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## NETWORK CONFIGURATION ON LINUX IMAGE

By [www.HadoopExam.com](http://www.HadoopExam.com)

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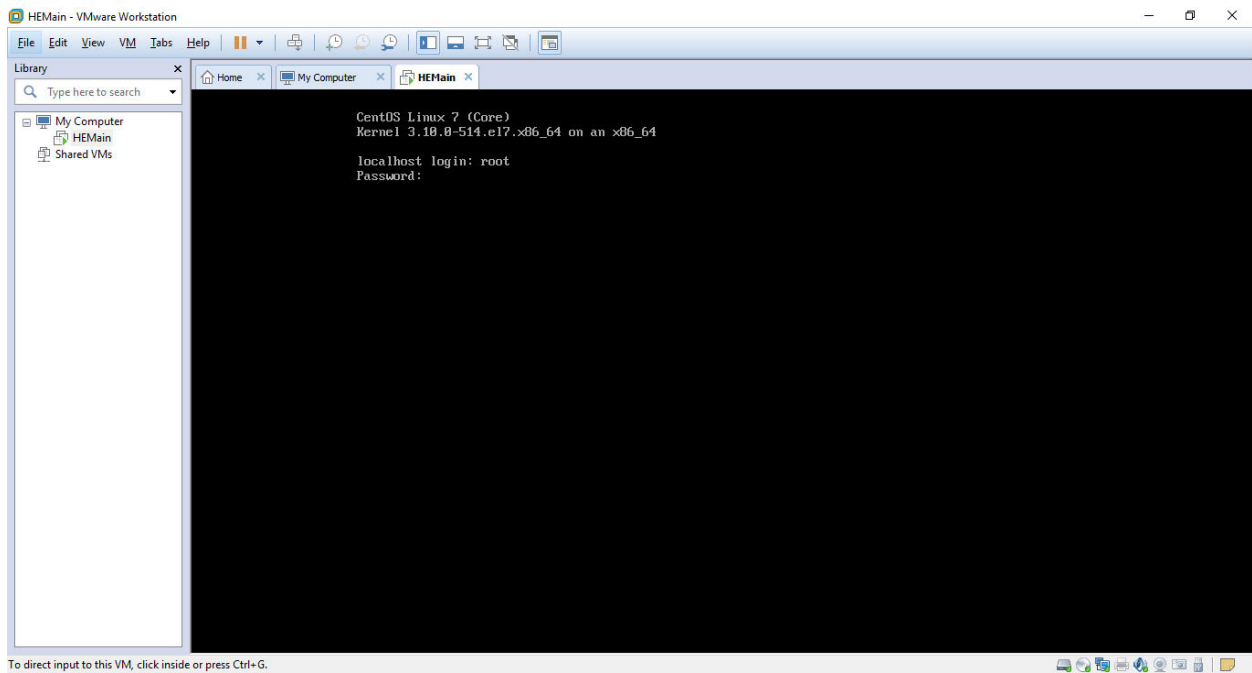
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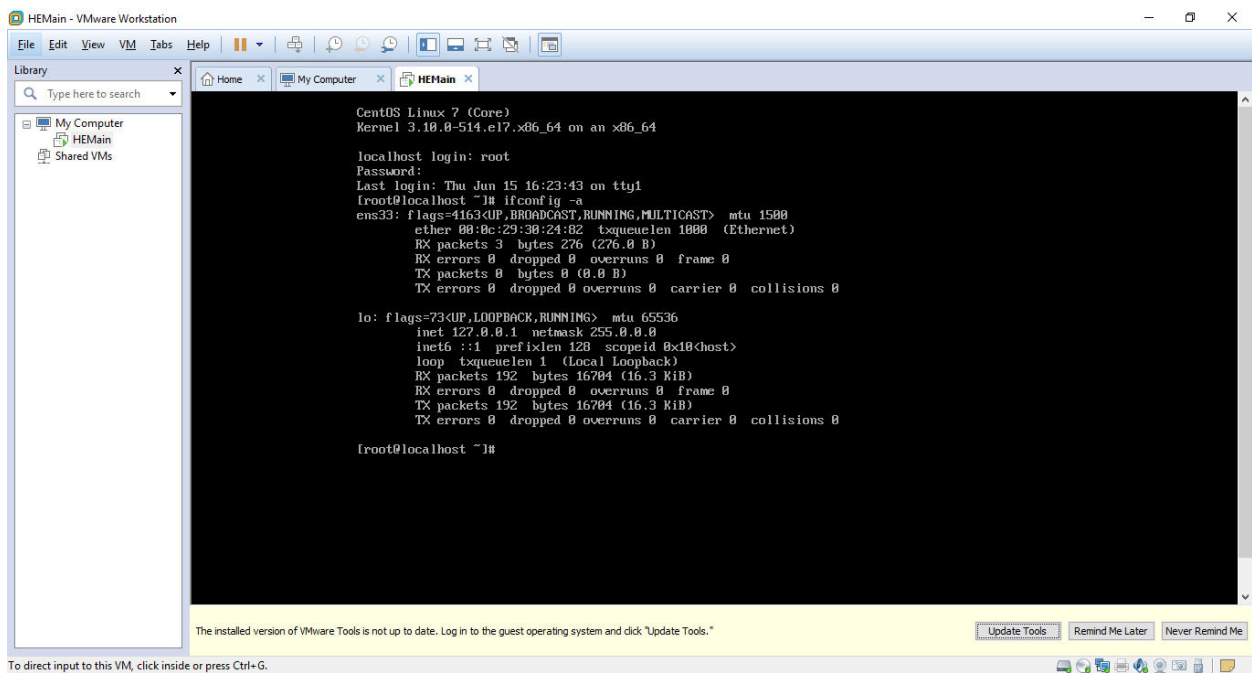
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## Step 1: Start Workstation and VM and login using root/hadoopexam



Step 2: As we have skipped network configuration for OS. Hence, we have to do it now. Type below command to see current configurations

```
ifconfig -a
```



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::ec20:a393:6e72:4c1%15
IPv4 Address. . . . . : 192.168.85.1
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :

Ethernet adapter VMware Network Adapter VMnet8:

Connection-specific DNS Suffix . :
Link-local IPv6 Address . . . . . : fe80::cdd3:f670:a13a:b26d%16
IPv4 Address. . . . . : 192.168.182.1
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :

Wireless LAN adapter Wi-Fi:
```

In this case IP address is (192.168.182.1). Hence, we can consider next ip (**192.168.182.2**) 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=192.168.182.2
```



```
#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=0660a545-63ac-41f4-ba99-d73290fcbd20
DEVICE=ens33
#ONBOOT=no
IPADDR=192.168.182.101
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
```

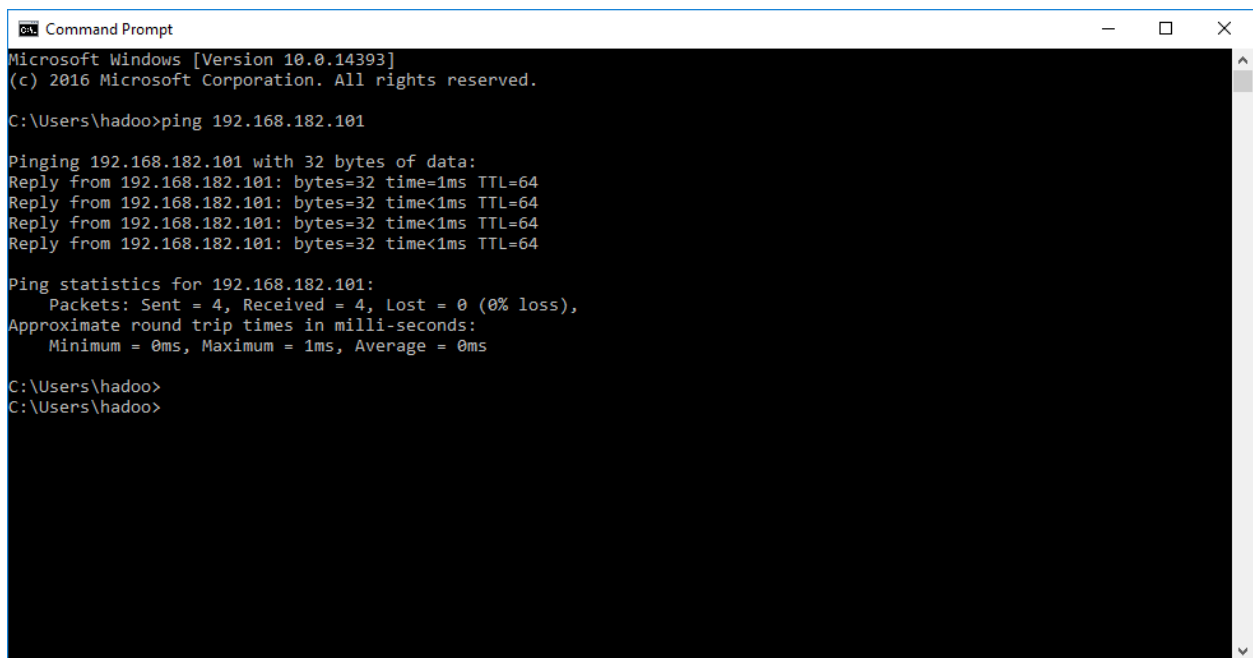
```

root@localhost network-scripts# ifconfig -a
ens33: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.182.101 netmask 255.255.255.0 broadcast 192.168.182.255
    inet6 fe80::20c:29ff:fe30:2482 prefixlen 64 scopeid 0x20<link>
    ether 00:0c:29:30:24:82 txqueuelen 1000 (Ethernet)
    RX packets 21 bytes 3331 (3.2 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 528 bytes 45928 (44.8 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 528 bytes 45928 (44.8 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
    
```

Step 7 : Now ping the VM from windows command prompt

ping 192.168.182.101



```

Command Prompt
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Users\hadoo>ping 192.168.182.101

Pinging 192.168.182.101 with 32 bytes of data:
Reply from 192.168.182.101: bytes=32 time=1ms TTL=64
Reply from 192.168.182.101: bytes=32 time<1ms TTL=64
Reply from 192.168.182.101: bytes=32 time<1ms TTL=64
Reply from 192.168.182.101: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.182.101:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\Users\hadoo>
C:\Users\hadoo>
    
```

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