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NETWORK CONFIGURATION ON LINUX IMAGE

By www.HadoopExam.com

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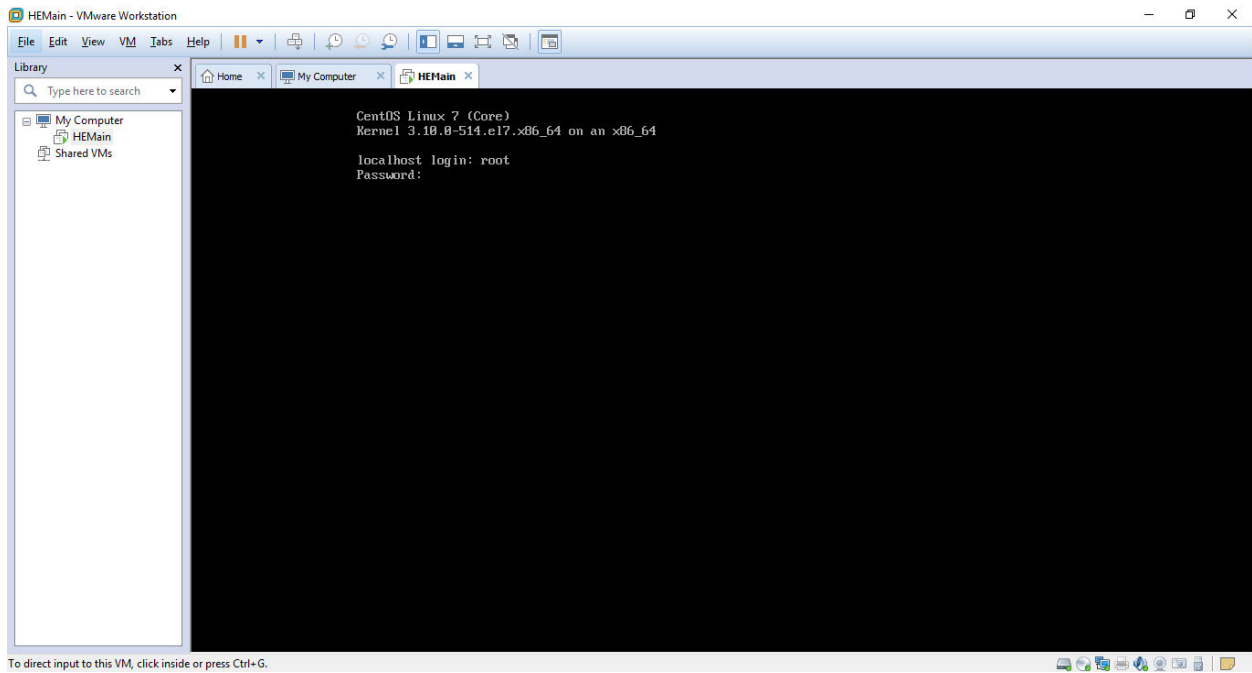
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Step 1: Log in to Linux instance



root/hadoopexam

Step 2: Network Configuration: type below command to see current network configurations. No IP address is given.

ifconfig -a

```
CentOS Linux 7 (Core)
Kernel 3.10.0-514.el7.x86_64 on an x86_64

localhost login: root
Password:
[root@localhost ~]# ifconfig -a
ens33: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    ether 00:0c:29:a4:6d:78 txqueuelen 1000 (Ethernet)
    RX packets 31 bytes 1860 (1.8 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1 (Local Loopback)
    RX packets 192 bytes 16704 (16.3 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 192 bytes 16704 (16.3 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@localhost ~]#
```

Step 3: To setup the network we need to setup Internet Gateway. Hence, we need to find from our windows machine by typing below command in command prompt (Windows Box)

```
ipconfig
```

And get the IP address for Gateway

```

Ethernet adapter VirtualBox Host-Only Network:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::a9ab:3924:a1e:f798%3
    Autoconfiguration IPv4 Address. . : 169.254.247.152
    Subnet Mask . . . . . : 255.255.0.0
    Default Gateway . . . . . : 

Wireless LAN adapter Local Area Connection* 2:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : 

Ethernet adapter VMware Network Adapter VMnet1:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::5936:cd21:e45:2291%4
    IPv4 Address. . . . . : 192.168.57.1
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 

Ethernet adapter VMware Network Adapter VMnet8:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::1842:241a:c76d:d653%6
    IPv4 Address. . . . . : 192.168.239.1
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 
    
```

In this case IP address is (192.168.239.1). Hence, we can consider next ip (**192.168.239.2**) as a Gateway.

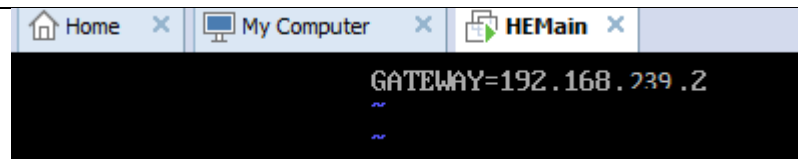
Step 4: Now go back to VM, as we see Ethernet as “ens33” (It could be different in your case e.g. eth0 etc.)

Now goto following path

```
vi /etc/sysconfig/network
```

Add the following Gateway (In your case IP address will be different)

```
GATEWAY=192.168.239.2
```



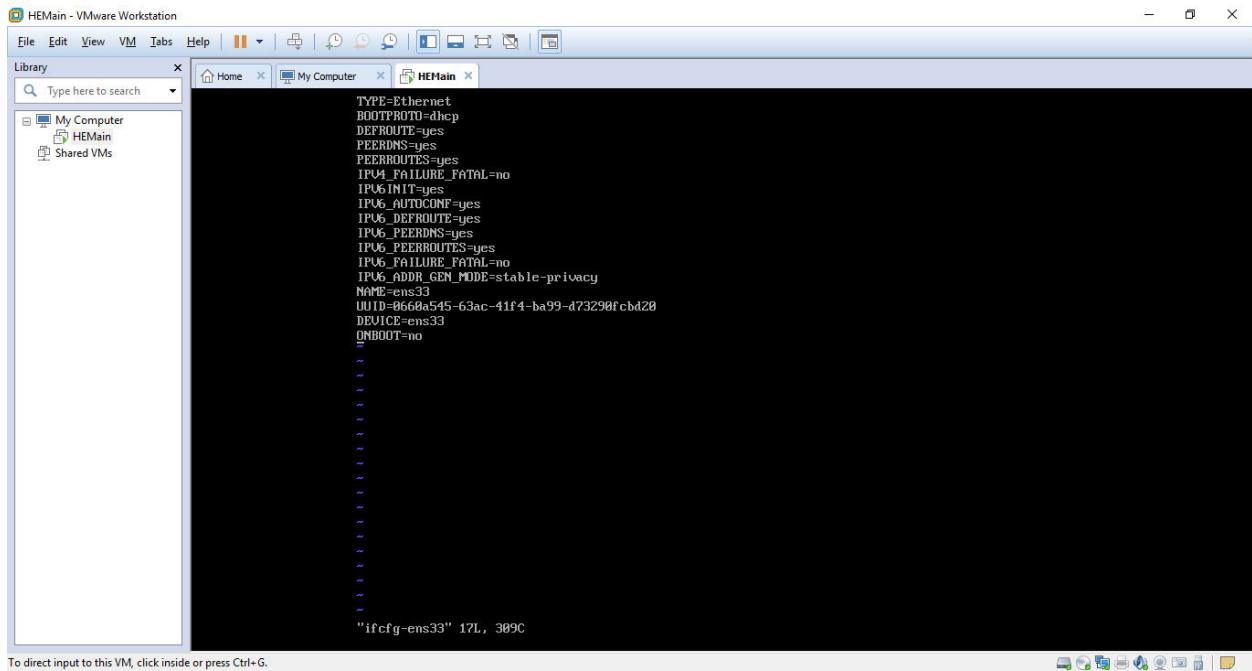
Now go to following path in your VM

/etc/sysconfig/network-scripts

And open below file, using vi editor

ifcfg-ens33

You will see similar to following screen



Now update this file with following values. And whichever currently not needed comment it. (As shown in below screen)

```

BOOTPROTO=static
IPADDR=192.168.239.101 #In your case it would be different
NETMASK=255.255.255.0
    
```

```
#TYPE=Ethernet
BOOTPROTO=static
#DEFROUTE=yes
#PEERDNS=yes
#PEERROUTES=yes
#IPV4_FAILURE_FATAL=no
#IPV6_INIT=yes
#IPV6_AUTOCONF=yes
#IPV6_DEFROUTE=yes
#IPV6_PEERDNS=yes
#IPV6_PEERROUTES=yes
#IPV6_FAILURE_FATAL=no
#IPV6_ADDR_GEN_MODE=stable-privacy
NAME=ens33
UUID=8668a545-63ac-41f4-ba99-d73298fcbd28
DEVICE=ens33
#ONBOOT=no
IPADDR=192.168.239.101
NETMASK=255.255.255.0
```

Commented

Updated/Added

Step 5: Now restart the network

```
service network restart
```

```
NETMASK=255.255.255.0
[root@localhost network-scripts]#
[root@localhost network-scripts]#
[root@localhost network-scripts]#
[root@localhost network-scripts]# service network restart
Restarting network (via systemctl): [ OK ]
[root@localhost network-scripts]#
```

Step 6: Check whether ip address and Gateway assigned or not.

```
ifconfig -a
```

```

"/etc/sysconfig/network-scripts/ifcfg-ens33" 19L, 368C written
[root@localhost ~]#
[root@localhost ~]# service network restart
Restarting network (via systemctl): [ OK ]
[root@localhost ~]# ifconfig -a
ens33: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.239.101 netmask 255.255.255.0 broadcast 192.168.239.255
    inet6 fe80::20c:29ff:fea4:6d78 prefixlen 64 scopeid 0x20<link>
    ether 00:0c:29:a4:6d:78 txqueuelen 1000 (Ethernet)
    RX packets 188 bytes 11656 (11.3 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 10 bytes 768 (768.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1 (Local Loopback)
    RX packets 400 bytes 34792 (33.9 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 400 bytes 34792 (33.9 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

```

Step 7: Now ping the VM from windows command prompt

ping 192.168.239.101

```

Select Command Prompt
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\hadoo>ping 192.168.239.101

Pinging 192.168.239.101 with 32 bytes of data:
Reply from 192.168.239.101: bytes=32 time<1ms TTL=64
Reply from 192.168.239.101: bytes=32 time<1ms TTL=64
Reply from 192.168.239.101: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.239.101:
    Packets: Sent = 3, Received = 3, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
Control-C
^C
C:\Users\hadoo>

C:\Users\hadoo>

```

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