Compartiendo archivos en una red Linux con NFS.

Por: John A. Pérez B. ~ 20186748

Este tutorial es un extracto del siguiente video:

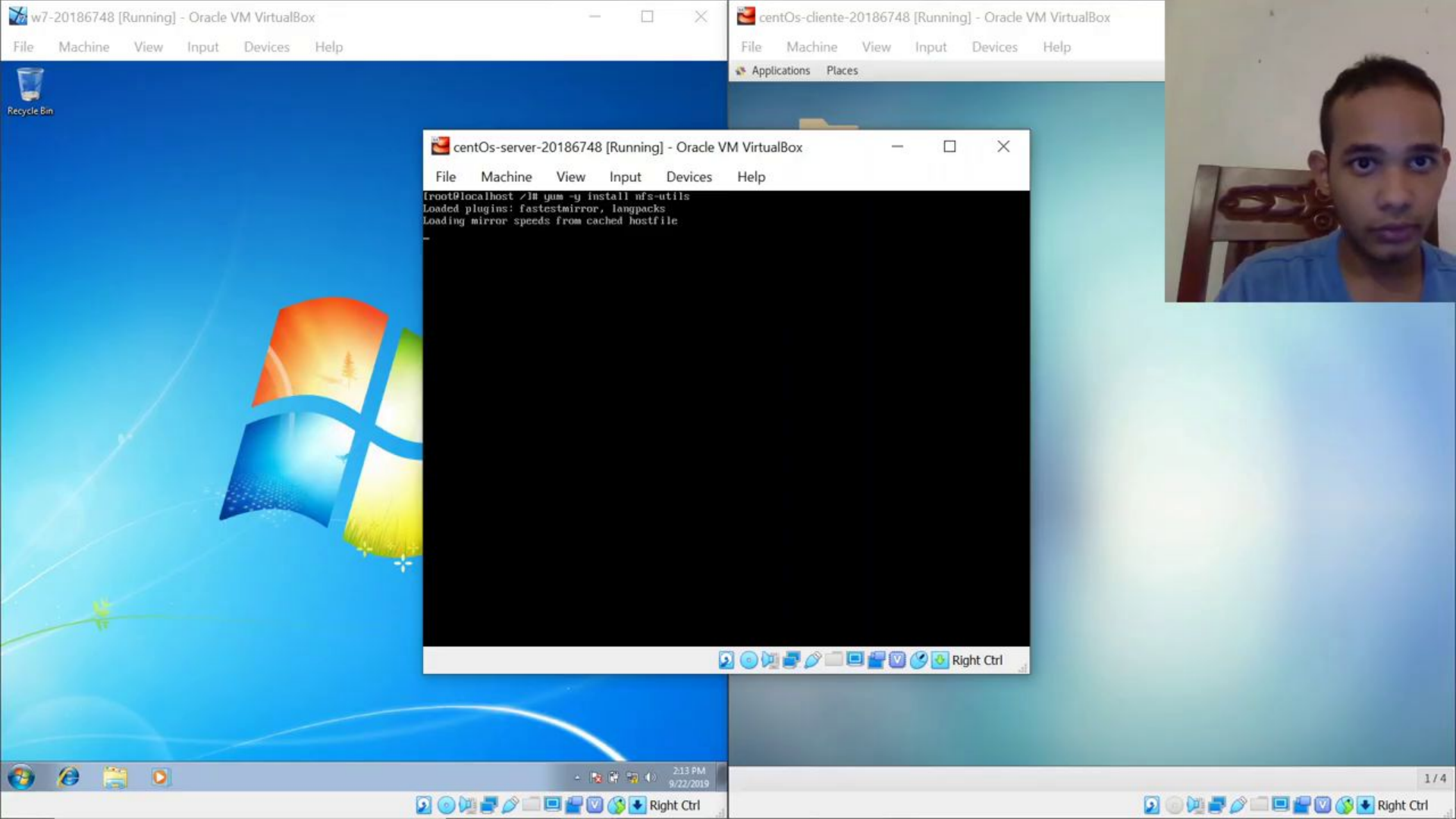
https://youtu.be/P4eO0jmkWOE

Fase 1: Descargamos los paquetes necesarios

Paso 1

Para comenzar descargamos el paquete nfs-utils en nuestro servidor con el comando **yum -y install nfs-utils.***

***yum** es el pkm de centos, y la opción **-y** acepta todas las condiciones de la instalacion por nosotros.


w7-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Recycle Bin
centOs-cliente-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places
centOs-server-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[root@localhost /]# yum -y install nfs-utils
Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
Right Ctrl
2:13 PM
9/22/2019
Right Ctrl
1 / 4
Right Ctrl

Paso 2

Nuevamente utilizamos el comando **yum -y install nfs-utils** esta vez en nuestro cliente para instalar el nfs-utils.

centOs-cliente-20186748 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Applications Places Terminal

root@localhost:~

File Edit View Search Terminal Help

```
[root@localhost ~]# yum -y install nfs-utils
```

root@localhost:~

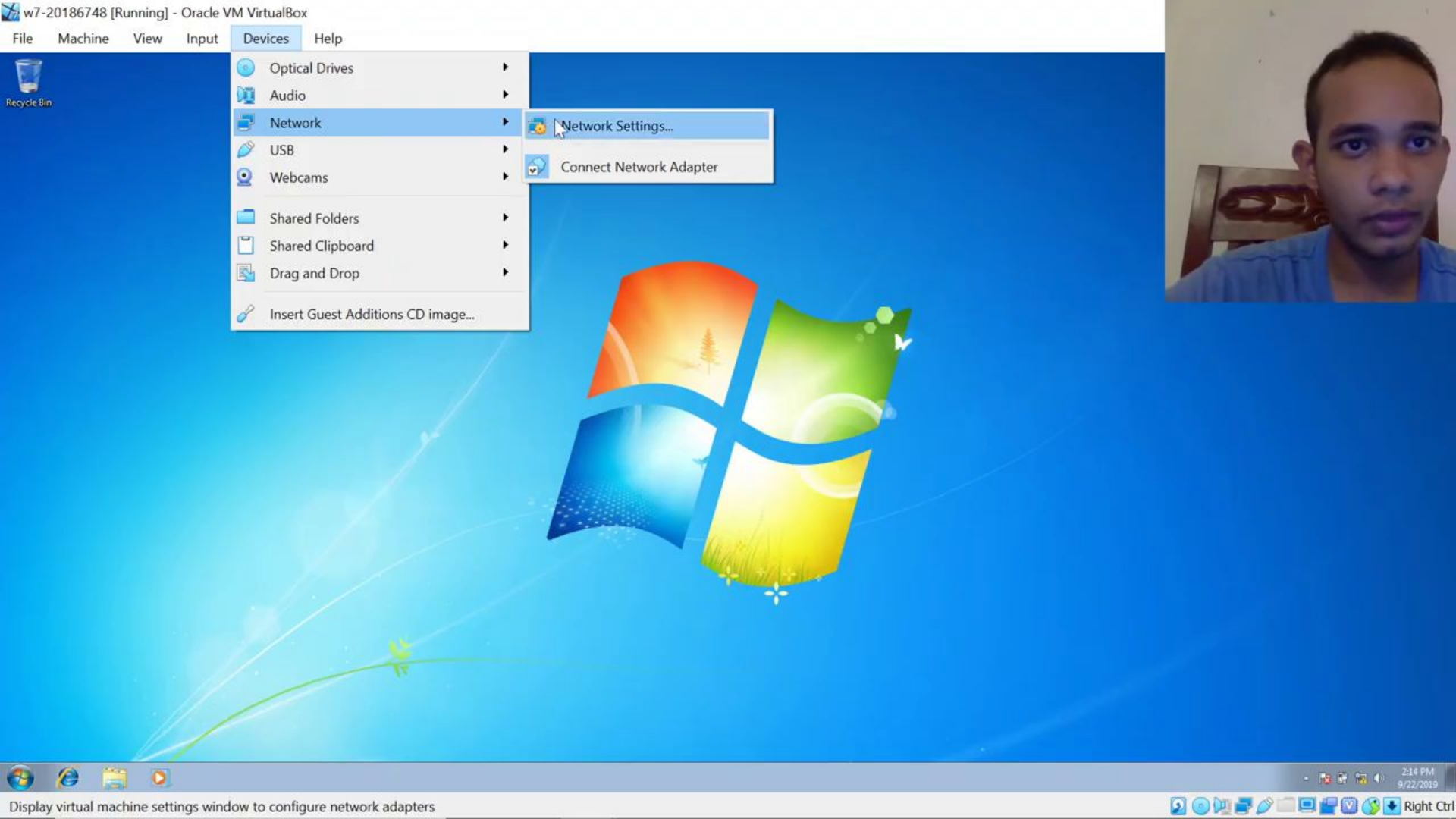
1 / 4

Right Ctrl

Fase 2: Configuración de la red interna en Virtual Box

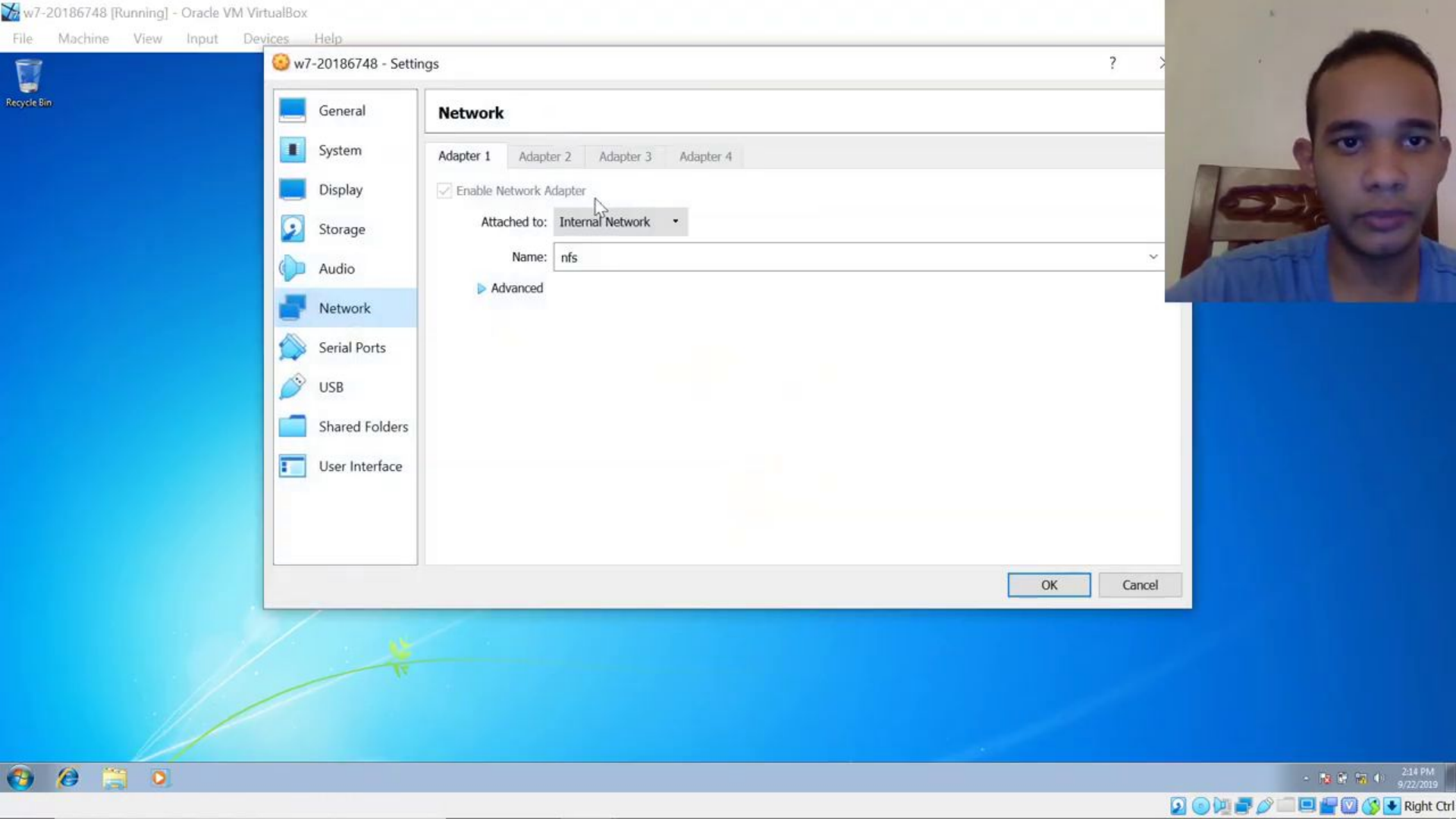
Paso 1

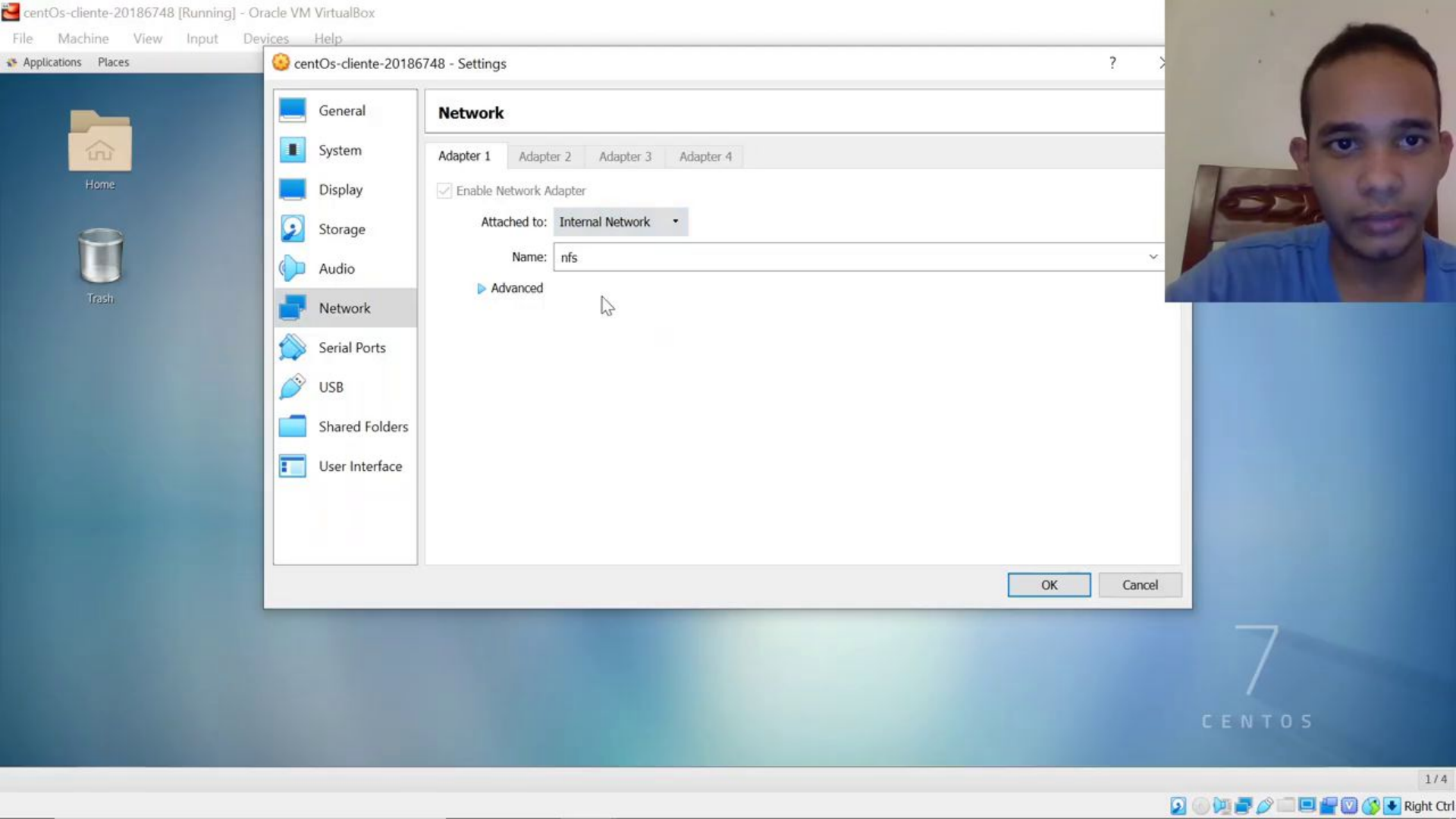
En todas nuestras máquinas virtuales, nos vamos al menu de virtual vox en el panel superior, y luego vamos a dispositivos > configuraciones de red.

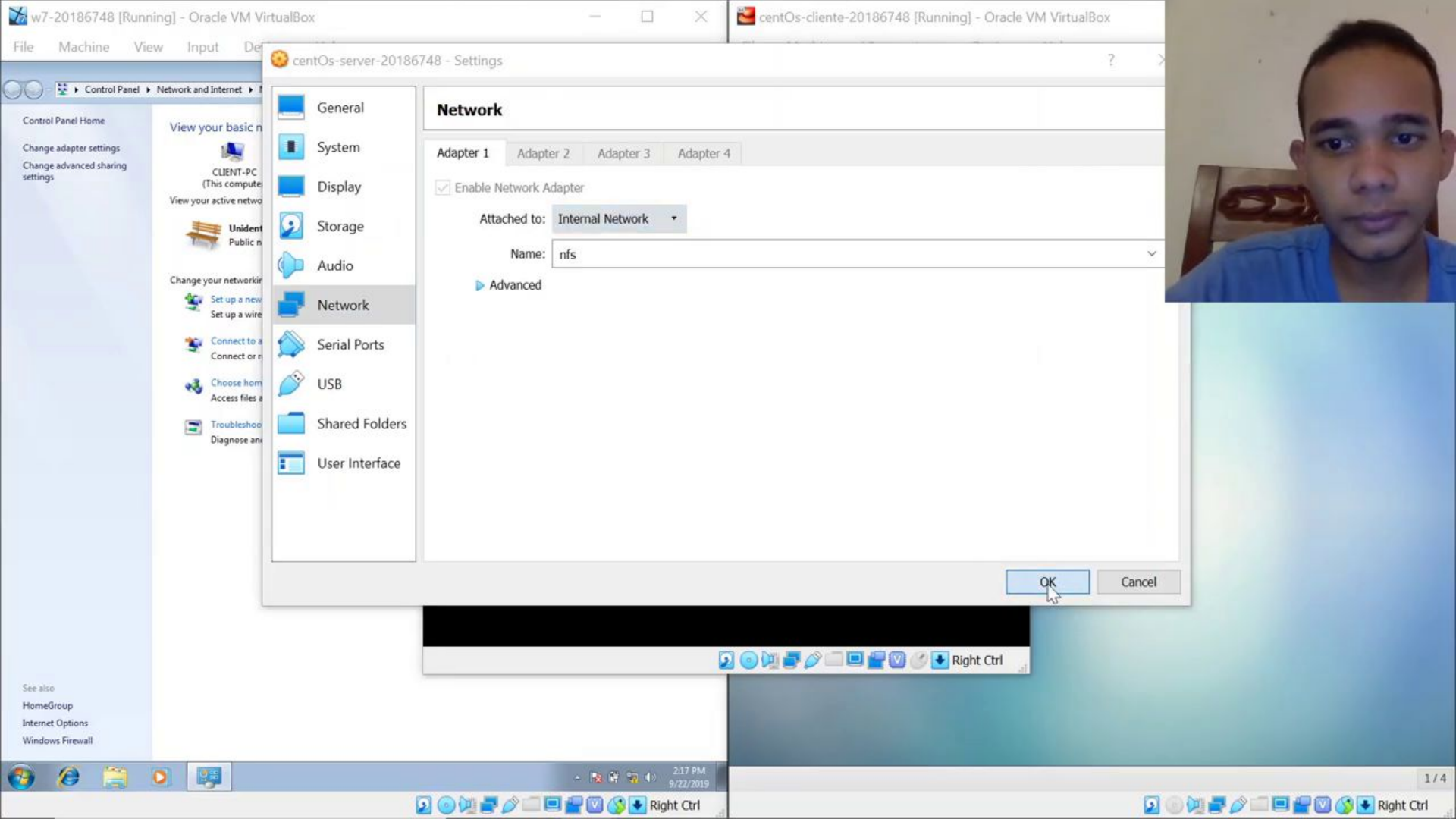

w7-20186748 [Running] - Oracle VM VirtualBox
File
Machine
View
Input
Devices
Help
Optical Drives
Audio
Network
USB
Webcams
Shared Folders
Shared Clipboard
Drag and Drop
Insert Guest Additions CD image...
Network Settings...
Connect Network Adapter
Recycle Bin
2:14 PM
9/22/2019
Display virtual machine settings window to configure network adapters
Right Ctrl

Paso 2

En las configuraciones red, cambiamos la conexión a red local, y asignamos el nombre de nuestra red local. Luego repetimos el procedimiento con el servidor y el cliente Linux.


w7-20186748 [Running] - Oracle VM VirtualBox
File
Machine
View
Input
Devices
Help
Recycle Bin
w7-20186748 - Settings
General
System
Display
Storage
Audio
Network
Serial Ports
USB
Shared Folders
User Interface
Network
Adapter 1
Adapter 2
Adapter 3
Adapter 4
Enable Network Adapter
Attached to:
Internal Network
Name:
nfs
Advanced
OK
Cancel
2:14 PM
9/22/2019
Right Ctrl


centOs-cliente-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places
Home
Trash
centOs-cliente-20186748 - Settings
General
System
Display
Storage
Audio
Network
Serial Ports
USB
Shared Folders
User Interface
Network
Adapter 1 Adapter 2 Adapter 3 Adapter 4
Enable Network Adapter
Attached to: Internal Network
Name: nfs
Advanced
OK
Cancel
CENTOS
1 / 4
Right Ctrl


w7-20186748 [Running] - Oracle VM VirtualBox
centOs-cliente-20186748 [Running] - Oracle VM VirtualBox
centOs-server-20186748 - Settings
General
System
Display
Storage
Audio
Network
Serial Ports
USB
Shared Folders
User Interface
Network
Adapter 1
Adapter 2
Adapter 3
Adapter 4
Enable Network Adapter
Attached to:
Internal Network
Name:
nfs
Advanced
OK
Cancel
Control Panel
Network and Internet
Control Panel Home
Change adapter settings
Change advanced sharing settings
Right Ctrl
1 / 4

Configuración de las interfaces de red

Paso 1

Colocamos todos nuestros computadores bajo la misma red para que puedan comunicarse.*

*En el vídeo anterior habíamos explicado como configurar la NIC por lo que se puede utilizar cualquiera de las formas que habíamos visto.

w7-20186748 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Control Panel ▸ Network and Internet ▸ Network and Sharing Center

Control Panel Home

Change adapter settings

Change advanced sharing settings

View your basic network information and set up connections

See full map

CLIENT-PC (This computer) — Unidentified network — Internet

View your active networks — Connect or disconnect

Unidentified network
Public network

Access type: No network access
Connections: Local Area Connection

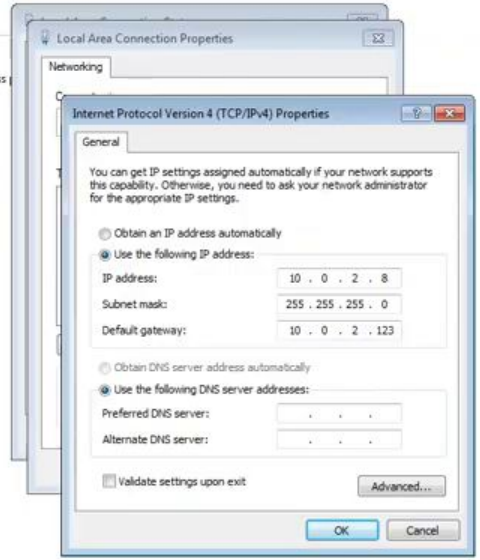
Change your networking settings

Set up a new connection or network
Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or access

Connect to a network
Connect or reconnect to a wireless, wired, dial-up, or VPN network connection.

Choose homegroup and sharing options
Access files and printers located on other network computers, or change sharing settings.

Troubleshoot problems
Diagnose and repair network problems, or get troubleshooting information.



See also
HomeGroup
Internet Options
Windows Firewall

2:15 PM
9/22/2019

Right Ctrl

centOs-cliente-20186748 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Applications Places Settings

Home

Trash

Settings

Network

Wi-Fi
Bluetooth
Background
Notifications
Search
Region & Language
Universal Access
Online Accounts
Privacy
Sharing
Sound
Power
Network

Cancel

Wired

Apply

Details Identity IPv4 IPv6 Security

IPv4 Method

Automatic (DHCP)
Link-Local Only
Manual
Disable

Addresses

Address	Netmask	Gateway
10.0.2.16	255.255.255.0	

DNS

Automatic ON

Separate IP addresses with commas

Routes

Automatic ON

Address	Netmask	Gateway	Metric

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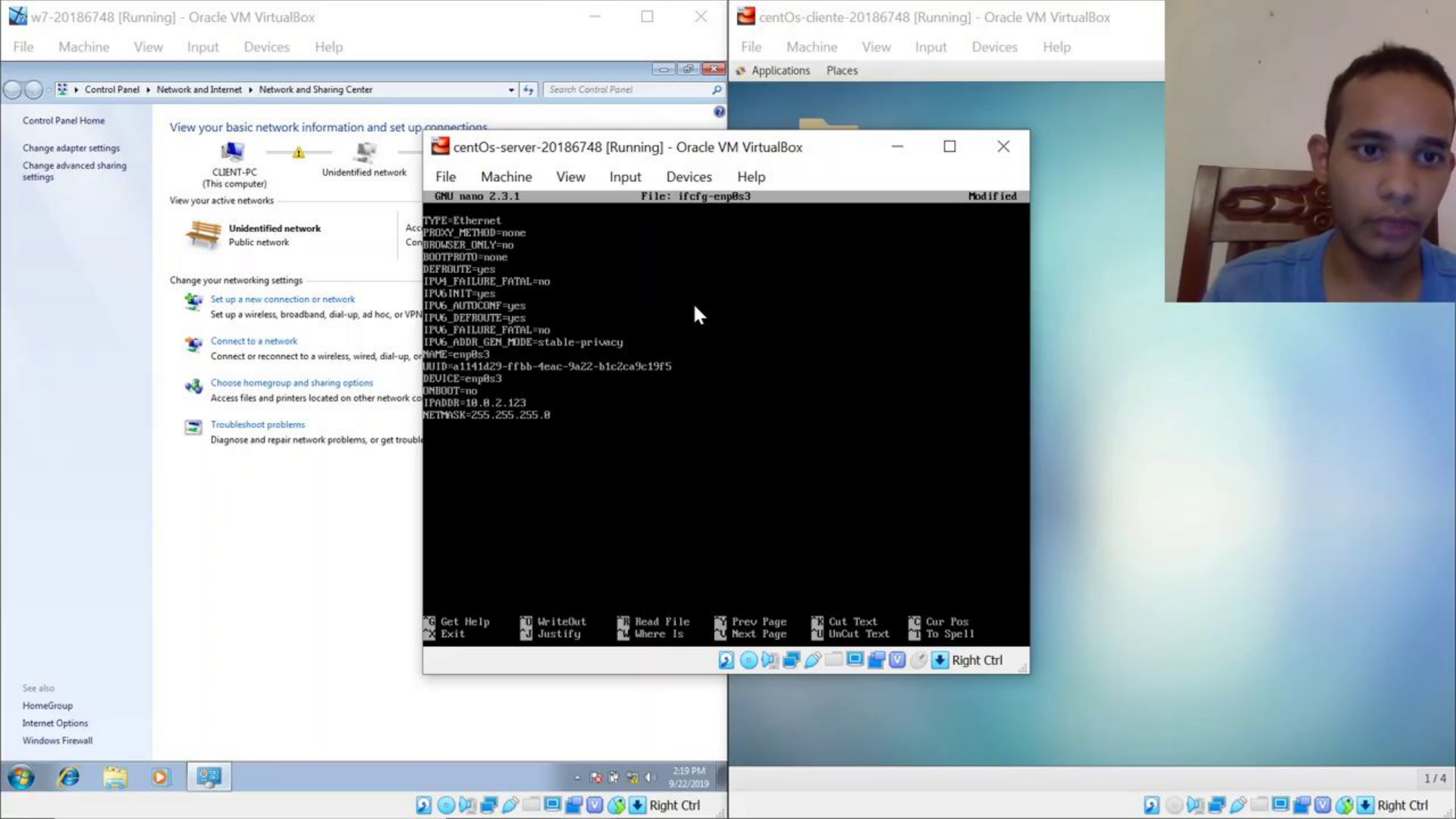
CENTOS

Settings

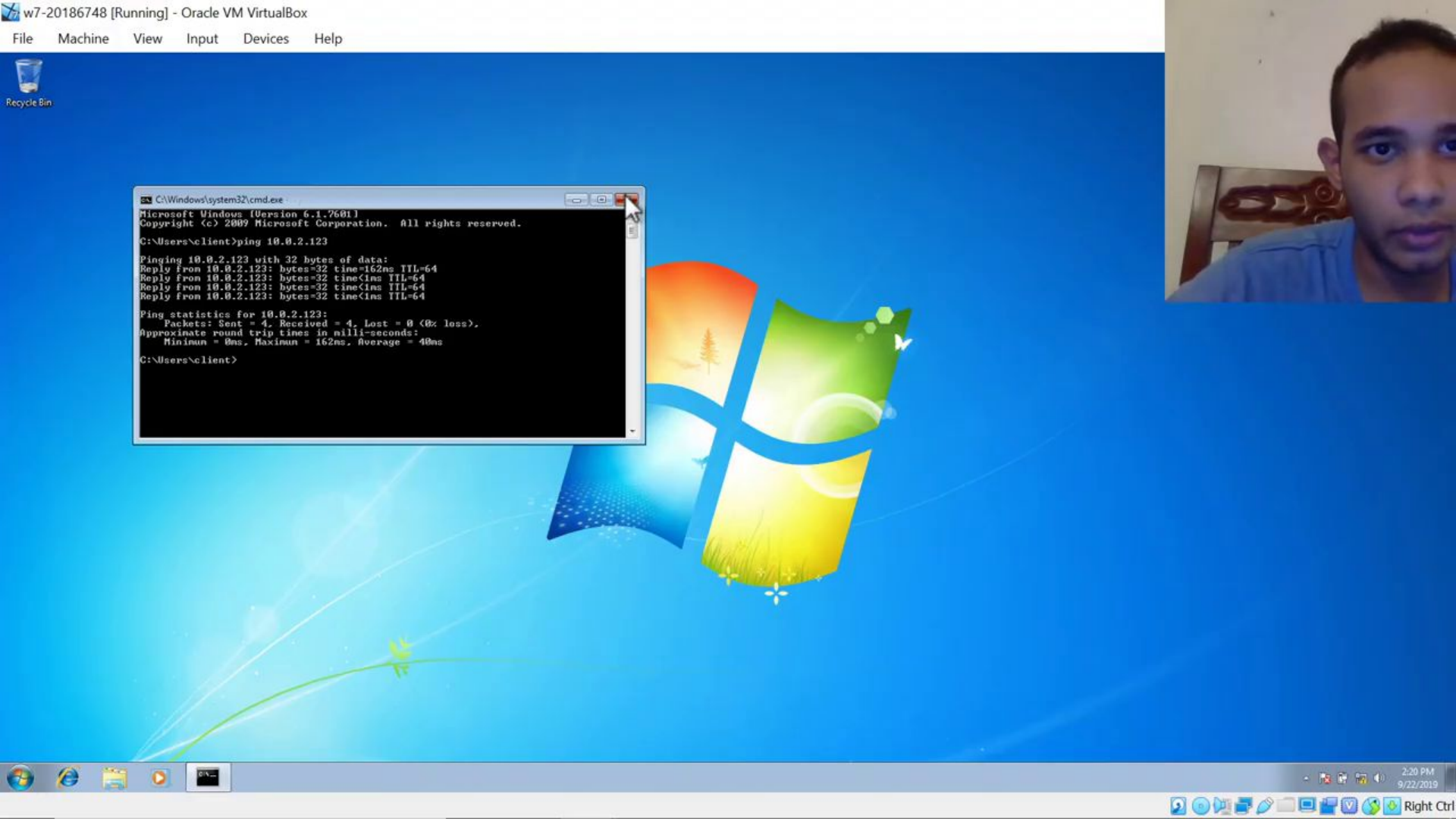
1 / 4

Right Ctrl


w7-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Control Panel ▸ Network and Internet ▸ Network and Sharing Center
Search Control Panel
Control Panel Home
Change adapter settings
Change advanced sharing settings
View your basic network information and set up connections
CLIENT-PC
(This computer)
Unidentified network
View your active networks
Unidentified network
Public network
Change your networking settings
Set up a new connection or network
Set up a wireless, broadband, dial-up, ad hoc, or VPN
Connect to a network
Connect or reconnect to a wireless, wired, dial-up, or
Choose homegroup and sharing options
Access files and printers located on other network co
Troubleshoot problems
Diagnose and repair network problems, or get trouble
See also
HomeGroup
Internet Options
Windows Firewall
2:19 PM
9/22/2019
Right Ctrl
centOs-cliente-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places
1 / 4
Right Ctrl
centOs-server-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
GNU nano 2.3.1 File: ifcfg-enp0s3 Modified
TYPE=Ethernet
PROXY_METHOD=none
BROWSER_ONLY=no
BOOTPROTO=none
DEFROUTE=yes
IPV4_FAILURE_FATAL=no
IPV6INIT=yes
IPV6_AUTOCONF=yes
IPV6_DEFROUTE=yes
IPV6_FAILURE_FATAL=no
IPV6_ADDR_GEN_MODE=stable-privacy
NAME=enp0s3
UUID=a1141d29-ffbb-4eac-9a22-b1c2ca9c19f5
DEVICE=enp0s3
ONBOOT=no
IPADDR=10.0.2.123
NETMASK=255.255.255.0
^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos
^X Exit ^J Justify ^W Where Is ^V Next Page ^U UnCut Text ^T To Spell
Right Ctrl

Paso 2

Probamos que ambos clientes puedan comunicarse con el servidor.
para esto utilizamos el comando **ping** y la dirección ip del servidor.


w7-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Recycle Bin
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\client>ping 10.0.2.123
Pinging 10.0.2.123 with 32 bytes of data:
Reply from 10.0.2.123: bytes=32 time=162ms TTL=64
Reply from 10.0.2.123: bytes=32 time<1ms TTL=64
Reply from 10.0.2.123: bytes=32 time<1ms TTL=64
Reply from 10.0.2.123: bytes=32 time<1ms TTL=64
Ping statistics for 10.0.2.123:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 162ms, Average = 40ms
C:\Users\client>
2:20 PM
9/22/2019
Right Ctrl

centOs-cliente-20186748 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Applications Places Terminal

Home

Trash

root@localhost:~

File Edit View Search Terminal Help

```
[root@localhost ~]# ping 10.0.2.123
PING 10.0.2.123 (10.0.2.123) 56(84) bytes of data.
64 bytes from 10.0.2.123: icmp_seq=1 ttl=64 time=0.569 ms
64 bytes from 10.0.2.123: icmp_seq=2 ttl=64 time=0.356 ms
64 bytes from 10.0.2.123: icmp_seq=3 ttl=64 time=1.30 ms
64 bytes from 10.0.2.123: icmp_seq=4 ttl=64 time=0.376 ms
^C
--- 10.0.2.123 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3002ms
rtt min/avg/max/mdev = 0.356/0.650/1.300/0.384 ms
[root@localhost ~]#
```

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root@localhost:~

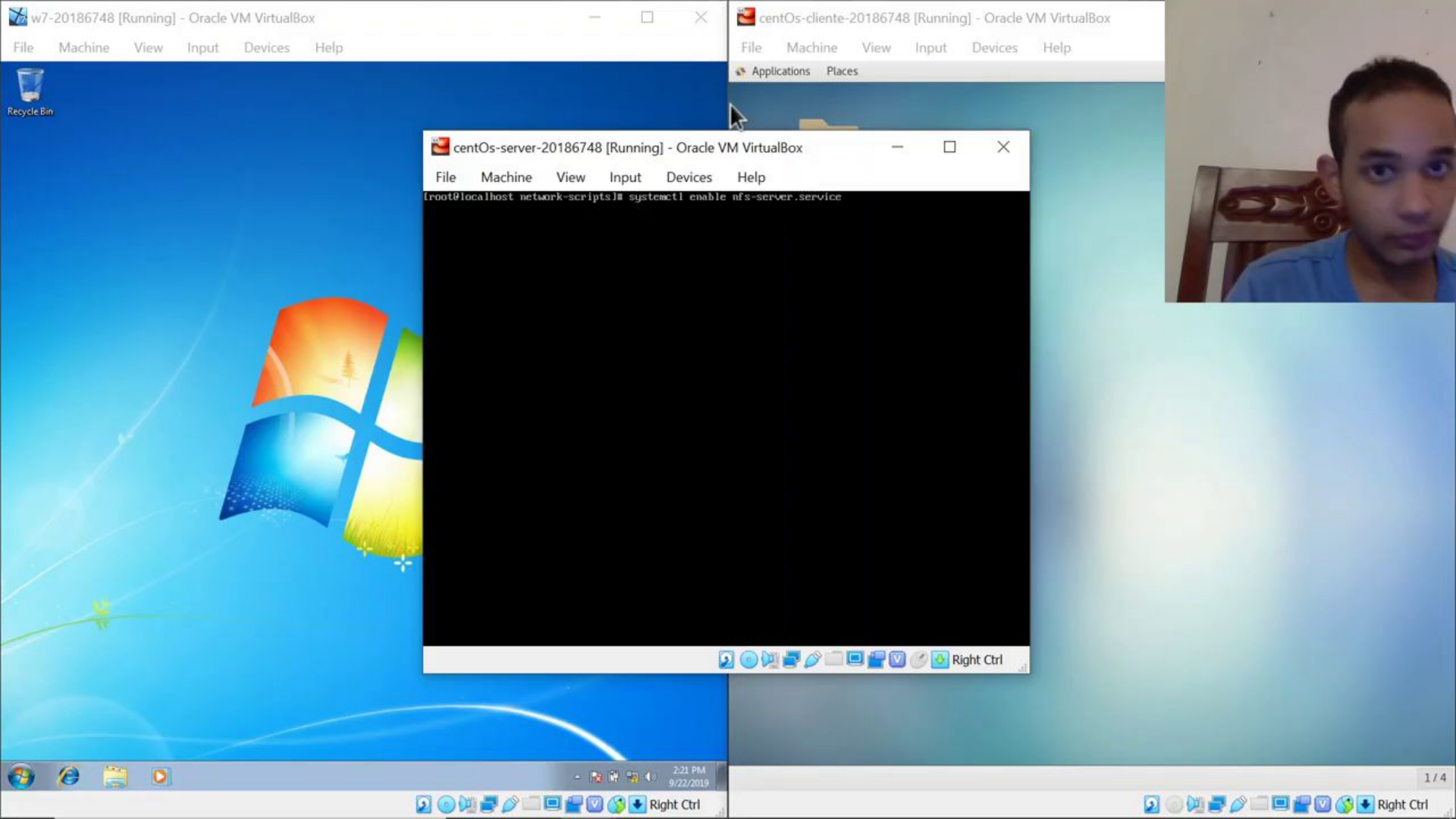
1 / 4

Right Ctrl

Fase 3: Configuración del servidor NFS

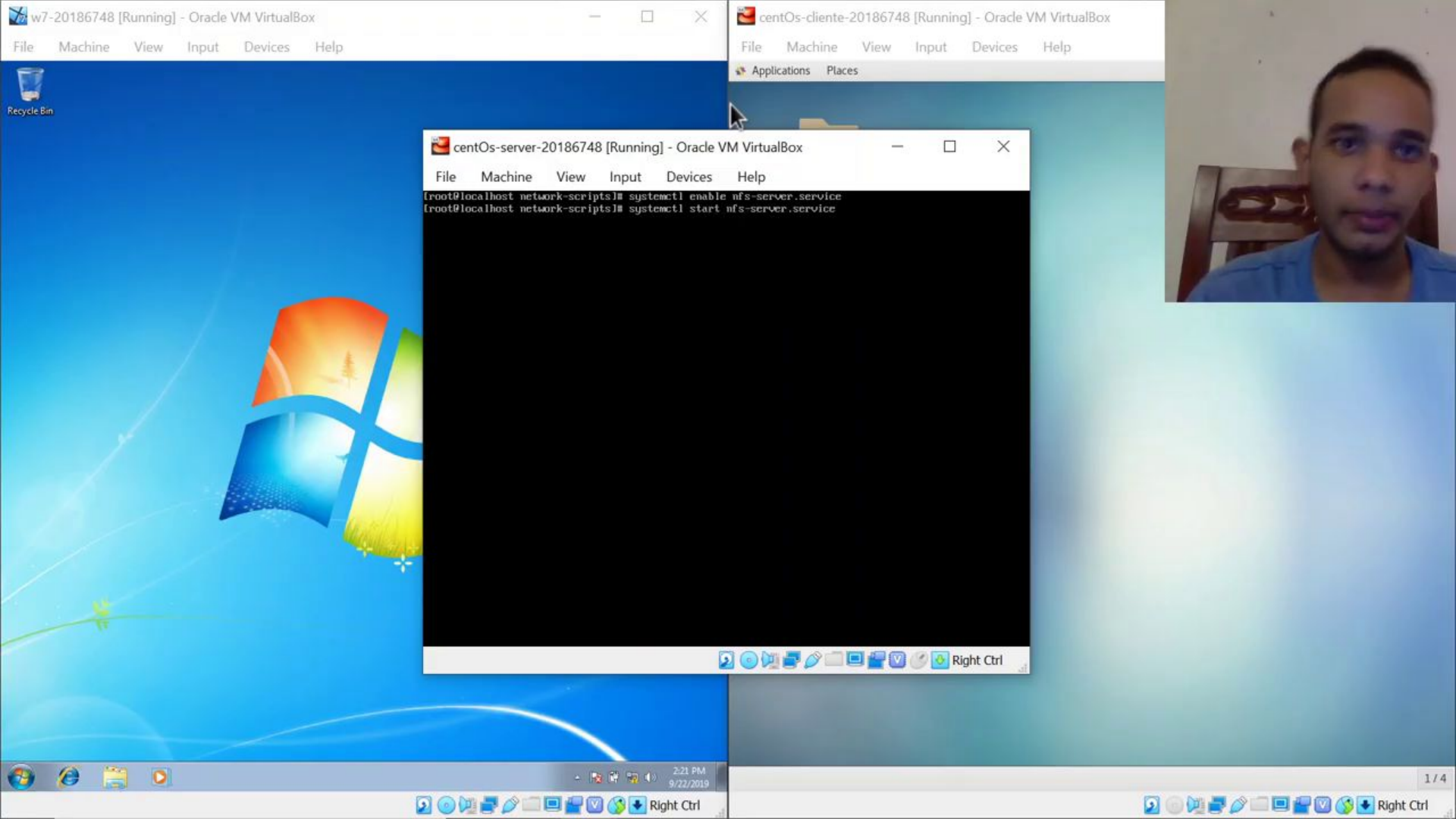
Paso 1

En el servidor habilitamos el servicio nfs. con el comando
#systemctl enable nfs-server.service


w7-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Recycle Bin
centOs-cliente-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places
centOs-server-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[root@localhost network-scripts]# systemctl enable nfs-server.service
Right Ctrl
2:21 PM
9/22/2019
Right Ctrl
1 / 4
Right Ctrl

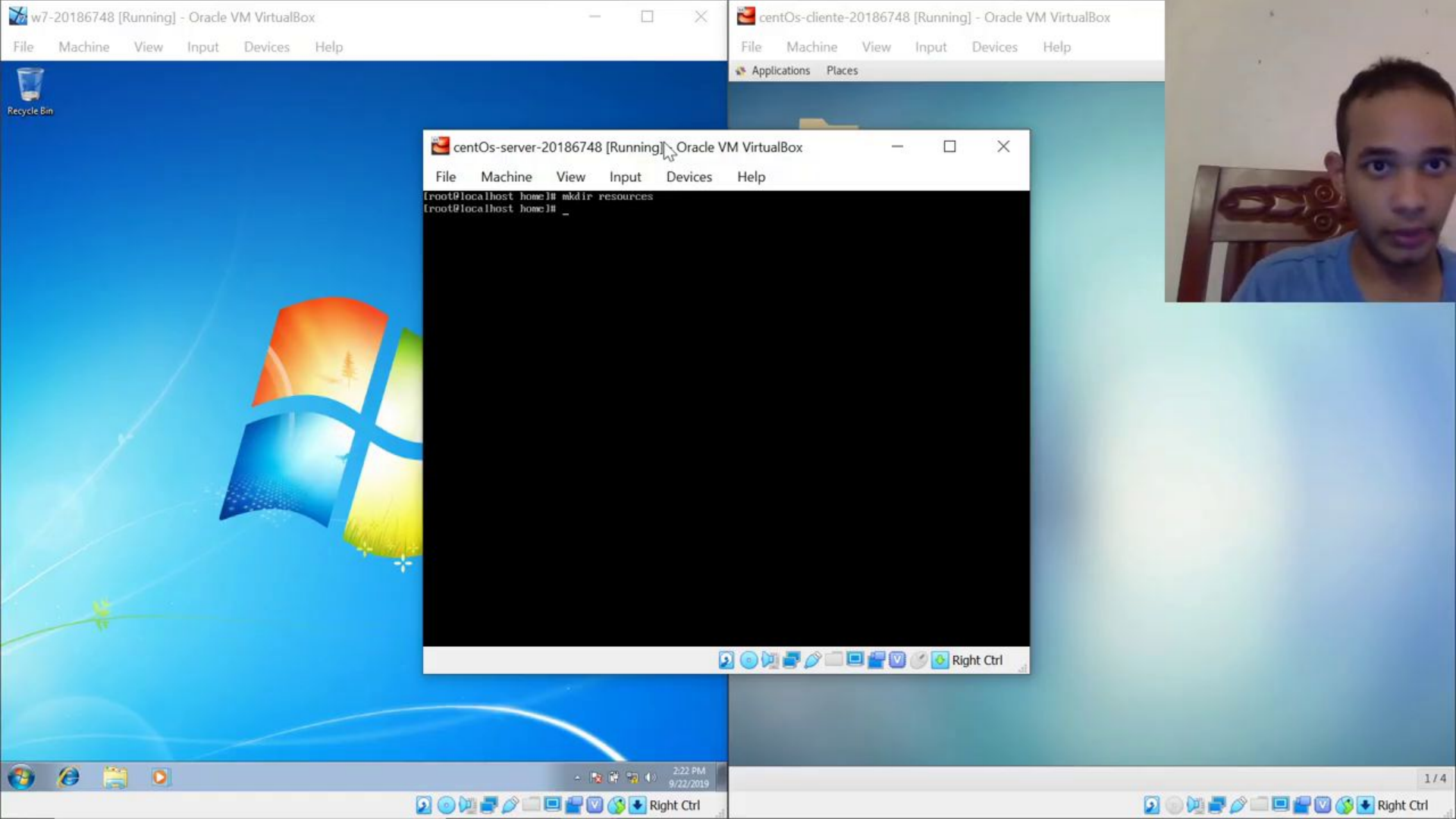
Paso 2

En el servidor iniciamos el servicio nfs. con el comando
#systemctl start nfs-server.service


w7-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Recycle Bin
centOs-cliente-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places
centOs-server-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[root@localhost network-scripts]# systemctl enable nfs-server.service
[root@localhost network-scripts]# systemctl start nfs-server.service
Right Ctrl
2:21 PM
9/22/2019
Right Ctrl
1 / 4
Right Ctrl

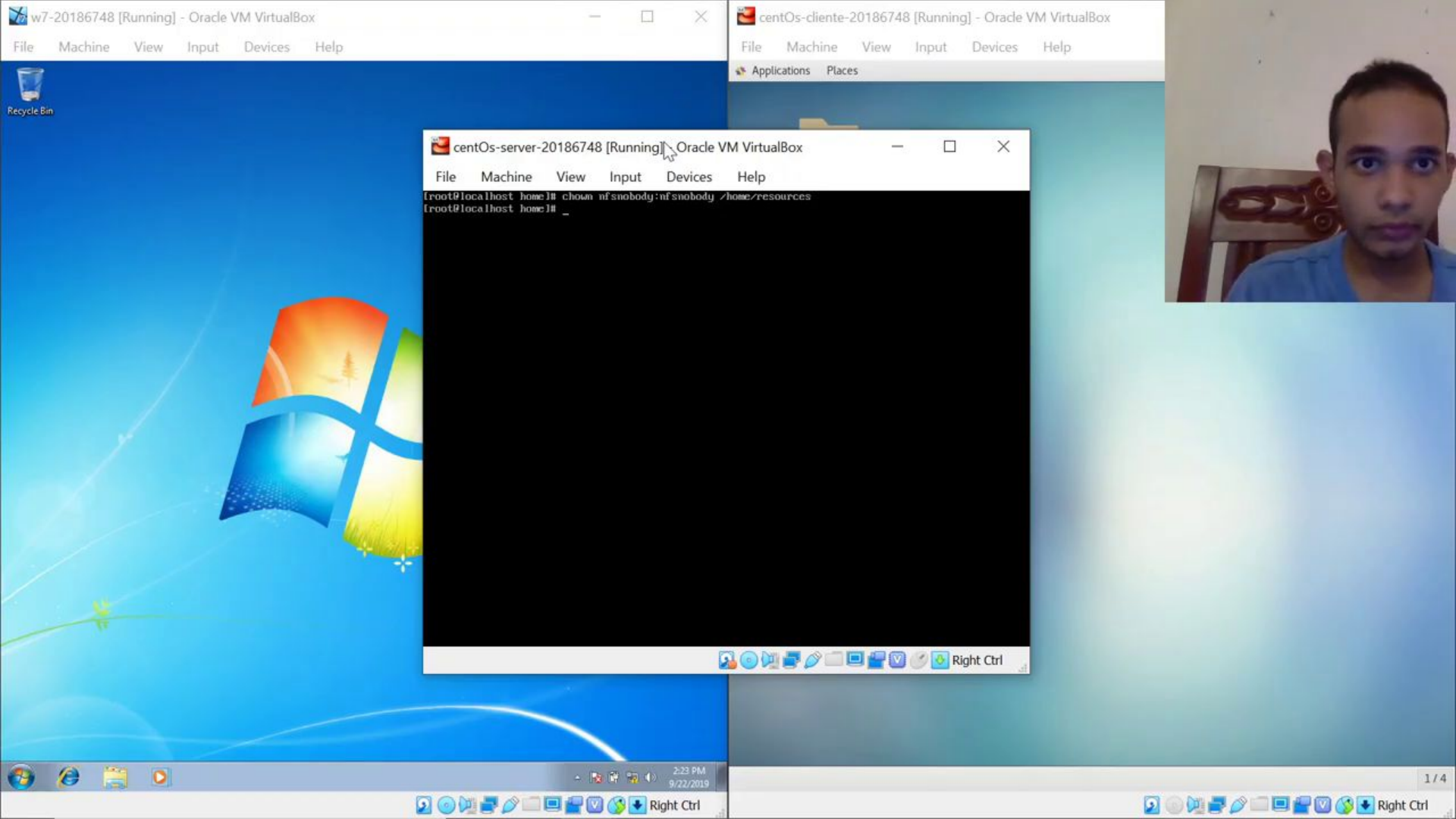
Paso 3

Creamos el directorio que queremos compartir. para esto utilizamos el comando **mkdir** y el nombre del directorio que vamos a crear.


w7-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Recycle Bin
centOs-cliente-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places
centOs-server-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[root@localhost home]# mkdir resources
[root@localhost home]#
Right Ctrl
2:22 PM
9/22/2019
Right Ctrl
1 / 4
Right Ctrl

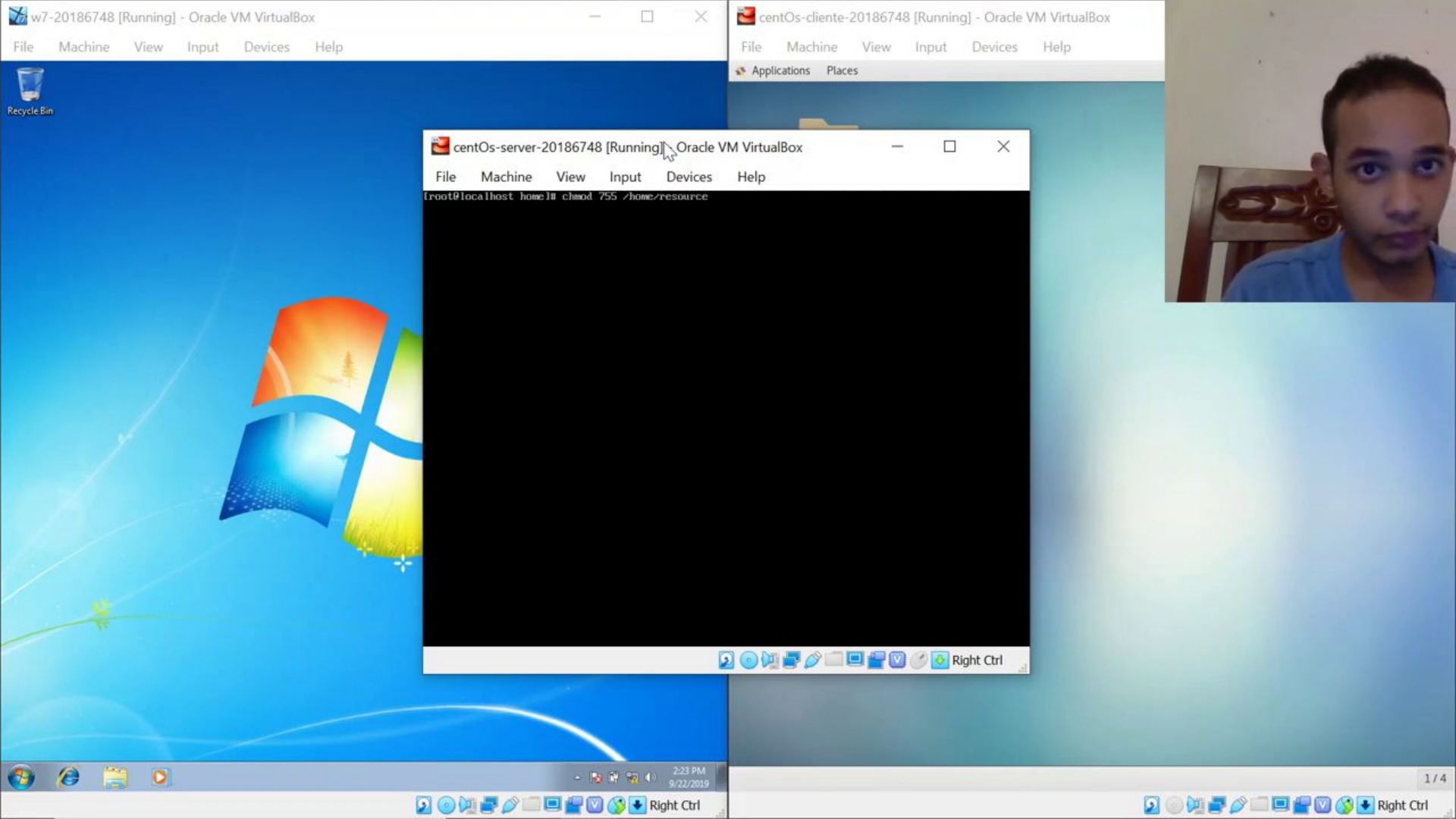
Paso 4

Asignamos el propietario de nuestro directorio a todos, con el comando **chown nfsnobody:nfsnobody** y el directorio.


w7-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Recycle Bin
centOs-cliente-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places
centOs-server-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[root@localhost home]# chown nfsnobody:nfsnobody /home/resources
[root@localhost home]#
Right Ctrl
2:23 PM
9/22/2019
Right Ctrl
1 / 4
Right Ctrl

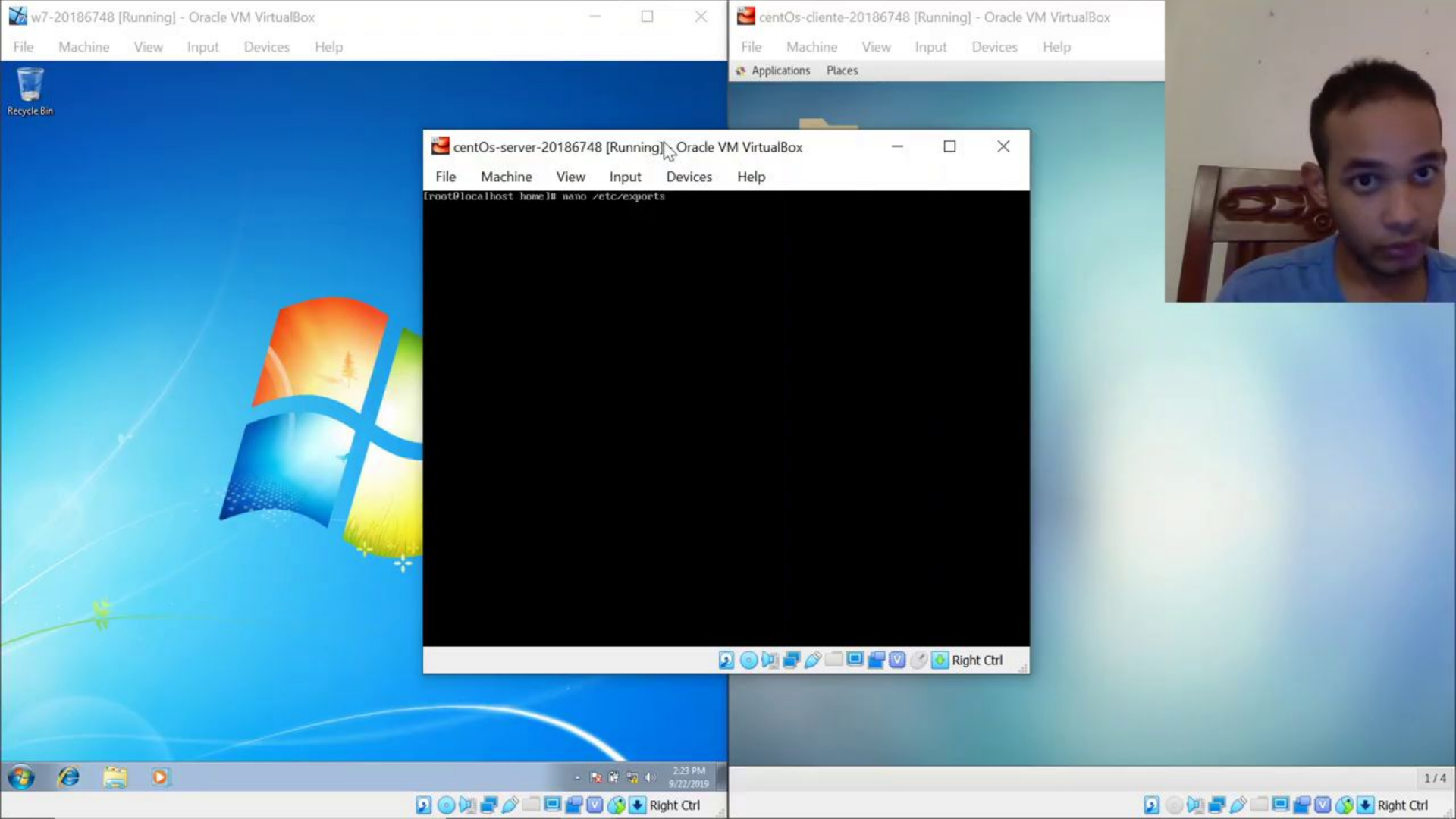
Paso 5

Cambiamos los permisos de nuestro directorio, con el comando **chmod** los permisos y el nombre de directorio. en este caso los permisos serán 755, todos para el dueño, y lectura y ejecución para grupos y otros. como se muestra en la siguiente images


w7-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Recycle Bin
centOs-cliente-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places
centOs-server-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[root@localhost home]# chmod 755 /home/resource
Right Ctrl
2:23 PM
9/22/2019
Right Ctrl
1 / 4
Right Ctrl

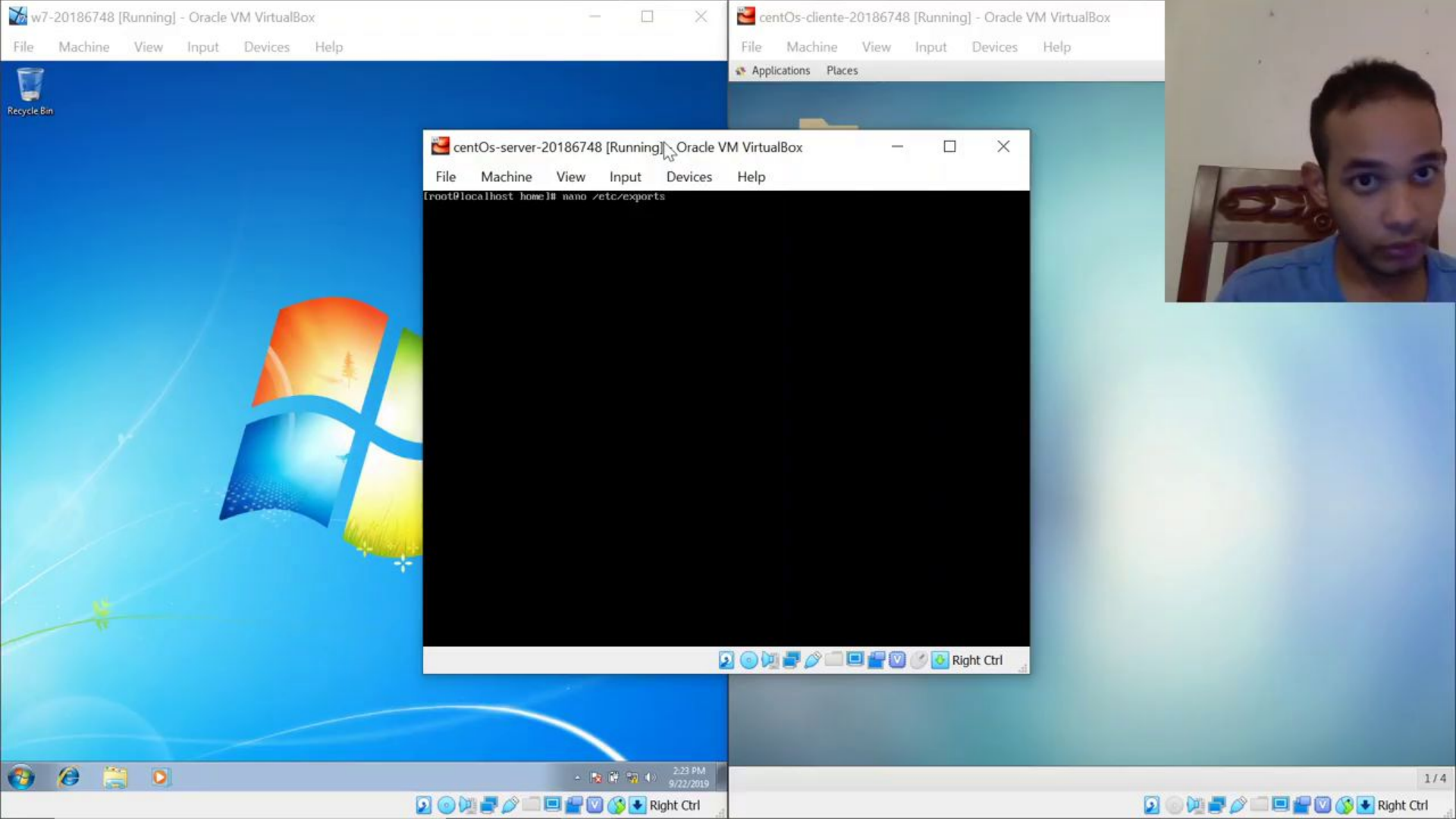
Paso 6

Vamos al archivo **exports**, en el directorio /etc, para editar las configuraciones de los archivos compartidos.


w7-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Recycle Bin
centOs-cliente-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places
centOs-server-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[root@localhost home]# nano /etc/exports
Right Ctrl
2:23 PM
9/22/2019
Right Ctrl
1 / 4
Right Ctrl

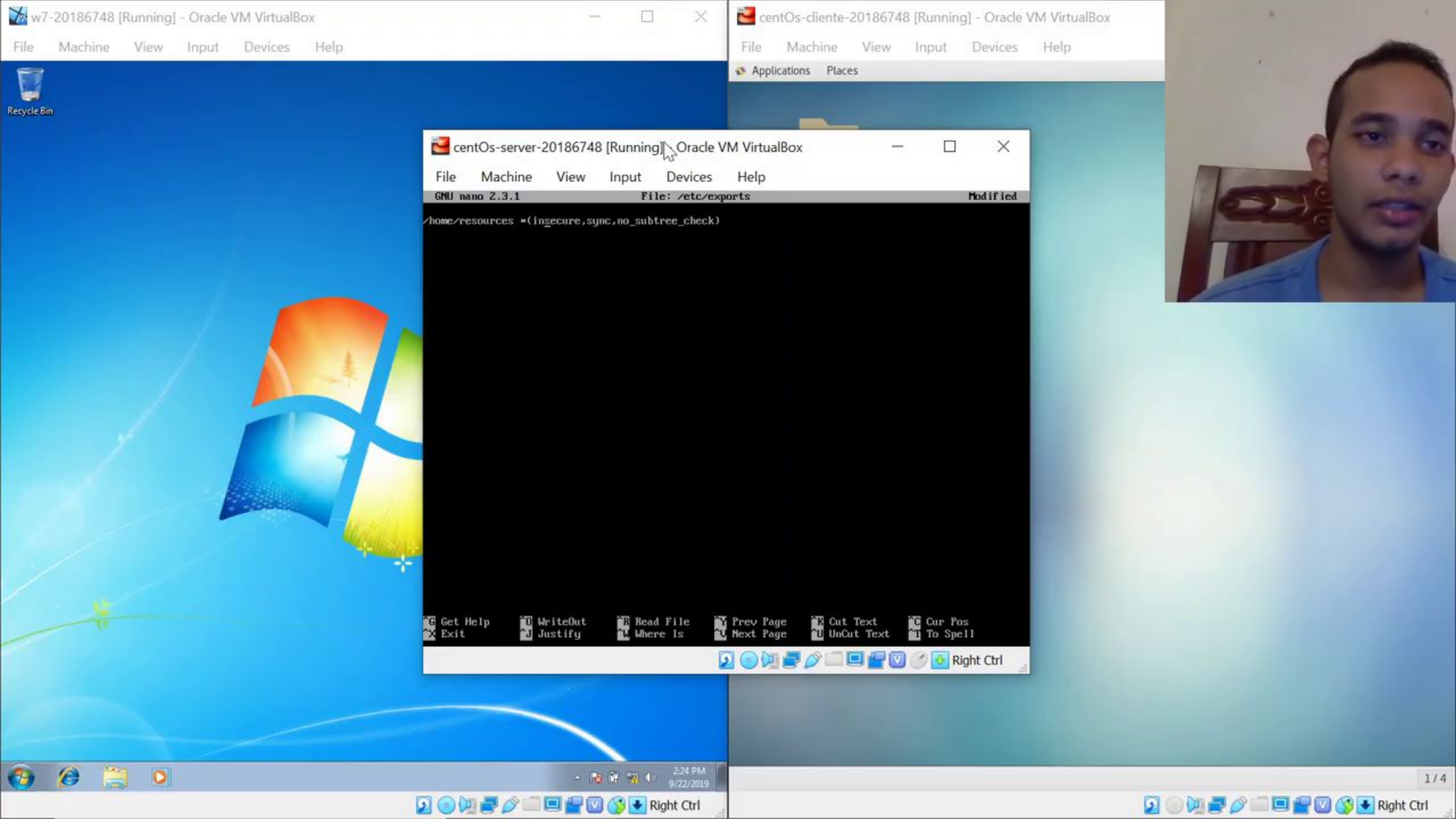
Paso 7

Vamos al archivo **exports**, en el directorio /etc, para editar las configuraciones de los archivos compartidos.


w7-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Recycle Bin
centOs-cliente-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places
centOs-server-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[root@localhost home]# nano /etc/exports
Right Ctrl
2:23 PM
9/22/2019
Right Ctrl
1 / 4
Right Ctrl

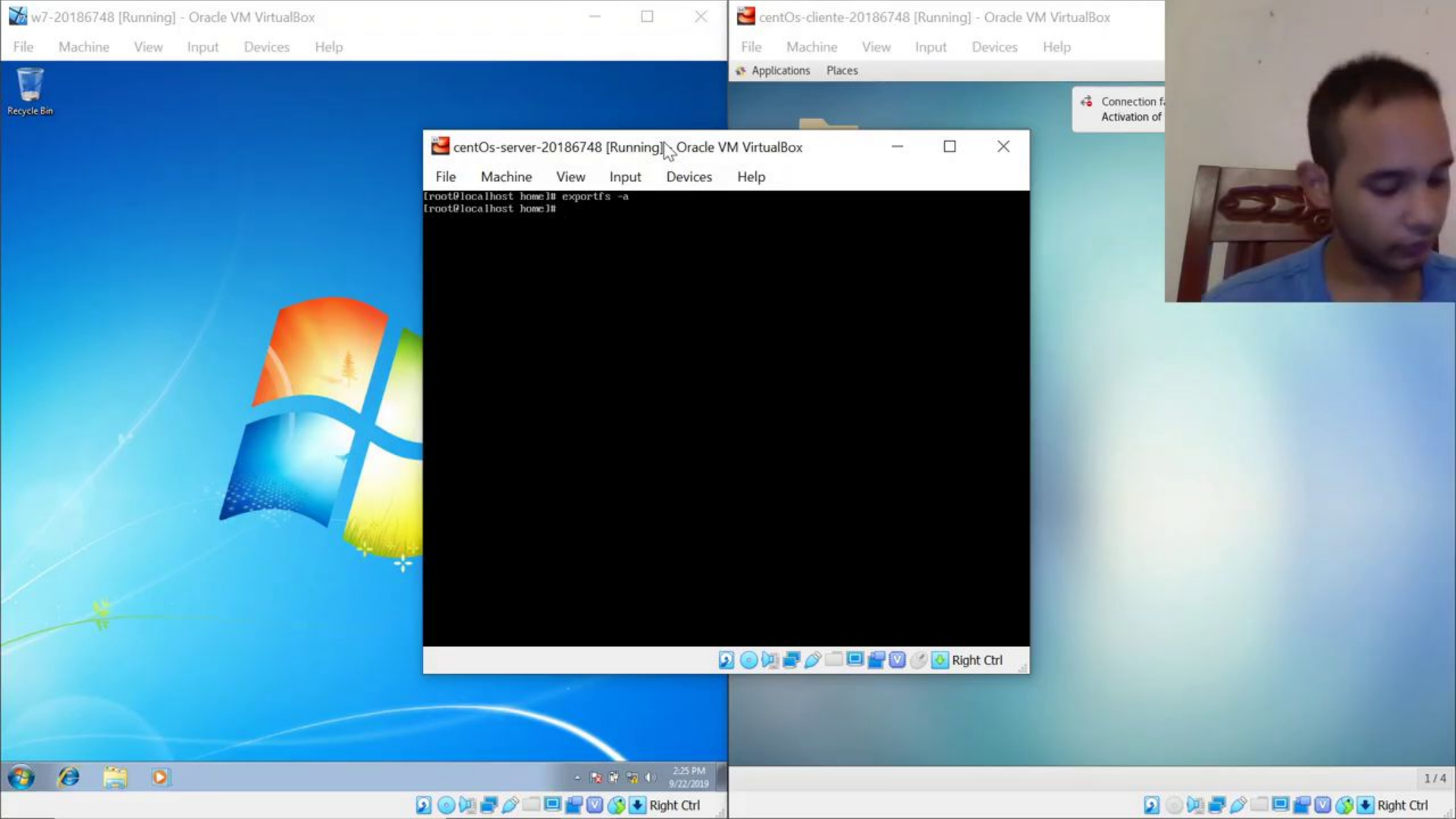
Paso 8

En el archivo **exports**, configuramos los parámetros del directorio que estamos compartiendo. donde la sintaxis que usaremos es la siguiente **/home/resources *(insecure,sync,no_subtree_check).** Primero colocamos el directorio, luego el * que indica que el directorio se compartirá para todas las direcciones IP, y dentro del paréntesis las opciones.


w7-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Recycle Bin
centOs-cliente-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places
centOs-server-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
GNU nano 2.3.1 File: /etc/exports Modified
/home/resources *(insecure,sync,no_subtree_check)
^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos
^X Exit ^J Justify ^W Where Is ^V Next Page ^U UnCut Text ^T To Spell
Right Ctrl
2:24 PM
9/22/2019
Right Ctrl
1 / 4
Right Ctrl

Paso 9

Luego de guardar las configuraciones, insertamos el comando **exportfs -a**, para exportarlas.


w7-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Recycle Bin
centOs-cliente-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places
Connection f
Activation of
centOs-server-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[root@localhost home]# exportfs -a
[root@localhost home]#
Right Ctrl
2:25 PM
9/22/2019
Right Ctrl
1 / 4
Right Ctrl

Fase 4: Configuración del cliente Linux

Paso 1

Creamos el directorio donde montaremos el directorio compartido

centOs-cliente-20186748 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Applications Places Terminal

Home

Trash

root@localhost:~/Desktop

File Edit View Search Terminal Help

```
[root@localhost Desktop]# mkdir shar
```

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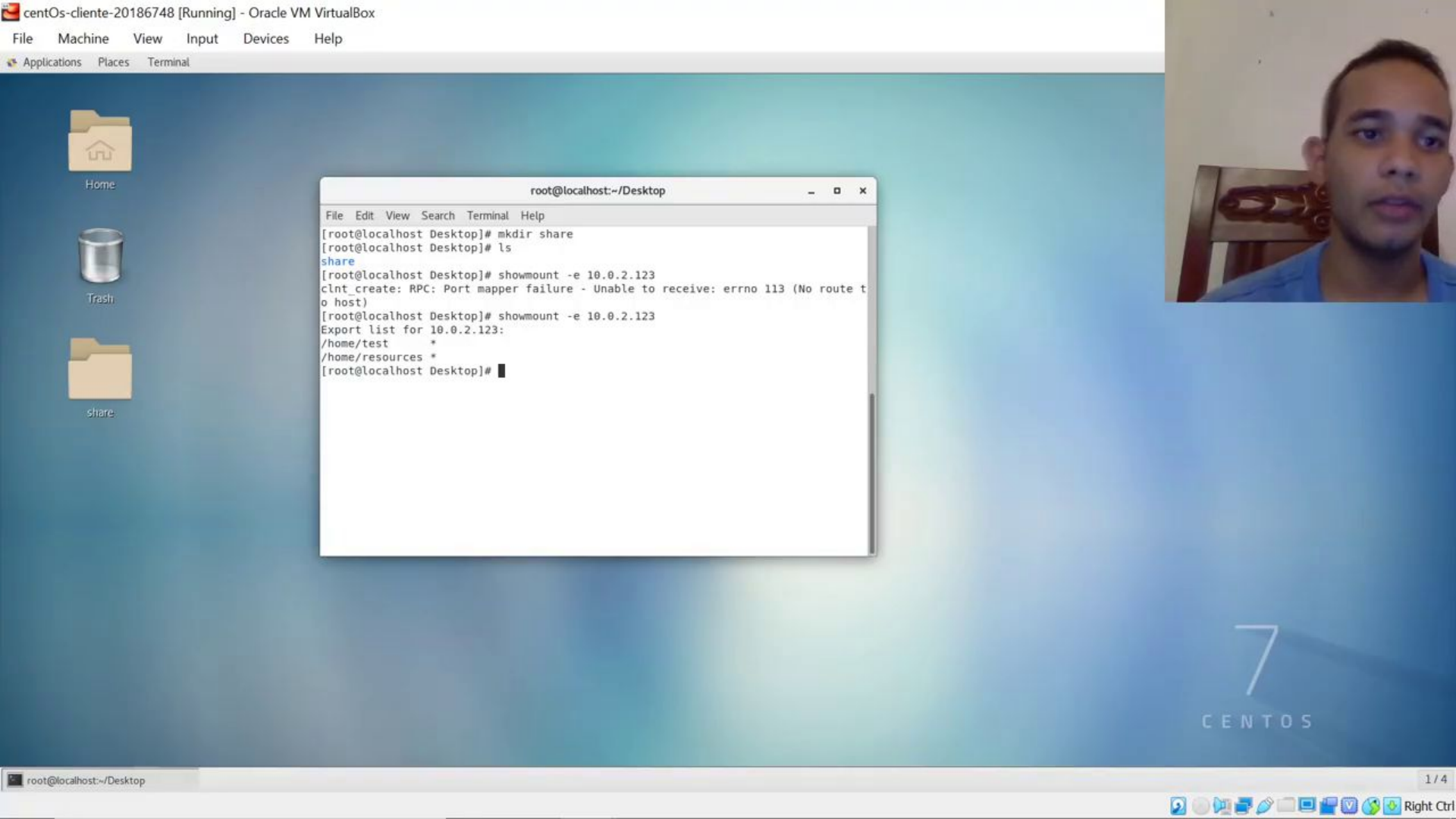
root@localhost:~/Desktop

1 / 4

Right Ctrl

Paso 2

Verificamos los recursos compartido.


centOs-cliente-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places Terminal
Home
Trash
share
root@localhost:~/Desktop
File Edit View Search Terminal Help
[root@localhost Desktop]# mkdir share
[root@localhost Desktop]# ls
share
[root@localhost Desktop]# showmount -e 10.0.2.123
clnt_create: RPC: Port mapper failure - Unable to receive: errno 113 (No route t
o host)
[root@localhost Desktop]# showmount -e 10.0.2.123
Export list for 10.0.2.123:
/home/test *
/home/resources *
[root@localhost Desktop]#
CENTOS
root@localhost:~/Desktop
1 / 4
Right Ctrl

Paso 3

montamos el directorio compartido con el comando.
mount [la direccion del servido]:[Directorio compartido] [Destino]

centOs-cliente-20186748 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Applications Places Terminal

Home

Trash

share

root@localhost:~/Desktop

File Edit View Search Terminal Help

```
[root@localhost Desktop]# mkdir share
[root@localhost Desktop]# ls
share
[root@localhost Desktop]# showmount -e 10.0.2.123
clnt_create: RPC: Port mapper failure - Unable to receive: errno 113 (No route t
o host)
[root@localhost Desktop]# showmount -e 10.0.2.123
Export list for 10.0.2.123:
/home/test      *
/home/resources *
[root@localhost Desktop]# mount 10.0.2.123:/home/resources ./share
[root@localhost Desktop]#
```

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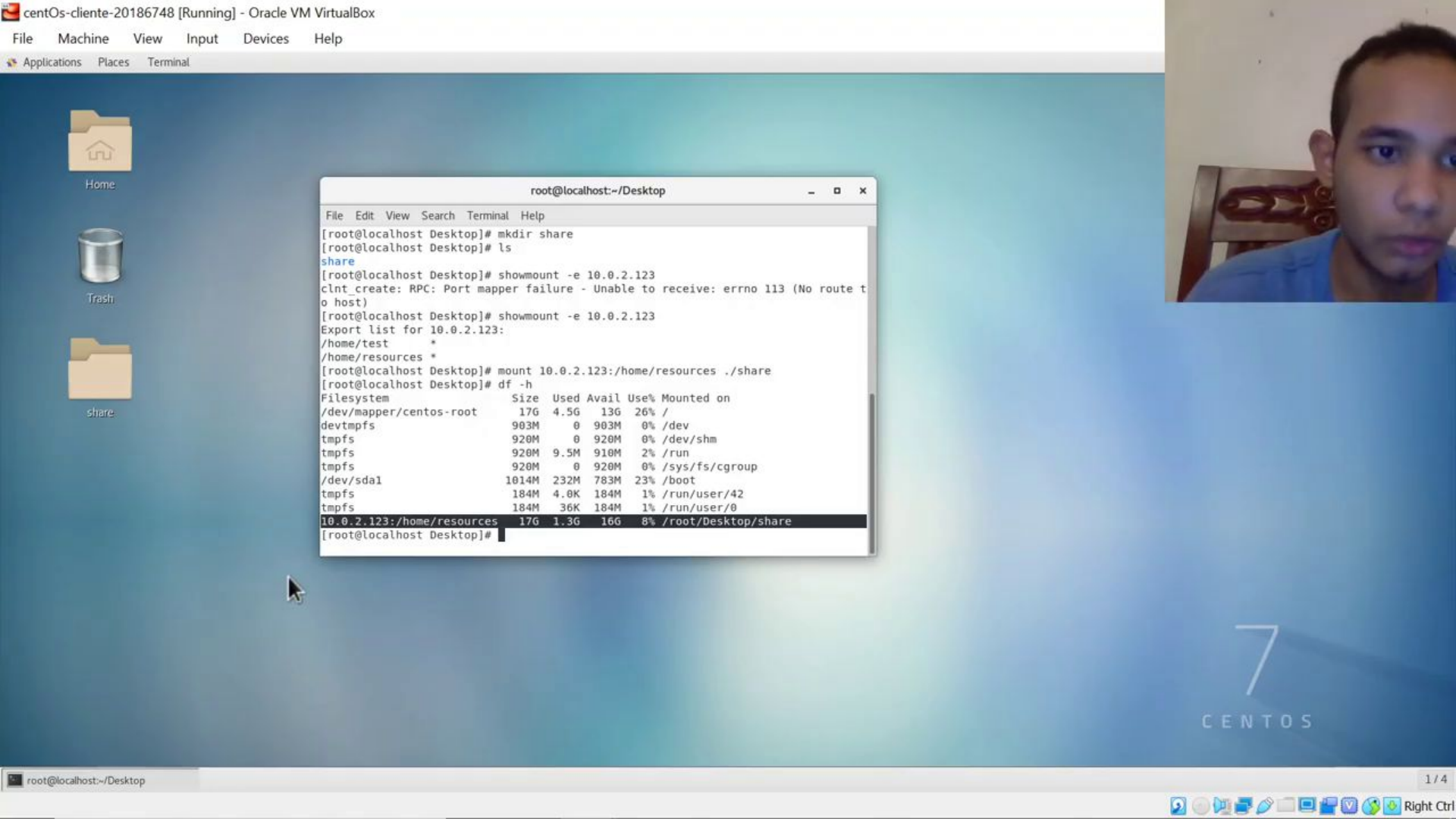
root@localhost:~/Desktop

1 / 4

Right Ctrl

Paso 4

Utilizamos el comando **df -h.** Para mostrar si el directorio esta conectado con el servidor


centOs-cliente-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places Terminal
Home
Trash
share
root@localhost:~/Desktop
File Edit View Search Terminal Help
[root@localhost Desktop]# mkdir share
[root@localhost Desktop]# ls
share
[root@localhost Desktop]# showmount -e 10.0.2.123
clnt_create: RPC: Port mapper failure - Unable to receive: errno 113 (No route t
o host)
[root@localhost Desktop]# showmount -e 10.0.2.123
Export list for 10.0.2.123:
/home/test *
/home/resources *
[root@localhost Desktop]# mount 10.0.2.123:/home/resources ./share
[root@localhost Desktop]# df -h
Filesystem Size Used Avail Use% Mounted on
/dev/mapper/centos-root 17G 4.5G 13G 26% /
devtmpfs 903M 0 903M 0% /dev
tmpfs 920M 0 920M 0% /dev/shm
tmpfs 920M 9.5M 910M 2% /run
tmpfs 920M 0 920M 0% /sys/fs/cgroup
/dev/sda1 1014M 232M 783M 23% /boot
tmpfs 184M 4.0K 184M 1% /run/user/42
tmpfs 184M 36K 184M 1% /run/user/0
10.0.2.123:/home/resources 17G 1.3G 16G 8% /root/Desktop/share
[root@localhost Desktop]#
CENTOS
root@localhost:~/Desktop
1 / 4
Right Ctrl

Paso 5

Finalmente colocamos el comando **mount**, para finalizar el proceso.

centOs-cliente-20186748 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Applications Places Terminal

Home

Trash

share

root@localhost:~/Desktop

File Edit View Search Terminal Help

```
cgroup on /sys/fs/cgroup/memory type cgroup (rw,nosuid,nodev,noexec,relatime,sec
label,memory)
configfs on /sys/kernel/config type configfs (rw,relatime)
/dev/mapper/centos-root on / type xfs (rw,relatime,seclabel,attr2,inode64,noquot
a)
selinuxfs on /sys/fs/selinux type selinuxfs (rw,relatime)
systemd-1 on /proc/sys/fs/binfmt_misc type autofs (rw,relatime,fd=32,pgrp=1,time
out=0,minproto=5,maxproto=5,direct,pipe_ino=15461)
debugfs on /sys/kernel/debug type debugfs (rw,relatime)
mqueue on /dev/mqueue type mqueue (rw,relatime,seclabel)
hugetlbfs on /dev/hugepages type hugetlbfs (rw,relatime,seclabel)
/dev/sda1 on /boot type xfs (rw,relatime,seclabel,attr2,inode64,noquota)
sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw,relatime)
tmpfs on /run/user/42 type tmpfs (rw,nosuid,nodev,relatime,seclabel,size=188232k
,mode=700,uid=42,gid=42)
tmpfs on /run/user/0 type tmpfs (rw,nosuid,nodev,relatime,seclabel,size=188232k,
mode=700)
gvfsd-fuse on /run/user/0/gvfs type fuse.gvfsd-fuse (rw,nosuid,nodev,relatime,us
er_id=0,group_id=0)
fusectl on /sys/fs/fuse/connections type fusectl (rw,relatime)
10.0.2.123:/home/resources on /root/Desktop/share type nfs4 (rw,relatime,vers=4.
1,rsize=262144,wsize=262144,namlen=255,hard,proto=tcp,timeo=600,retrans=2,sec=sy
s,clientaddr=10.0.2.16,local_lock=none,addr=10.0.2.123)
[root@localhost Desktop]#
```

7 CENTOS

root@localhost:~/Desktop

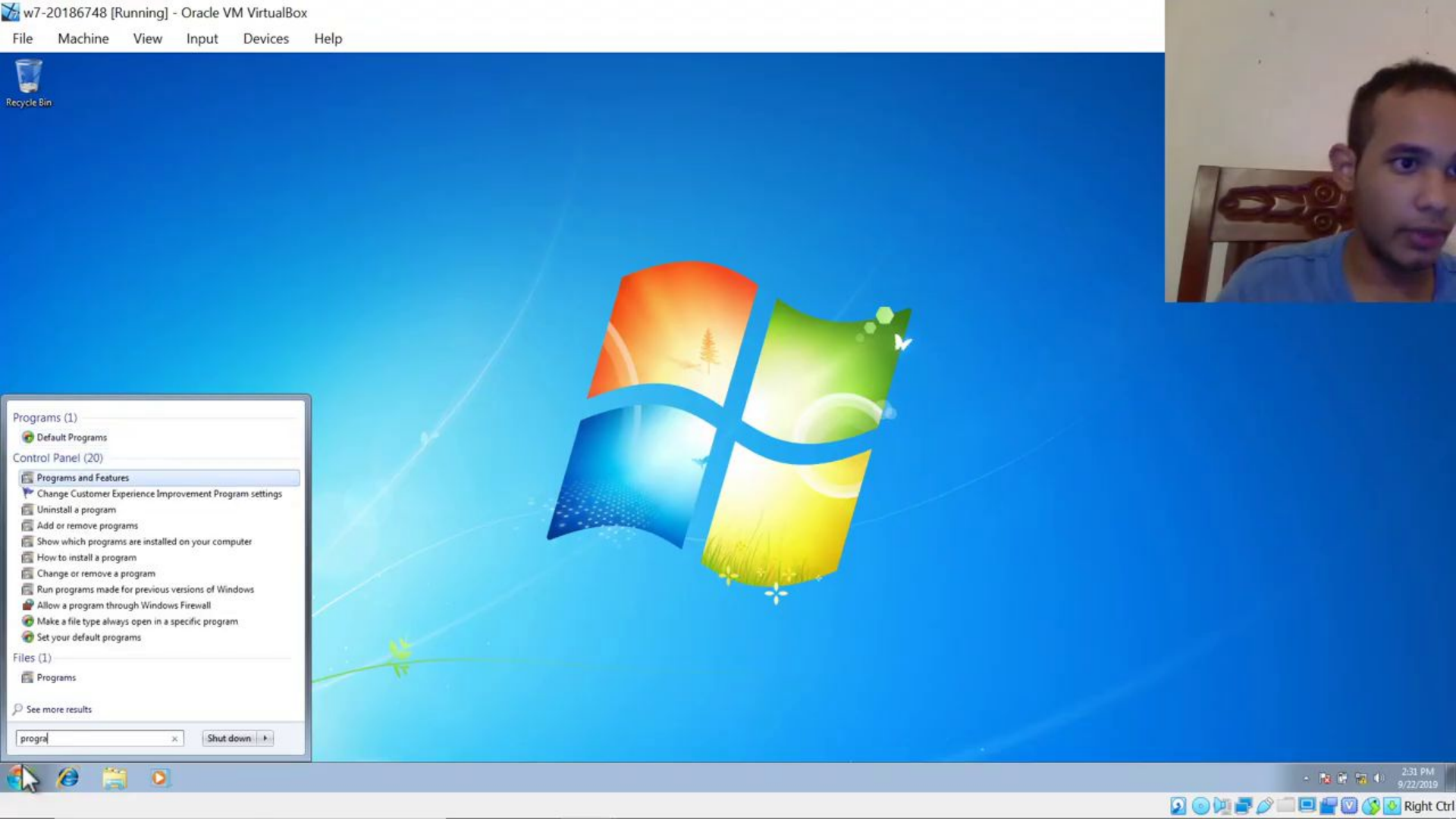
1 / 4

Right Ctrl

Fase 5: Configuración del cliente Windows

Paso 1

Nos vamos a programas y caracteristicas


w7-20186748 [Running] - Oracle VM VirtualBox
File
Machine
View
Input
Devices
Help
Recycle Bin
Programs (1)
Default Programs
Control Panel (20)
Programs and Features
Change Customer Experience Improvement Program settings
Uninstall a program
Add or remove programs
Show which programs are installed on your computer
How to install a program
Change or remove a program
Run programs made for previous versions of Windows
Allow a program through Windows Firewall
Make a file type always open in a specific program
Set your default programs
Files (1)
Programs
See more results
progra
Shut down
2:31 PM
9/22/2019
Right Ctrl

Paso 2

Damos clic en activar o desactivar caracteristicas de Windows, y activamos el cliente NFS.

w7-20186748 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Control Panel ▸ Programs ▸ Programs and Features

Control Panel Home

View installed updates

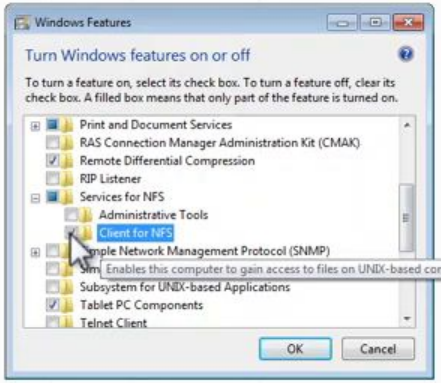
Turn Windows features on or off

Uninstall or change a program

To uninstall a program, select it from the list and then click Uninstall, Change, or Repair.

Organize

Name	Publisher	Installed On	Size	Version
Oracle VM VirtualBox Guest Additions 6.0.8	Oracle Corporation	9/21/2019		6.0.8.0



Currently installed programs Total size: 0 bytes

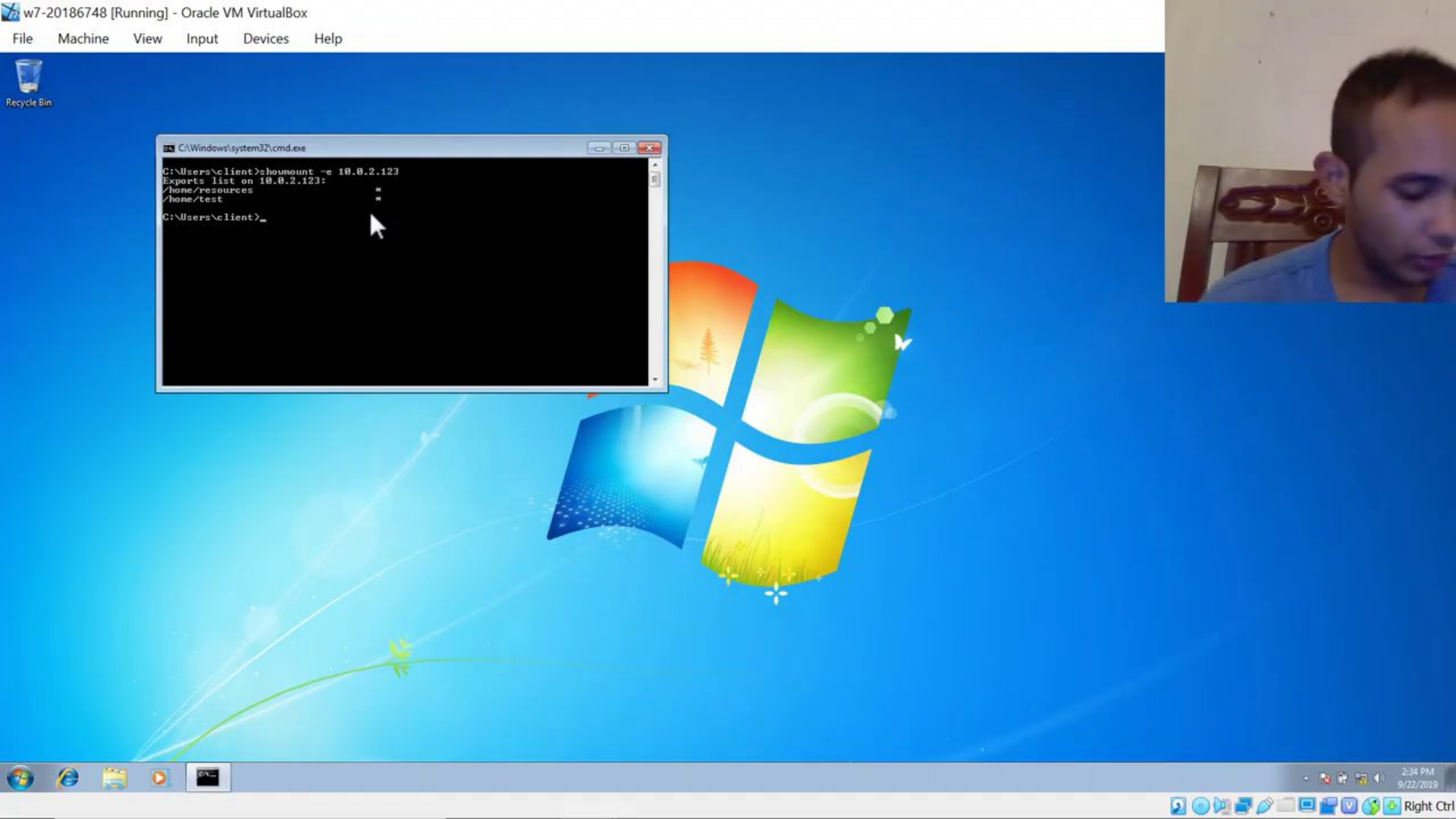
1 programs installed

2:31 PM 9/22/2019

Right Ctrl

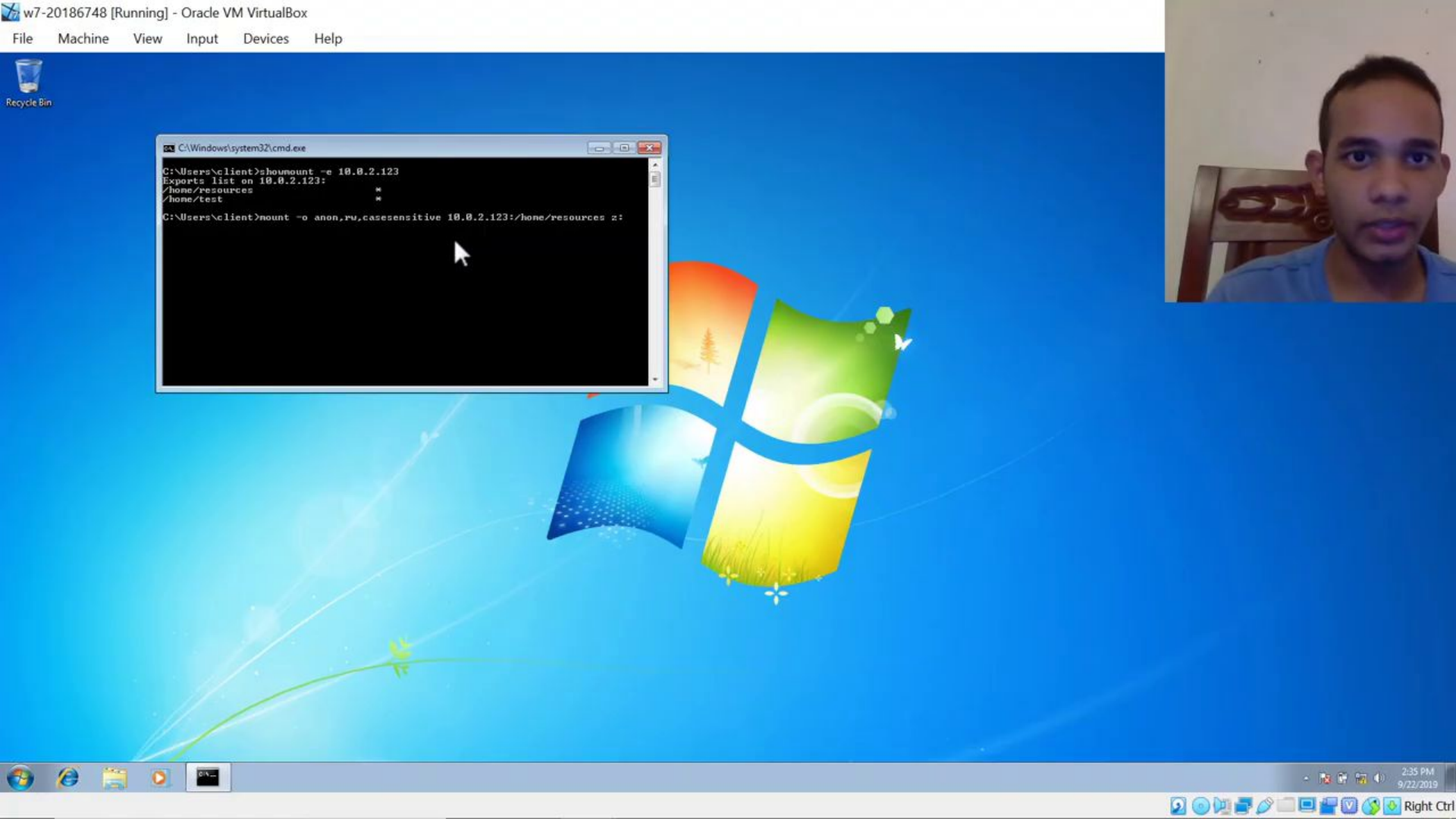
Paso 3

En la cmd utilizamos el comando **showmount** y la direccion del servidor para ver los directorios compartidos


w7-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Recycle Bin
C:\Windows\system32\cmd.exe
C:\Users\client>showmount -e 10.0.2.123
Exports list on 10.0.2.123:
/home/resources *
/home/test *
C:\Users\client>_
2:34 PM
9/22/2019
Right Ctrl

Paso 4

Utilizamos el comando **mount -o anon,rw,casesensitive [server ip]:[directorio] [disco para montar].** Donde “anon” indica de que la conexion sera anomima, “rw” son los permisos de lectura y escritura, y “casesensitive” toma en cuenta las mayusculas al buscar el directorio. al final elegimos el disco en que queremos montar el directorio si colocamos * Windows lo elije automaticamente


w7-20186748 [Running] - Oracle VM VirtualBox
File
Machine
View
Input
Devices
Help
Recycle Bin
C:\Windows\system32\cmd.exe
C:\Users\client>showmount -e 10.0.2.123
Exports list on 10.0.2.123:
/home/resources *
/home/test *
C:\Users\client>mount -o anon,rw,casesensitive 10.0.2.123:/home/resources z:
2:35 PM
9/22/2019
Right Ctrl

Paso 5

Si queremos ver el disco compartido vamos a mi pc

w7-20186748 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Computer

Organize Properties System properties Uninstall or change a program Map network drive Open Control Panel

Favorites
Desktop
Downloads
Recent Places

Libraries
Documents
Music
Pictures
Videos

Homegroup

Computer

Network

Hard Disk Drives (1)

Local Disk (C:)
13.2 GB free of 19.8 GB

Devices with Removable Storage (2)

CD Drive (D:)

CD Drive (E:) VirtualBox Guest Additions
0 bytes free of 82.5 MB

Network Location (1)

resources (\\[redacted].123\home) (Z:)
15.7 GB free of [redacted] GB

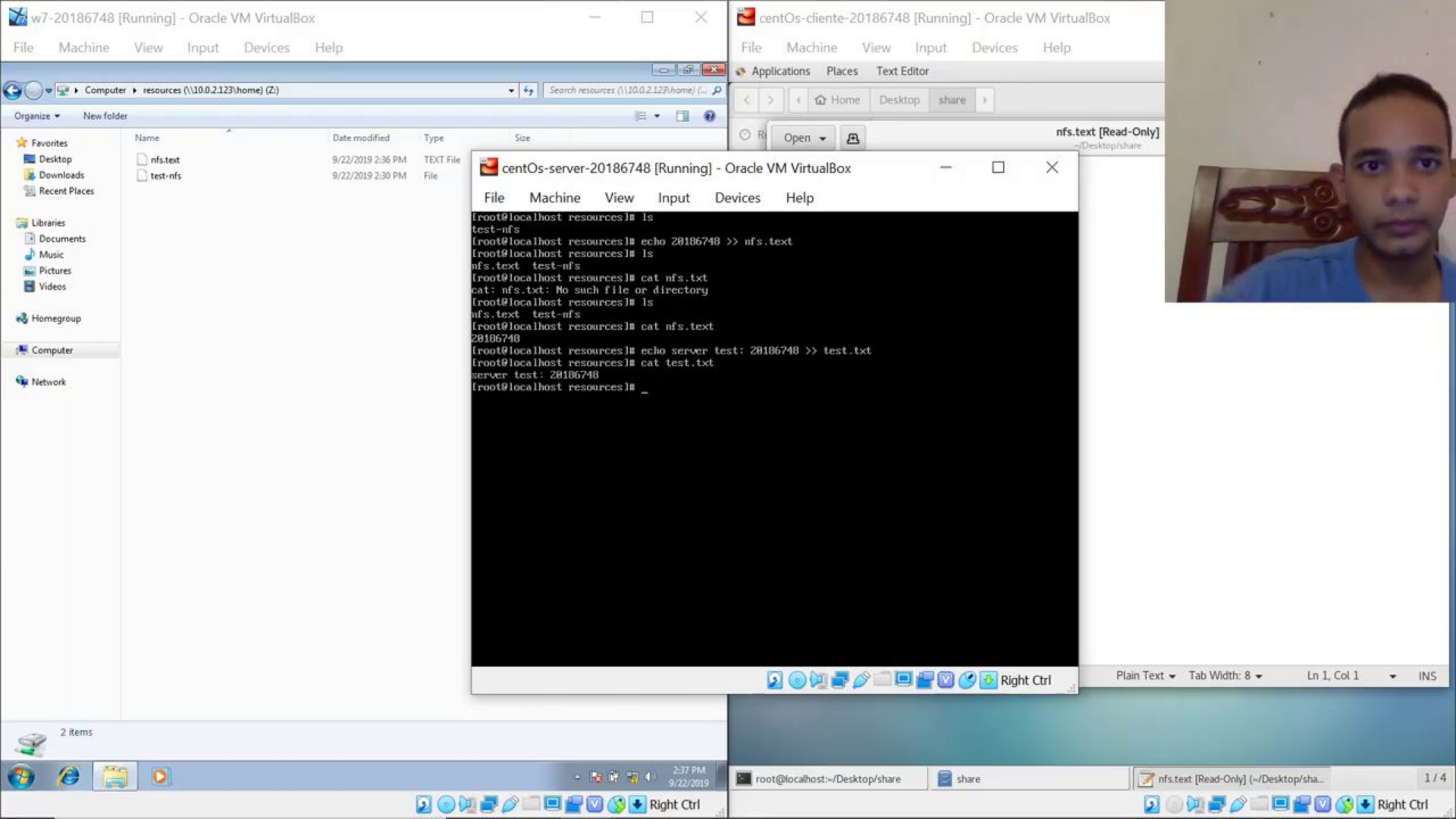
1 item selected

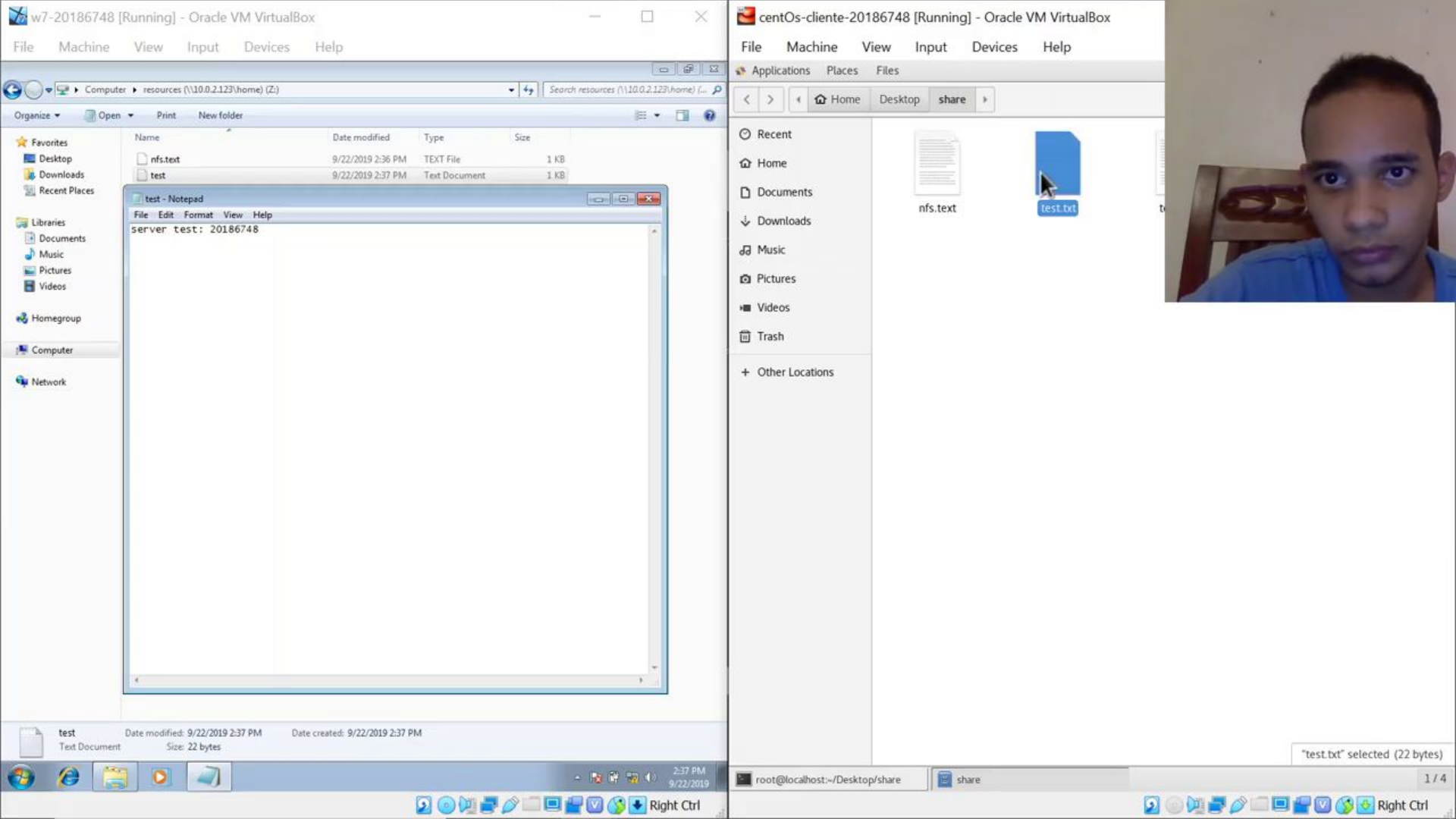
2:35 PM
9/22/2019

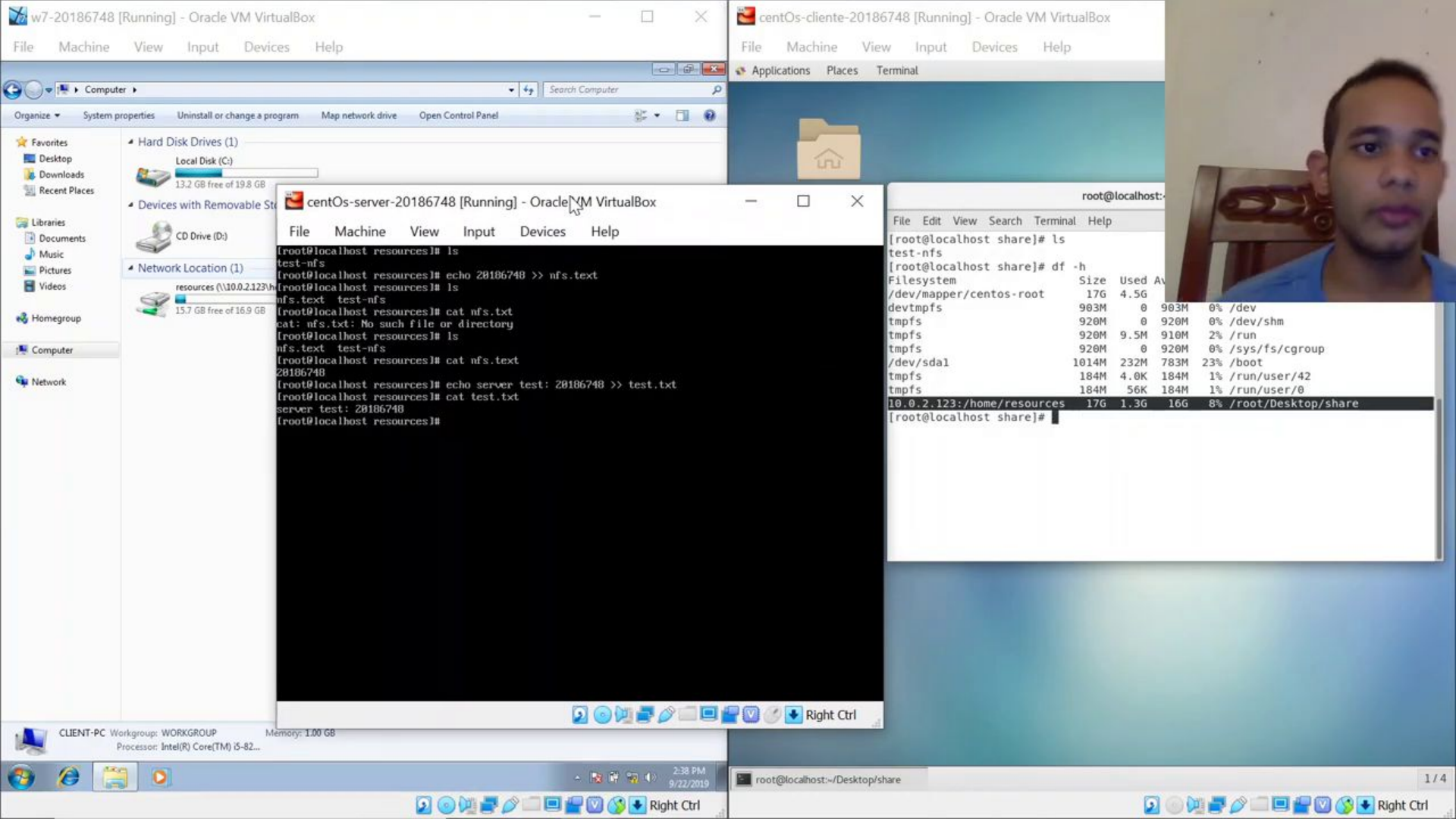
Right Ctrl

Probando

Para probar vamos a generar un archivo desde el servidor e interactuar con este a través de los clientes


w7-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Computer ▸ resources (\\10.0.2.123\home) (Z:)
Organize New folder
Favorites
Desktop
Downloads
Recent Places
Libraries
Documents
Music
Pictures
Videos
Homegroup
Computer
Network
Name Date modified Type Size
nfs.text 9/22/2019 2:36 PM TEXT File
test-nfs 9/22/2019 2:30 PM File
2 items
centOs-cliente-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places Text Editor
Home Desktop share
Open
nfs.text [Read-Only]
~/Desktop/share
Plain Text Tab Width: 8 Ln 1, Col 1 INS
centOs-server-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[root@localhost resources]# ls
test-nfs
[root@localhost resources]# echo 20186748 >> nfs.text
[root@localhost resources]# ls
nfs.text test-nfs
[root@localhost resources]# cat nfs.txt
cat: nfs.txt: No such file or directory
[root@localhost resources]# ls
nfs.text test-nfs
[root@localhost resources]# cat nfs.text
20186748
[root@localhost resources]# echo server test: 20186748 >> test.txt
[root@localhost resources]# cat test.txt
server test: 20186748
[root@localhost resources]#
Right Ctrl
2:37 PM 9/22/2019
root@localhost:~/Desktop/share
share
nfs.text [Read-Only] (~/Desktop/sha...
1 / 4
Right Ctrl


w7-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Computer ▸ resources (\\10.0.2.123\home) (Z:)
Organize Open Print New folder
Favorites
Desktop
Downloads
Recent Places
Libraries
Documents
Music
Pictures
Videos
Homegroup
Computer
Network
Name Date modified Type Size
nfs.text 9/22/2019 2:36 PM TEXT File 1 KB
test 9/22/2019 2:37 PM Text Document 1 KB
test - Notepad
File Edit Format View Help
server test: 20186748
test
Text Document
Date modified: 9/22/2019 2:37 PM
Date created: 9/22/2019 2:37 PM
Size: 22 bytes
2:37 PM
9/22/2019
Right Ctrl
centOs-cliente-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places Files
Home Desktop share
Recent
Home
Documents
Downloads
Music
Pictures
Videos
Trash
Other Locations
nfs.text
test.txt
"test.txt" selected (22 bytes)
root@localhost:~/Desktop/share
share
1 / 4
Right Ctrl


w7-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Computer
Search Computer
Organize System properties Uninstall or change a program Map network drive Open Control Panel
Favorites
Desktop
Downloads
Recent Places
Libraries
Documents
Music
Pictures
Videos
Homegroup
Computer
Network
Hard Disk Drives (1)
Local Disk (C:)
13.2 GB free of 19.8 GB
Devices with Removable St
CD Drive (D:)
Network Location (1)
resources (\\10.0.2.123\h
15.7 GB free of 16.9 GB
CLIENT-PC Workgroup: WORKGROUP
Memory: 1.00 GB
Processor: Intel(R) Core(TM) i5-82...
2:38 PM
9/22/2019
Right Ctrl
centOs-server-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[root@localhost resources]# ls
test-nfs
[root@localhost resources]# echo 20186748 >> nfs.text
[root@localhost resources]# ls
nfs.text test-nfs
[root@localhost resources]# cat nfs.txt
cat: nfs.txt: No such file or directory
[root@localhost resources]# ls
nfs.text test-nfs
[root@localhost resources]# cat nfs.text
20186748
[root@localhost resources]# echo server test: 20186748 >> test.txt
[root@localhost resources]# cat test.txt
server test: 20186748
[root@localhost resources]#
Right Ctrl
centOs-cliente-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places Terminal
root@localhost:~
File Edit View Search Terminal Help
[root@localhost share]# ls
test-nfs
[root@localhost share]# df -h
Filesystem Size Used Av
/dev/mapper/centos-root 17G 4.5G
devtmpfs 903M 0 903M 0% /dev
tmpfs 920M 0 920M 0% /dev/shm
tmpfs 920M 9.5M 910M 2% /run
tmpfs 920M 0 920M 0% /sys/fs/cgroup
/dev/sda1 1014M 232M 783M 23% /boot
tmpfs 184M 4.0K 184M 1% /run/user/42
tmpfs 184M 56K 184M 1% /run/user/0
10.0.2.123:/home/resources 17G 1.3G 16G 8% /root/Desktop/share
[root@localhost share]#
root@localhost:~/Desktop/share
1 / 4
Right Ctrl