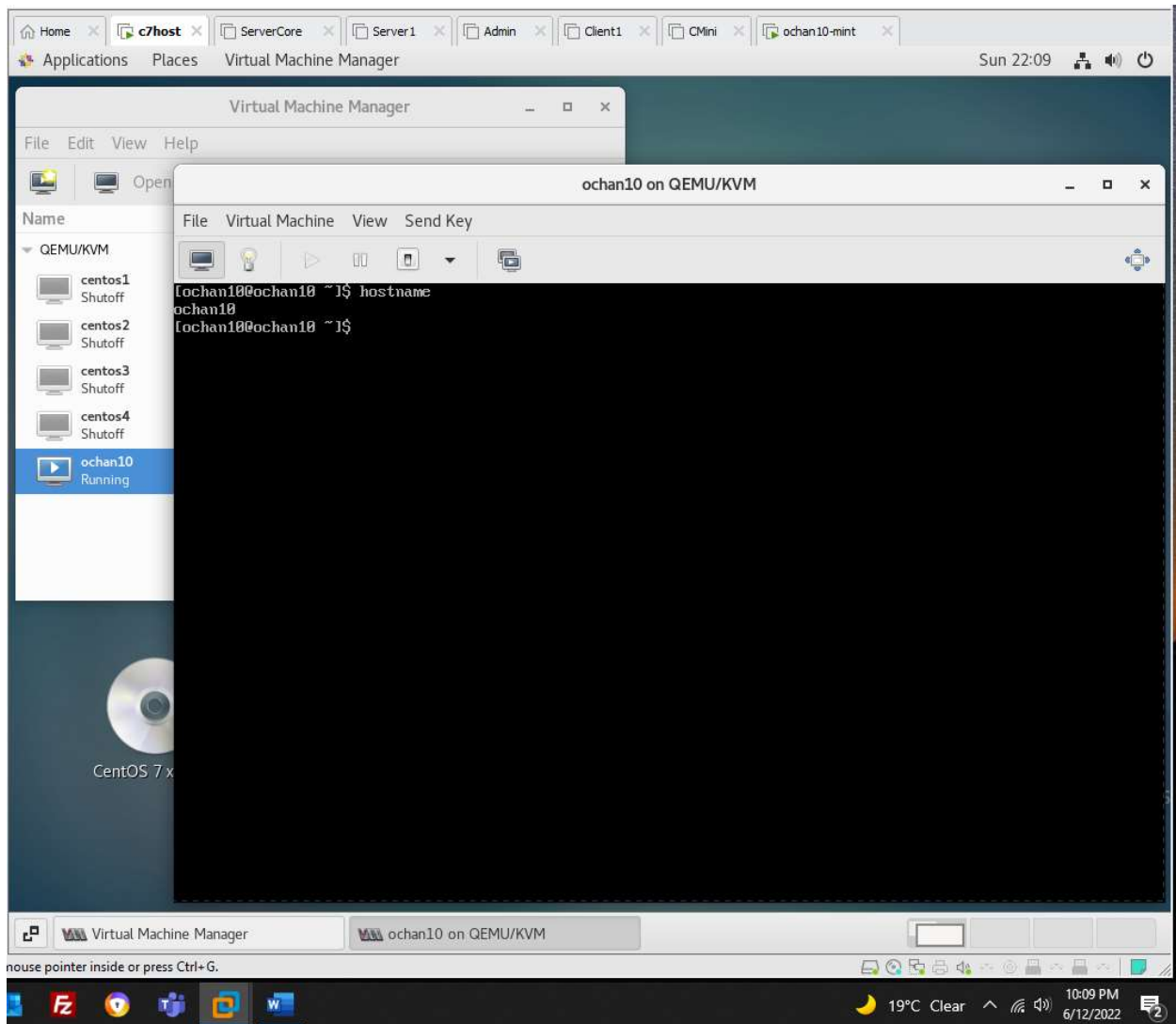


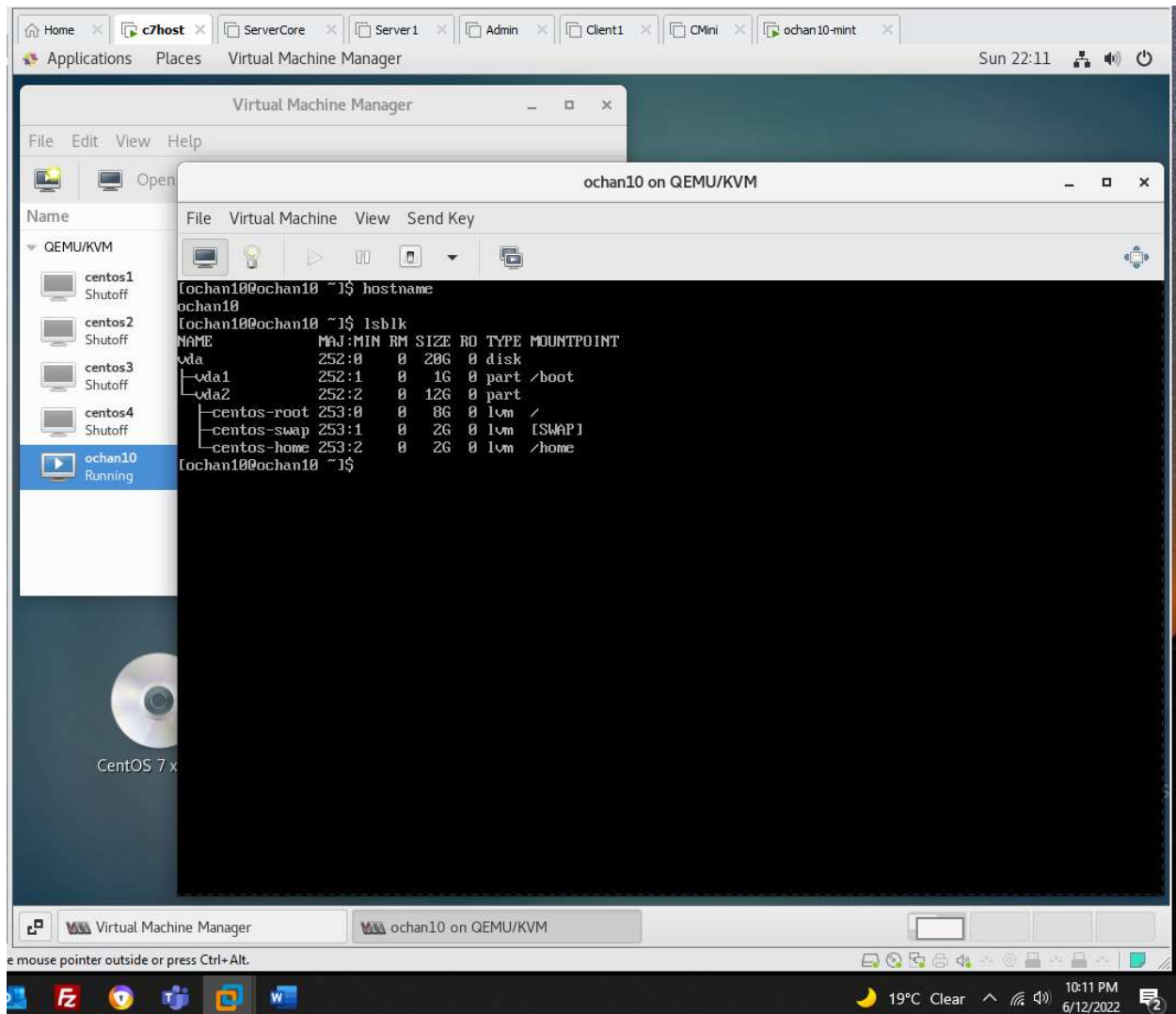
Assignment:

New VM installed in c7host:

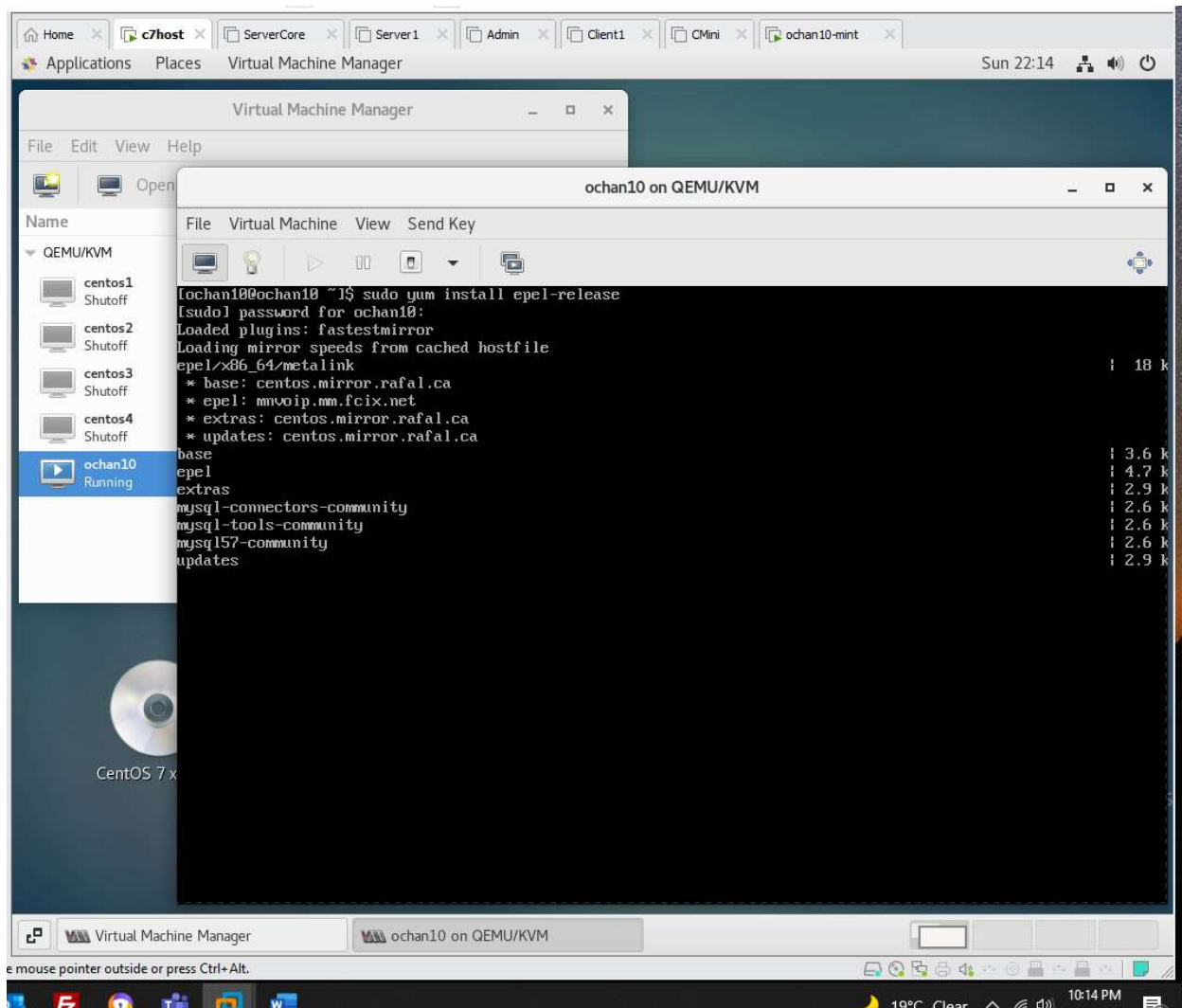
Username: ochan10



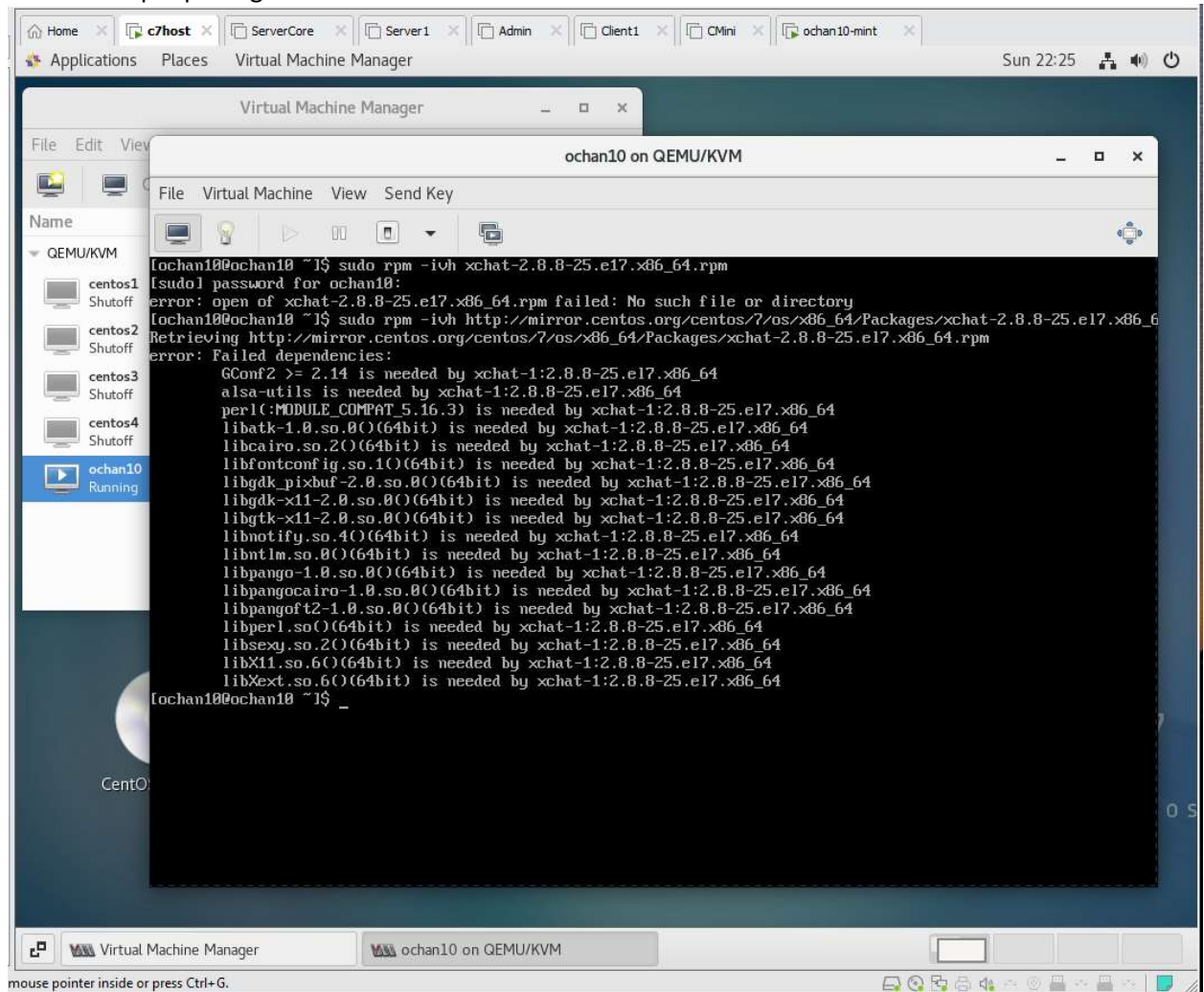
## Using LVM



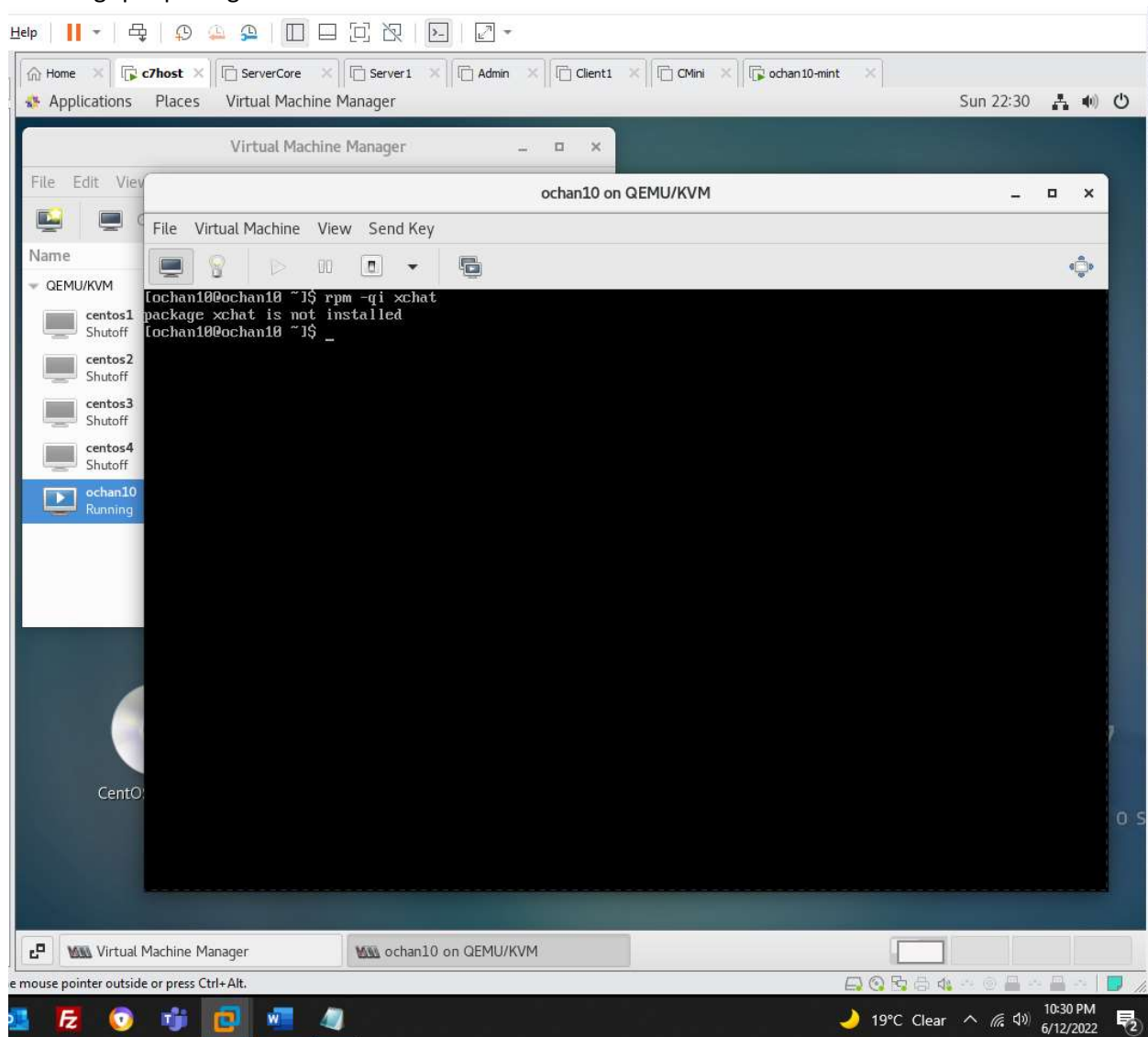
## Adding EPEL



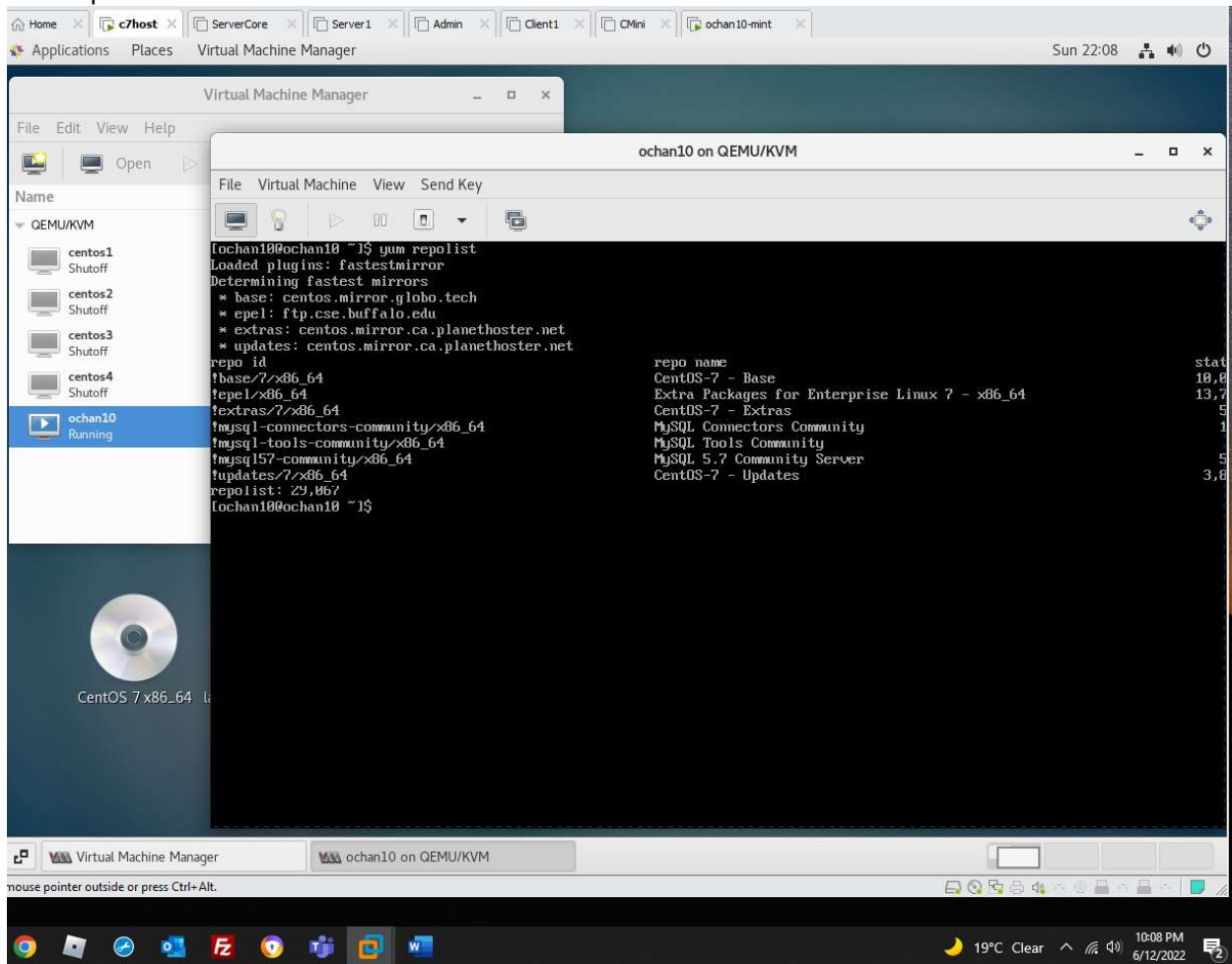
- Download rpm package:



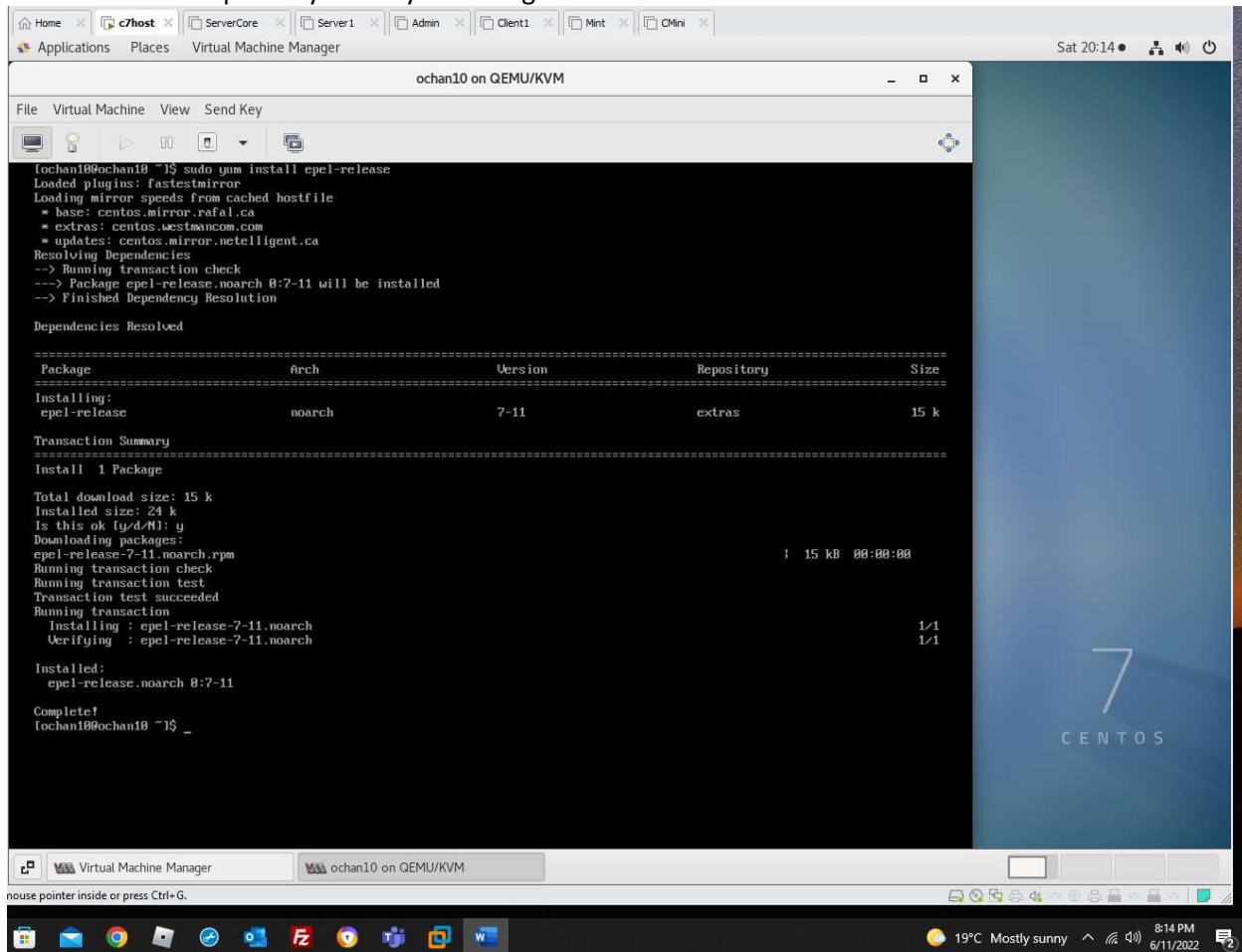
Checking rpm package if installed:



## Yum repolist



### 3. Add the EPEL repository to the yum configuration.





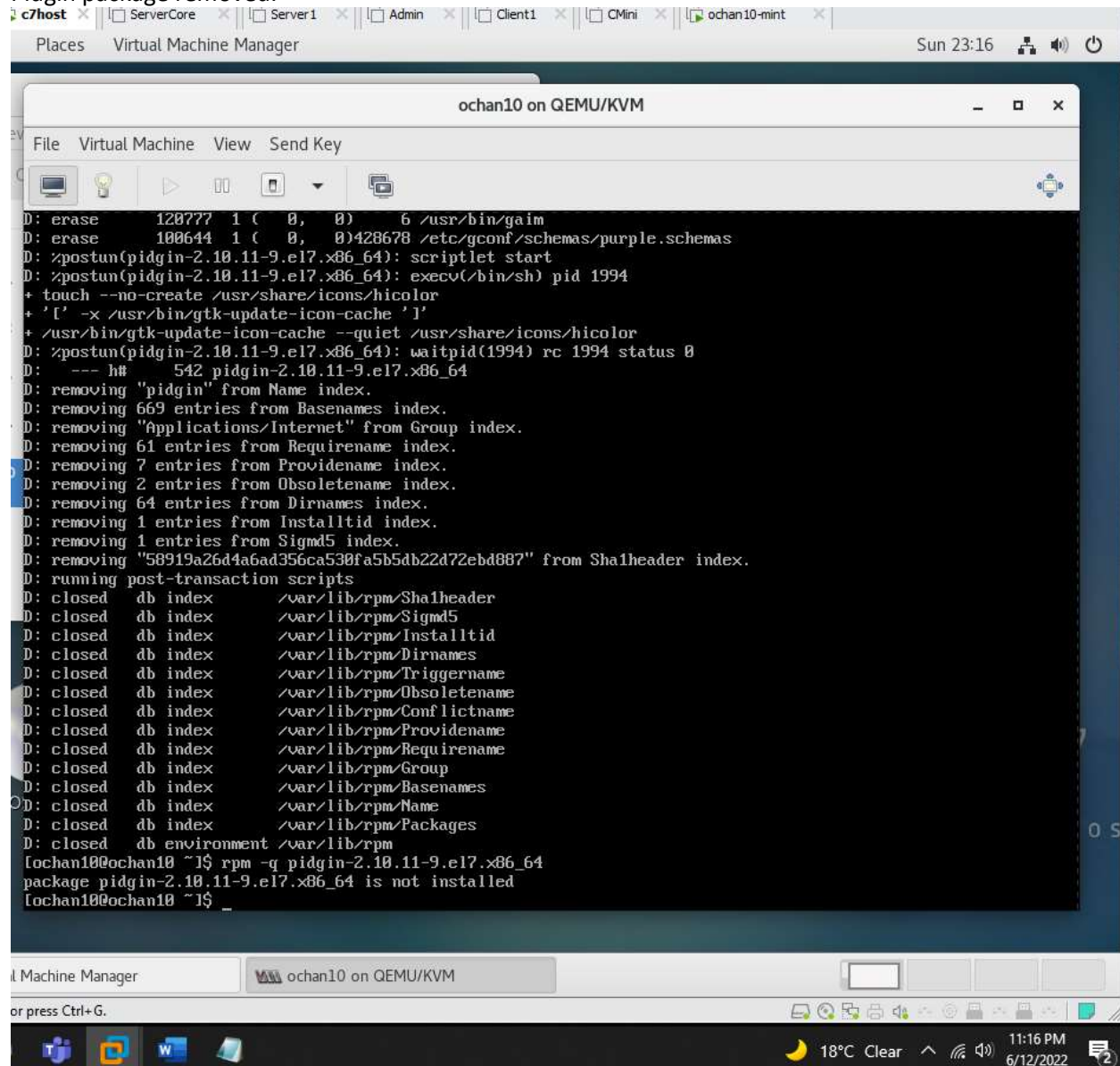
Remove rpm package pidgin:

The screenshot shows a Virtual Machine Manager window with several tabs: c7host, ServerCore, Server1, Admin, Client1, CMini, and ochan10-mint. The 'ochan10 on QEMU/KVM' window is active, displaying a terminal session. The terminal shows the execution of the command `rpm -q pidgin-2.10.11-9.el7.x86_64`, which returns `pidgin-2.10.11-9.el7.x86_64`. Subsequently, the command `rpm -ew pidgin-2.10.11-9.el7.x86_64` is executed. The terminal output shows the rpm database being updated, including loading keyrings, opening db indexes, and adding new keys. The process concludes with the message `error: can't create transaction lock on /var/lib/rpm/.rpm.lock (Permission denied)`. The VM status bar at the bottom indicates 'ochan10 on QEMU/KVM' is running.

```
lochan10@ochan10 ~]$ rpm -q pidgin-2.10.11-9.el7.x86_64
pidgin-2.10.11-9.el7.x86_64
lochan10@ochan10 ~]$ rpm -ew pidgin-2.10.11-9.el7.x86_64
D: loading keyring from pubkeys in /var/lib/rpm/pubkeys/*.key
D: couldn't find any keys in /var/lib/rpm/pubkeys/*.key
D: loading keyring from rpmdb
D: serialize failed, using private dbenv
D: opening db environment /var/lib/rpm cdb:private:0x401
D: opening db index /var/lib/rpm/Packages 0x400 mode=0x0
D: locked db index /var/lib/rpm/Packages
D: opening db index /var/lib/rpm/Name 0x400 mode=0x0
D: read h# 305 Header SHA1 digest: OK (489efff35e604042709daf46fb78611fe90a75aa)
D: added key gpg-pubkey-f4a80eb5-53a7ff4b to keyring
D: read h# 422 Header SHA1 digest: OK (49e1383f4135980852653a2e84d1e330ed00dfba)
D: added key gpg-pubkey-5072e1f5-58a70520 to keyring
D: read h# 423 Header SHA1 digest: OK (dd737a402556b7653c2bc971f343532046e26384)
D: added key gpg-pubkey-352c64e5-52ae6884 to keyring
D: Using legacy gpg-pubkey(s) from rpmdb
D: read h# 542 Header U3 RSA/SHA256 Signature, key ID f4a80eb5: OK
D: opening db index /var/lib/rpm/Conflictname 0x400 mode=0x0
D: ===== --- pidgin-2.10.11-9.el7 x86_64/linux 0x2
D: opening db index /var/lib/rpm/Requirename 0x400 mode=0x0
D: ===== recording tsort relations
D: ===== tsorting packages (order, #predecessors, #successors, depth)
D: 0 0 0 1 -pidgin-2.10.11-9.el7.x86_64
D: erasing packages
error: can't create transaction lock on /var/lib/rpm/.rpm.lock (Permission denied)
D: closed db index /var/lib/rpm/Conflictname
D: closed db index /var/lib/rpm/Requirename
D: closed db index /var/lib/rpm/Name
D: closed db index /var/lib/rpm/Packages
D: closed db environment /var/lib/rpm
lochan10@ochan10 ~]$
```



## Pidgin package removed:

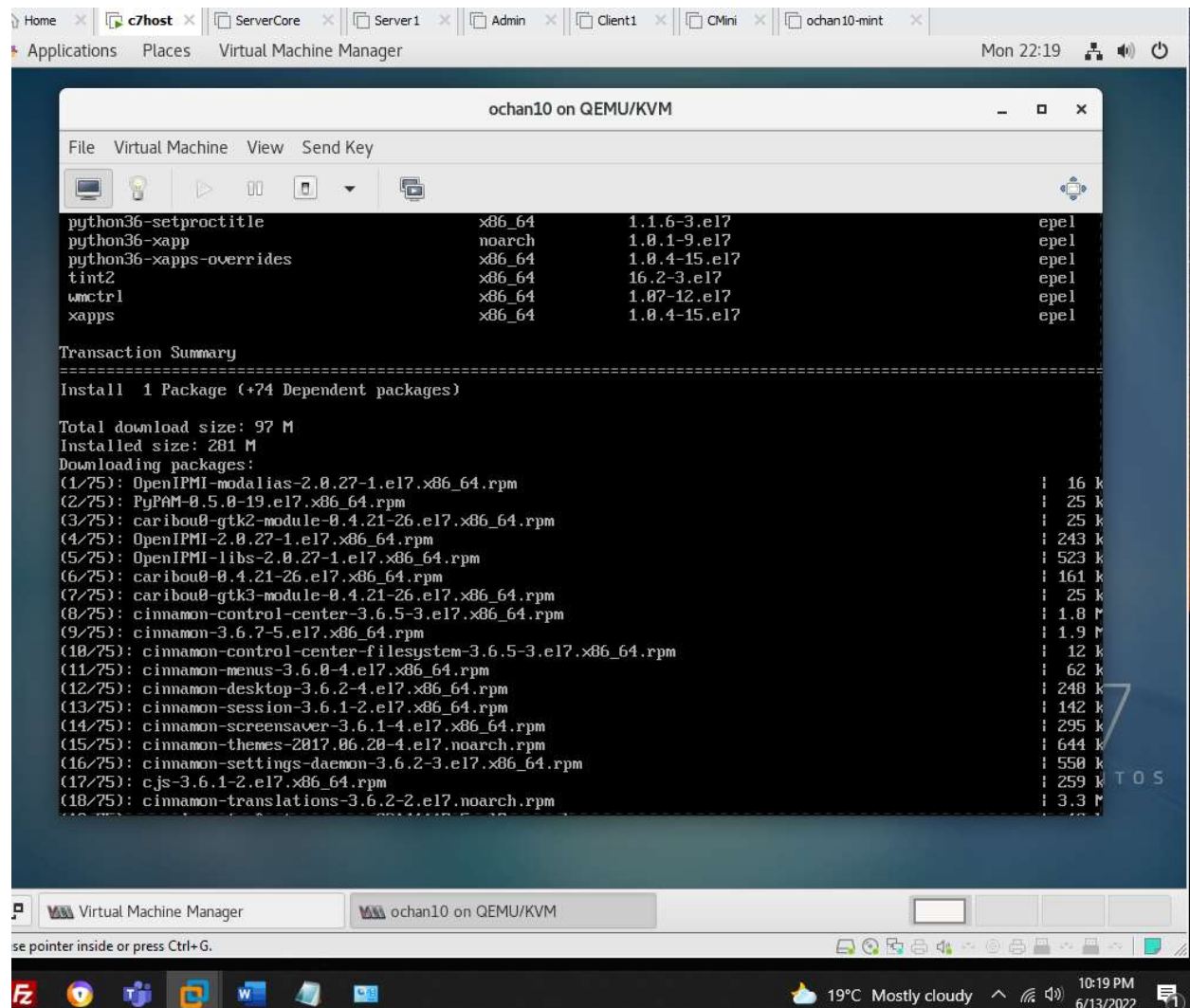


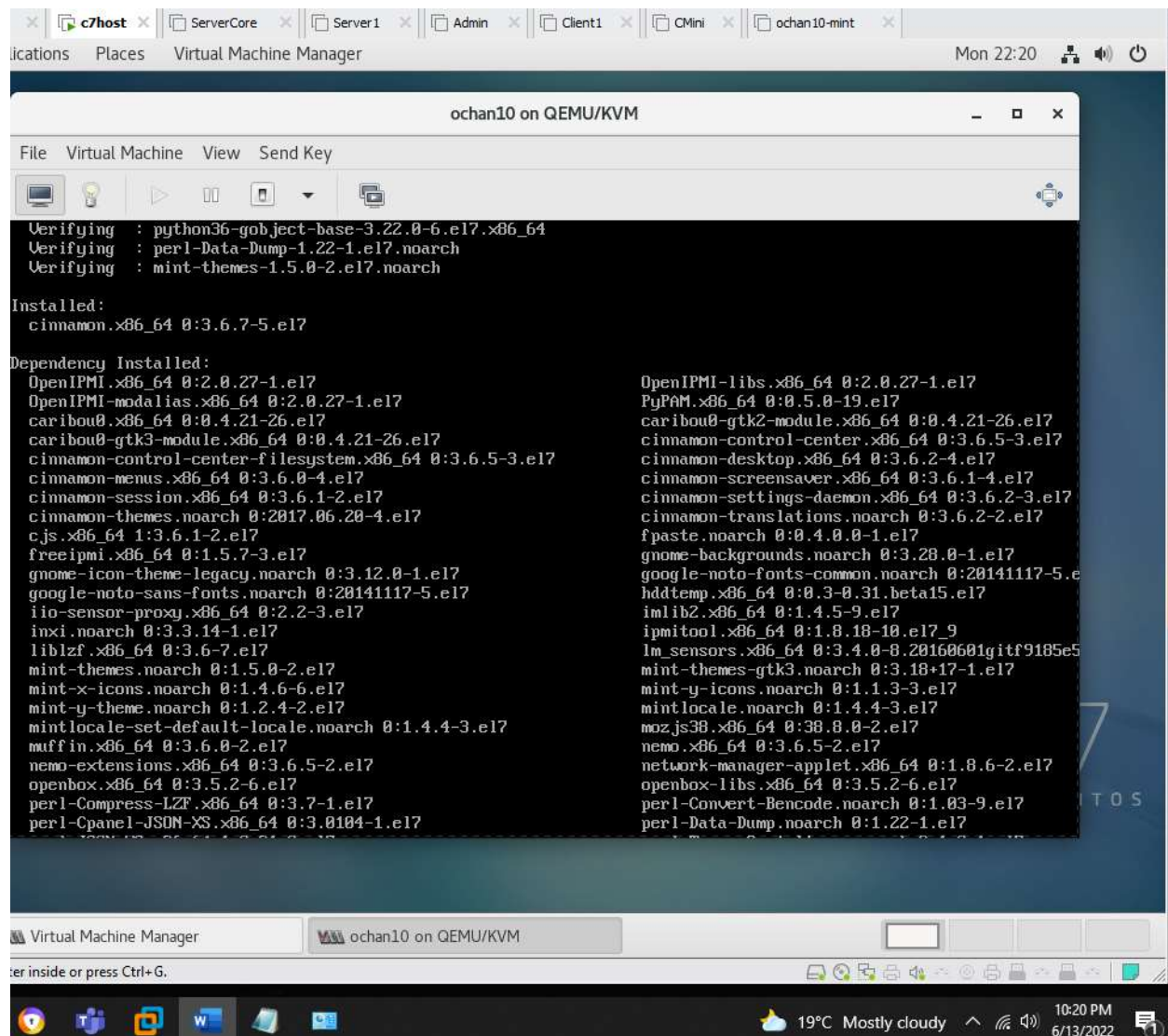
The screenshot shows a Virtual Machine Manager window titled "ochan10 on QEMU/KVM". The window displays the command history of the virtual machine. The commands and their outputs are as follows:

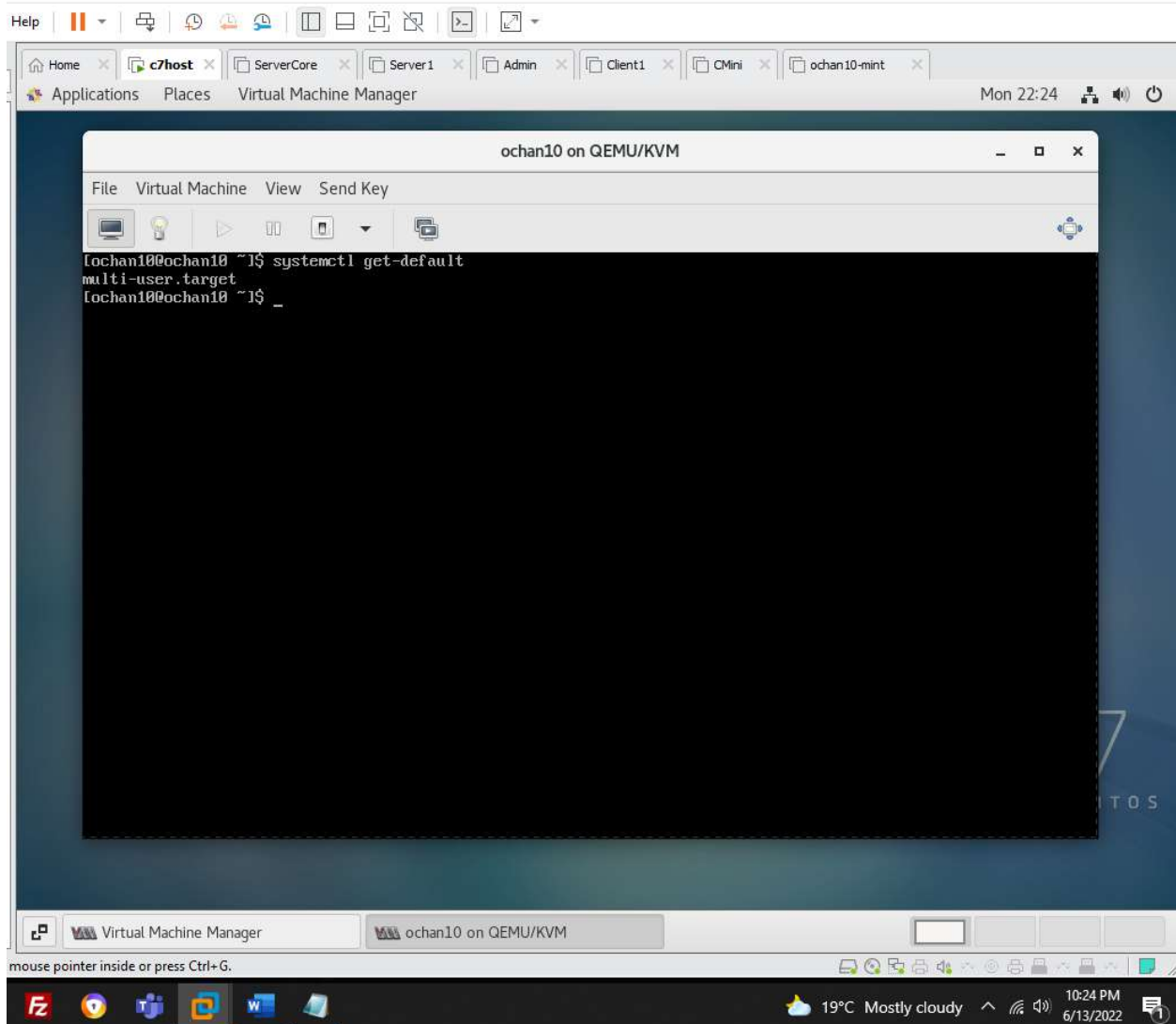
```
D: erase 128777 1 ( 0, 0) 6 /usr/bin/gaim
D: erase 100644 1 ( 0, 0)428678 /etc/gconf/schemas/purple.schemas
D: %postun(pidgin-2.10.11-9.el7.x86_64): scriptlet start
D: %postun(pidgin-2.10.11-9.el7.x86_64): execv(/bin/sh) pid 1994
+ touch --no-create /usr/share/icons/hicolor
+ '[' -x /usr/bin/gtk-update-icon-cache ']'
+ /usr/bin/gtk-update-icon-cache --quiet /usr/share/icons/hicolor
D: %postun(pidgin-2.10.11-9.el7.x86_64): waitpid(1994) rc 1994 status 0
D: --- h# 542 pidgin-2.10.11-9.el7.x86_64
D: removing "pidgin" from Name index.
D: removing 669 entries from Basenames index.
D: removing "Applications/Internet" from Group index.
D: removing 61 entries from Requirename index.
D: removing 7 entries from Providename index.
D: removing 2 entries from Obsoletename index.
D: removing 64 entries from Dirnames index.
D: removing 1 entries from Installtid index.
D: removing 1 entries from Sigmd5 index.
D: removing "58919a26d4a6ad356ca530fa5b5db22d72ebd887" from Sha1header index.
D: running post-transaction scripts
D: closed db index /var/lib/rpm/Sha1header
D: closed db index /var/lib/rpm/Sigmd5
D: closed db index /var/lib/rpm/Installtid
D: closed db index /var/lib/rpm/Dirnames
D: closed db index /var/lib/rpm/Triggername
D: closed db index /var/lib/rpm/Obsoletename
D: closed db index /var/lib/rpm/Conflictname
D: closed db index /var/lib/rpm/Providename
D: closed db index /var/lib/rpm/Requirename
D: closed db index /var/lib/rpm/Group
D: closed db index /var/lib/rpm/Basenames
D: closed db index /var/lib/rpm/Name
D: closed db index /var/lib/rpm/Packages
D: closed db environment /var/lib/rpm
[ochan10@ochan10 ~]$ rpm -q pidgin-2.10.11-9.el7.x86_64
package pidgin-2.10.11-9.el7.x86_64 is not installed
[ochan10@ochan10 ~]$ _
```

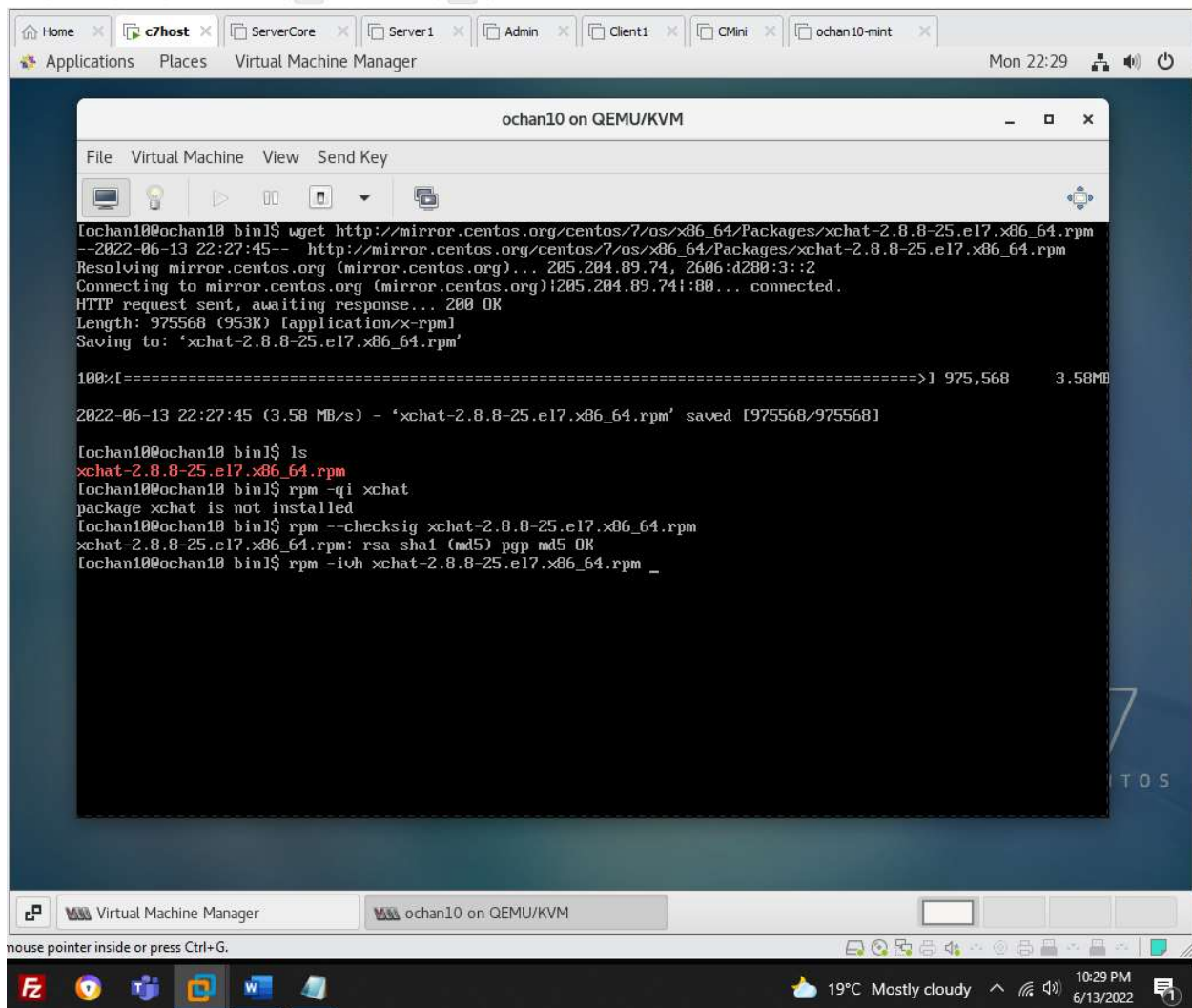
The bottom of the window shows the system tray with the date and time: 11:16 PM, 6/12/2022, and the temperature: 18°C Clear.

## Installing cinnamon in centos 7:

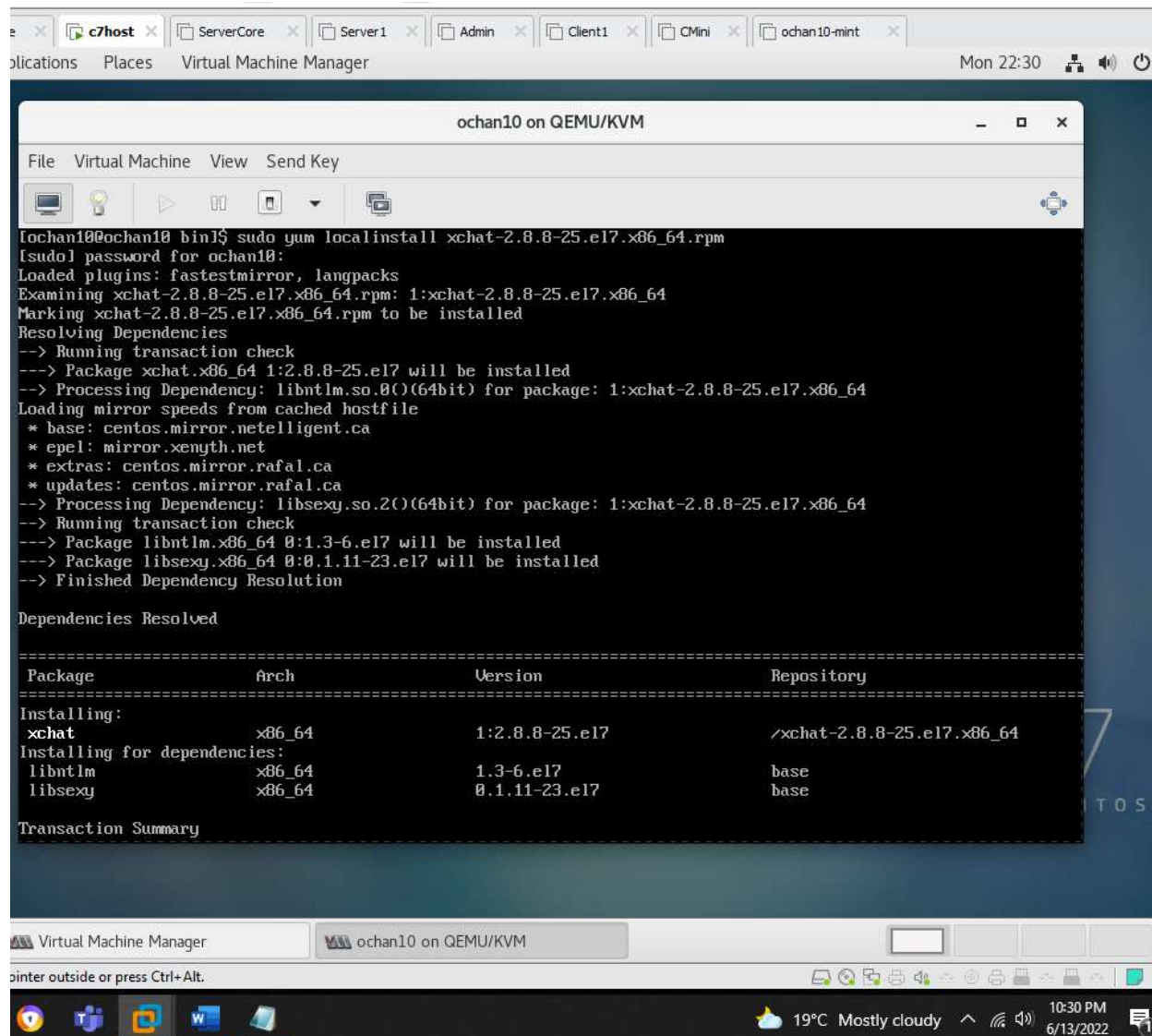




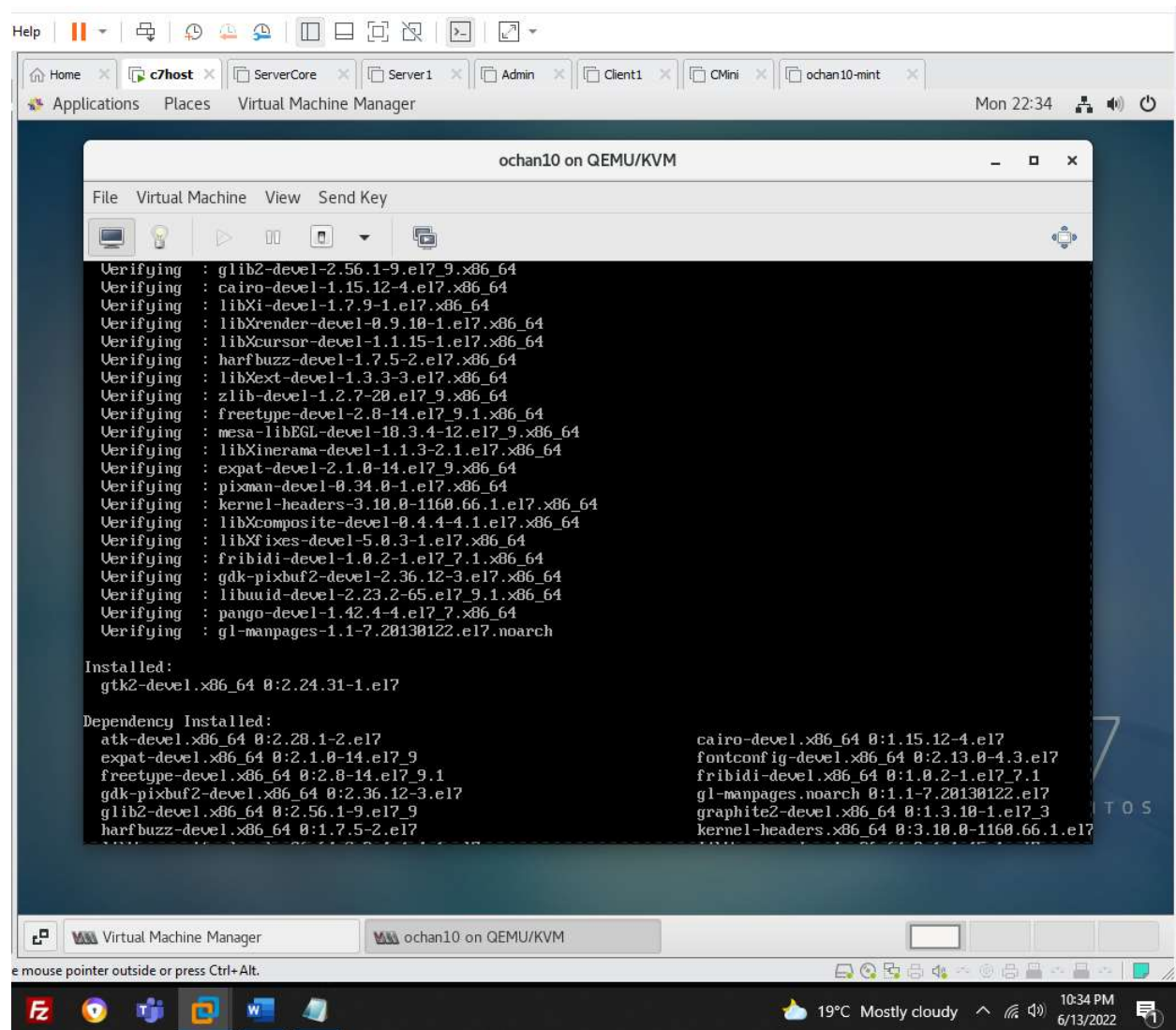




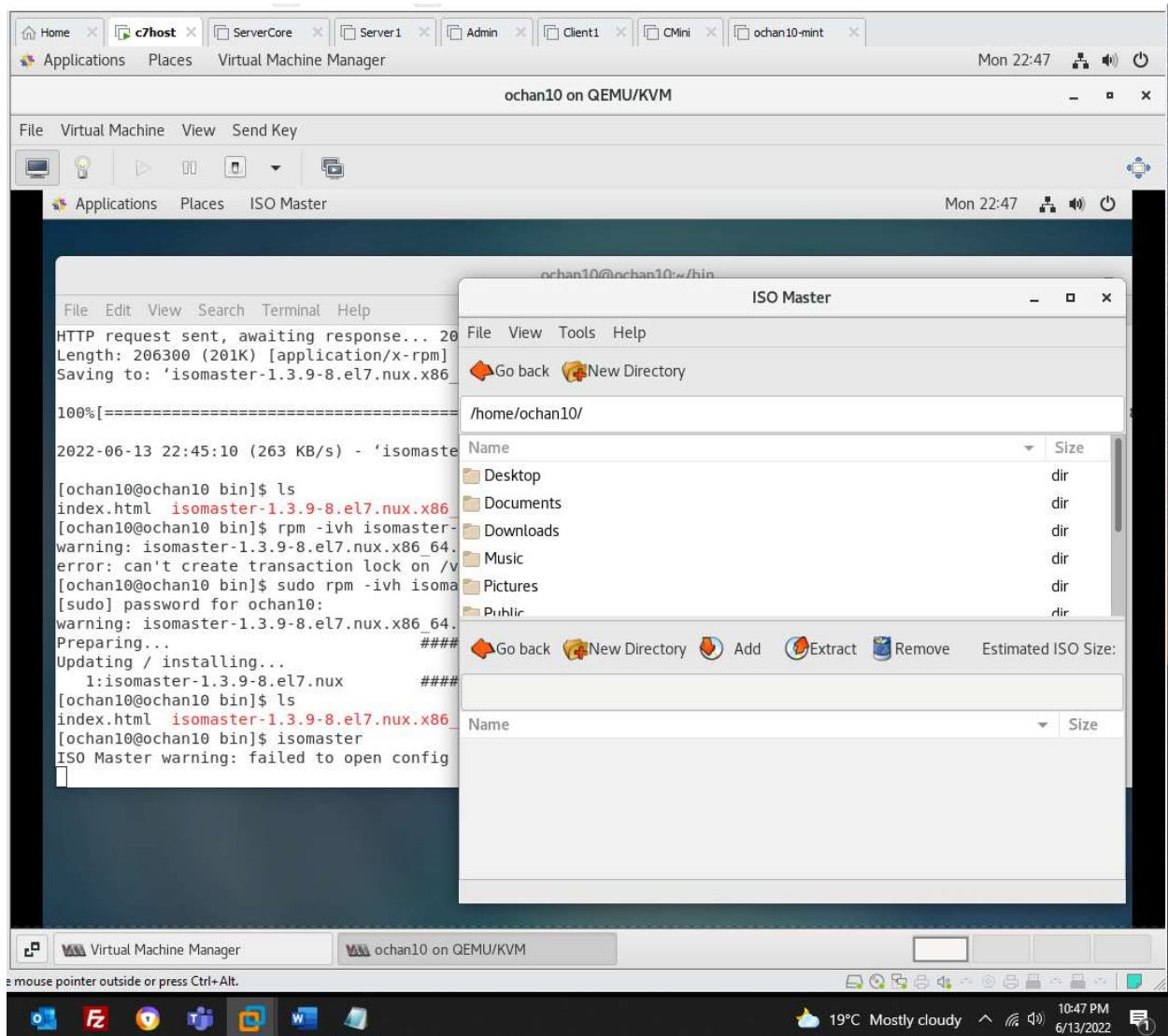




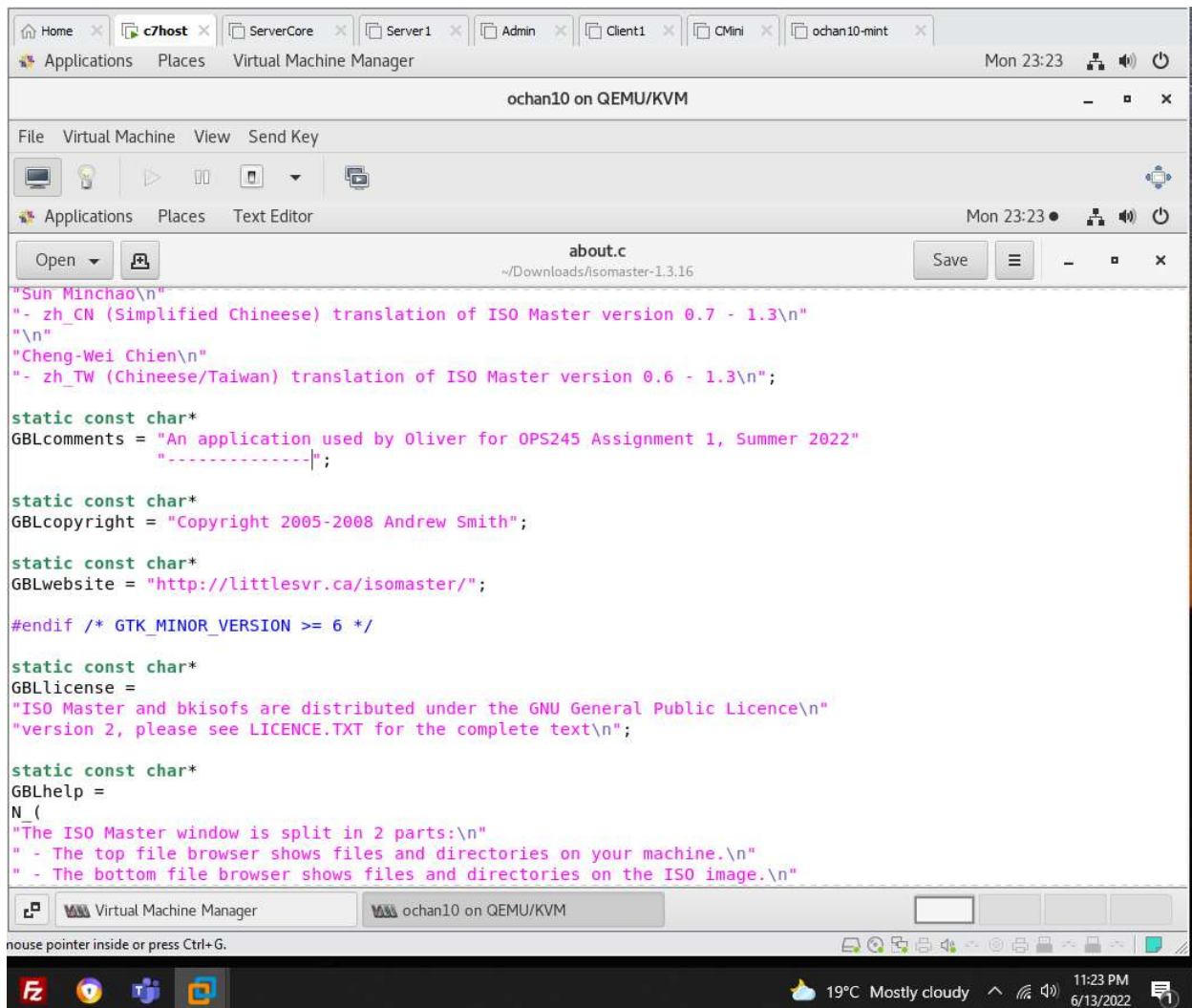
Gtk2-devel installed:



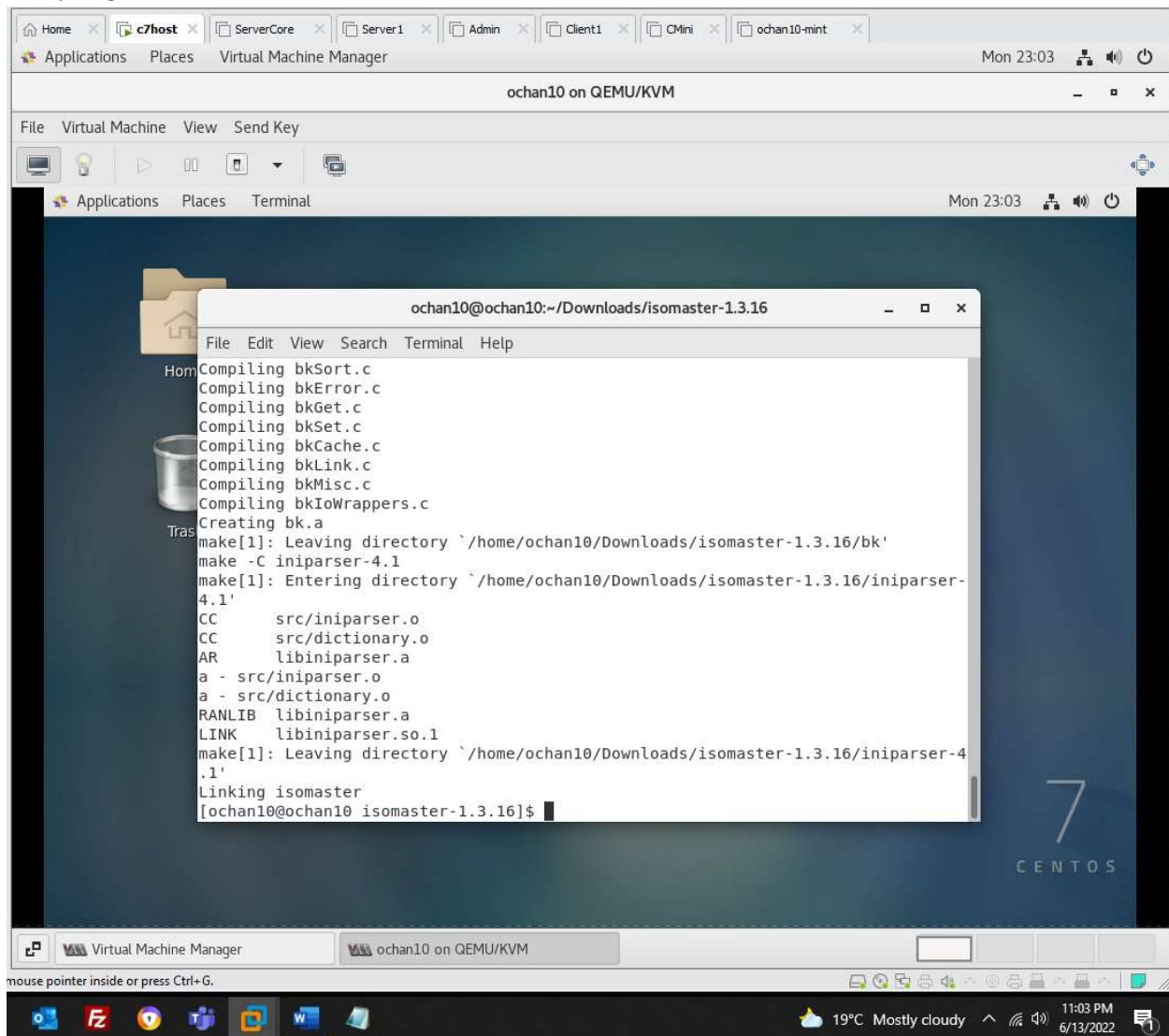




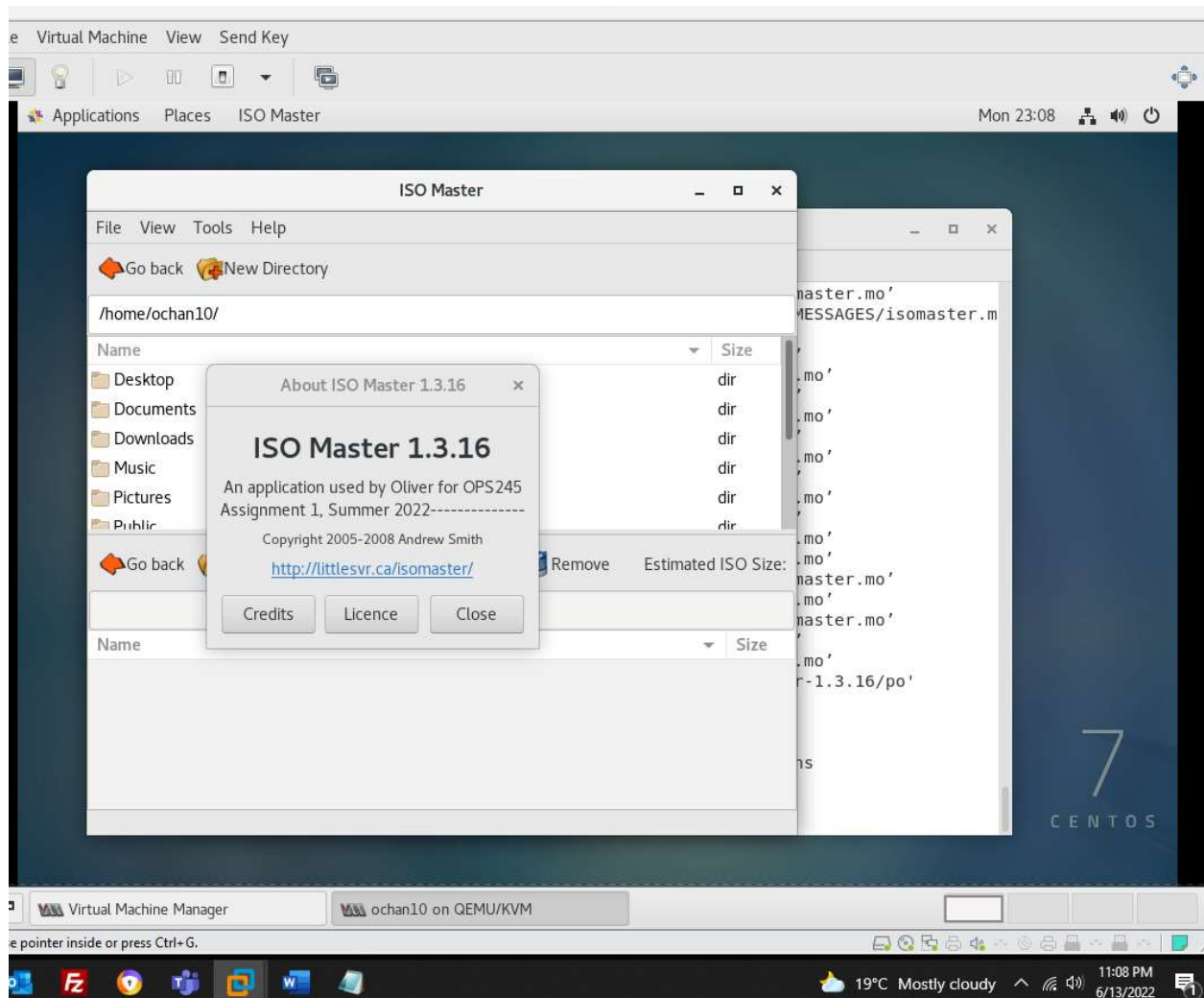
## Edit about.ca



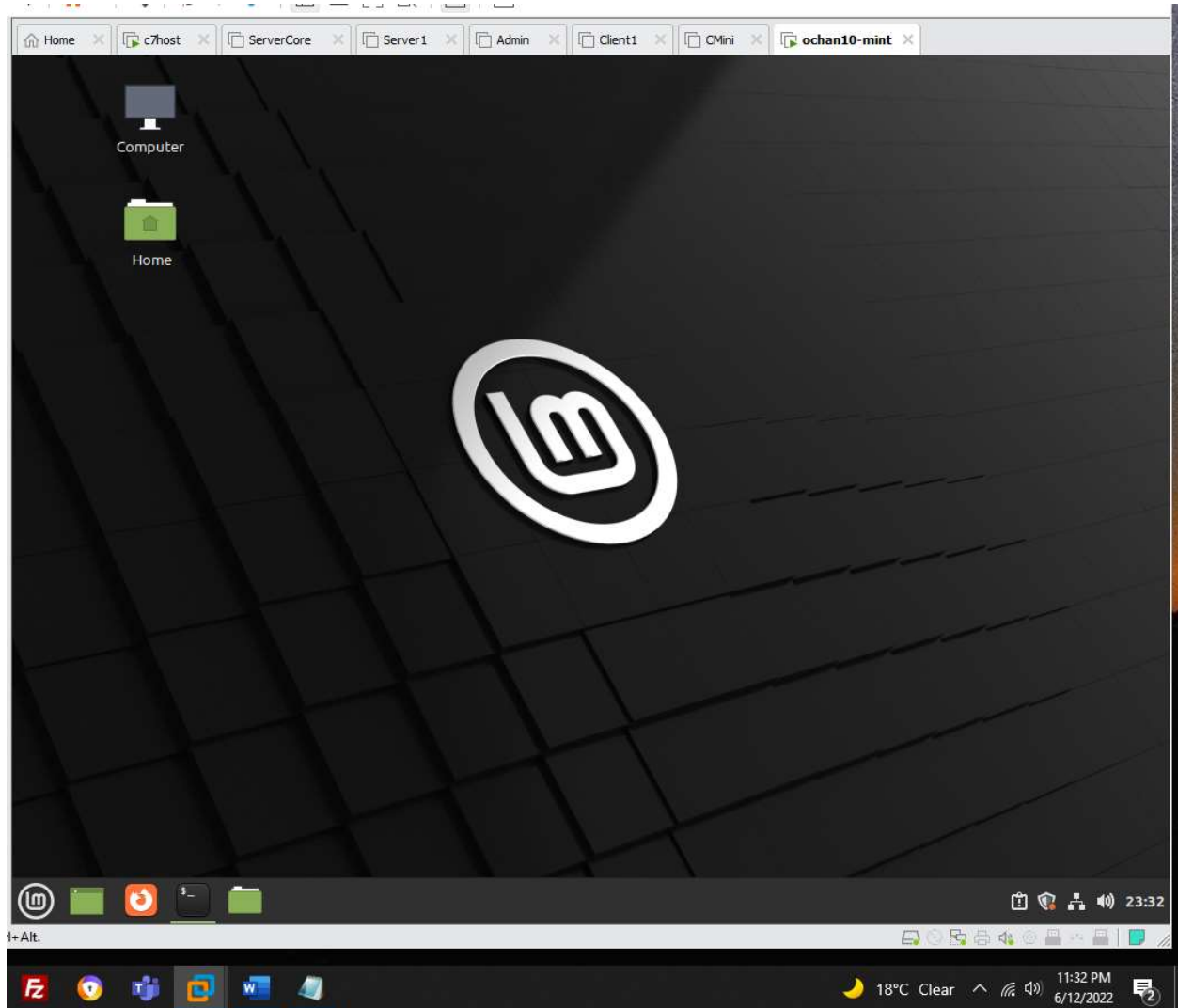
## Compiling:



Edit about.c and reinstall isomaster

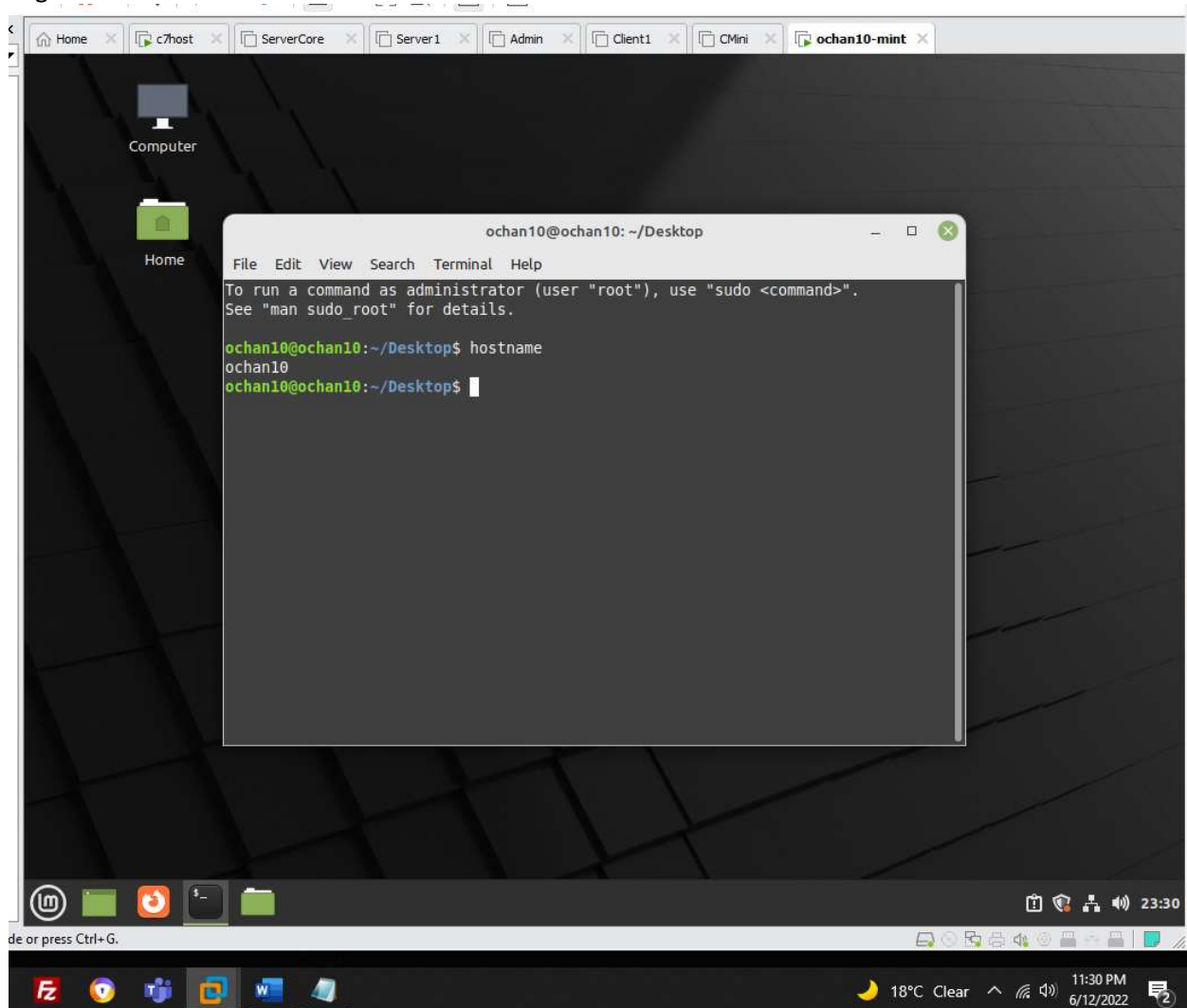


Cinnamon-mint:

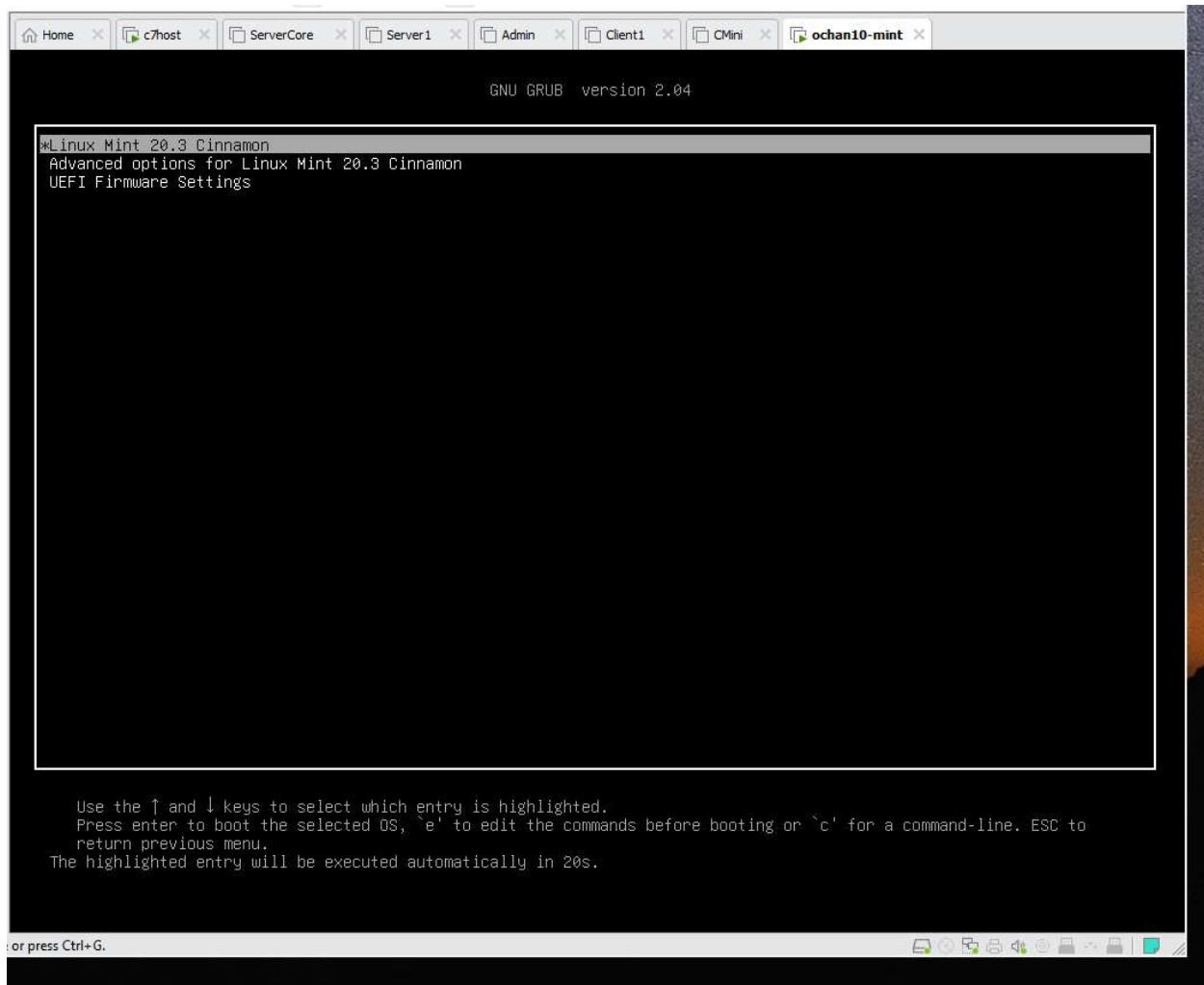


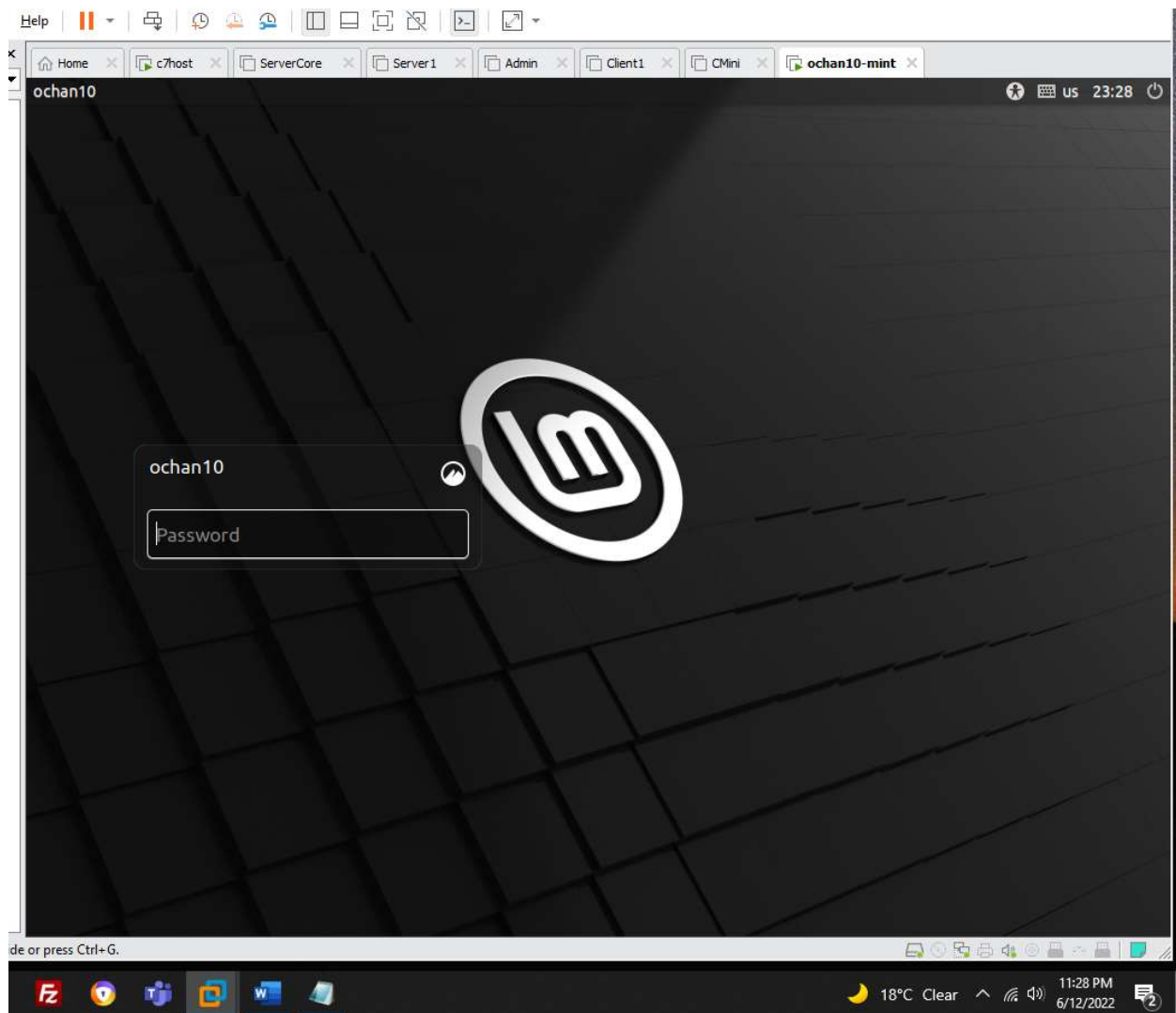
The screenshot shows a Linux desktop with several open windows at the top labeled "Home", "c7host", "ServerCore", "Server1", "Admin", "Client1", "CMini", and "ochan10-mint". On the left sidebar are icons for "Computer" and "Home". The main area contains a terminal window titled "ochan10@ochan10: ~/Desktop". Inside the terminal:  
  
File Edit View Search Terminal Help  
  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo\_root" for details.  
  
ochan10@ochan10:~/Desktop\$ hostname  
ochan10  
ochan10@ochan10:~/Desktop\$ sudo apt install rpm  
[sudo] password for ochan10:  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following additional packages will be installed:  
  debugedit librpm8 librpmbuild8 librpmio8 librpsign8 rpm-common rpm2cpio  
Suggested packages:  
  rpm-ih8n alien python elfutils rpmlint rpm2html  
The following NEW packages will be installed:  
  debugedit librpm8 librpmbuild8 librpmio8 librpsign8 rpm rpm-common rpm2cpio  
0 upgraded, 8 newly installed, 0 to remove and 319 not upgraded.  
Need to get 504 kB of archives.  
After this operation, 2,145 kB of additional disk space will be used.  
Do you want to continue? [Y/n]  
  
At the bottom, there's a taskbar with application icons (LibreOffice Writer, Firefox, etc.) and system status indicators like network, volume, and time (11:30 PM, 6/12/2022).

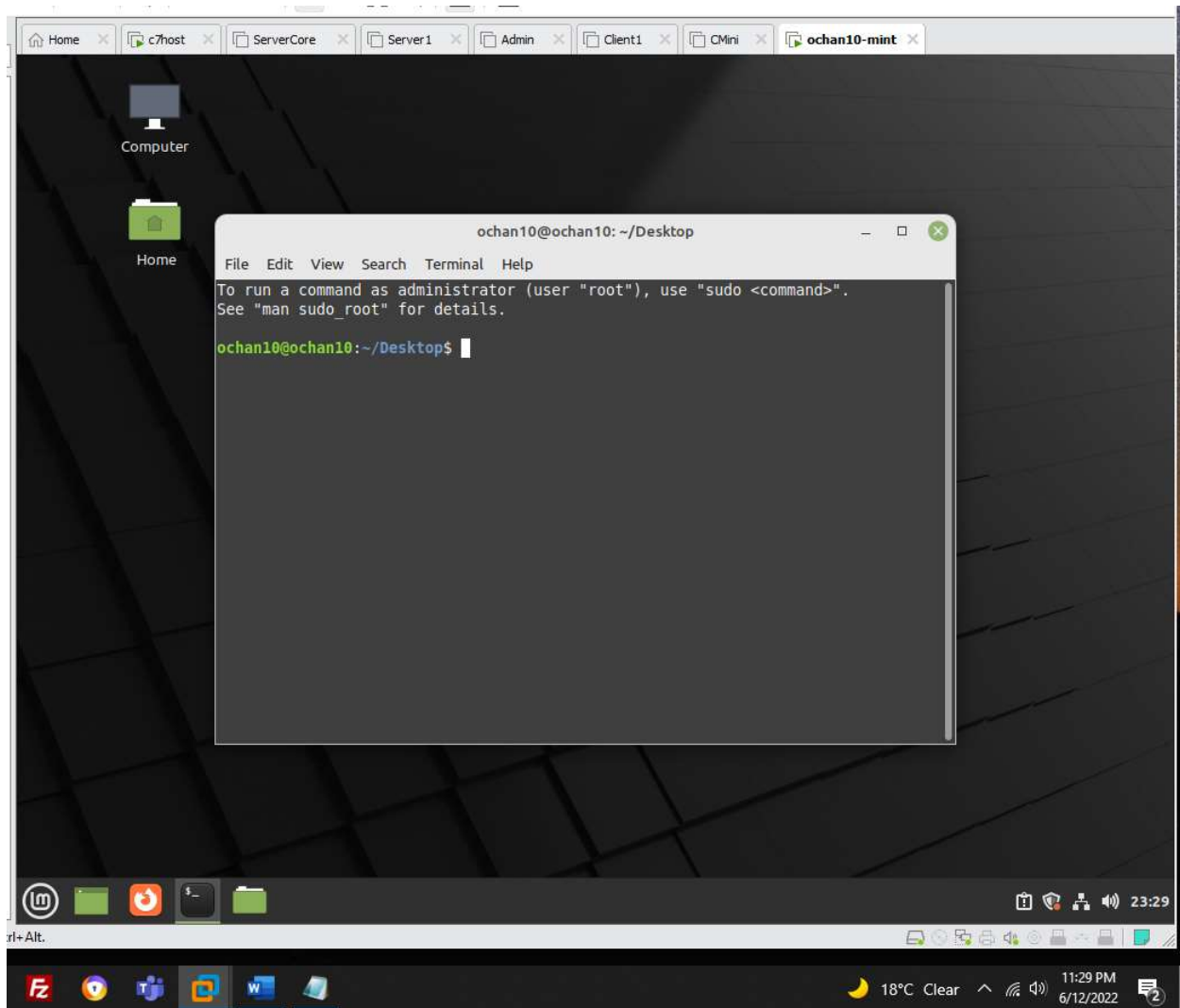
## Login to ochan

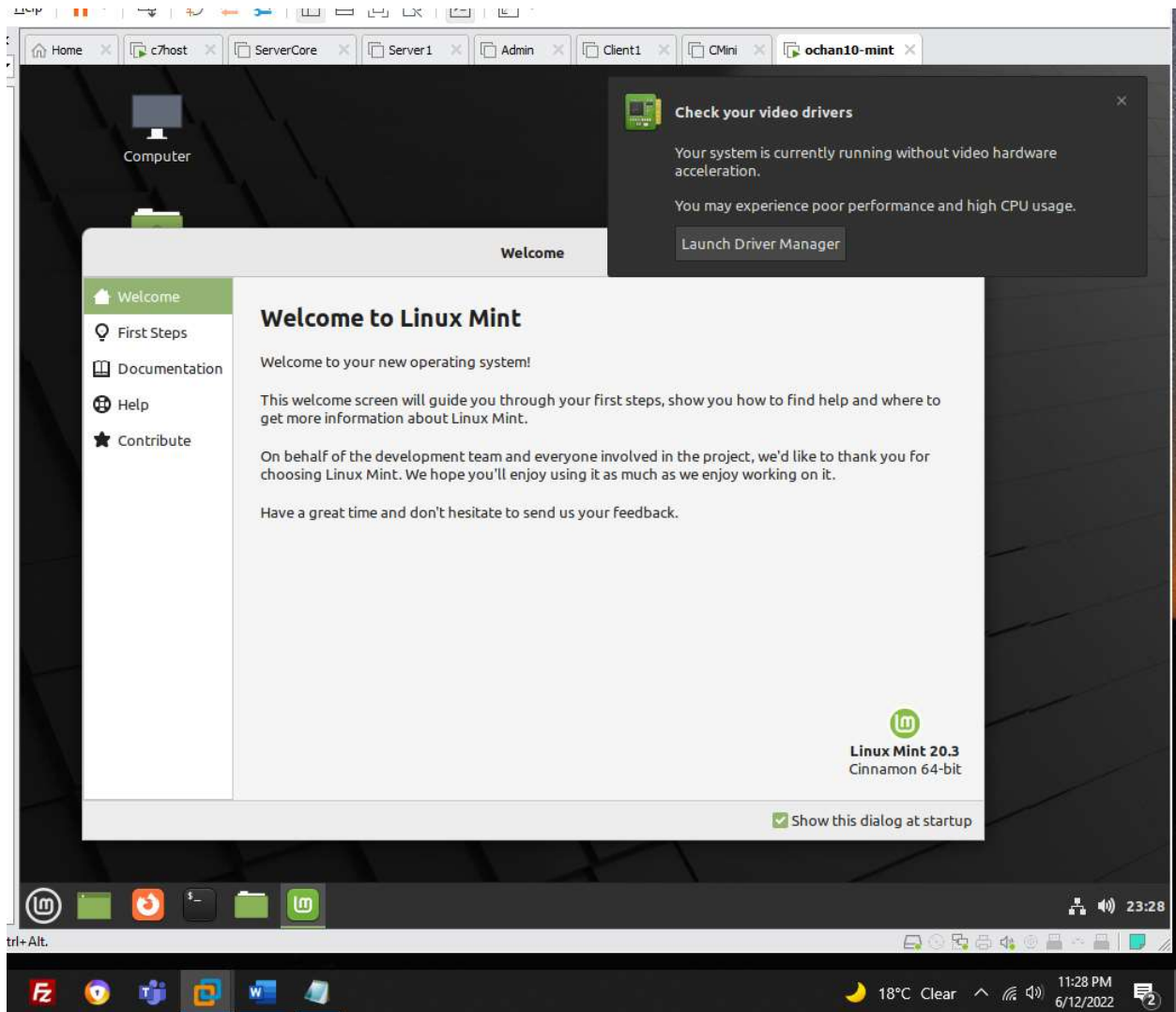












## LVM check

