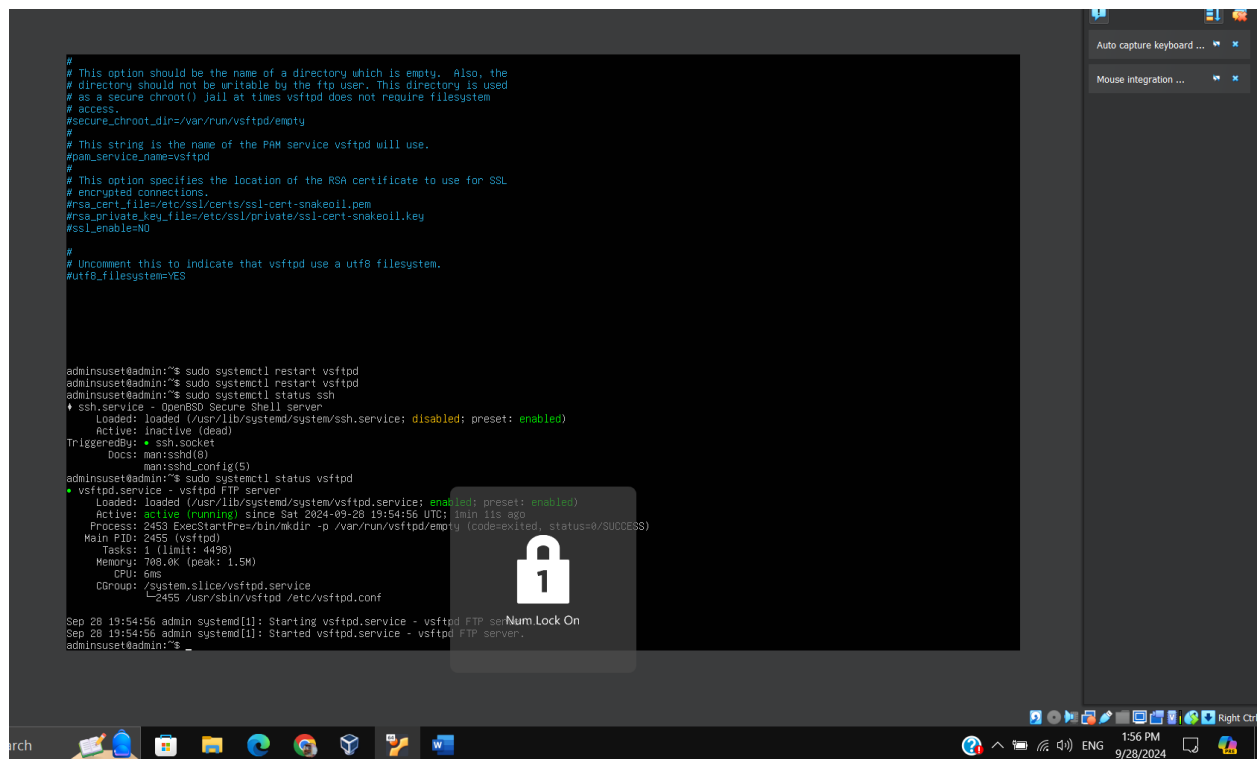


Num Lock On

Auto capture keyboard ...

Mouse integration ...

Taskbar with icons for applications and system status. System clock shows 1:55 PM on 9/28/2024.



ENCUENTRO MI IP


```

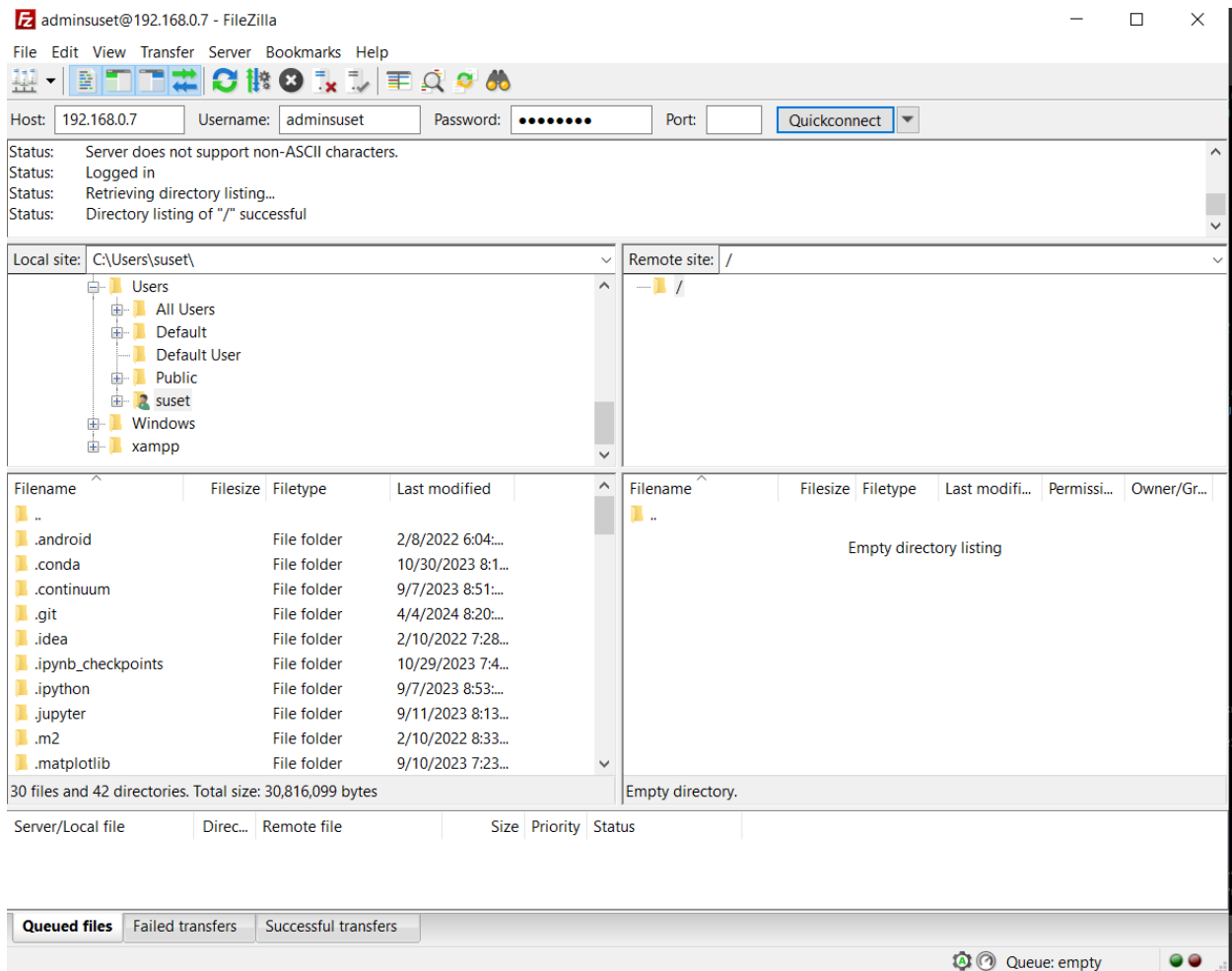
File Machine View Input Devices Help
bg [job_spec ...]
bind [-lpsvPSVX] [-m keymap] [-f filename] [-q name] [-u name] [-r keyseq] [->
break [n]
builtin [shell-builtin [arg ...]]
caller [expr]
case WORD in [PATTERN [| PATTERN]...] COMMANDS ;;... esac
cd [-L][-P [-e]] [-@] [dir]
command [-pVv] command [arg ...]
compgen [-abcdefgksuv] [-o option] [-A action] [-G globpat] [-W wordlist] [->
complete [-abcdefgksuv] [-pr] [-DEI] [-o option] [-A action] [-G globpat] [->
compopt [-o] [+o option] [-DEI] [name ...]
continue [n]
coproc [NAME] command [redirections]
declare [-aAffgIlnrtux] [name[=value] ...] or declare -p [-aAffIlnrtux] [nam>
dirs [-clpv] [+N] [-N]
disown [-h] [-ar] [jobspec ... | pid ...]
echo [-neE] [arg ...]
enable [-a] [-dnps] [-f filename] [name ...]
eval [arg ...]
exec [-cl] [-a name] [command [argument ...]] [redirection ...]
exit [n]
export [-fn] [name[=value] ...] or export -p
false
fc [-e ename] [-lnr] [first] [last] or fc -s [pat=rep] [command]
fg [job_spec]
for NAME [in WORDS ... ] ; do COMMANDS; done
for (( exp1; exp2; exp3 )); do COMMANDS; done
function name { COMMANDS ; } or name () { COMMANDS ; }
getopts optstring name [arg ...]
hash [-lr] [-p pathname] [-dt] [name ...]
help [-dms] [pattern ...]
adminusset@admin:~$ ifconfig
command 'ifconfig' not found, but can be installed with:
sudo apt install net-tools
adminusset@admin:~$ ip addr show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:08:d7:c3 brd ff:ff:ff:ff:ff:ff
    inet 192.168.0.7/24 metric 100 brd 192.168.0.255 scope global dynamic enp0s3
        valid_lft 2118sec preferred_lft 2118sec
    inet6 2803:d100:9848:26cf:a00:27ff:fe08:d7c3/64 scope global dynamic mngtmpaddr noprefixroute
        valid_lft 3598sec preferred_lft 3598sec
    inet6 fe80::a00:27ff:fe08:d7c3/64 scope link
        valid_lft forever preferred_lft forever
adminusset@admin:~$

```



Num Lock On

IP ES INET: 192.168.0.7



LISTO YA ESTOY CONECTADA!