

## Day-9

```
[root@localhost ~]#  
[root@localhost ~]# hostname  
localhost.localdomain  
[root@localhost ~]#  
[root@localhost ~]# hostnamectl  
    Static hostname: localhost.localdomain  
          Icon name: computer  
        Chassis: n/a  
    Machine ID: 3e3afa0dbc4b4e28bbdaa5300d6db3f5  
      Boot ID: 8ada8c6c355d41b3a121e6cc551b95a3  
  Virtualization: vmware  
Operating System: Red Hat Enterprise Linux Server 7.0  
(Maipo)  
    CPE OS Name:  
cpe:/o:redhat:enterprise_linux:7.0:GA:server  
      Kernel: Linux 3.10.0-123.el7.x86_64  
    Architecture: x86_64  
[root@localhost ~]#  
[root@localhost ~]# hostnamectl    set-hostname  
station1.example.com  
[root@localhost ~]#  
[root@localhost ~]# cat  /etc/hostname  
station1.example.com  
[root@localhost ~]# exit
```

again reopen the command terminal

```
[root@localhost ~]#  
[root@localhost ~]# hostname  
localhost.localdomain  
[root@localhost ~]#  
[root@station1 ~]#
```

## Day-9

```
[root@station1 ~]# ifconfig
eno16777736: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>
mtu 1500
```

```
    inet6 fe80::20c:29ff:fe2b:e5eb  prefixlen 64
scopeid 0x20<link>
```

```
    ether 00:0c:29:2b:e5:eb  txqueuelen 1000
```

(Ethernet)

```
    RX packets 840  bytes 88230 (86.1 KiB)
```

```
    RX errors 0  dropped 0  overruns 0  frame 0
```

```
    TX packets 535  bytes 57007 (55.6 KiB)
```

```
    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 0  (Local Loopback)
```

```
    RX packets 633  bytes 54114 (52.8 KiB)
```

```
    RX errors 0  dropped 0  overruns 0  frame 0
```

```
    TX packets 633  bytes 54114 (52.8 KiB)
```

```
    TX errors 0  dropped 0 overruns 0  carrier 0
```

```
collisions 0
```

```
[root@station1 ~]# nmcli connection show
```

NAME	UUID	TYPE
DEVICE		

eno16777736	3933246e-9c94-4442-af55-70a0e5e28bca	
-------------	--------------------------------------	--

802-3-ethernet	eno16777736	
----------------	-------------	--

```
[root@station1 ~]#
```

```
[root@station1 ~]# nmcli connection delete eno16777736
```

```
[root@station1 ~]#
```

```
[root@station1 ~]# nmcli connection show
```

## Day-9

```
NAME  UUID  TYPE  DEVICE
```

```
[root@station1 ~]#
```

```
[root@station1 ~]#
```

```
[root@station1 ~]# nmcli connection add con-name xyz  
ifname eno16777736 type ethernet autoconnect yes ip4  
192.168.0.1/24
```

```
Connection 'xyz' (2eb1b373-707e-45c1-b302-0ef61382b362)  
successfully added.
```

```
[root@station1 ~]#
```

```
[root@station1 ~]#
```

```
[root@station1 ~]#
```

```
[root@station1 ~]#
```

```
[root@station1 ~]# nmcli connection show
```

```
NAME  UUID  TYPE  
      DEVICE
```

```
xyz    2eb1b373-707e-45c1-b302-0ef61382b362  
802-3-ethernet eno16777736
```

```
[root@station1 ~]#
```

```
[root@station1 ~]# ifconfig
```

```
eno16777736: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  
mtu 1500
```

```
        inet 192.168.0.1 netmask 255.255.255.0
```

```
broadcast 192.168.0.255
```

```
        inet6 fe80::20c:29ff:fe2b:e5eb prefixlen 64
```

```
scopeid 0x20<link>
```

```
        ether 00:0c:29:2b:e5:eb txqueuelen 1000
```

```
(Ethernet)
```

```
        RX packets 1033 bytes 106575 (104.0 KiB)
```

```
        RX errors 0 dropped 0 overruns 0 frame 0
```

```
        TX packets 562 bytes 60906 (59.4 KiB)
```

```
        TX errors 0 dropped 0 overruns 0 carrier 0
```

```
collisions 0
```

## Day-9

```
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 0 (Local Loopback)
    RX packets 633 bytes 54114 (52.8 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 633 bytes 54114 (52.8 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0
collisions 0
```

```
[root@station1 ~]#
[root@station1 ~]# cat /etc/hostname
station1.example.com
[root@station1 ~]#
[root@station1 ~]#
[root@station1 ~]# cat
/etc/sysconfig/network-scripts/ifcfg-xyz
TYPE=Ethernet
BOOTPROTO=none
IPADDR0=192.168.0.1
PREFIX0=24
DEFROUTE=yes
IPV4_FAILURE_FATAL=no
IPV6INIT=yes
IPV6_AUTOCONF=yes
IPV6_DEFROUTE=yes
IPV6_PEERDNS=yes
IPV6_PEERROUTES=yes
IPV6_FAILURE_FATAL=no
NAME=xyz
UUID=2eb1b373-707e-45c1-b302-0ef61382b362
```

## Day-9

DEVICE=eno16777736

ONBOOT=yes

Note:- Now go on second machine and repeat the same commands

change only the hostname and ip values .

how to test the machine, we are in network or not ?

```
[root@station1 ~]# ping 192.168.0.2
PING 192.168.0.2 (192.168.0.2) 56(84) bytes of data.
64 bytes from 192.168.0.2: icmp_seq=1 ttl=64 time=0.195
ms
64 bytes from 192.168.0.2: icmp_seq=2 ttl=64 time=0.569
ms
64 bytes from 192.168.0.2: icmp_seq=3 ttl=64 time=0.540
ms
64 bytes from 192.168.0.2: icmp_seq=4 ttl=64 time=0.566
ms
64 bytes from 192.168.0.2: icmp_seq=5 ttl=64 time=2.88 ms
64 bytes from 192.168.0.2: icmp_seq=6 ttl=64 time=0.534
ms
^C^C
--- 192.168.0.2 ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time
5009ms
rtt min/avg/max/mdev = 0.195/0.881/2.887/0.907 ms
[root@station1 ~]#
```

how to ping any machine with HOSTNAME without using DNS

## Day-9

### Server

```
[root@station1 ~]# vim /etc/hosts
```

```
127.0.0.1    localhost localhost.localdomain localhost4
localhost4.localhostdomain4
::1         localhost localhost.localdomain localhost6
localhost6.localhostdomain6
```

```
192.168.0.1    station1.example.com    machine1
192.168.0.2    station2.example.com    machine2
```

save and quit from this file.

```
[root@station1 ~]# ping station1.example.com
PING station1.example.com (192.168.0.1) 56(84) bytes of
data.
64 bytes from station1.example.com (192.168.0.1):
icmp_seq=1 ttl=64 time=0.083 ms
64 bytes from station1.example.com (192.168.0.1):
icmp_seq=2 ttl=64 time=0.104 ms
^C
--- station1.example.com ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time
1003ms
rtt min/avg/max/mdev = 0.083/0.093/0.104/0.014 ms
[root@station1 ~]#
[root@station1 ~]#
[root@station1 ~]# ping station2.example.com
```

## Day-9

PING station2.example.com (192.168.0.2) 56(84) bytes of data.

64 bytes from station2.example.com (192.168.0.2):

icmp\_seq=1 ttl=64 time=0.235 ms

64 bytes from station2.example.com (192.168.0.2):

icmp\_seq=2 ttl=64 time=0.596 ms

64 bytes from station2.example.com (192.168.0.2):

icmp\_seq=3 ttl=64 time=0.975 ms

64 bytes from station2.example.com (192.168.0.2):

icmp\_seq=4 ttl=64 time=0.574 ms

^C

--- station2.example.com ping statistics ---

4 packets transmitted, 4 received, 0% packet loss, time 3007ms

rtt min/avg/max/mdev = 0.235/0.595/0.975/0.261 ms

[root@station1 ~]#

[root@station1 ~]# ping machine1

PING station1.example.com (192.168.0.1) 56(84) bytes of data.

64 bytes from station1.example.com (192.168.0.1):

icmp\_seq=1 ttl=64 time=0.088 ms

64 bytes from station1.example.com (192.168.0.1):

icmp\_seq=2 ttl=64 time=0.102 ms

64 bytes from station1.example.com (192.168.0.1):

icmp\_seq=3 ttl=64 time=0.102 ms

64 bytes from station1.example.com (192.168.0.1):

icmp\_seq=4 ttl=64 time=0.101 ms

^C

--- station1.example.com ping statistics ---

4 packets transmitted, 4 received, 0% packet loss, time 3007ms

rtt min/avg/max/mdev = 0.088/0.098/0.102/0.009 ms

## Day-9

```
[root@station1 ~]#  
[root@station1 ~]#  
[root@station1 ~]#  
[root@station1 ~]# ping machine2  
PING station2.example.com (192.168.0.2) 56(84) bytes of  
data.  
64 bytes from station2.example.com (192.168.0.2):  
icmp_seq=1 ttl=64 time=0.210 ms  
64 bytes from station2.example.com (192.168.0.2):  
icmp_seq=2 ttl=64 time=0.679 ms  
64 bytes from station2.example.com (192.168.0.2):  
icmp_seq=3 ttl=64 time=0.503 ms  
64 bytes from station2.example.com (192.168.0.2):  
icmp_seq=4 ttl=64 time=0.562 ms  
64 bytes from station2.example.com (192.168.0.2):  
icmp_seq=5 ttl=64 time=0.576 ms  
^C  
--- station2.example.com ping statistics ---  
5 packets transmitted, 5 received, 0% packet loss, time  
4009ms  
rtt min/avg/max/mdev = 0.210/0.506/0.679/0.158 ms  
[root@station1 ~]#  
[root@station1 ~]#  
[root@station1 ~]#  
[root@station1 ~]# hostname -a  
[root@station1 ~]# hostname -a  
machine1  
[root@station1 ~]#  
[root@station1 ~]# hostname -i  
192.168.0.1  
[root@station1 ~]#  
[root@station1 ~]# hostname -d
```



## Day-9

```
example.com
[root@station1 ~]#
[root@station1 ~]# hostname -s
station1
[root@station1 ~]#
[root@station1 ~]# hostname -f
station1.example.com
[root@station1 ~]#
```

go on second machine do the same entry in /etc/hosts file.

test the SSH service to test the connectivity

```
[root@station1 ~]#
[root@station1 ~]# ssh root@192.168.0.2
The authenticity of host '192.168.0.2 (192.168.0.2)'
can't be established.
ECDSA key fingerprint is
e1:e2:bd:c7:60:fd:28:d0:0e:0a:0b:1a:76:1d:20:da.
Are you sure you want to continue connecting (yes/no)?
yes
Warning: Permanently added '192.168.0.2' (ECDSA) to the
list of known hosts.
root@192.168.0.2's password:
Last login: Mon Jun  3 18:01:53 2019
[root@station2 ~]#
[root@station2 ~]#
[root@station2 ~]# exit
logout
```

Day-9

Connection to 192.168.0.2 closed.  
[root@station1 ~]#