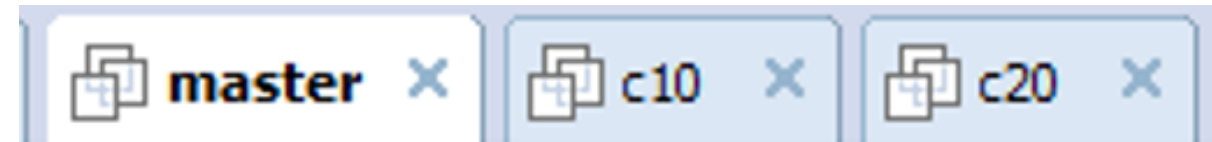


System Setup - Master

(Configuration Settings)



Check & Set Hostname

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

Check Hostname, Domain Name & hosts File

```
[root@master ~]# hostname
master.example.com
[root@master ~]#
[root@master ~]# dnsdomainname
example.com
[root@master ~]#
[root@master ~]# cat /etc/hosts
127.0.0.1    localhost localhost.localdomain localhost4 localhost4.localdomain4
::1         localhost localhost.localdomain localhost6 localhost6.localdomain6
[root@master ~]#
```

Disable Firewall & NetworkManager

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

Change Selinux Policy From Enforcing To Disabled

```
[root@master ~]# 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@master ~]#
```

Initial Network Adapter Settings, Dynamic IP, Selinux Status



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

```
[root@master ~]# ip a s ens33
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc p
    link/ether 00:0c:29:ac:38:ef brd ff:ff:ff:ff:ff:ff
    inet 192.168.142.140/24 brd 192.168.142.255 scope global
        valid_lft 1274sec preferred_lft 1274sec
    inet6 fe80::20c:29ff:feac:38ef/64 scope link
        valid_lft forever preferred_lft forever
[root@master ~]#
[root@master ~]# sestatus
SELinux status:                disabled
```

Initial Settings of "ifcfg-ens33" File

```
[root@master ~]# 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@master ~]#
```

Install httpd Package

```
[root@master ~]# yum -q install httpd
```

Package	Arch	Version	Repository	Size
Installing:				
httpd	x86_64	2.4.6-97.el7.centos	updates	2.7 M
Installing for dependencies:				
apr	x86_64	1.4.8-7.el7	base	104 k
apr-util	x86_64	1.5.2-6.el7	base	92 k
httpd-tools	x86_64	2.4.6-97.el7.centos	updates	93 k
mailcap	noarch	2.1.41-2.el7	base	31 k

Transaction Summary

```
Install 1 Package (+4 Dependent packages)
```

```
Is this ok [y/d/N]: y
```

```
[root@master ~]#
```

```
[root@master ~]#
```

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

Install httpd Package

```
[root@master ~]# yum -q install httpd
Package httpd-2.4.6-97.el7.centos.x86_64 already installed and latest version
[root@master ~]#
[root@master ~]# rpm -q httpd
httpd-2.4.6-97.el7.centos.x86_64
[root@master ~]#
```

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

Install openssl, mod_ssl Packages

```
[root@master ~]# yum -q install openssl mod_ssl
```

```
=====
Package                Arch                Version                Repository            Size
=====
Installing:
mod_ssl                 x86_64              1:2.4.6-97.el7.centos updates               114 k
Updating:
openssl                x86_64              1:1.0.2k-21.el7_9     updates               493 k
Updating for dependencies:
openssl-libs           x86_64              1:1.0.2k-21.el7_9     updates               1.2 M
=====
```

Transaction Summary

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

```
Is this ok [y/d/N]: y
Delta RPMs disabled because /usr/bin/applydeltarpm not installed.
[root@master ~]#
```

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

Install openssl, mod_ssl Packages

```
[root@master ~]# yum -q install openssl mod_ssl
Package 1:openssl-1.0.2k-21.el7_9.x86_64 already installed and latest version
Package 1:mod_ssl-2.4.6-97.el7.centos.x86_64 already installed and latest version
[root@master ~]#
[root@master ~]# rpm -q openssl
openssl-1.0.2k-21.el7_9.x86_64
[root@master ~]#
[root@master ~]# rpm -q mod_ssl
mod_ssl-2.4.6-97.el7.centos.x86_64
[root@master ~]#
```

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

Install wget, elinks, git, curl, lynx and tree Packages

```
[root@master ~]# yum -q install wget elinks git curl lynx tree
Package wget-1.14-18.el7_6.1.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 git-1.8.3.1-23.el7_8.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
tree                    x86_64              1.6.0-10.el7          base                   46 k
Installing for dependencies:
centos-indexhtml       noarch              7-9.el7.centos        base                   92 k
=====
```

Transaction Summary

```
=====
Install 2 Packages (+1 Dependent package)
```

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

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, lynx and tree Packages

```
[root@master ~]# yum -q install wget elinks git curl lynx tree
Package wget-1.14-18.el7_6.1.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 git-1.8.3.1-23.el7_8.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
Package tree-1.6.0-10.el7.x86_64 already installed and latest version
[root@master ~]#
[root@master ~]# rpm -q elinks
elinks-0.12-0.37.pre6.el7.0.1.x86_64
[root@master ~]#
[root@master ~]# rpm -q curl
curl-7.29.0-59.el7_9.1.x86_64
[root@master ~]#
[root@master ~]# rpm -q lynx
lynx-2.8.8-0.3.dev15.el7.x86_64
[root@master ~]#
[root@master ~]# rpm -q tree
tree-1.6.0-10.el7.x86_64
[root@master ~]#
[root@master ~]# rpm -q git
git-1.8.3.1-23.el7_8.x86_64
[root@master ~]#
[root@master ~]# rpm -q wget
wget-1.14-18.el7_6.1.x86_64
[root@master ~]#
```

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

Install mariadb-server, mariadb Packages

```
[root@master ~]# yum -q install mariadb-server mariadb
```

Package	Arch	Version	Repository	Size
Installing:				
mariadb	x86_64	1:5.5.68-1.el7	base	8.8 M
mariadb-server	x86_64	1:5.5.68-1.el7	base	11 M
Installing for dependencies:				
perl-Compress-Raw-Bzip2	x86_64	2.061-3.el7	base	32 k
perl-Compress-Raw-Zlib	x86_64	1:2.061-4.el7	base	57 k
perl-DBD-MySQL	x86_64	4.023-6.el7	base	140 k
perl-DBI	x86_64	1.627-4.el7	base	802 k
perl-Data-Dumper	x86_64	2.145-3.el7	base	47 k
perl-IO-Compress	noarch	2.061-2.el7	base	260 k
perl-Net-Daemon	noarch	0.48-5.el7	base	51 k
perl-PIRPC	noarch	0.2020-14.el7	base	36 k

Transaction Summary

```
Install 2 Packages (+8 Dependent packages)
```

```
Is this ok [y/d/N]: y
```

```
[root@master ~]#
```

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

Install mariadb-server, mariadb Packages

```
[root@master ~]# yum -q install mariadb-server mariadb
Package 1:mariadb-server-5.5.68-1.el7.x86_64 already installed and latest version
Package 1:mariadb-5.5.68-1.el7.x86_64 already installed and latest version
[root@master ~]#
[root@master ~]# rpm -q mariadb-server
mariadb-server-5.5.68-1.el7.x86_64
[root@master ~]#
[root@master ~]# rpm -q mariadb
mariadb-5.5.68-1.el7.x86_64
[root@master ~]#
```

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

Install php, php-mysql Packages

```
[root@master ~]# yum -q install php php-mysql
```

Package	Arch	Version	Repository	Size
Installing:				
php	x86_64	5.4.16-48.el7	base	1.4 M
php-mysql	x86_64	5.4.16-48.el7	base	102 k
Installing for dependencies:				
libzip	x86_64	0.10.1-8.el7	base	48 k
php-cli	x86_64	5.4.16-48.el7	base	2.7 M
php-common	x86_64	5.4.16-48.el7	base	565 k
php-pdo	x86_64	5.4.16-48.el7	base	99 k

Transaction Summary

```
Install 2 Packages (+4 Dependent packages)
```

```
Is this ok [y/d/N]: y
```

```
[root@master ~]#
```

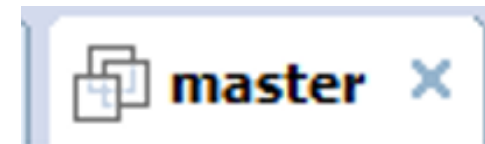
Install the above packages in quiet mode. Press “y” for confirmation. If already installed, you will get the appropriate message.

Install php, php-mysql Packages

```
[root@master ~]# yum -q install php php-mysql
Package php-5.4.16-48.el7.x86_64 already installed and latest version
Package php-mysql-5.4.16-48.el7.x86_64 already installed and latest version
[root@master ~]#
[root@master ~]# rpm -q php
php-5.4.16-48.el7.x86_64
[root@master ~]#
[root@master ~]# rpm -q php-mysql
php-mysql-5.4.16-48.el7.x86_64
[root@master ~]#
```

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

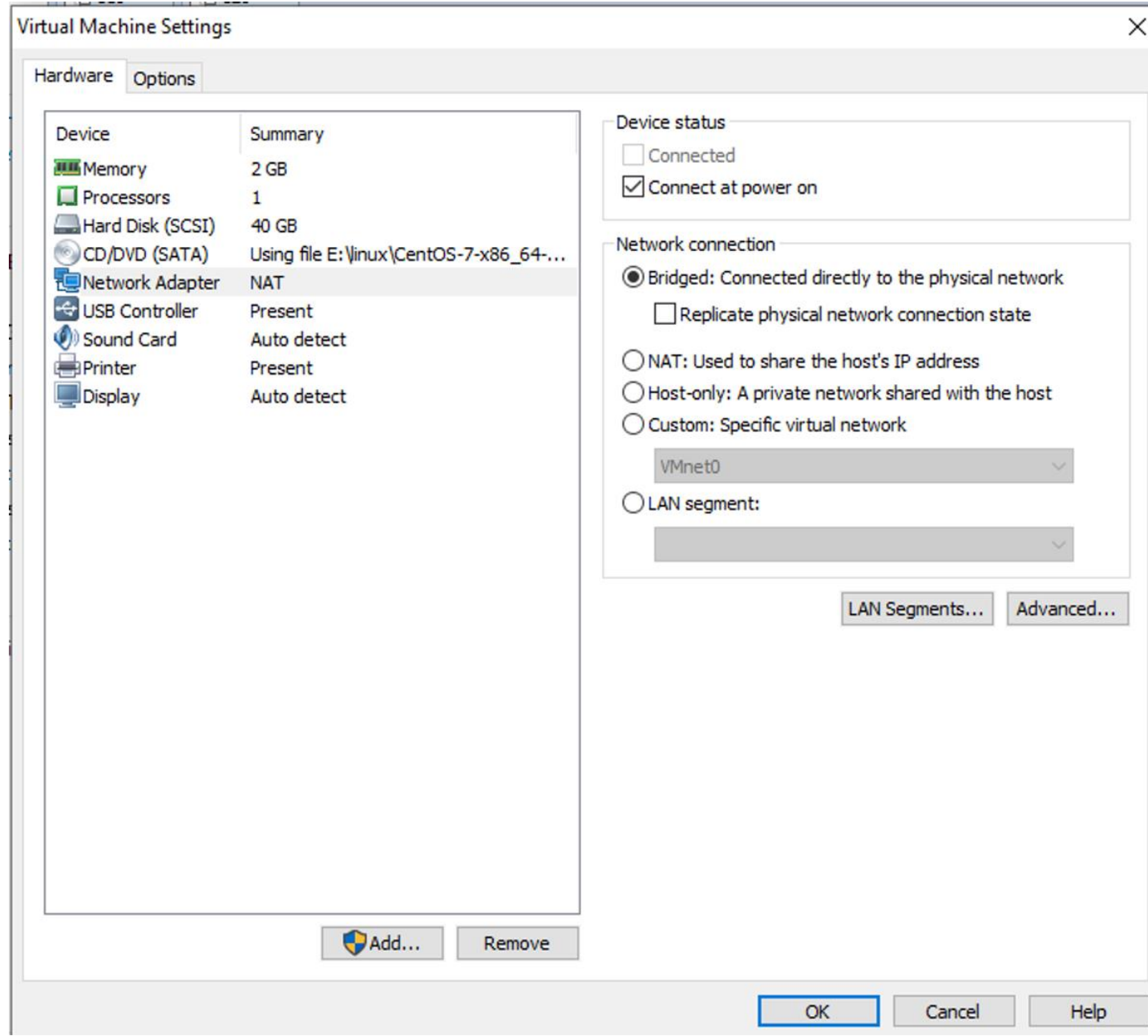
Assign Static IP Address



```
[root@master ~]# 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=172.24.0.1
NETMASK=255.255.0.0
[root@master ~]#
```

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

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



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

Check Network Adapter Setting, Static IP & Hosts File

Home × master × c10 × c20 ×

master

- ▶ 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	Bridged (Autom...
🔌 USB Controller	Present
🔊 Sound Card	Auto detect
🖨️ Printer	Present
🖥️ Display	Auto detect

```
[root@master ~]# ip a s ens33
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP
    link/ether 00:0c:29:ac:38:ef brd ff:ff:ff:ff:ff:ff
    inet 172.24.0.1/16 brd 172.24.255.255 scope global ens33
        valid_lft forever preferred_lft forever
    inet6 fe80::20c:29ff:feac:38ef/64 scope link
        valid_lft forever preferred_lft forever

[root@master ~]#
[root@master ~]# cat /etc/hosts
127.0.0.1    localhost localhost.localdomain localhost4 localhost4.localdomain4
::1        localhost localhost.localdomain localhost6 localhost6.localdomain6
172.24.0.1  master.example.com master

[root@master ~]#
```