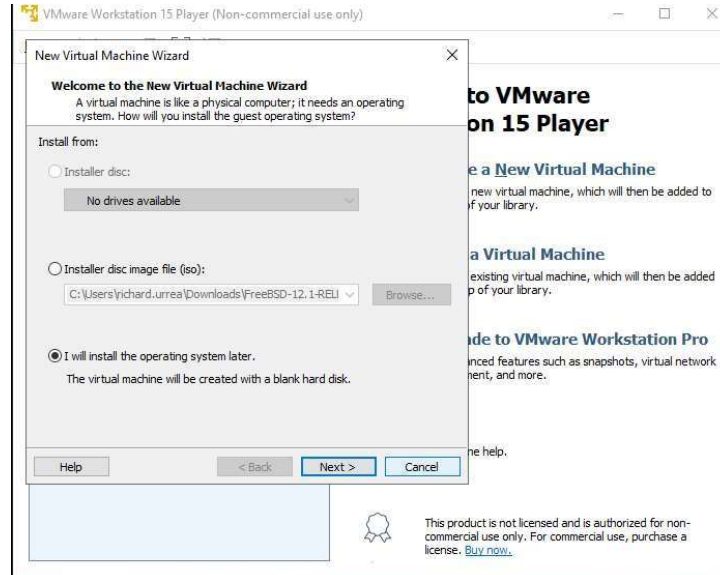
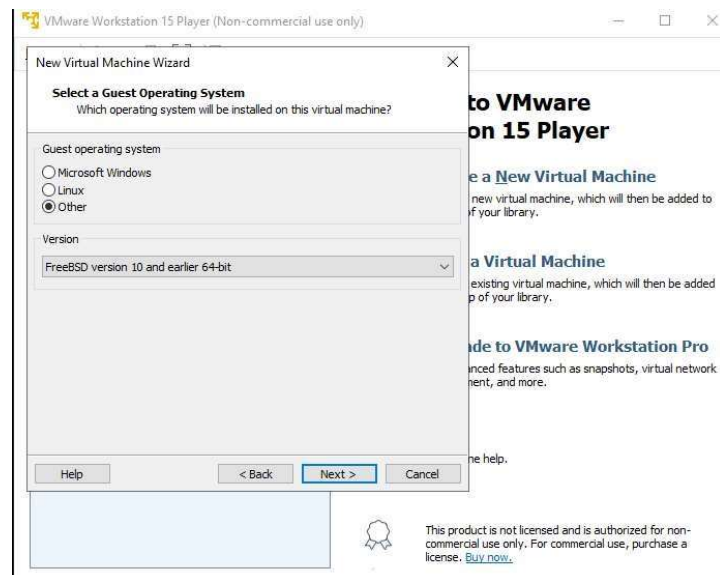


BSD

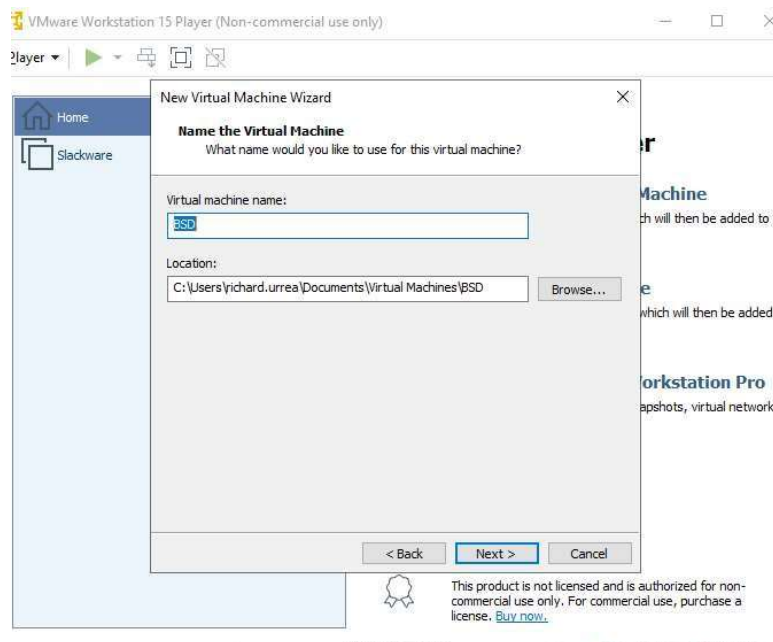
Se selecciona la opción “I will instal the operaating system later” y dexpues “next”



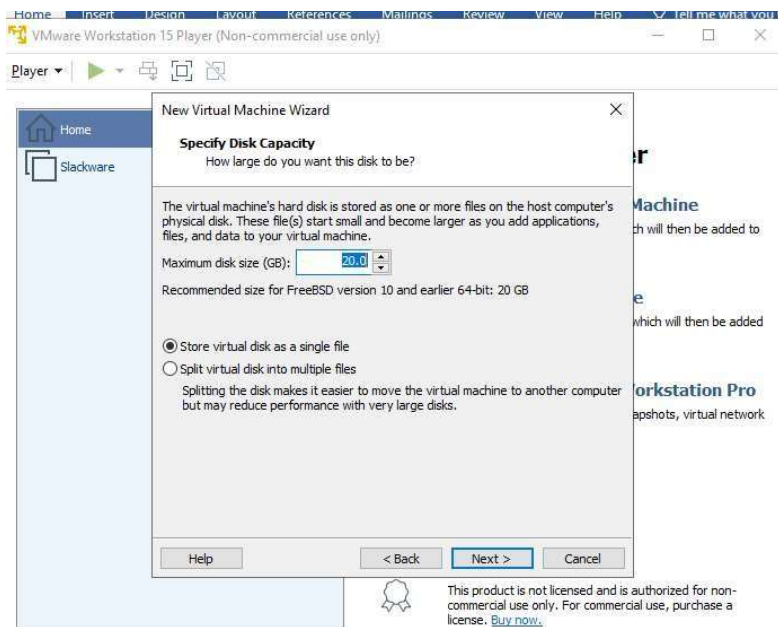
Se elige en operating system la opcion “other” y en versión la opción “FreeBSD versión 10 and earlier 64-bit ” y después next



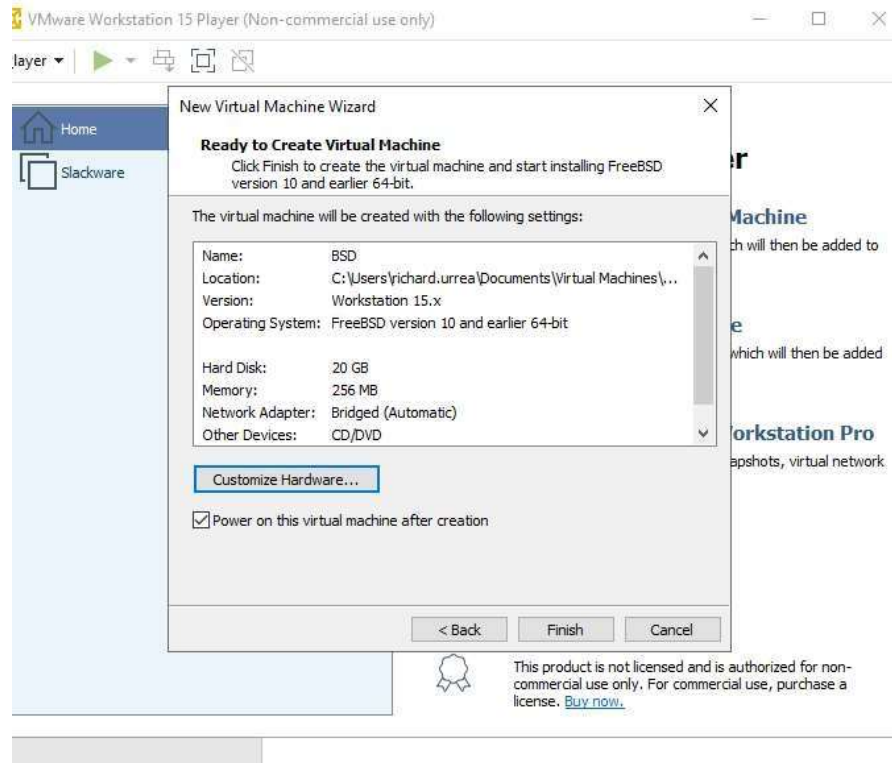
Se elige el nombre que se le va a asignar a la máquina y el lugar a guardarlo después se oprime en next



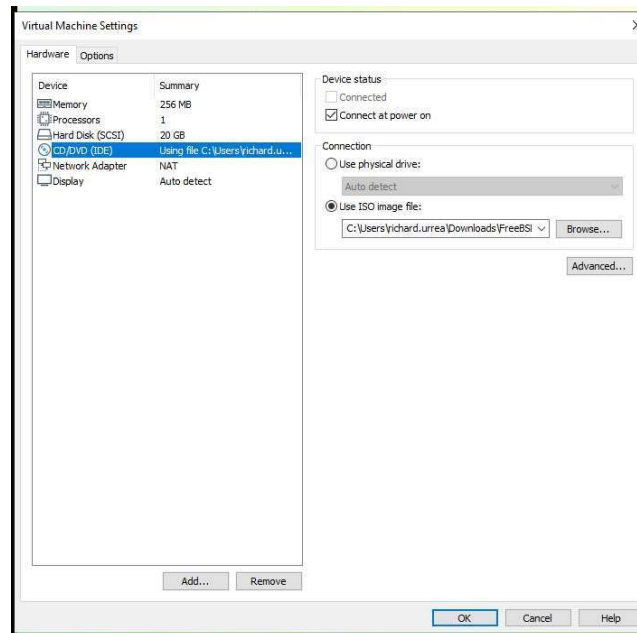
Se elige el tamaño máximo del disco en nuestro caso 50 GB y que todo va a estar en un archivo único y en next



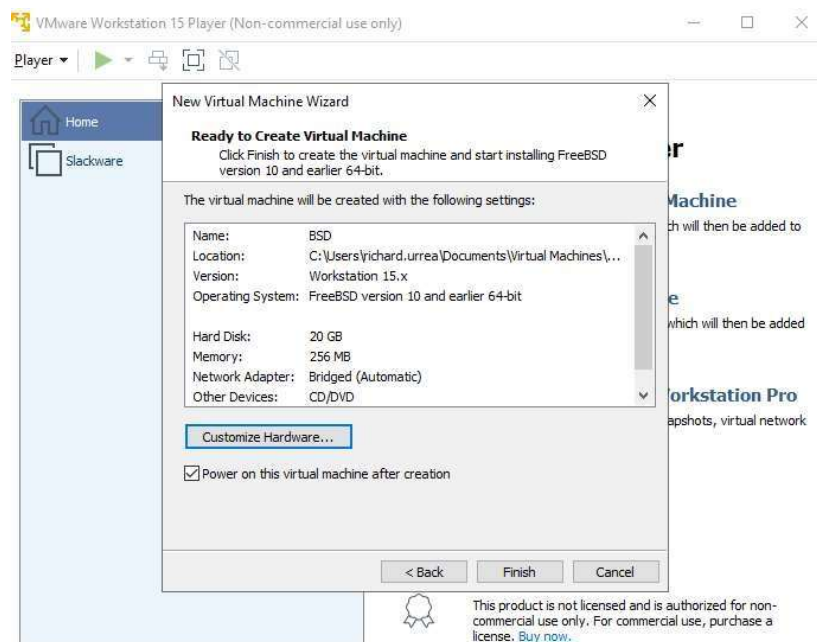
Se elige la opción “Customing Hardware”



Dejamos únicamente los componentes necesarios y en el componente de CD/DVD(IDE) seleccionamos la opción Use ISO imagen file y seleccionamos la imagen del freeBSD y después le damos a ok



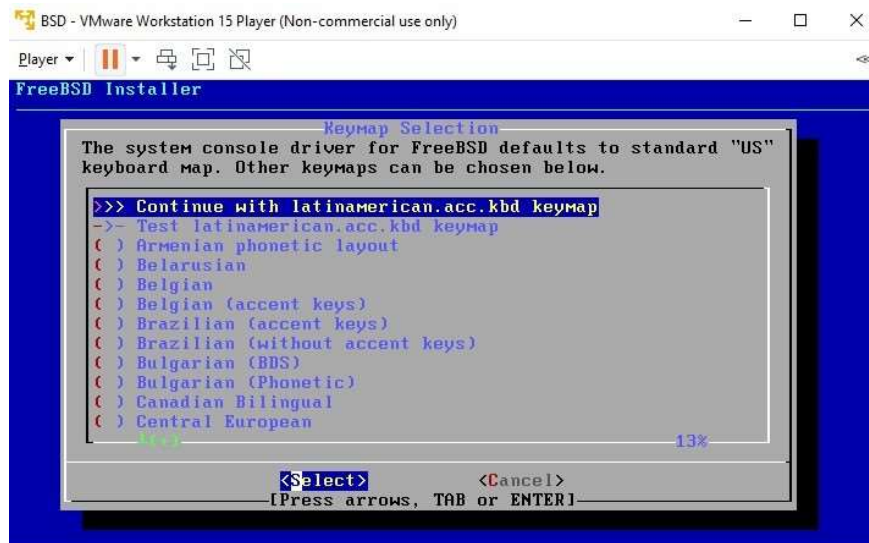
Le damos a la opción finish y despues corremos la maquina



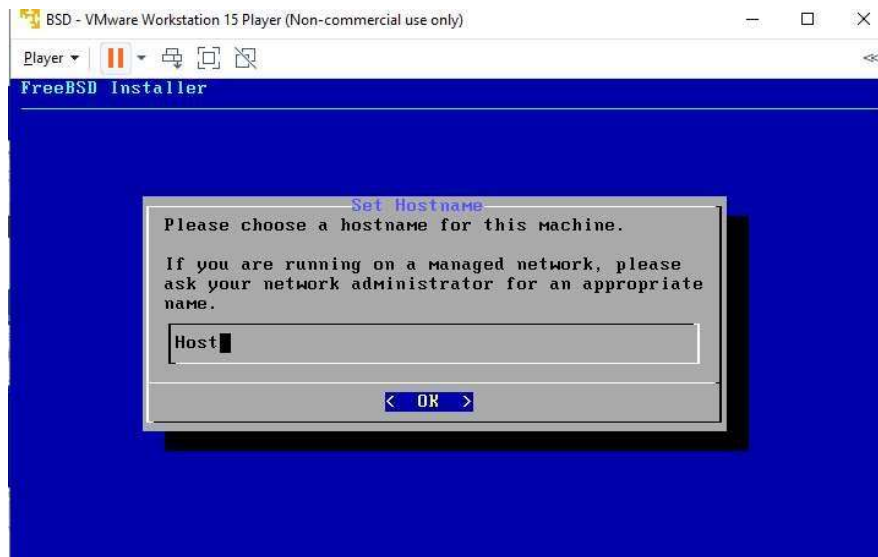
Dejamos que corra hasta que aparezca esta pantalla y le damos enter en "Install"



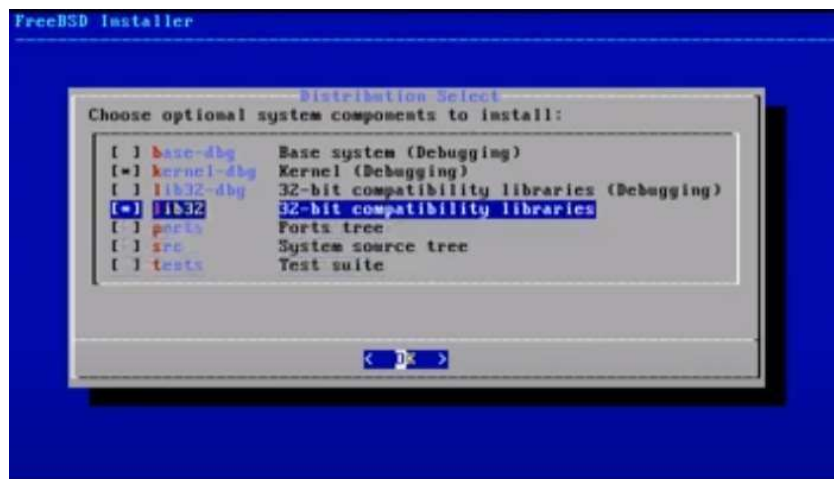
Seleccionamos la distribución de latinamerican con enter y después le damos enter a la primera opción de la lista



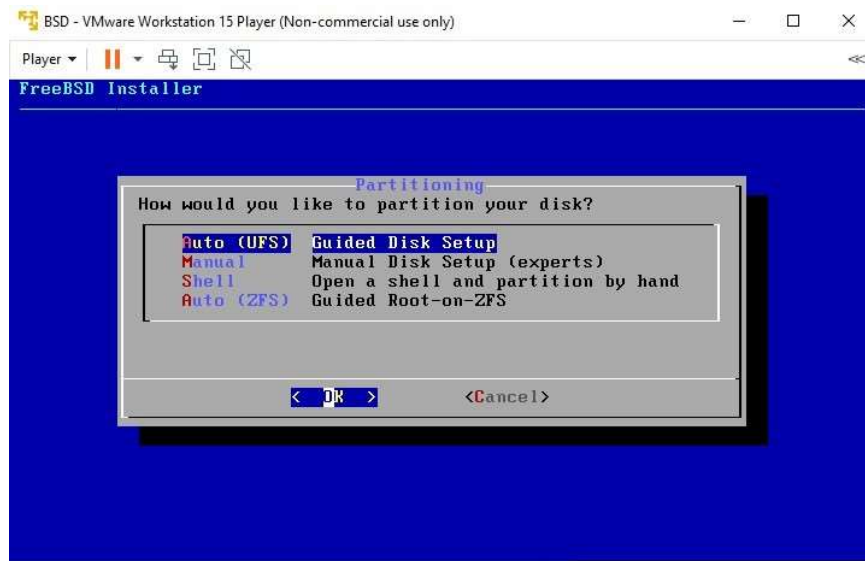
Escribimos un nombre para el Host con el que vamos a trabajar



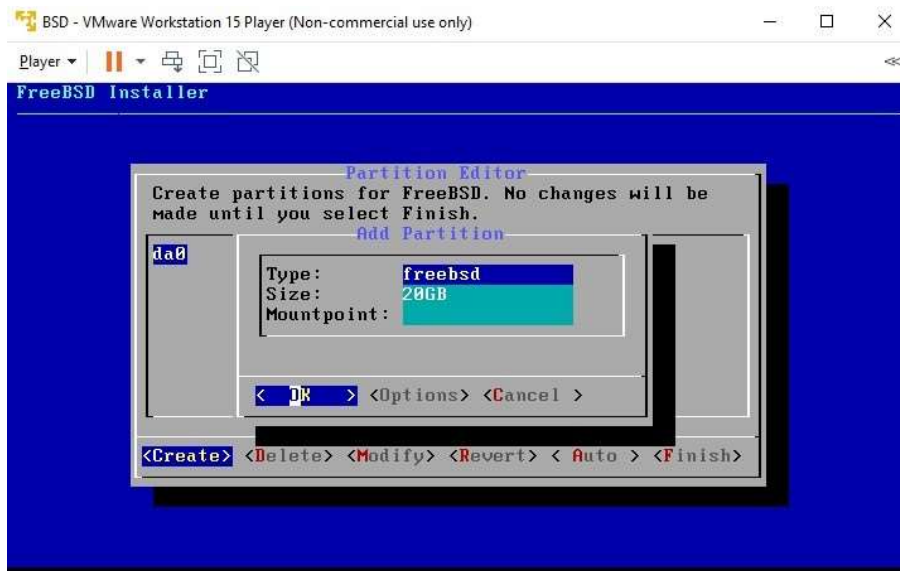
Seleccionamos las dos opciones mostradas en pantalla con espacio y después le damos enter



Seleccionamos la opción manual



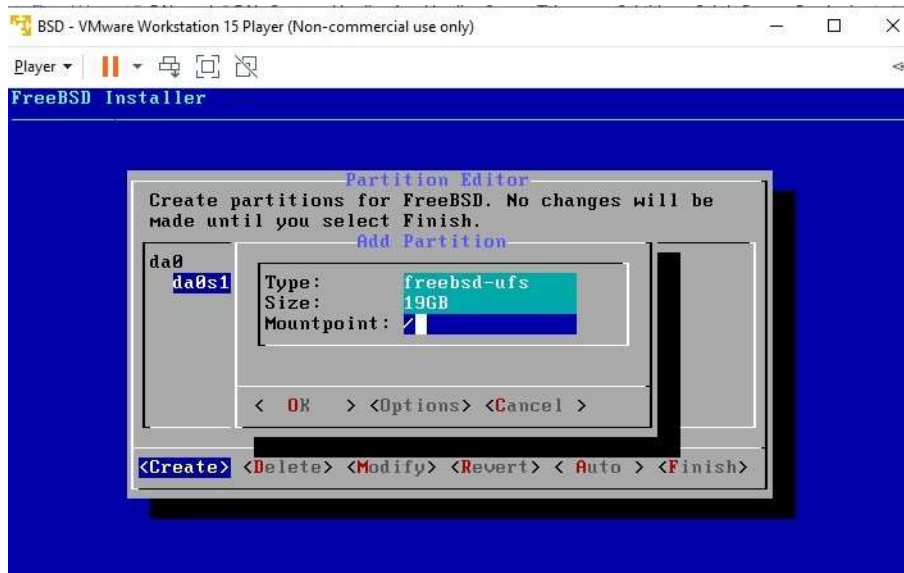
Al entrar le damos en "Create" y despues en BMR



Después le volvemos a dar en Create y en OK



Después le damos flecha abajo y seleccionamos create y ponemos el nombre de la partición como freebsd-ufs y le damos 19 GB de almacenamiento y el mountpoint "/" para indicar que es el bootable y damos en OK

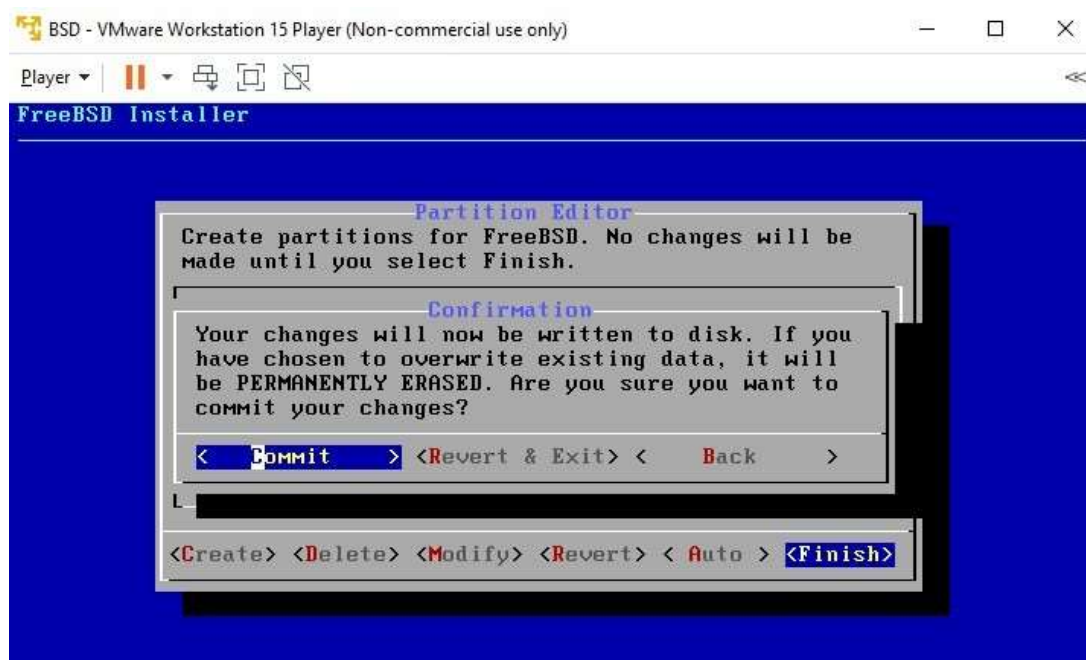




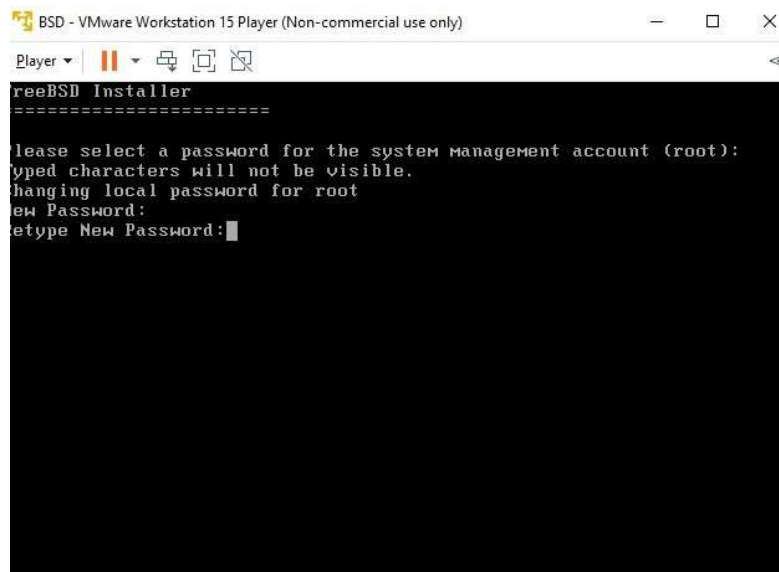
Después realizamos el mismo proceso, pero ahora el Type va a ser freebsd-swap con 1G de tamaño y sin mountpoint, para dejarnos de esta manera la partición del disco, despues le damos en finish



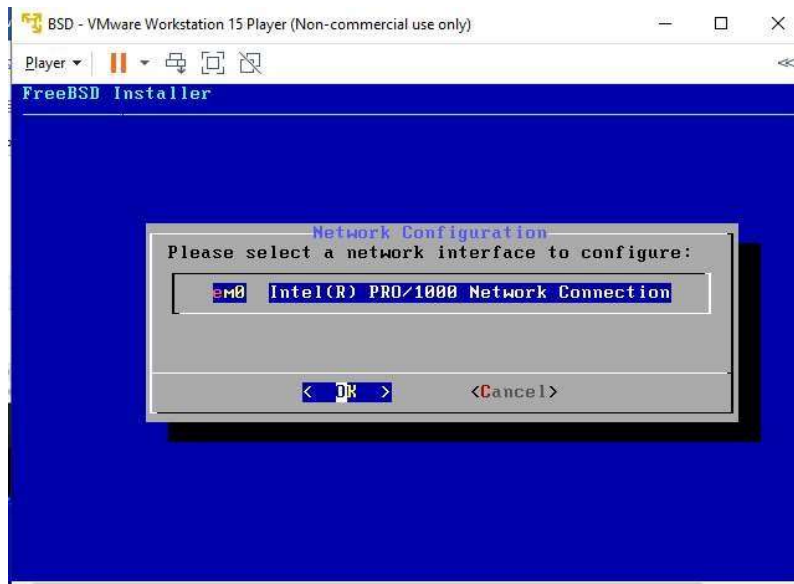
Le damos en commit y esperamos a que realice toda la carga



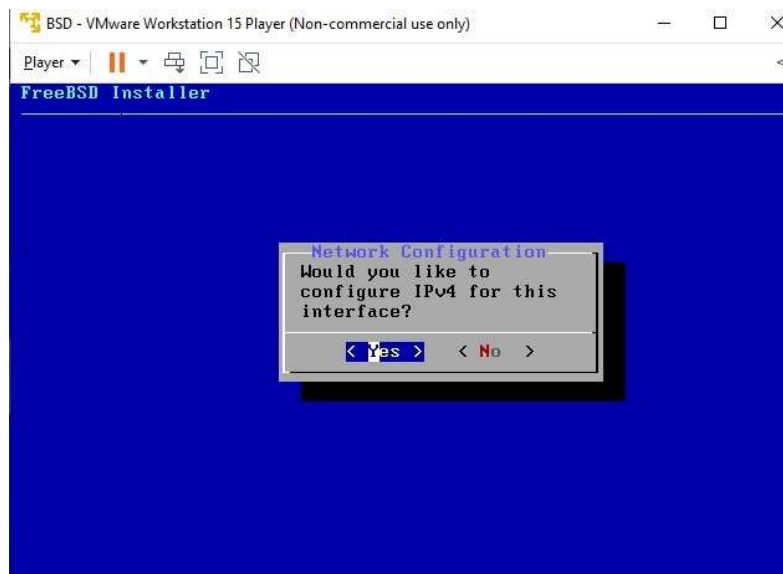
Después de la carga nos pedirá un clave para el root, en este caso la clave es “clave”



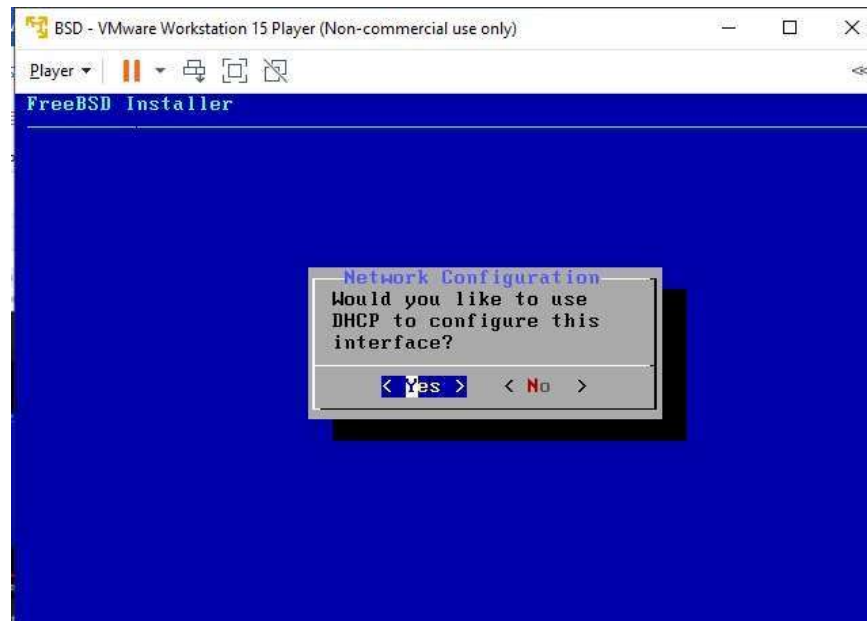
Después nos sale esta ventana y le damos en OK



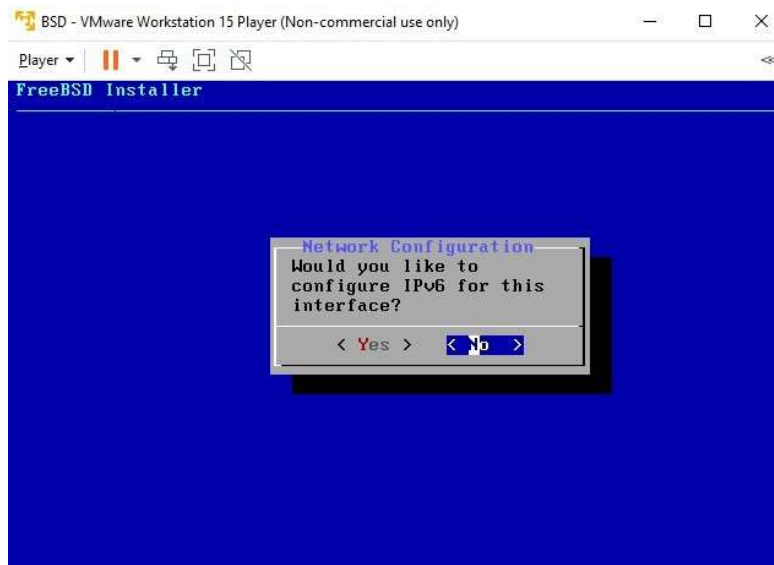
Le damos en Yes



Nuevamente le damos en yes



Después seleccionamos No



En search escribimos localdomain y en el DNS#1 ponemos nuestro DNS

Después podemos seleccionar nuestro continente y país de quererlo u omitirlo



Después podemos colocar la fecha u omitir este paso también



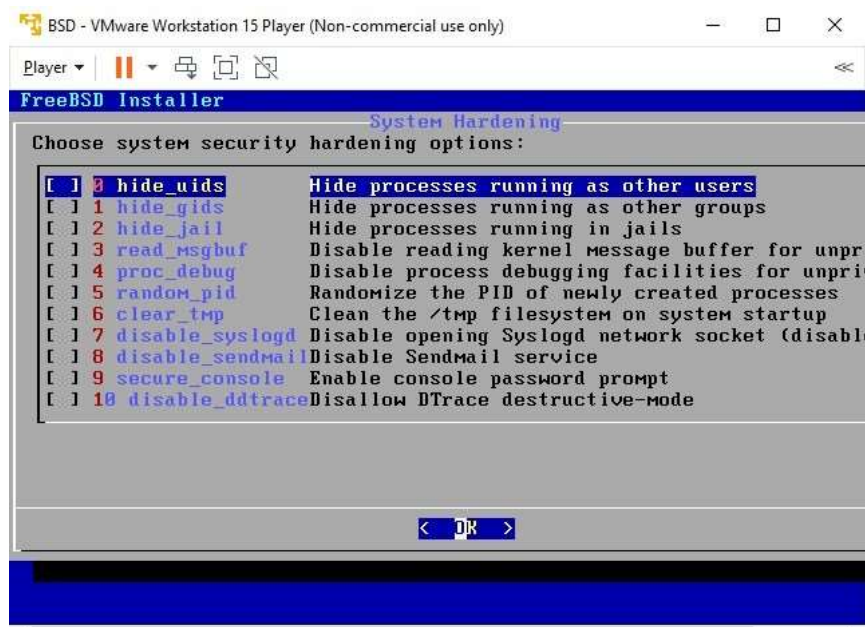
Después nos pide la hora que es un paso que también podemos omitir



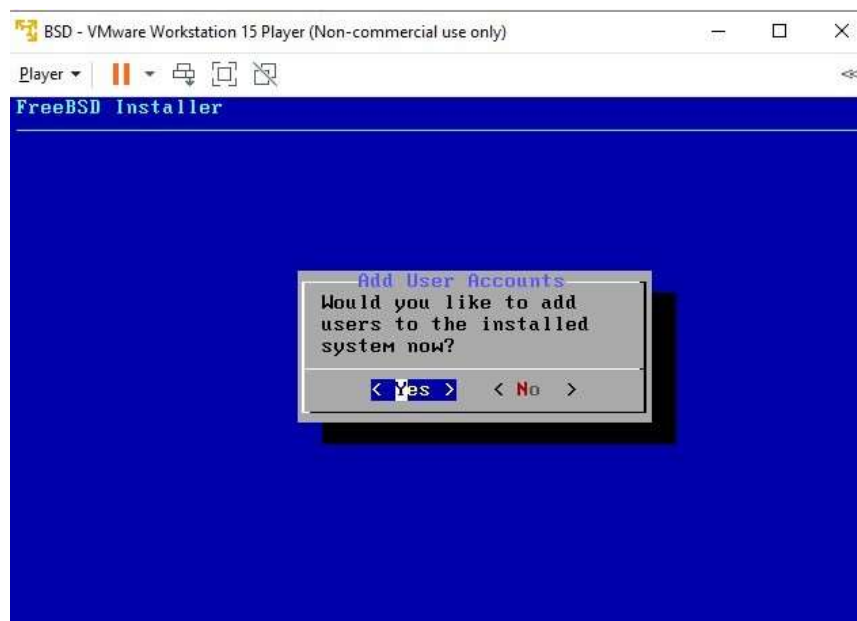
Después seleccionamos las opciones que se encuentran en pantalla para elegir la configuración del sistema



Despues nos pregunta si deseamos darle algun permiso a los usuarios, no seleccionamos nada y proseguimos



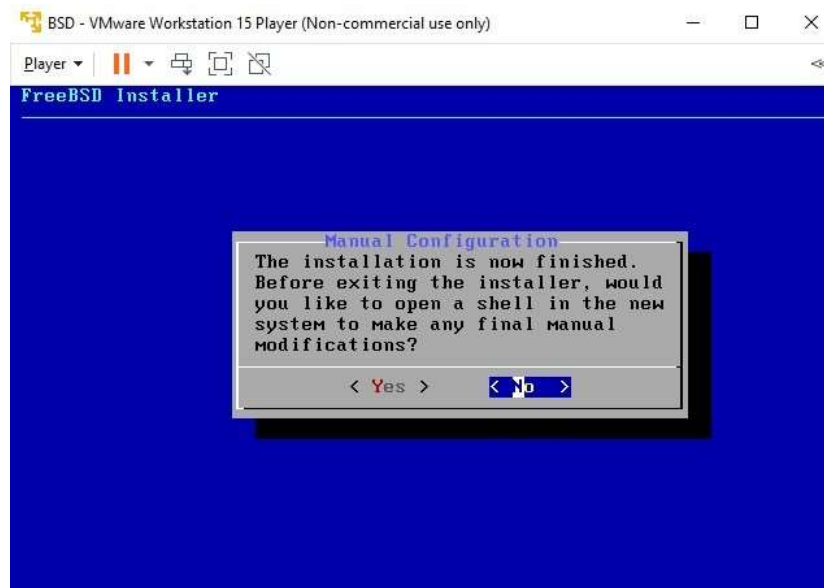
Nos pregunta si queremos crear un Usuario, le damos en No



Nos envia al menu de configuración, le damos en exit

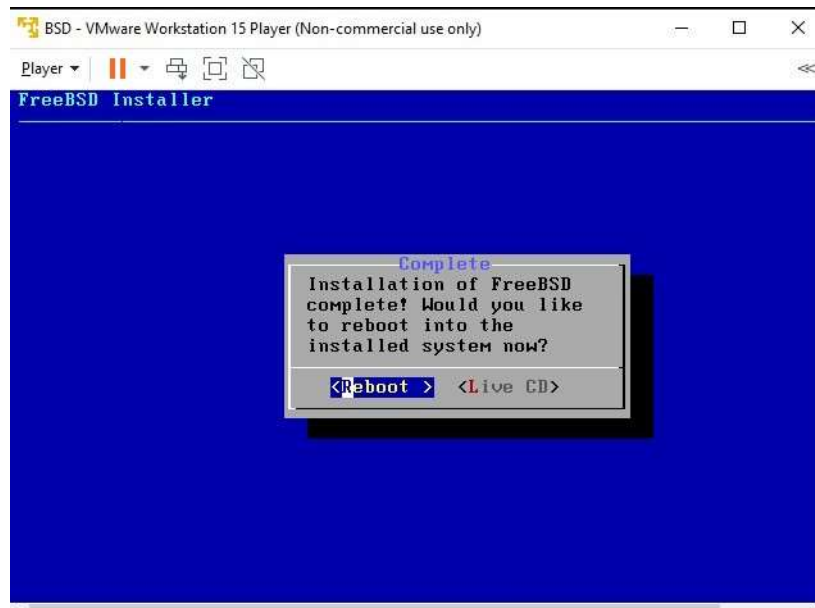


Seleccionamos la opción no, para que no nos envíe al shell





Seleccionamos la opción reboot para que nos recargue nuestra máquina y queda terminado el proceso



Tras realizar el reboot podemos ingresar con el superusuario “root” y nuestra clave “clave”

```
BSD VMware - VMware Workstation 15 Player (Non-commercial use only)
Player | [Icons] | [Close]
Starting syslogd.
No core dumps found.
Clearing /tmp (X related).
Updating motd:.
Mounting late filesystems:.
Configuring vt: keymap blanktime.
Generating RSA host key.
2048 SHA256:LP19yrfiScQ1yhNhzbjLFsUk1AbNCgEgeDyX+itaMFc root@Host (RSA)
Generating ECDSA host key.
256 SHA256:hEZe8WwrbWIiwRl0AvpwoUmXclKFRrvtQ3TH+qpqEDY root@Host (ECDSA)
Generating ED25519 host key.
256 SHA256:D5iqsHazjXrrQMUMAM9kWpUdaeir2CQdncCL81EDeC0 root@Host (ED25519)
Performing sanity check on sshd configuration.
Starting sshd.
Starting sendmail_submit.
Starting sendmail_msp_queue.
Starting cron.
Starting background file system checks in 60 seconds.

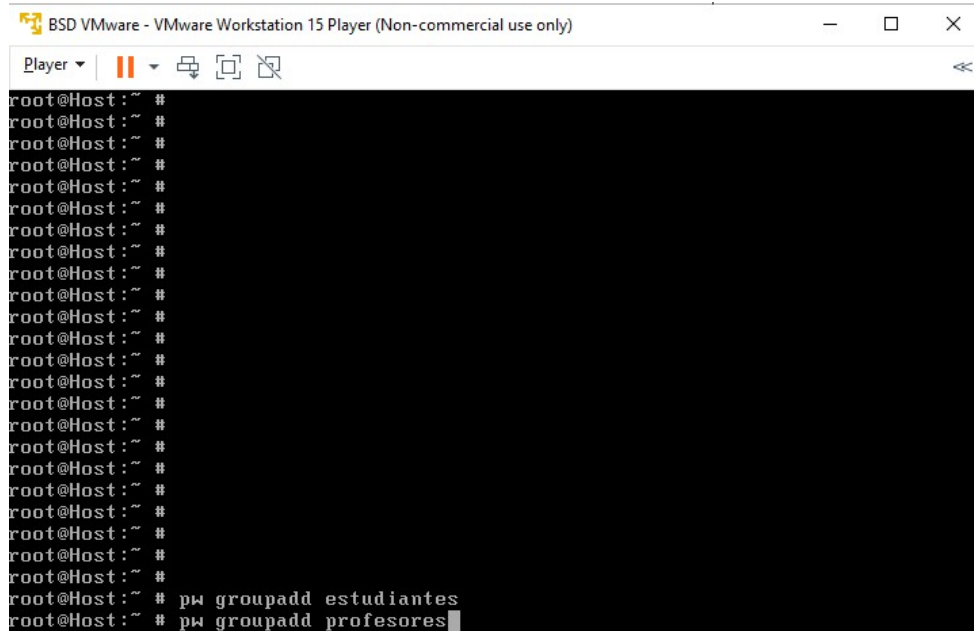
Sun Jan 24 15:44:50 -05 2021

FreeBSD/amd64 (Host) (ttyv0)

login: root
Password: 
```

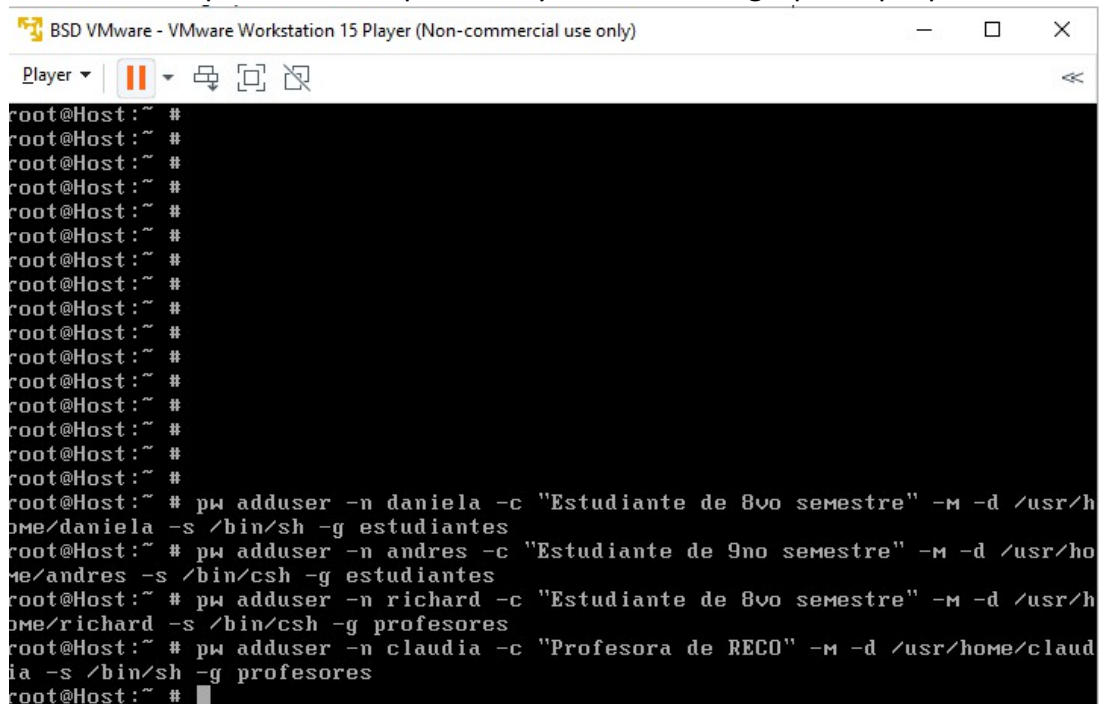
## Creación y control de usuarios

### Creamos los grupos



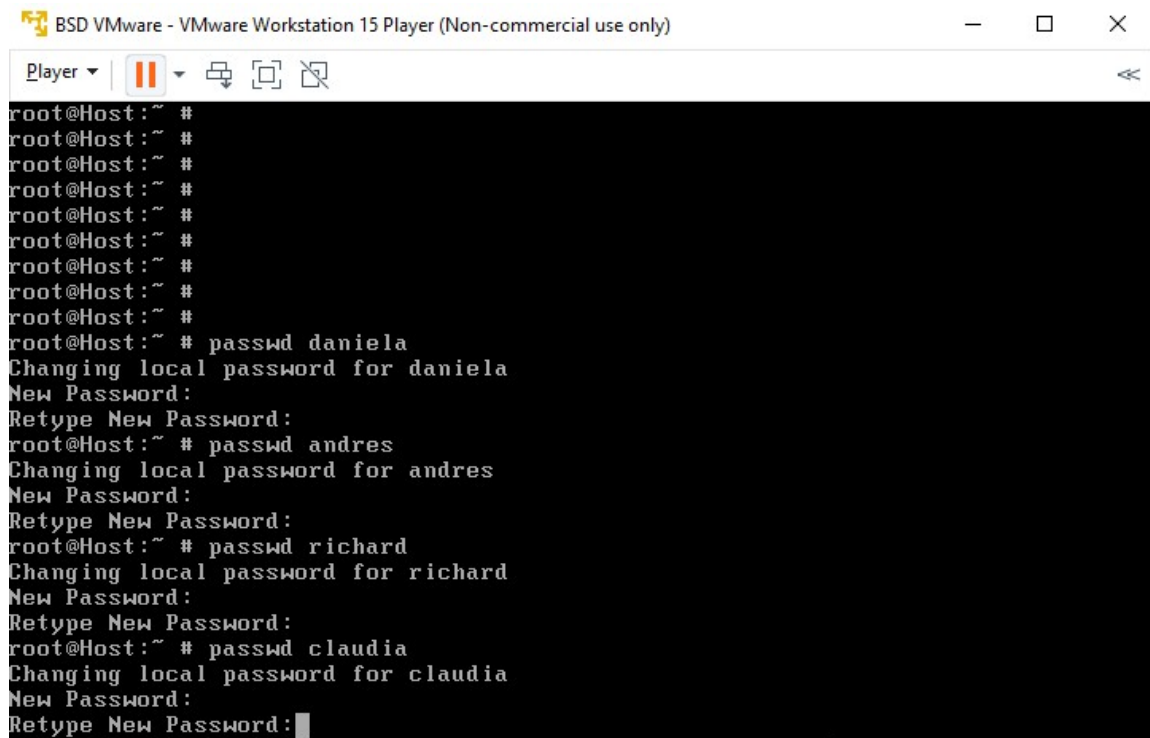
```
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ # pw groupadd estudiantes  
root@Host:~ # pw groupadd profesores
```

A continuación creamos los usuarios, con su comentario, seguido de su dirección de archivo, después el shell que usara y finalmente al grupo al que pertenece



```
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ #  
root@Host:~ # pw adduser -n daniela -c "Estudiante de 8vo semestre" -m -d /usr/home/daniela -s /bin/sh -g estudiantes  
root@Host:~ # pw adduser -n andres -c "Estudiante de 9no semestre" -m -d /usr/home/andres -s /bin/csh -g estudiantes  
root@Host:~ # pw adduser -n richard -c "Estudiante de 8vo semestre" -m -d /usr/home/richard -s /bin/csh -g profesores  
root@Host:~ # pw adduser -n claudia -c "Profesora de RECO" -m -d /usr/home/claudia -s /bin/sh -g profesores  
root@Host:~ #
```

Cambiamos las contraseñas de los usuarios, las contraseñas son los mismos nombres de los usuarios



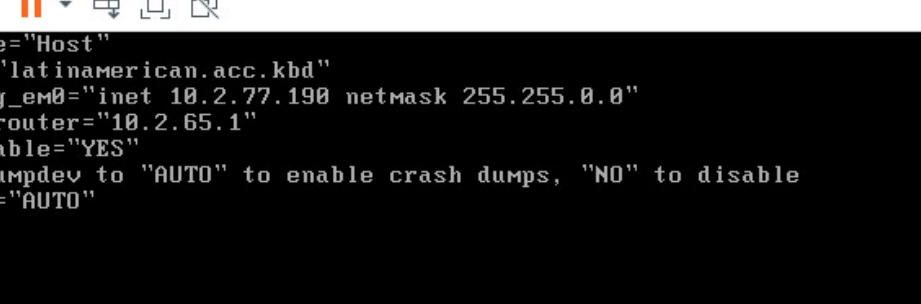
```
BSD VMware - VMware Workstation 15 Player (Non-commercial use only)
Player
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ # passwd daniela
Changing local password for daniela
New Password:
Retype New Password:
root@Host:~ # passwd andres
Changing local password for andres
New Password:
Retype New Password:
root@Host:~ # passwd richard
Changing local password for richard
New Password:
Retype New Password:
root@Host:~ # passwd claudia
Changing local password for claudia
New Password:
Retype New Password:
```

## Configuración de red

Accedemos al diccionario que contiene las configuraciones de red

A screenshot of a VMware Workstation 15 Player window titled "BSD VMware - VMware Workstation 15 Player (Non-commercial use only)". The window shows a terminal session with a black background and white text. The prompt "root@Host:~ #" is repeated approximately 20 times vertically. At the bottom, the command "vi /etc/rc.conf" has been entered, and the cursor is positioned at the end of the line. The terminal window includes standard OS window controls (minimize, maximize, close) and a toolbar with icons for player settings, power, full screen, and other functions.

En ifconfig colocamos nuestra IP y nuestra Mask



BSD VMware - VMware Workstation 15 Player (Non-commercial use only)

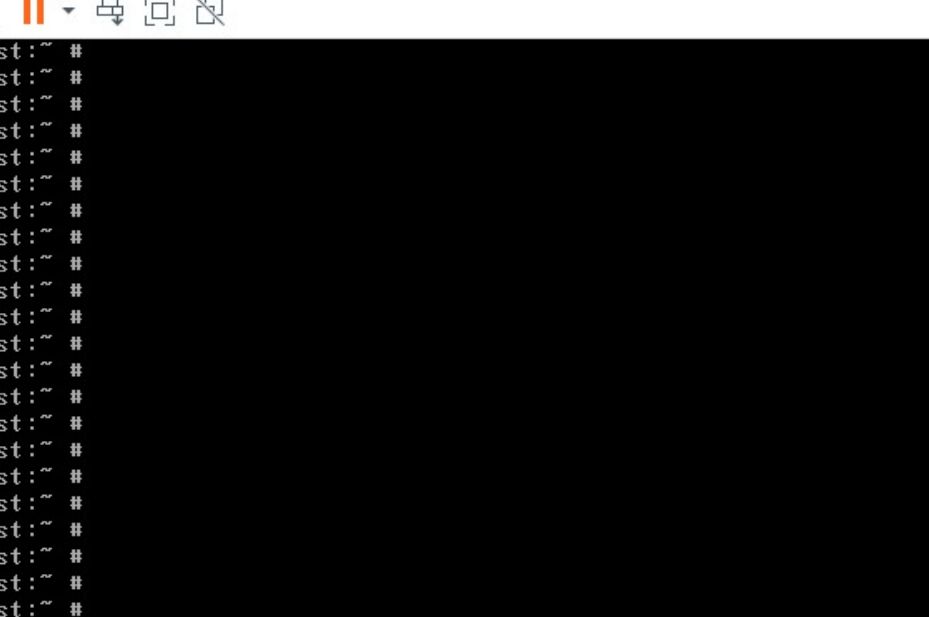
Player ▾ | [Pause] [Full Screen] [Close]

```
hostname="Host"
keymap="latinamerican.acc.kbd"
ifconfig_em0="inet 10.2.77.190 netmask 255.255.0.0"
defaultrouter="10.2.65.1"
sshd_enable="YES"
# Set dumpdev to "AUTO" to enable crash dumps, "NO" to disable
dumpdev="AUTO"

...

/etc/rc.conf: unmodified: line 1
```

Luego accedemos al diccionario que contiene las configuraciones de dominio



The screenshot shows a window titled "BSD VMware - VMware Workstation 15 Player (Non-commercial use only)". The window contains a terminal interface with a black background and white text. The terminal displays a series of 18 prompts: "root@Host: ~ #". The last prompt is followed by the command "vi /etc/resolv.conf" and a cursor. The window's title bar includes standard window controls (minimize, maximize, close) and a toolbar with icons for "Player", a red vertical bar, a copy icon, a paste icon, and a delete icon.

## Colocamos nuestro DNS

[illegible]

## Salimos y recargamos las configuraciones de red

A screenshot of a VMware Workstation 15 Player window titled "BSD VMware - VMware Workstation 15 Player (Non-commercial use only)". The window shows a terminal interface with a black background and white text. The prompt is "root@Host: ~ #". Below the prompt, there are several blank lines, followed by the command "/etc/netstart" being entered at the end of a line. The window has standard macOS window controls (minimize, maximize, close) in the top right corner. The title bar also includes icons for a dropdown menu, a play button, and other window management symbols.

## Pruebas de ping

### Prueba de ping con la misma maquina

```
BSD VMware - VMware Workstation 15 Player (Non-commercial use only)
Player
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ # ping 10.2.77.190
PING 10.2.77.190 (10.2.77.190): 56 data bytes
64 bytes from 10.2.77.190: icmp_seq=0 ttl=64 time=0.023 ms
64 bytes from 10.2.77.190: icmp_seq=1 ttl=64 time=0.074 ms
64 bytes from 10.2.77.190: icmp_seq=2 ttl=64 time=0.048 ms
64 bytes from 10.2.77.190: icmp_seq=3 ttl=64 time=0.056 ms
64 bytes from 10.2.77.190: icmp_seq=4 ttl=64 time=0.088 ms
64 bytes from 10.2.77.190: icmp_seq=5 ttl=64 time=0.032 ms
64 bytes from 10.2.77.190: icmp_seq=6 ttl=64 time=0.092 ms
64 bytes from 10.2.77.190: icmp_seq=7 ttl=64 time=0.091 ms
^C
--- 10.2.77.190 ping statistics ---
8 packets transmitted, 8 packets received, 0.0% packet loss
round-trip min/avg/max/stddev = 0.023/0.063/0.092/0.026 ms
root@Host:~ #
```

### Prueba ping 10.2.65.1

```
BSD VMware - VMware Workstation 15 Player (Non-commercial use only)
Player
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ # ping 10.2.65.1
PING 10.2.65.1 (10.2.65.1): 56 data bytes
64 bytes from 10.2.65.1: icmp_seq=0 ttl=64 time=1.059 ms
64 bytes from 10.2.65.1: icmp_seq=1 ttl=64 time=0.936 ms
64 bytes from 10.2.65.1: icmp_seq=2 ttl=64 time=1.039 ms
64 bytes from 10.2.65.1: icmp_seq=3 ttl=64 time=1.000 ms
64 bytes from 10.2.65.1: icmp_seq=4 ttl=64 time=0.986 ms
64 bytes from 10.2.65.1: icmp_seq=5 ttl=64 time=0.982 ms
64 bytes from 10.2.65.1: icmp_seq=6 ttl=64 time=0.914 ms
64 bytes from 10.2.65.1: icmp_seq=7 ttl=64 time=0.937 ms
64 bytes from 10.2.65.1: icmp_seq=8 ttl=64 time=0.985 ms
^C
--- 10.2.65.1 ping statistics ---
9 packets transmitted, 9 packets received, 0.0% packet loss
round-trip min/avg/max/stddev = 0.914/0.982/1.059/0.045 ms
root@Host:~ #
```



## Prueba ping 8.8.8.8

```
BSD VMware - VMware Workstation 15 Player (Non-commercial use only)
Player ▾ | [Icons]
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ # ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8): 56 data bytes
64 bytes from 8.8.8.8: icmp_seq=0 ttl=110 time=51.847 ms
64 bytes from 8.8.8.8: icmp_seq=1 ttl=110 time=52.594 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=110 time=52.496 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=110 time=52.347 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=110 time=52.369 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=110 time=52.249 ms
64 bytes from 8.8.8.8: icmp_seq=6 ttl=110 time=52.378 ms
64 bytes from 8.8.8.8: icmp_seq=7 ttl=110 time=52.461 ms
64 bytes from 8.8.8.8: icmp_seq=8 ttl=110 time=52.463 ms
64 bytes from 8.8.8.8: icmp_seq=9 ttl=110 time=52.515 ms
64 bytes from 8.8.8.8: icmp_seq=10 ttl=110 time=52.396 ms
64 bytes from 8.8.8.8: icmp_seq=11 ttl=110 time=56.154 ms
64 bytes from 8.8.8.8: icmp_seq=12 ttl=110 time=52.026 ms
64 bytes from 8.8.8.8: icmp_seq=13 ttl=110 time=52.206 ms
64 bytes from 8.8.8.8: icmp_seq=14 ttl=110 time=52.268 ms
^C
--- 8.8.8.8 ping statistics ---
15 packets transmitted, 15 packets received, 0.0% packet loss
round-trip min/avg/max/stddev = 51.847/52.585/56.154/0.972 ms
root@Host:~ #
```

## Prueba ping 10.2.77. (máquina de Felipe Marin y Brayan Macias)

```
BSD VMware - VMware Workstation 15 Player (Non-commercial use only)
Player ▾ | [Icons]
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ # ping 10.2.77.210
PING 10.2.77.210 (10.2.77.210): 56 data bytes
64 bytes from 10.2.77.210: icmp_seq=0 ttl=64 time=4.174 ms
64 bytes from 10.2.77.210: icmp_seq=1 ttl=64 time=2.477 ms
64 bytes from 10.2.77.210: icmp_seq=2 ttl=64 time=2.487 ms
64 bytes from 10.2.77.210: icmp_seq=3 ttl=64 time=1.930 ms
64 bytes from 10.2.77.210: icmp_seq=4 ttl=64 time=1.981 ms
64 bytes from 10.2.77.210: icmp_seq=5 ttl=64 time=2.367 ms
64 bytes from 10.2.77.210: icmp_seq=6 ttl=64 time=3.087 ms
64 bytes from 10.2.77.210: icmp_seq=7 ttl=64 time=2.043 ms
64 bytes from 10.2.77.210: icmp_seq=8 ttl=64 time=2.287 ms
^C
--- 10.2.77.210 ping statistics ---
9 packets transmitted, 9 packets received, 0.0% packet loss
round-trip min/avg/max/stddev = 1.930/2.537/4.174/0.667 ms
root@Host:~ #
```



## Prueba ping [www.google.com](http://www.google.com)

BSD VMWare - VMware Workstation 15 Player (Non-commercial use only)

```
Player ▾ | [Icons]
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ #
root@Host:~ # ping www.google.com
PING www.google.com (172.217.15.196): 56 data bytes
64 bytes from 172.217.15.196: icmp_seq=0 ttl=113 time=41.167 ms
64 bytes from 172.217.15.196: icmp_seq=1 ttl=113 time=41.469 ms
64 bytes from 172.217.15.196: icmp_seq=2 ttl=113 time=41.355 ms
64 bytes from 172.217.15.196: icmp_seq=3 ttl=113 time=41.447 ms
64 bytes from 172.217.15.196: icmp_seq=4 ttl=113 time=41.373 ms
64 bytes from 172.217.15.196: icmp_seq=5 ttl=113 time=41.441 ms
64 bytes from 172.217.15.196: icmp_seq=6 ttl=113 time=40.881 ms
64 bytes from 172.217.15.196: icmp_seq=7 ttl=113 time=41.297 ms
64 bytes from 172.217.15.196: icmp_seq=8 ttl=113 time=41.332 ms
64 bytes from 172.217.15.196: icmp_seq=9 ttl=113 time=41.183 ms
^C
--- www.google.com ping statistics ---
10 packets transmitted, 10 packets received, 0.0% packet loss
round-trip min/avg/max/stddev = 40.881/41.294/41.469/0.169 ms
root@Host:~ #
```