

Configuración de servidor DHCP para una y múltiples redes

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Este tutorial es un extracto del siguiente video:

<https://youtu.be/rXN9kVOQ5ks>

Instalación de los paquetes

Paso 1

Instalamos el paquete **dhcp** en nuestro servidor para comenzar a trabajar con el proceso de configuración. Para esto utilizamos

yum install -y dhcp

File Machine View Input Devices Help



Recycle Bin

File Machine View Input Devices Help

Applications Places

File Machine View Input Devices Help

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



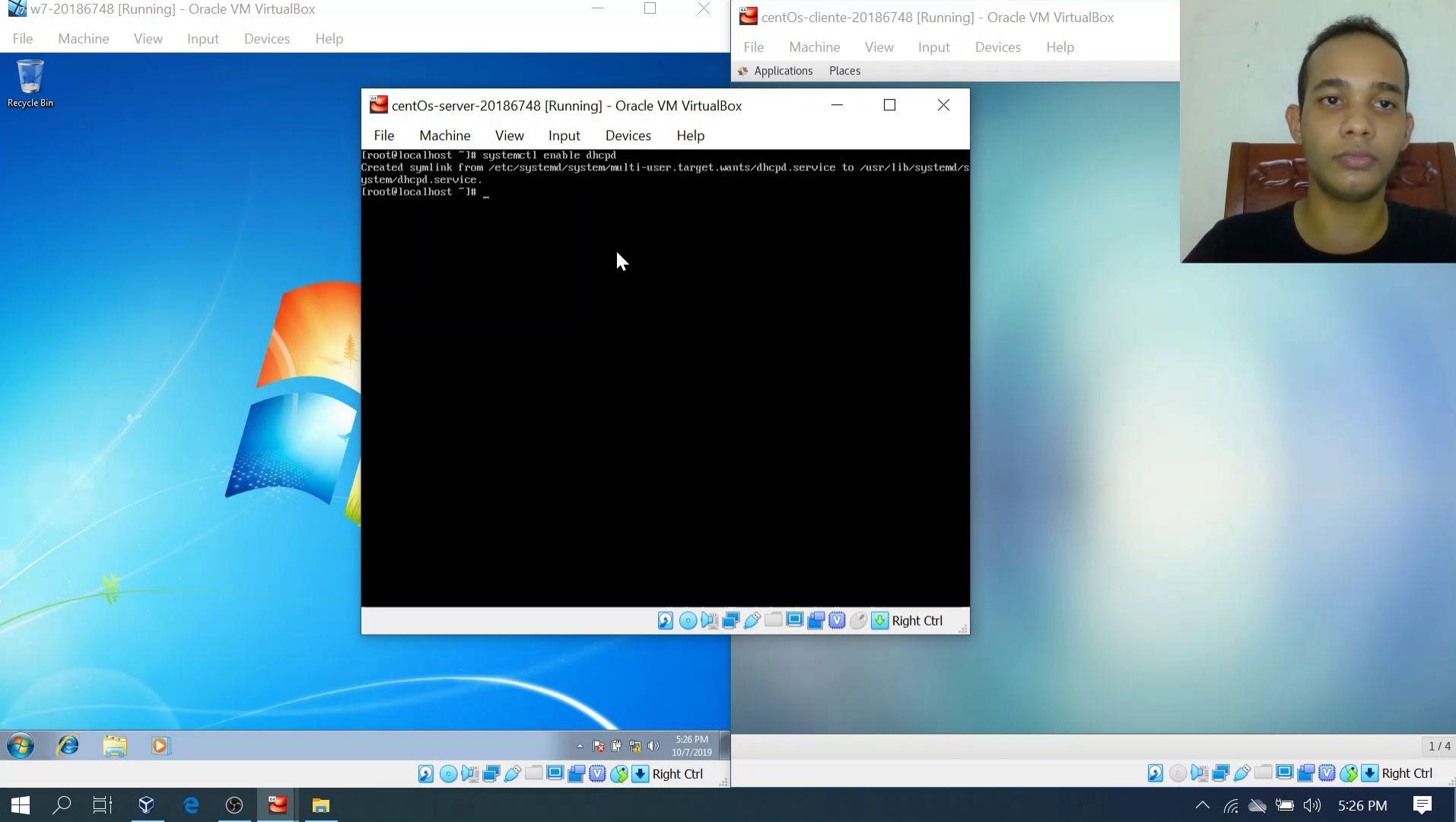
5:26 PM
10/7/2019

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5:26 PM

Paso 2

Habilitamos el servicio **dhcp** con el comando **systemctl enable dhcpcd**



Configuración de la red

En el Servidor

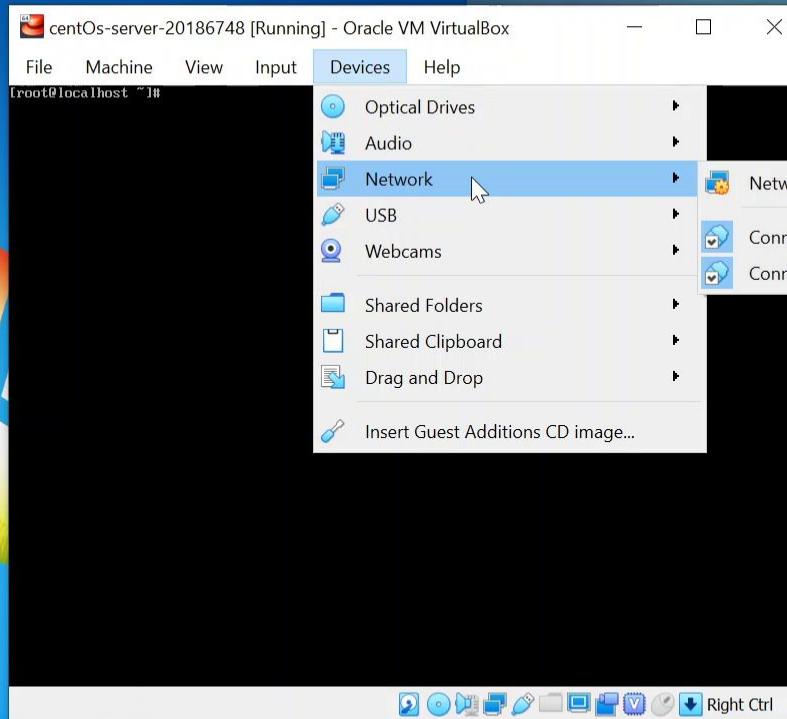
Paso 1

Nos aseguramos de tener al menos dos interfaces de red en nuestro servidor, sino las tenemos podemos colocamos otra interfaz en el apartado de redes. (es necesario apagar el servidor)

File Machine View Input Devices Help



Recycle Bin



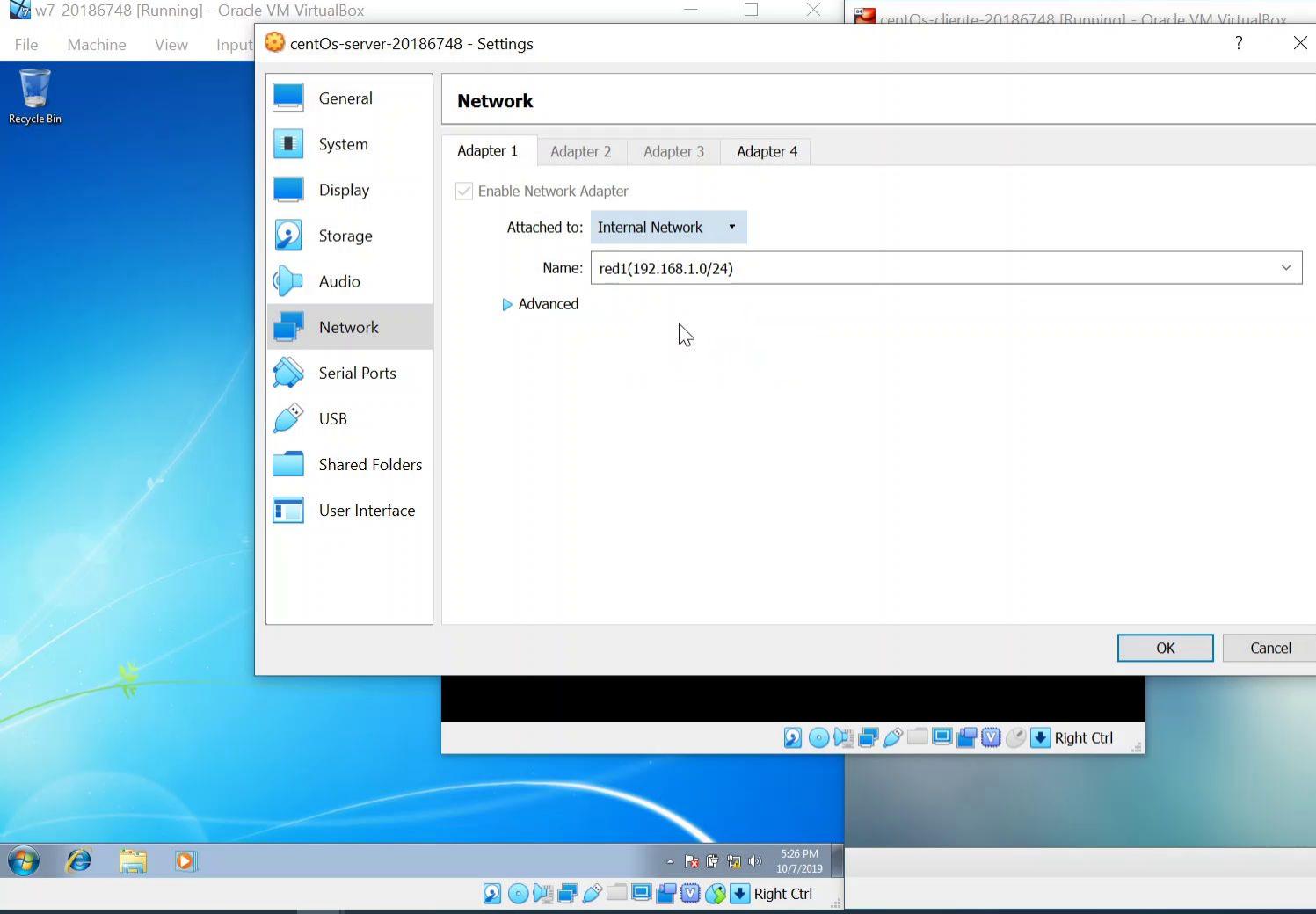
File Machine View Input Devices Help

Applications Places



Paso 2

Colocalos las interfaces en redes diferentes



File Machine View Input



centOs-server-20186748 - Settings

Network

Adapter 1 Adapter 2 Adapter 3 Adapter 4

Enable Network Adapter

Attached to: Internal Network ▾

Name: red2(10.0.4.0/24)

Advanced

OK Cancel

This screenshot shows the 'Network' settings dialog for a CentOS server virtual machine in Oracle VM VirtualBox. The 'Adapter 4' tab is selected. The 'Attached to:' dropdown is set to 'Internal Network'. The 'Name:' field contains 'red2(10.0.4.0/24)'. The 'OK' button is highlighted with a blue border.



En los Clientes

Procedemos a colocar cada uno de los
clientes en su respectiva red

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

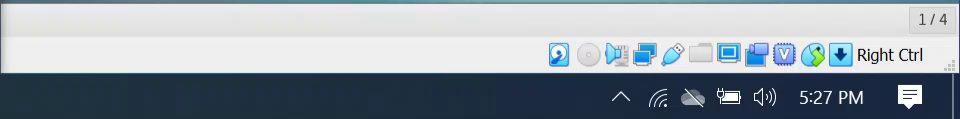
Enable Network Adapter

Attached to: Internal Network

Name: red1(192.168.1.0/24)

Advanced

OK Cancel





centOs-cliente-20186748 - Settings

Network

Adapter 1 Adapter 2 Adapter 3 Adapter 4

Enable Network Adapter

Attached to: Internal Network

Name: red2(10.0.4.0/24)

Advanced

OK Cancel

This screenshot shows the 'Network' settings for a virtual machine named 'centOs-cliente-20186748'. The 'Adapter 1' tab is selected. The 'Attached to:' dropdown is set to 'Internal Network'. The 'Name:' field contains 'red2(10.0.4.0/24)'. The 'Enable Network Adapter' checkbox is checked. There is also an 'Advanced' section. At the bottom are 'OK' and 'Cancel' buttons.



Configuración del Servidor

Paso 1

Nos dirigimos a **network-scripts** para configurar los adaptadores.
Para esto colocamos **cd /etc/sysconfig/network-scripts**

File Machine View Input Devices Help



Recycle Bin

File Machine View Input Devices Help

Applications Places

File Machine View Input Devices Help

```
[root@localhost ~]# cd /etc/sysconfig/network-scripts
[root@localhost network-scripts]# ls
ifcfg-ensp0s10  ifdown-ippv6      ifdown-sit      ifup-bnep   ifup-plusb  ifup-TeamPort
ifcfg-ensp0s3  ifdown-ipx6      ifdown-Team      ifup-eth    ifup-post   ifup-tunnel
ifcfg-lo       ifdown-tsdn      ifdown-TeamPort  ifup-ippv6  ifup-ppp    ifup-wireless
ifdown          ifdown-post     ifdown-tunnel   ifup-ipv6   ifup-routes init.ipv6-global
ifdown-bnep    ifdown-ppp      ifup           ifup-isdn   ifup-sit    network-functions
ifdown-eth     ifdown-routes   ifup-aliases   ifup-plip  ifup-Team   network-functions-ipv6
[root@localhost network-scripts]# vi if_
```



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5:28 PM

Paso 2

Abrimos el primer adaptador a configurar, en este caso el **enp0s10**, con cualquier editor de texto, y luego colocamos la información de red basada en la red en que se encuentra.

File Machine View Input Devices Help



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10/7/2019

Right Ctrl

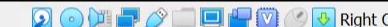
File Machine View Input Devices Help

Applications Places

File Machine View Input Devices Help

```
HWADDR=00:00:27:2B:0F:8C
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=enp0s10
UUID=fddbae03-2418-3406-90dc-77df9aa9c228
ONBOOT=yes
AUTOCONNECT_PRIORITY=-999
IPADDR=10.0.4.125
NETMASK=255.255.255.0
GATEWAY=10.0.4.1
~
```

-- INSERT --



Right Ctrl

1 / 4

5:29 PM

1



Paso 3

Reiniciamos la interfaz para guardar los cambios, esto lo hacemos
con **ifdown [int]**, **ifup [int]**

File Machine View Input Devices Help



Recycle Bin

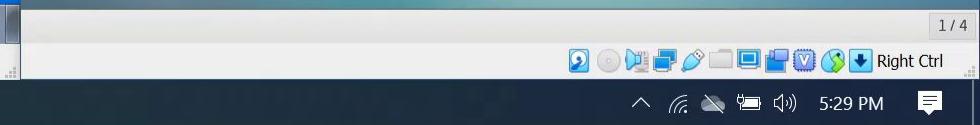
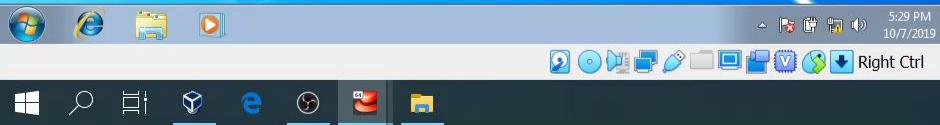


File Machine View Input Devices Help

Applications Places

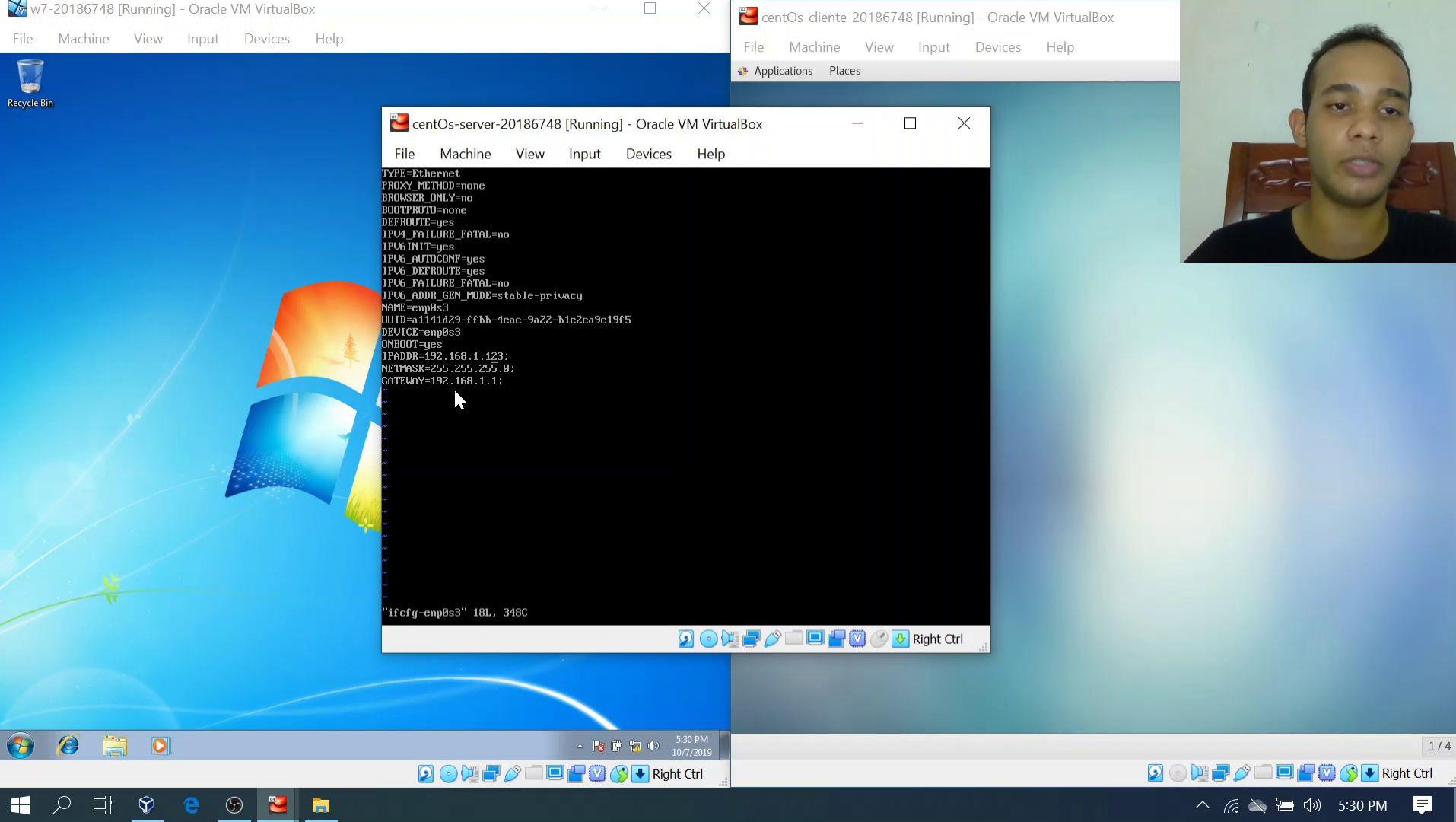
File Machine View Input Devices Help

```
[root@localhost network-scripts]# ifdown enp0s10
-bash: ifdown: command not found
[root@localhost network-scripts]# ifdown enp0s10
Device 'enp0s10' successfully disconnected.
[root@localhost network-scripts]# ifup enp0s10
Connection successfully activated (D-Bus active path: /org/freedesktop/NetworkManager/ActiveConnecti
on/12)
[root@localhost network-scripts]# _
```



Paso 4

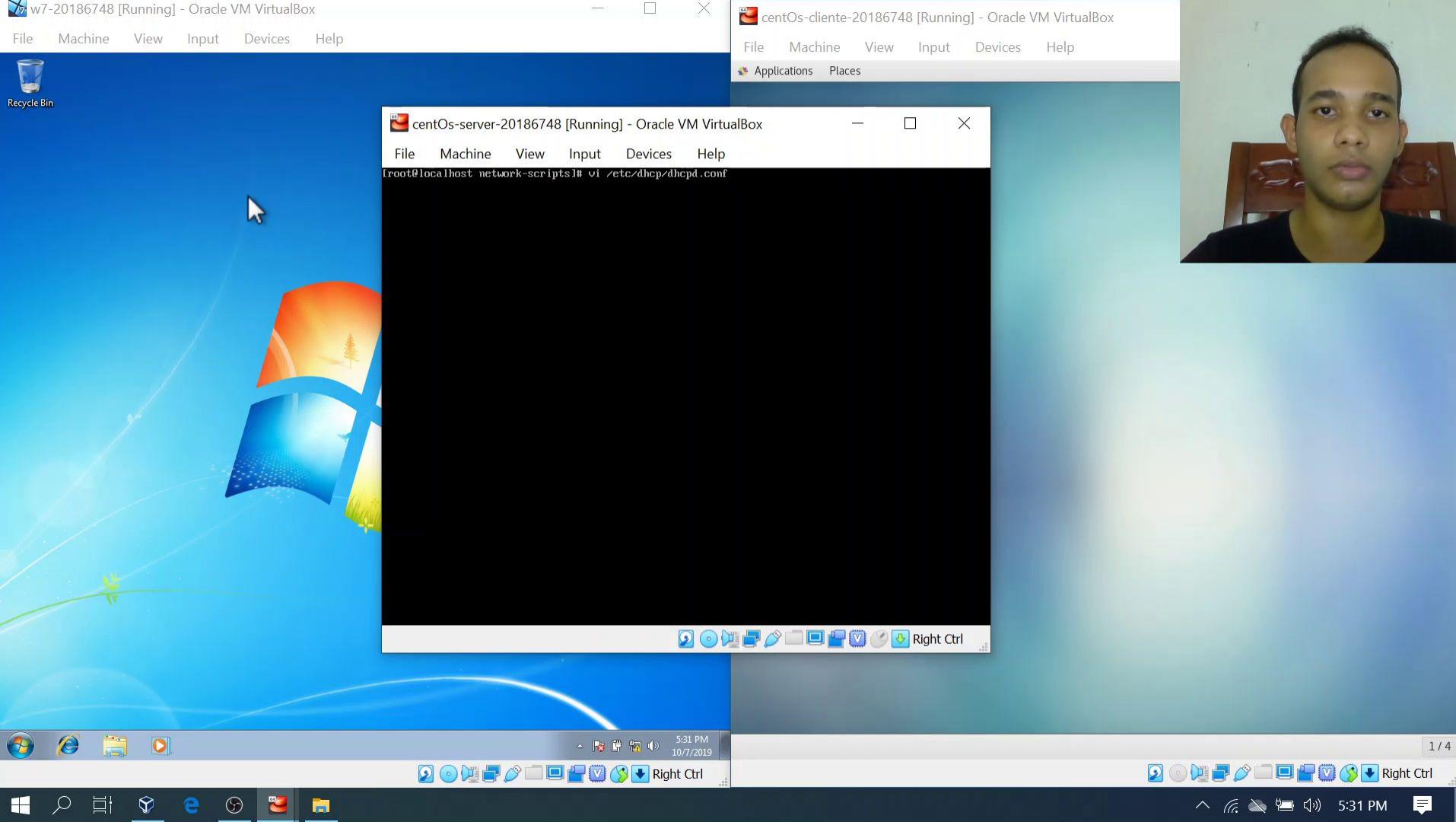
De la misma manera procedemos a configurar el otro adaptador



Configuración de DHCP para una red

Paso 1

Abrimos el archivo de configuración **dhcpd.conf**, localizado en
/etc/dhcp.



Paso 2

En la parte inicial colocamos las configuraciones generales como **default-lease-time**, **max-lease-time**, **authoritative**. Como por ahora solo configuraremos una red y tenemos dos adaptadores es necesario que identifiquemos el que vamos a utilizar con **DHCPDARGS**. luego realizamos el subnet para nuestra red, y dentro de este bloque configuraremos las diferentes opciones y el rango de ip que serán ofertadas, de la misma forma en la que vemos la siguiente imagen.

File Machine View Input Devices Help



Recycle Bin

w7-20186748 [Running] - Oracle VM VirtualBox

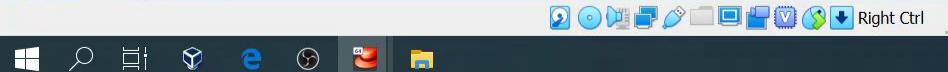
File Machine View Input Devices Help

```
# DHCP Server Configuration file.
#   see /usr/share/doc/dhcp*/dhcpd.conf.example
#   see dhcpcd.conf(5) man page
#
authoritative;
DHCPARGS="--emptydb";
default-lease-time 600;
max-lease-time 7200;

subnet 192.168.1.0 netmask 255.255.255.0{
    option subnet-mask 255.255.255.0;
    option routers 192.168.1.1;
    option domain-name-servers 192.168.1.1;
    option broadcast-address 192.168.1.255;
    range 192.168.1.2 192.168.1.20;
}

-- INSERT --
```

Right Ctrl



File Machine View Input Devices Help



Paso 3

Reiniciamos el servicio para guardar los cambios con **systemctl
restart dhcpd**

File Machine View Input Devices Help



Recycle Bin

File Machine View Input Devices Help

Applications Places

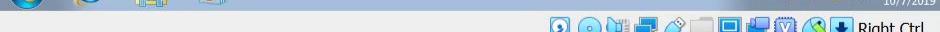
File Machine View Input Devices Help

```
# see /usr/share/doc/dhcp*/dhcpd.conf.example
# see dhcpcd.conf(5) man page
#
authoritative;
DHCPARGS="empty3";
default-lease-time 600;
max-lease-time 7200;

subnet 192.168.1.0 netmask 255.255.255.0{
    option subnet-mask 255.255.255.0;
    option routers 192.168.1.1;
    option domain-name-servers 192.168.1.1;
    option broadcast-address 192.168.1.255;
    range 192.168.1.2 192.168.1.20;
```

```
"/etc/dhcp/dhcpd.conf" 17L, 430C written
[root@localhost network-scripts]# systemctl restart dhcpcd
[root@localhost network-scripts]#
```

Right Ctrl



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10/7/2019



5:39 PM



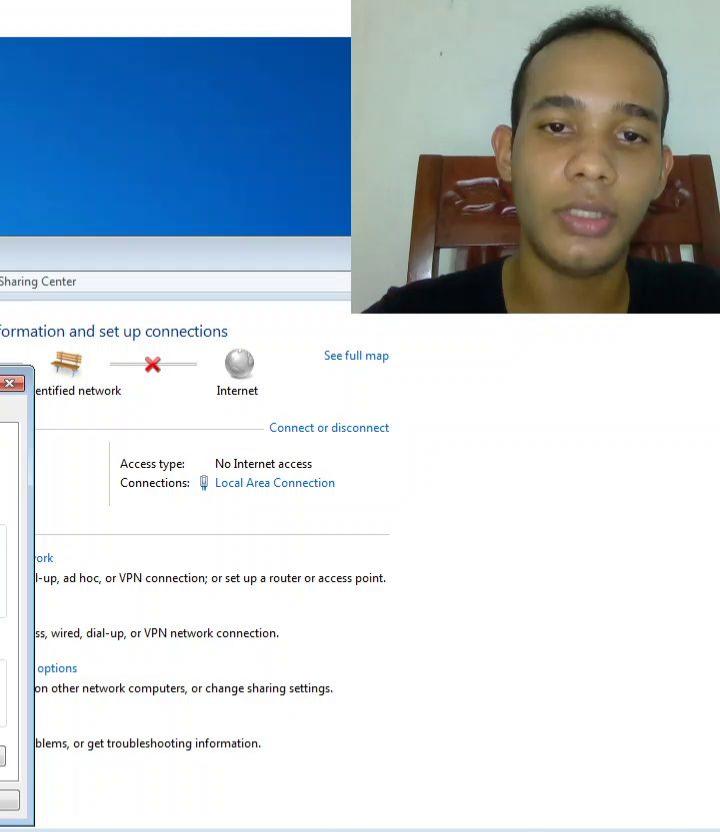
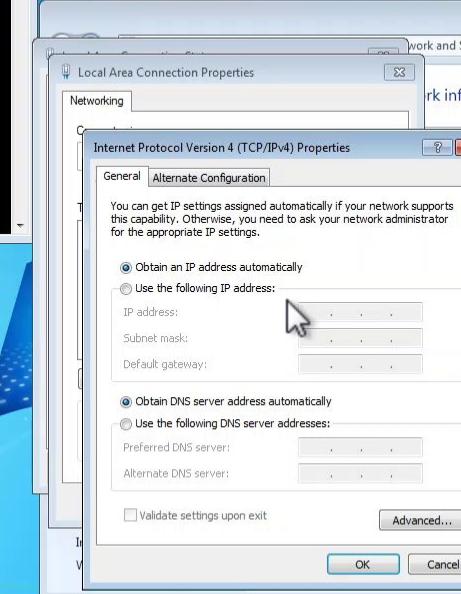
Paso 4

En el cliente reiniciamos la interfaz de red previamente configurada como dhcp, para que este inicie el proceso de descubrimiento



Recycle Bin

```
c:\> C:\Windows\system32\cmd.exe  
Microsoft Windows [Version 6.1.7601]  
Copyright © 2009 Microsoft Corporation. All rights reserved.  
C:\>ipconfig  
Windows IP Configuration  
  
Ethernet adapter Local Area Connection:  
  Connection-specific DNS Suffix . :  
  Link-local IPv6 Address . . . . . : fe80::c4ab:5cid:9db4:a3a3%11  
  IPv4 Address . . . . . : 192.168.1.2  
  Subnet Mask . . . . . : 255.255.255.0  
  Default Gateway . . . . . : 192.168.1.1  
  
Tunnel adapter isatap.{FFC58F14-04A6-469A-93F8-2E8095FCFB03}:  
  Media State . . . . . : Media disconnected  
  Connection-specific DNS Suffix . . . . . :  
C:\>
```



Con **systemctl status -l dhcpcd** podemos ver el estado de nuestro servidor dhcp y el historial de peticiones y asignaciones de ip



Recycle Bin

C:\Windows\system32\cmd.exe

Microsoft Windows [Version 6.1.7601]
Copyright © 2009 Microsoft Corporation. All rights reserved.
C:\Users\w7-20186748>ipconfig
Windows IP Configuration

Ethernet adapter Local Area Connection:
Connection-specific DNS Suffix . :
Link-local IPv6 Address : fe80::4ab
IPv4 Address : 192.168.1.25
Subnet Mask : 255.255.255.0
Default Gateway : 192.168.1.1

Tunnel adapter isatap.{FFC58F14-04A6-469A-93F8-2E0c07173945}: Listening on LPF/emp0s3/00:00:27:d9:3a:a5/192.168.1.104
Media State : Media disconnected
Connection-specific DNS Suffix : Oct 07 17:39:45 localhost.localdomain dhcpcd[3367]: Sending on Socket/fallback/fallback-net
Oct 07 17:39:45 localhost.localdomain dhcpcd[3367]: Started DHCPv4 Server Daemon.
Oct 07 17:40:20 localhost.localdomain dhcpcd[3367]: DHCPDISCOVER from 00:00:27:3b:60:66 via emp0s3
Oct 07 17:40:21 localhost.localdomain dhcpcd[3367]: DHCPOffer on 192.168.1.2 to 00:00:27:3b:60:66 (client-PC) via emp0s3
Oct 07 17:40:21 localhost.localdomain dhcpcd[3367]: DHCPREQUEST for 192.168.1.2 (192.168.1.123) from 00:00:27:3b:60:66 (client-PC) via emp0s3
Oct 07 17:40:21 localhost.localdomain dhcpcd[3367]: DHCPACK on 192.168.1.2 to 00:00:27:3b:60:66 (client-PC) via emp0s3
Oct 07 17:40:28 localhost.localdomain dhcpcd[3367]: DHCPINFORM from 192.168.1.2 via emp0s3
Oct 07 17:40:28 localhost.localdomain dhcpcd[3367]: DHCPACK to 192.168.1.2 (00:00:27:3b:60:66) via emp0s3

C:\Users\w7-20186748>

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

File Machine View Input Devices Help

root@localhost network-scripts:~# systemctl status -l dhcpcd

dhcpcd.service - DHCPv4 Server Daemon

 Loaded: loaded (/usr/lib/systemd/system/dhcpcd.service; enabled; vendor preset: disabled)

 Active: active (running) since Mon 2019-10-07 17:39:45 EDT; 1min 22s ago

 Docs: man:dhcpcd(8)
 man:dhcpcd.conf(5)

 Main PID: 3367 (dhcpcd)

 Status: "Dispatching packets..."

 CGroup: /system.slice/dhcpcd.service
 └─3367 /usr/sbin/dhcpcd -f -cf /etc/dhcp/dhcpcd.conf -user dhcpcd -group dhcpcd --no-pid

Oct 07 17:39:45 localhost.localdomain dhcpcd[3367]: Listening on LPF/emp0s3/00:00:27:d9:3a:a5/192.168.1.104

Oct 07 17:39:45 localhost.localdomain dhcpcd[3367]: Sending on Socket/fallback/fallback-net

Oct 07 17:39:45 localhost.localdomain dhcpcd[3367]: Started DHCPv4 Server Daemon.

Oct 07 17:40:20 localhost.localdomain dhcpcd[3367]: DHCPDISCOVER from 00:00:27:3b:60:66 via emp0s3

Oct 07 17:40:21 localhost.localdomain dhcpcd[3367]: DHCPOffer on 192.168.1.2 to 00:00:27:3b:60:66 (client-PC) via emp0s3

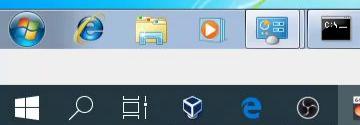
Oct 07 17:40:21 localhost.localdomain dhcpcd[3367]: DHCPREQUEST for 192.168.1.2 (192.168.1.123) from 00:00:27:3b:60:66 (client-PC) via emp0s3

Oct 07 17:40:21 localhost.localdomain dhcpcd[3367]: DHCPACK on 192.168.1.2 to 00:00:27:3b:60:66 (client-PC) via emp0s3

Oct 07 17:40:28 localhost.localdomain dhcpcd[3367]: DHCPINFORM from 192.168.1.2 via emp0s3

Oct 07 17:40:28 localhost.localdomain dhcpcd[3367]: DHCPACK to 192.168.1.2 (00:00:27:3b:60:66) via emp0s3

root@localhost network-scripts:~#



Configuración de DHCP para varias redes

Paso 1

Nuevamente abrimos el archivo de configuración **dhcpd.conf**
localizado en **/etc/dhcp**.



Recycle Bin

```
C:\Windows\system32\cmd.exe
Microsoft Windows Version 6.1.2601
Copyright © 2009 Microsoft Corporation. All rights reserved.

C:\Users\w7-20186748>ipconfig
Windows IP Configuration

Ethernet adapter Local Area Connection:
  Connection-specific DNS Suffix . :
  Link-local IPv6 Address . . . . . fe80::c4
  IPv4 Address . . . . . 192.168.1.100
  Subnet Mask . . . . . 255.255.255.0
  Default Gateway . . . . . 192.168.1.1

Tunnel adapter isatap.{FFC58F14-0A06-4690-93F8-...
  Media State . . . . . Media disconnected
  Connection-specific DNS Suffix . . . . .

C:\Users\w7-20186748>
```



Local Area Connection Properties

Networking

Connect using: Intel(R) PRO/100 MT Desktop Adapter

This connection uses the following settings:

- Client for Microsoft Networks
- DNS Suffixes
- File and Printer Sharing for Microsoft Networks
- Internet Protocol Version 4 (TCP/IPv4)
- Internet Protocol Version 6 (TCP/IPv6)
- Link Layer Discovery Protocol (LLDP)
- Link Layer Discovery Protocol (LLDP)

Internet

General

You can change the way this connection works for the Internet.

IP Settings

Subnet Mask

Default Gateway

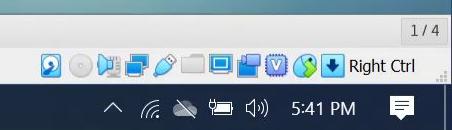
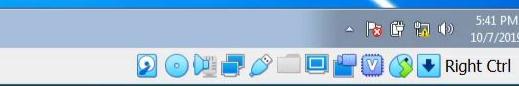
Preferred Gateway

Alt. Preferred Gateway

Proxy Server

Advanced

Right Ctrl



Paso 2

Colocamos la nueva interfaz dentro de **DHCPDARGS**



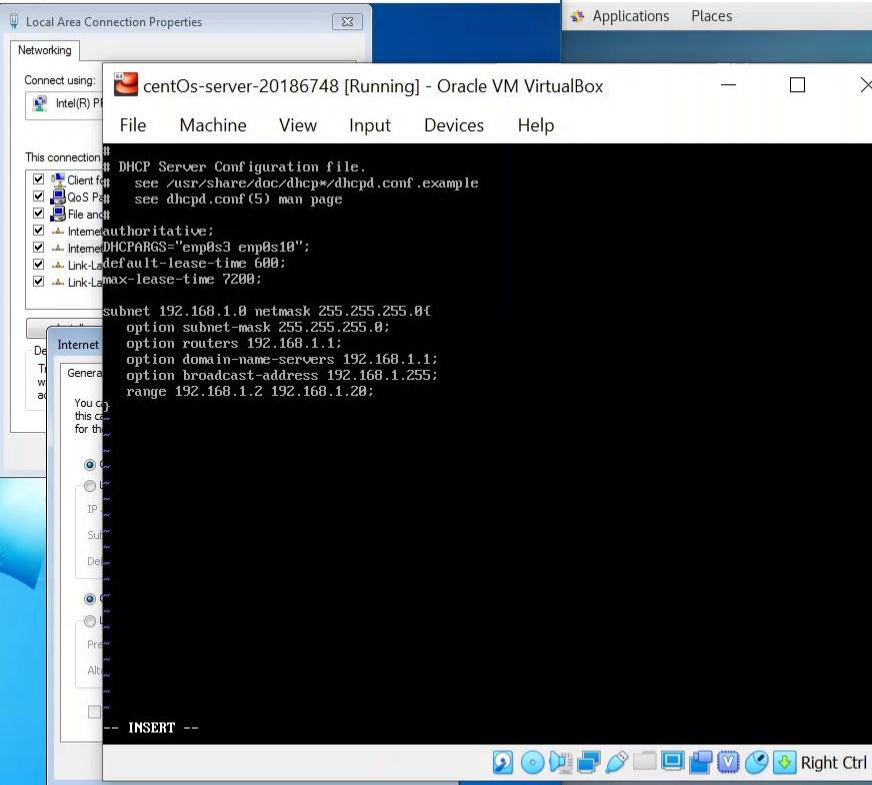
Recycle Bin

```
C:\Windows\system32\cmd.exe
Microsoft Windows Version 6.1.7601
Copyright © 2009 Microsoft Corporation. All rights reserved.

C:\Users\w7-20186748>ipconfig
Windows IP Configuration

Ethernet adapter Local Area Connection:
  Connection-specific DNS Suffix : .
  Link-local IPv6 Address . . . . . : fe80::4
  IPv4 Address . . . . . : 192.168.1.100
  Subnet Mask . . . . . : 255.255.255.0
  Default Gateway . . . . . : 192.168.1.1

Tunnel adapter isatap.{FFPC8F14-0406-4690-93F8-...
  Media State : Media disconnected
  Connection-specific DNS Suffix : .
C:\Users\w7-20186748>
```



Applications Places



Paso 3

Colocamos el subnetting y las opciones respectivas para esta red debajo de la red que habíamos configurado, de la misma forma en que lo hicimos antes.



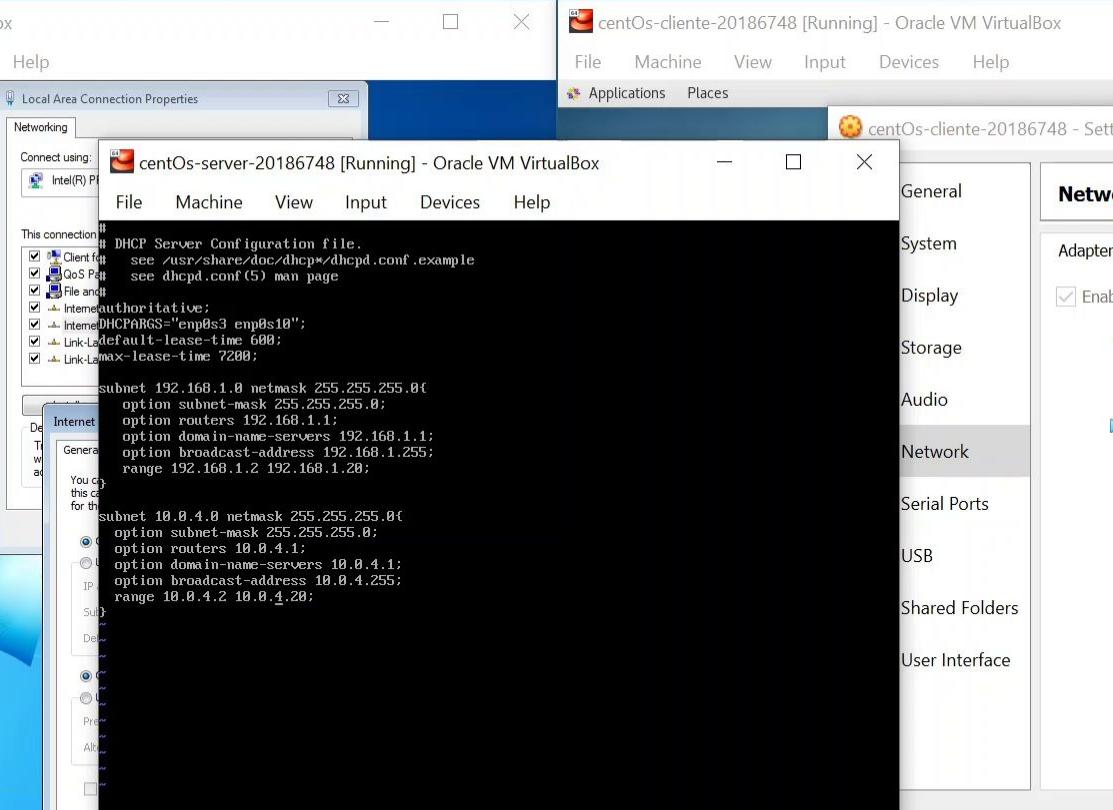
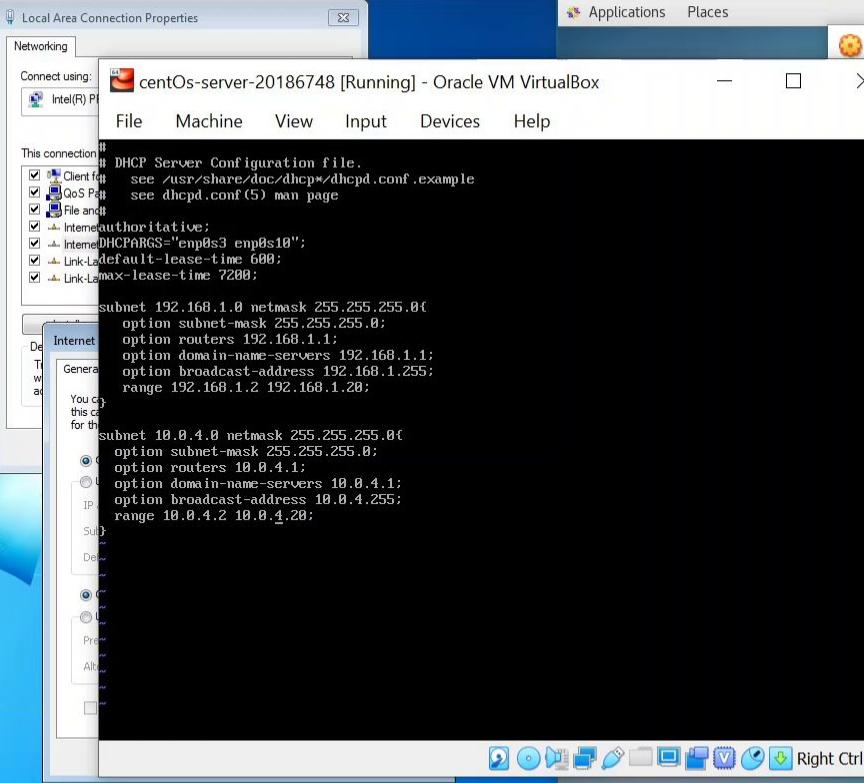
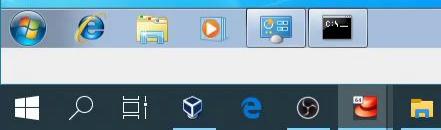
Recycle Bin

```
C:\Windows\system32\cmd.exe
Microsoft Windows Version 6.1.2601
Copyright © 2009 Microsoft Corporation. All rights reserved.

C:\Users\w7-20186748>ipconfig
Windows IP Configuration

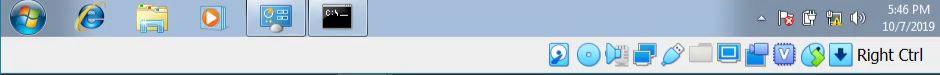
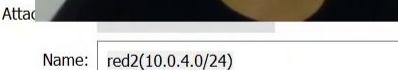
Ethernet adapter Local Area Connection:
  Connection-specific DNS Suffix : .
  Link-local IPv6 Address . . . . . : fe80::4
  IPv4 Address . . . . . : 192.168.1.100
  Subnet Mask . . . . . : 255.255.255.0
  Default Gateway . . . . . : 192.168.1.1

Tunnel adapter isatap.{FFPC8F14-0406-4690-93F8-...
  Media State : Media disconnected
  Connection-specific DNS Suffix : .
C:\Users\w7-20186748>
```



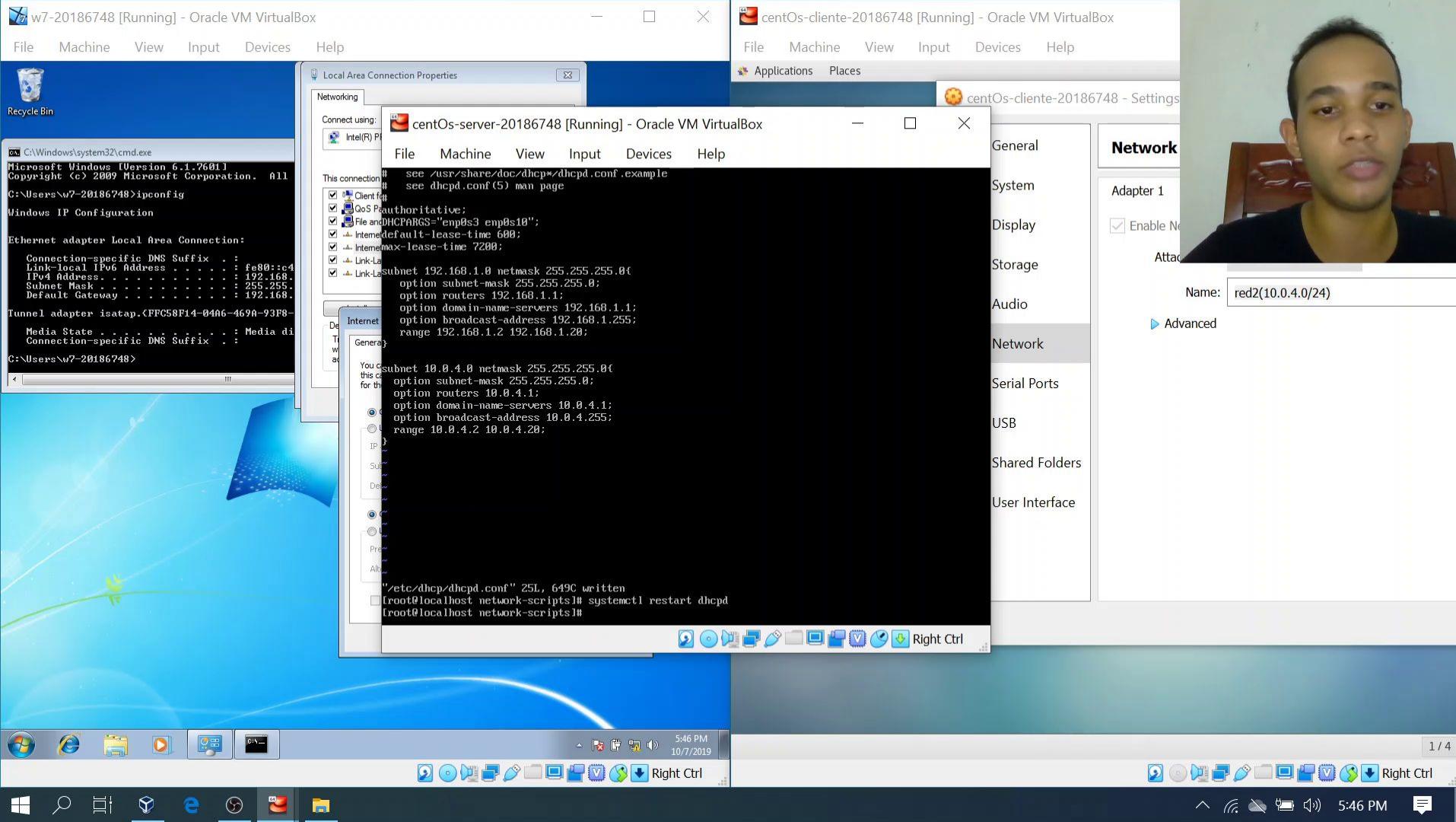
Name: red2(10.0.4.0/24)

Advanced

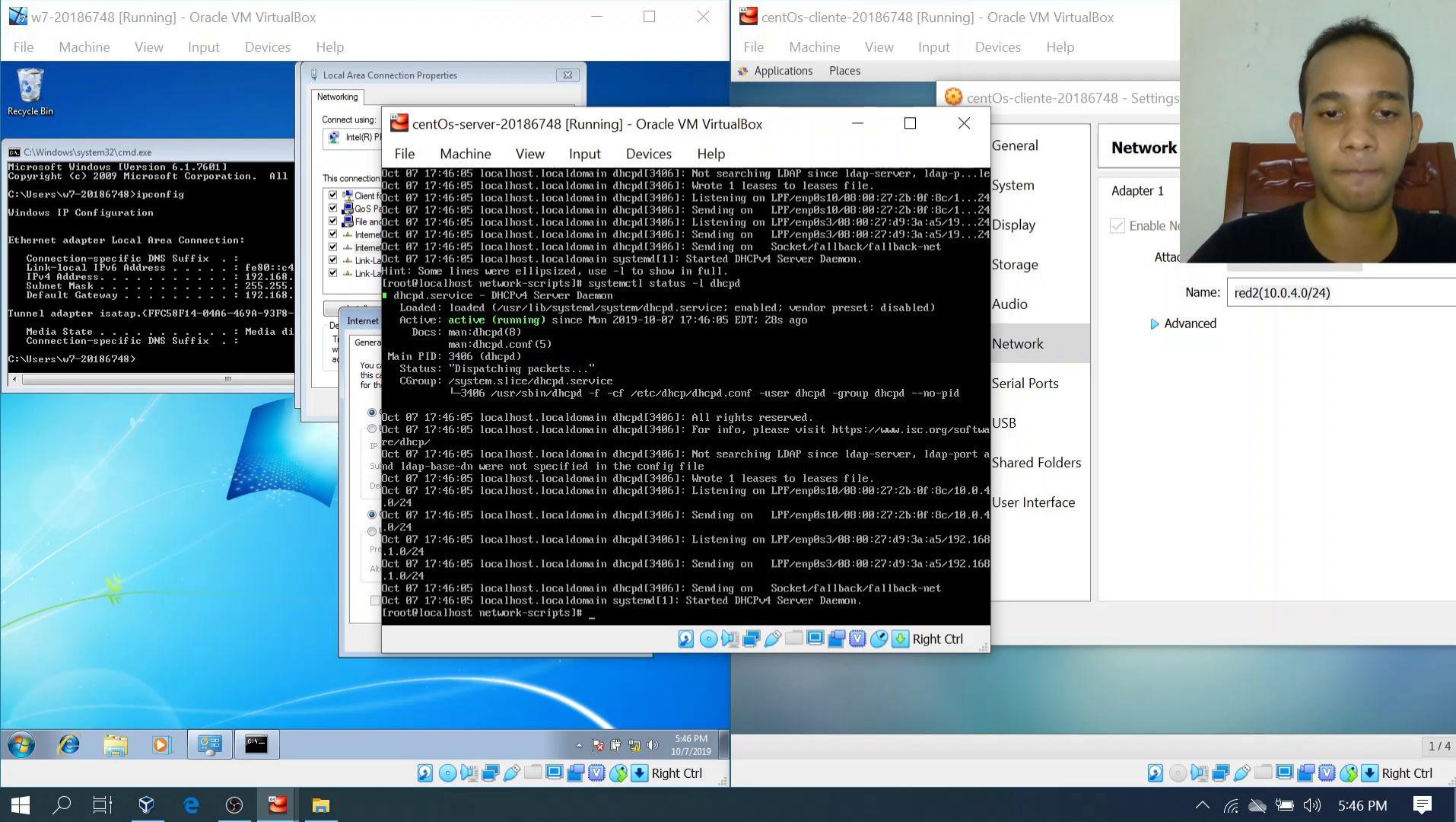


Paso 4

Reiniciamos el servicio con **systemctl restart dhcpcd** para guardar los cambios



Si utilizamos **systemctl status -l dhcpcd**, observaremos que el servidor se encuentra ahora escuchando en ambas interfaces



Probando

Colocamos el cliente de la red que acabamos de configurar en dhcp



Home



Trash

Settings

Network

Wi-Fi

Bluetooth

Background

Notifications

Search

Region & Language

Universal Access

Online Accounts

Privacy

Sharing

Sound

Power

Network

Cancel

Wired

IPv4

Details

Identity

IPv4

IPv6

Security

Apply

IPv4 Method

Automatic (DHCP)

Link-Local Only

Manual

Disable

DNS

Automatic ON

Separate IP addresses with commas

Routes

Automatic ON

Address	Netmask	Gateway	Metric
			x

Use this connection only for resources on its network



7

CENTOS

Al visualizar la información del adaptador con **ifconfig** deberíamos ver la ip que se le ha asignado automáticamente, dentro del rango antes establecido



Home



Trash

```
centos20186748@localhost:~
```

File Edit View Search Terminal Help

```
[centos20186748@localhost ~]$ ifconfig enp0s3
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
        inet 10.0.4.2 netmask 255.255.255.0 broadcast 10.0.4.255
          inet6 fe80::7758:c9f2:fe7:c615 prefixlen 64 scopeid 0x20<link>
            ether 08:00:27:2c:5a:fc txqueuelen 1000 (Ethernet)
              RX packets 7484 bytes 2575939 (2.4 MiB)
              RX errors 0 dropped 0 overruns 0 frame 0
              TX packets 8863 bytes 808526 (789.5 Kib)
              TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[centos20186748@localhost ~]$
```



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CENTOS

Al ver nuevamente la información del servicio con **systemctl -l dhcpcd**, vemos cómo se llevó a cabo el proceso de asignación de información de red en ambos clientes cada uno dentro de una red diferente.

w7-20186748 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Internet Protocol Version 4 (TCP/IPv4) Properties

General Alternate Configuration

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

Obtain an IP address automatically (radio button selected)

Use the following IP address:

IP address:

Subnet mask:

Default gateway:

Obtain DNS server address automatically (radio button selected)

Use the following DNS server addresses:

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

File Machine View Input Devices Help

```
Oct 07 17:48:33 localhost.localdomain dhcpcd[3406]: DHCPREQUEST for 192.168.1.2 from 08:00:27:3b:60:66 (client-PC) via enp0s3
Oct 07 17:48:33 localhost.localdomain dhcpcd[3406]: DHCPOFFER on 192.168.1.2 to 08:00:27:3b:60:66 (client-PC) via enp0s3
Oct 07 17:48:39 localhost.localdomain dhcpcd[3406]: DHCPINFORM from 192.168.1.2 via enp0s3
Oct 07 17:48:39 localhost.localdomain dhcpcd[3406]: DHCPOFFER on 192.168.1.2 (08:00:27:3b:60:66) via enp0s3
root@localhost network-scripts# systemctl status -l dhcpcd
dhcpcd.service - DHCPv4 Server Daemon
  Loaded: loaded (/usr/lib/systemd/system/dhcpcd.service; enabled; vendor preset: disabled)
  Active: active (running) since Mon 2019-10-07 17:46:05 EDT; 4min 32s ago
    Docs: man:dhcpcd(8)
           man:dhcpcd.conf(5)
Main PID: 3406 (dhcpcd)
  Status: "Dispatching packets..."
   CGroup: /system.slice/dhcpcd.service
          └─3406 /usr/sbin/dhcpcd -f -cf /etc/dhcp/dhcpcd.conf -user dhcpcd -group dhcpcd --no-pid
Oct 07 17:47:05 localhost.localdomain dhcpcd[3406]: DHCPDISCOVER from 08:00:27:2c:5a:fc via enp0s10
Oct 07 17:47:06 localhost.localdomain dhcpcd[3406]: DHCPOFFER on 10.0.4.2 to 08:00:27:2c:5a:fc via enp0s10
Oct 07 17:47:06 localhost.localdomain dhcpcd[3406]: DHCPREQUEST for 10.0.4.2 (10.0.4.125) from 08:00:27:2c:5a:fc via enp0s10
Oct 07 17:47:06 localhost.localdomain dhcpcd[3406]: DHCPOFFER on 10.0.4.2 to 08:00:27:2c:5a:fc via enp0s10
Oct 07 17:47:28 localhost.localdomain dhcpcd[3406]: DHCPREQUEST for 192.168.1.2 from 08:00:27:3b:60:66 (client-PC) via enp0s3
Oct 07 17:47:28 localhost.localdomain dhcpcd[3406]: DHCPOFFER on 192.168.1.2 to 08:00:27:3b:60:66 (client-PC) via enp0s3
Oct 07 17:48:33 localhost.localdomain dhcpcd[3406]: DHCPREQUEST for 192.168.1.2 from 08:00:27:3b:60:66 (client-PC) via enp0s3
Oct 07 17:48:33 localhost.localdomain dhcpcd[3406]: DHCPOFFER on 192.168.1.2 to 08:00:27:3b:60:66 (client-PC) via enp0s3
Oct 07 17:48:39 localhost.localdomain dhcpcd[3406]: DHCPINFORM from 192.168.1.2 via enp0s3
Oct 07 17:48:39 localhost.localdomain dhcpcd[3406]: DHCPOFFER on 192.168.1.2 (08:00:27:3b:60:66) via enp0s3
root@localhost network-scripts# _
```

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

File Machine View Input Devices Help

Applications Places Settings

centos20186748@localhost:~

Edit View Search Terminal Help

```
tos20186748@localhost ~$ ifconfig enp0s3
s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
      inet 10.0.4.2  netmask 255.255.255.0  broadcast 10.0.4.255
              brd 10.0.4.255  scope 64  linklayer 0x00:0c:29:00:00:03
              collisions 0
```

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

File Machine View Input Devices Help

See also HomeG Internet Window

Microsoft Windows [Version 6.1.7601]
Copyright © 2009 Microsoft Corporation. All rights reserved.
C:\Users\w7-20186748>ipconfig
Windows IP Configuration

Ethernet adapter Local Area Connection:
 Connection-specific DNS Suffix . :
 Link-local IPv6 Address : fe80::c4ab:5c1d:9db4%1
 IPv4 Address : 192.168.1.2
 Subnet Mask : 255.255.255.0
 Default Gateway : 192.168.1.1

Tunnel adapter isatap.<PFCS8F14-04A6-469A-93F8-2E8095FCFBa3>:
 Media State : Media disconnected
 Connection-specific DNS Suffix . :

C:\Users\w7-20186748>

Wired

Details Identity IPv4 IPv6 Security

Pv4 Method: Automatic (DHCP) Link-Local Only Manual Disable

DNS: Automatic ON

Routes: Automatic ON

Address Netmask Gateway Metric

Use this connection only for resources on its network

centos20186748@localhost:~

Settings

Right Ctrl

5:51 PM 10/7/2019

Right Ctrl

Right Ctrl

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