

/etc/Resolve.conf in all servers except machinea:

```
search dundermifflin.com
nameserver 100.64.25.4
```

To setup DHCP and networking::::::::::

machinea in /etc/sysconfig/network-scripts/ifcfg-ens192:

```
DEVICE=ens192
BOOTPROTO=none
ONBOOT=yes
TYPE=Ethernet
GATEWAY=100.64.0.254
NETMASK=255.255.255.0
IPADDR=100.64.0.25
NM_CONTROLLED=no
```

rest of the machines /etc/sysconfig/network-scripts/ifcfg-ens192:

```
DEVICE=ens192
BOOTPROTO=dhcp
ONBOOT=yes
TYPE=Ethernet
NETWORKING=yes
```

machinea /etc/dhcp/dhcpd.conf:

```
subnet 100.64.25.0 netmask 255.255.255.0
{
    option routers 100.64.25.1;
    option domain-name-servers 100.64.25.1;
}
subnet 10.21.32.0 netmask 255.255.255.0
{
    option domain-name-servers 10.21.32.1;
    option routers 10.21.32.1;
}

host machineb-client {
    option host-name "carriage.dundermifflin.com";
    hardware ethernet 00:50:56:b4:24:f7;
    fixed-address 100.64.25.2;
}

host machinec-client {
    option host-name "platen.dundermifflin.com";
    hardware ethernet 00:50:56:b4:d4:93;
    fixed-address 100.64.25.3;
}
```

```

host machined-client {
    option host-name "chase.dundermifflin.com";
    hardware ethernet 00:50:56:b4:f2:42;
    fixed-address 100.64.25.4;
}

host machinee-client {
    option host-name "roller.dundermifflin.com";
    hardware ethernet 00:50:56:b4:ff:62;
    fixed-address 10.21.32.2;
}

host machinef-client {
    option host-name "saddle.dundermifflin.com";
    hardware ethernet 00:50:56:b4:76:69;
    fixed-address 100.64.25.5;
}

```

To setup nameserver:::~::~:

machined in /etc/named.conf:

```

options {
    listen-on { 127.0.0.1; 100.64.25.4; };
    listen-on-v6 port 53 { ::1; };
    directory "/var/named";
    dump-file "/var/named/data/cache_dump.db";
    statistics-file "/var/named/data/named_stats.txt";
    memstatistics-file "/var/named/data/named_mem_stats.txt";
    allow-query { localhost; 100.64.25.2/24; 100.64.25.4/24;
100.64.25.5/24; 10.21.32.2/24; 100.64.0.25/24; 100.64.25.3/24; };

    recursion yes;

    dnssec-enable yes;
    dnssec-validation yes;

    /* Path to ISC DLV key */
    bindkeys-file "/etc/named.iscdlv.key";

    managed-keys-directory "/var/named/dynamic";

    pid-file "/run/named/named.pid";
    session-keyfile "/run/named/session.key";
};

logging {
    channel default_debug {
        file "data/named.run";
        severity dynamic;
    };
};

zone "." IN {
    type hint;
    file "named.ca";
};

```

```

zone "dundermifflin.com." {
    type master;
    file "dundermifflin.com";
};

include "/etc/named.rfc1912.zones";
include "/etc/named.root.key";

###machined inside /var/named/dundermifflin.com

$TTL 15m
dundermifflin.com. 1D IN SOA ns1.dundermifflin.com.
hostmaster.dundermifflin.com. (
    2014102801 ; serial
    3H ; time-to-refresh
    15 ; time-to-retry
    1w ; time-to-expire
    3h ; minimum-TTL
)

ns1.dundermifflin.com.      IN      NS      ns1.dundermifflin.com.
                           IN      A       100.64.25.4
chase.dundermifflin.com.   1H      IN      A       100.64.25.4
router.dundermifflin.com.  1H      IN      A       100.64.0.25
carriage.dundermifflin.com. 1H      IN      A       100.64.25.2
platen.dundermifflin.com.  1H      IN      A       100.64.25.3
roller.dundermifflin.com.  1H      IN      A       10.21.32.2
saddle.dundermifflin.com.  1H      IN      A       100.64.25.5
machinea.dundermifflin.com. 1W      IN      CNAME    router.dundermifflin.com.
machineb.dundermifflin.com. 1W      IN      CNAME
carriage.dundermifflin.com.
machinec.dundermifflin.com. 1W      IN      CNAME    platen.dundermifflin.com.
machined.dundermifflin.com. 1W      IN      CNAME    chase.dundermifflin.com.
machinee.dundermifflin.com. 1W      IN      CNAME    roller.dundermifflin.com.
machinef.dundermifflin.com. 1W      IN      CNAME    saddle.dundermifflin.com.
dundermifflin.com.        5M      IN      CNAME    carriage.dundermifflin.com
www.dundermifflin.com.    5M      IN      CNAME    carriage.dundermifflin.com
www2.dundermifflin.com.   5M      IN      CNAME    saddle.dundermifflin.com.
ftp.dundermifflin.com.    5M      IN      CNAME    platen.dundermifflin.com.
files.dundermifflin.com.  1W      IN      CNAME    roller.dundermifflin.com.

```

4. Set up a network interface for machinef:

Started sshd daemon on machinef.
created a new network interface ifcfg-ens192:
DEVICE=ens192
BOOTPROTO=dhcp
ONBOOT=yes
TYPE=Ethernet
NETWORKING=yes

5.

ran the puppet script from lab3 to add th usernames and groups and other configurations
Created a new group http_admins:
groupadd http_admins
Added users:

```
gpasswd -M apache,ekarimi,pbeesly,k Kapoor,abernard,mscott,dschrute http_admins
```

```
Changed group owner of /var/www/dundermifflin:  
chgrp http_admins /var/www/dundermifflin
```

```
setgid for /var/www/dundermifflin:
```

```
Added "%http_admins ALL=/sbin/service httpd restart" to visudo in machine B
```

```
crontab -e:  
*/10 * * * * rsync -av /var/www root@100.64.25.5:/var/. (running every 10 mintues)
```

```
Added to /etc/security/access.conf: + : root : cron crond : ALL
```

```
to setup ssh with key pair instead of password:
```

```
on machineb:
```

```
ssh-keygen
```

```
ssh-copy-id -i /root/.ssh/id_rsa.pub root@100.64.25.5
```