



System Setup – C10

(Configuration Settings)



Check & Set Hostname

```
[root@localhost ~]# hostname
localhost.localdomain
[root@localhost ~]#
[root@localhost ~]# dnsdomainname
[root@localhost ~]#
[root@localhost ~]# hostnamectl set-hostname c10.example.com
[root@localhost ~]#
[root@localhost ~]# logout
```

Check Hostname, Domain Name & Hosts File

```
CentOS Linux 7 (Core)
```

```
Kernel 3.10.0-1160.6.1.el7.x86_64 on an x86_64
```

```
c10 login: root
```

```
Password:
```

```
Last login: Fri Jan  8 07:28:31 on tty1
```

```
[root@c10 ~]#
```

```
[root@c10 ~]# hostname
```

```
c10.example.com
```

```
[root@c10 ~]#
```

```
[root@c10 ~]# dnsdomainname
```

```
example.com
```

```
[root@c10 ~]#
```

```
[root@c10 ~]# cat /etc/hosts
```

```
127.0.0.1    localhost localhost.localdomain localhost4 localhost4.localdomain4
```

```
:::1        localhost localhost.localdomain localhost6 localhost6.localdomain6
```

```
[root@c10 ~]#
```

Disable Firewall & NetworkManager

```
[root@c10 ~]# systemctl disable firewalld
[root@c10 ~]#
[root@c10 ~]# systemctl disable NetworkManager
[root@c10 ~]#
```

```
[root@c10 ~]# iptables -F
[root@c10 ~]#
[root@c10 ~]# yum -q install iptables-services
Package iptables-services-1.4.21-35.el7.x86_64 already installed and
[root@c10 ~]#
[root@c10 ~]# iptables -F
[root@c10 ~]#
[root@c10 ~]# service iptables save
iptables: Saving firewall rules to /etc/sysconfig/iptables:[ OK ]
[root@c10 ~]#
```

Change Selinux Policy From Enforcing To Disabled

```
[root@c10 ~]# sestatus
SELinux status:                disabled
[root@c10 ~]#
[root@c10 ~]# cat /etc/sysconfig/selinux

# This file controls the state of SELinux on the system.
# SELINUX= can take one of these three values:
#   enforcing - SELinux security policy is enforced.
#   permissive - SELinux prints warnings instead of enforcing
#   disabled - No SELinux policy is loaded.
SELINUX=disabled
# SELINUXTYPE= can take one of three values:
#   targeted - Targeted processes are protected,
#   minimum - Modification of targeted policy. Only selected |
#   mls - Multi Level Security protection.
SELINUXTYPE=targeted
[root@c10 ~]#
```

Initial Network Adapter Settings, Dynamic IP

Home x master x c10 x c20 x

c10

▶ Power on this virtual machine

🔧 Edit virtual machine settings

▼ Devices

📊 Memory	2 GB
📦 Processors	1
💾 Hard Disk (SCSI)	40 GB
📀 CD/DVD (SATA)	Using file E:\linu...
🌐 Network Adapter	NAT
🔌 USB Controller	Present
🔊 Sound Card	Auto detect
🖨️ Printer	Present
📺 Display	Auto detect

```
[root@c10 ~]# ip a s ens33
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast link/ether 00:0c:29:e2:2d:fb brd ff:ff:ff:ff:ff:ff
    inet 192.168.142.137/24 brd 192.168.142.255 scope global dynamic noprefixroute
        valid_lft 1494sec preferred_lft 1494sec
    inet6 fe80::20c:29ff:fee2:2dfb/64 scope link
        valid_lft forever preferred_lft forever
```

Initial Settings of "ifcfg-ens33" File

```
[root@c10 ~]# cat /etc/sysconfig/network-scripts/ifcfg-ens33
TYPE="Ethernet"
PROXY_METHOD="none"
BROWSER_ONLY="no"
BOOTPROTO="dhcp"
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="ens33"
DEVICE="ens33"
ONBOOT="yes"
[root@c10 ~]#
```

Install wget, elinks, git, curl and lynx Packages

```
[root@c10 ~]# yum -q install wget git elinks curl lynx
Package wget-1.14-18.el7_6.1.x86_64 already installed and latest version
Package git-1.8.3.1-23.el7_8.x86_64 already installed and latest version
Package elinks-0.12-0.37.pre6.el7.0.1.x86_64 already installed and latest version
Package curl-7.29.0-59.el7_9.1.x86_64 already installed and latest version
```

Package	Arch	Version	Repository	Size
Installing:				
lynx	x86_64	2.8.8-0.3.dev15.el7	base	1.4 M
Installing for dependencies:				
centos-indexhtml	noarch	7-9.el7.centos	base	92 k

Transaction Summary

```
Install 1 Package (+1 Dependent package)
```

```
Is this ok [y/d/N]: y
[root@c10 ~]#
```

Install the above packages in quiet mode. Press “y” for confirmation. If already installed, you will get the appropriate message.

Install wget, elinks, git, curl and lynx Packages

```
[root@c10 ~]# yum -q install wget git elinks curl lynx
Package wget-1.14-18.el7_6.1.x86_64 already installed and latest version
Package git-1.8.3.1-23.el7_8.x86_64 already installed and latest version
Package elinks-0.12-0.37.pre6.el7.0.1.x86_64 already installed and latest version
Package curl-7.29.0-59.el7_9.1.x86_64 already installed and latest version
Package lynx-2.8.8-0.3.dev15.el7.x86_64 already installed and latest version
[root@c10 ~]#
[root@c10 ~]# rpm -q elinks
elinks-0.12-0.37.pre6.el7.0.1.x86_64
[root@c10 ~]#
[root@c10 ~]# rpm -q curl
curl-7.29.0-59.el7_9.1.x86_64
[root@c10 ~]#
[root@c10 ~]# rpm -q lynx
lynx-2.8.8-0.3.dev15.el7.x86_64
[root@c10 ~]#
[root@c10 ~]# rpm -q wget
wget-1.14-18.el7_6.1.x86_64
[root@c10 ~]#
[root@c10 ~]# rpm -q git
git-1.8.3.1-23.el7_8.x86_64
[root@c10 ~]#
```

Install the above packages in quiet mode. If already installed, you will get the appropriate message.

Assign Static IP Address

```
[root@c10 ~]# cat /etc/sysconfig/network-scripts/ifcfg-ens33
TYPE="Ethernet"
PROXY_METHOD="none"
BROWSER_ONLY="no"
BOOTPROTO="static"
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="ens33"
DEVICE="ens33"
ONBOOT="yes"
IPADDR=172.24.0.10
NETMASK=255.255.0.0
[root@c10 ~]#
[root@c10 ~]#
[root@c10 ~]# poweroff
```



Assign static IP Address to the system by making appropriate changes in `ifcfg-ens33` file.

Change Network Adapter Setting From “NAT” To “Bridged”



c10

▶ Power on this virtual machine

🔧 Edit virtual machine settings

▼ Devices

🖥️ Memory	2 GB
🖨️ Processors	1
💾 Hard Disk (SCSI)	40 GB
📀 CD/DVD (SATA)	Using file E:\linu...
🌐 Network Adapter	NAT
🔌 USB Controller	Present
🔊 Sound Card	Auto detect
🖨️ Printer	Present
🖥️ Display	Auto detect

Virtual Machine Settings

Hardware Options

Device	Summary
🖥️ Memory	2 GB
🖨️ Processors	1
💾 Hard Disk (SCSI)	40 GB
📀 CD/DVD (SATA)	Using file E:\linux\CentOS-7-x86_64-...
🌐 Network Adapter	NAT
🔌 USB Controller	Present
🔊 Sound Card	Auto detect
🖨️ Printer	Present
🖥️ Display	Auto detect

Device status

- Connected
- Connect at power on

Network connection

- Bridged: Connected directly to the physical network
 - Replicate physical network connection state
- NAT: Used to share the host's IP address
- Host-only: A private network shared with the host

Change network adapter setting from “NAT” to “Bridged”.

Check Network Adapter Setting, Static IP & Hosts File

Home x master x c10 x c20 x

c10

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▼ Devices

🖥️ Memory	2 GB
🧠 Processors	1
💾 Hard Disk (SCSI)	40 GB
📀 CD/DVD (SATA)	Using file E:\linu...
🌐 Network Adapter	Bridged (Autom...
🔌 USB Controller	Present
🔊 Sound Card	Auto detect
🖨️ Printer	Present
🖥️ Display	Auto detect

```
[root@c10 ~]# ip a s ens33
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP
    link/ether 00:0c:29:e2:2d:fb brd ff:ff:ff:ff:ff:ff
    inet 172.24.0.10/16 brd 172.24.255.255 scope global ens33
        valid_lft forever preferred_lft forever
    inet6 fe80::20c:29ff:fee2:2dfb/64 scope link
        valid_lft forever preferred_lft forever
[root@c10 ~]#
[root@c10 ~]# cat /etc/hosts
127.0.0.1    localhost localhost.localdomain localhost4 localhost4.localdomain4
::1        localhost localhost.localdomain localhost6 localhost6.localdomain6
172.24.0.10 c10.example.com c10
[root@c10 ~]#
```