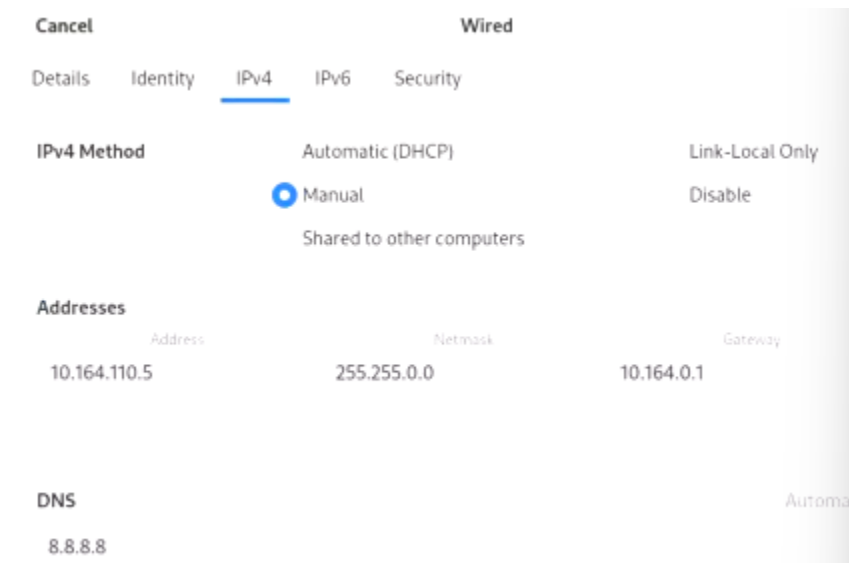Configure it
1.   Hostname and IP addressing


```
root@fedora10:~# hostname
fedora10
```

2.   Install bind sendmail dovecot ssh apache

```
dnf install sendmail
dnf install dovecont
dnf install dovecot
dnf install bind
dnf install openssh-server
dnf install httpd
```

```
dnf install sendmail-cf
```

3.   Configure bind for 2 domains

        configure 2 domains one in webmin and one from the command line

```
   13  curl -o webmin-setup-repos.sh https://raw.githubusercontent.com/webmin/we
bmin/master/webmin-setup-repos.sh
   14  sh webmin-setup-repos.sh
   15  dnf install webmin usermin
   16  sh webmin-setup-repos.sh
```

```
listen-on port 53 { 10.164.110.5; };
listen-on-v6 port 53 { ::1; };
directory   "/var/named";
dump-file   "/var/named/data/cache_du
statistics-file "/var/named/data/nam
memstatistics-file "/var/named/data/
secroots-file   "/var/named/data/nam
recursing-file  "/var/named/data/nam
allow-query     { any; };

/*
 - If you are building an AUTHORITAT
 - If you are building a RECURSIVE (
   recursion.
 - If your recursive DNS server has
   control to limit queries to your
   cause your server to become part
   attacks. Implementing BCP38 withi
   reduce such attack surface
*/
recursion yes;

dnssec-validation no;
```

```
root@fedora10:~# systemctl enable named
Created symlink '/etc/systemd/system/mul
usr/lib/systemd/system/named.service'.
root@fedora10:~# systemctl start named
root@fedora10:~# systemctl status named
```

DNS

10.164.110.5

← ☆ **Address Records**

In final10z.com

Add Address Record

Name   **Address**

Time-To-Live   **Update reverse?**
• Default   seconds ▼   • Yes   Yes (a

⊕ Create

Show records matching: **Q Search**

☑ Select all   ⛶ Invert selection

Name	TTL
fedora10.final10z.com.	3600
final10z.com.	3600
www.final10z.com.	3600

☆ Name Alias Records
In final10z.com

Add Name Alias Record

Name   **Real Name**

Time-To-Live
- Default   seconds ▾

⊕ Create

Show records matching: 🔍 Search

☑ Select all   ↩ Invert selection

Name	TTL
ftp.final10z.com	3600

☆ Mail Server Records
In final10z.com

Add Mail Server Record

Name   **Mail Server**

Time-To-Live   **Priority**
- Default   seconds ▾

⊕ Create

Show records matching: 🔍 Search

☑ Select all   ↩ Invert selection

Name	TTL	Priority
final10z.com.	3600	5

☆ Forwarding and Transfers

Global forwarding and zone transfer option

Servers to forward queries to

IP address	Port
10.164.131.1	• Default

```
root@fedora10:~# systemctl disable firewalld
Removed '/etc/systemd/system/dbus-org.fedorap
Removed '/etc/systemd/system/multi-user.target
^[[Aroot@fedora10:~# systemctl stop firewalld
```

☆ Zone Options

final10z.com

Zone Options

Check names?
Warn   Fail   Ignore • Default

Notify slaves of changes?
Yes   No   explicit • Default

Allow updates from..

Allow transfers from..

10.164.131.1

Allow queries from..

any

A⁺ ☆   ⫐   ⫖

☆ Edit Slave Zone

Last transferred : 01/15/2025 09:53 AM

final10z.com

Type	Records	Type	Records
Address	3	Reverse Address	0
Name Server	1	Location	0
Name Alias	1	Service Address	0
Mail Server	1	Public Key	0
Host Information	0	SSL Certificate	0
Text	0	SSH Public Key	0
Sender Permitted From	0	Certificate Authority	0
DMARC	0	Name Authority	0
Well Known Service	0	DNSSEC Parameters	0
Responsible Person	0	IPv6 Address	0

```
                    root@fedora10:/etc — /usr/libexec/vi named.conf         ::  ≡  ×

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

zone "final10z.com" {
        type master;
        file "/var/named/final10z.com.hosts";
        allow-transfer {
                10.164.131.1;
                };
        allow-query {
                any;
                };
        };
zone "final10z.ca" {
        type master;
        file "var/named/final10z.ca.hosts";
        allow-transfer {
                10.164.131.1
                };
        allow-query {
                any;
                };
        };
-- INSERT --                                            82,4-11        Bot
```

```
root@fedora10:/var/named# cp final10z.com.hosts final10z.ca.hosts
root@fedora10:/var/named# vi final10z.ca.hosts
```

```
                root@fedora10:/var/named — /usr/libexec/vi final10z.ca.hosts    ::  ≡  *

$ttl 3600
final10z.ca.    IN      SOA     fedora10. fedora10.final10z.ca (
                        2025011505
                        3600
                        600
                        1209600
                        3600 )
final10z.ca.    IN      NS      fedora10.
fedora10.final10z.ca.   IN      A       10.164.110.5
final10z.ca.    IN      A       10.164.110.5
www.final10z.ca.        IN      A       10.164.110.5
ftp.final10z.ca.        IN      CNAME   final10z.ca
final10z.ca.    IN      MX      5 final10z.ca
```

4.   Configure sendmail for 2 domains

```
dnl ## DAEMON_OPTIONS(`Port=smtp,Addr=127.0.0.1, Name=MTA')dnl
```

```
Connect:localhost.localdomain           RELAY
Connect:localhost                       RELAY
Connect:127.0.0.1                       RELAY
Connect:10.164                          RELAY
Connect:fedora10.final10z.com           RELAY
Connect:final10z.com                    RELAY
Connect:final10z.ca                     RELAY
```

```
# local-host-names - include all aliases for your machine here.
fedora10.final10z.com
final10z.com
final10z.ca
```

```
root@fedora10:/etc/mail# make -C /etc/mail
```

```
fedora10.com
```

```
root@fedora10:/etc/mail# systemctl enable sendmail
```

```
root@fedora10:/etc/mail# systemctl start sendmail
root@fedora10:/etc/mail# systemctl status sendmail
```

```
root@fedora10:/etc/mail# alpine
```

5.   Configure dovecot for 2 domains. You can use existing Windows Vm for testing.

```
#   mail_location = maildir:~/Maildir
    mail_location = mbox:~/mail:INBOX=/var/mail/%u
#   mail_location = mbox:/var/mail/%d/%1n/%n:INDEX=/var/indexes/%d/%1n/%n
```

```
root@fedora10:/etc/dovecot/conf.d# systemctl enable dovecot
Created symlink '/etc/systemd/system/multi-user.target.wants/dovecot.service' → '/usr
/lib/systemd/system/dovecot.service'.
^[[Aroot@fedora10:/etc/dovecot/conf.d# systemctl start dovecot
^[[Aroot@fedora10:/etc/dovecot/conf.d# systemctl status   dovecot
```

```
root@fedora10:/etc/dovecot/conf.d# useradd asmith
root@fedora10:/etc/dovecot/conf.d# passwd asmith
```

Add Account   ×

POP and IMAP Account Settings
    Enter the mail server settings for your account.   Internet E-mail Settings   ×

                                                            General   Outgoing Server   Advanced
User Information
                                                            Server Port Numbers
Your Name: asmith
                                                            Incoming server (POP3):   995   Use Defaults
Email Address: asmith@final10z.com
                                                              ☑ This server requires an encrypted connection (SSL)
Server Information
                                                            Outgoing server (SMTP):   25
Account Type: POP3   ▼
                                                            Use the following type of encrypted connection: None   ▼
Incoming mail server: 10.164.110.5
                                                            Server Timeouts
Outgoing mail server (SMTP): 10.164.110.5   Short ●   Long 1 minute

Logon Information   Delivery

User Name: asmith   ☑ Leave a copy of messages on the server
                                                               ☑ Remove from server after   14 ⬍ days
Password:
                                                               ☐ Remove from server when deleted from 'Deleted Items'
            ☑ Remember password

☑ Require logon using Secure Password Authentication
    (SPA)

```
root@fedora10:/etc/dovecot/conf.d# cd /var/spool/mail
root@fedora10:/var/spool/mail# chmod 600 *
```

Test Account Settings

Congratulations! All tests completed successfully. Click Close to   Stop
continue.
                                                                     Close

Tasks   Errors

Tasks	Status
✓ Log onto incoming mail server (POP3)	Completed
✓ Send test e-mail message	Completed

6.   Configure apache for 2 domains

```
root@fedora10:/home# cd /etc/skel
root@fedora10:/etc/skel# mkdir public_html
```

```
root@fedora10:/var/spool/mail# cd /etc/httpd/conf.d
root@fedora10:/etc/httpd/conf.d# vi host.conf
```

```
NameVirtualHost 10.164.110.5
<VirtualHost 10.164.110.5>
ServerName www.final10z.com
ServerAlias final10z.com
DocumentRoot /home/www.final10z.com/public_html
</VirtualHost>
NameVirtualHost 10.164.110.5
<VirtualHost 10.164.110.5>
ServerName www.final10z.ca
ServerAlias final10z.ca
DocumentRoot /home/www.final10z.ca/public_html
</VirtualHost>
```

```
root@fedora10:/etc/httpd/conf.d# systemctl enable httpd
```

```
root@fedora10:/etc/httpd/conf.d# systemctl start httpd
root@fedora10:/etc/httpd/conf.d# systemctl status httpd
```

```
root@fedora10:/etc/httpd/conf.d# dnf install lynx
```

```
root@fedora10:/home# useradd www.final10z.com
root@fedora10:/home# passwd www.final10z.com
```

```
root@fedora10:/home# useradd www.final10z.ca
root@fedora10:/home# passwd www.final10z.ca
```

```
root@fedora10:/home/www.final10z.com/public_html# su www.final10z.com
```

```
www.final10z.com@fedora10:~/public_html$ vi index_html
```

```
⊞        www.final10z.com@fedora10:~/public_html — /usr/libexec/vi index_html

Welcome to www.final10z.com
```

```
root@fedora10:/home/www.final10z.ca/public_html# su www.final10z.ca
www.final10z.ca@fedora10:~/public_html$ vi index_html
```

```
Welcome to www.final10z.ca
```

```
root@fedora10:~# cd /home
root@fedora10:/home# chmod 751 www.final*
```

```
root@fedora10:/home# cd /etc/selinux
root@fedora10:/etc/selinux# vi config
```

```
SELINUX=disabled
```

7.   Configure sshusers group www.fed1.com www.fed1.ca (no changing of the port)

```
root@fedora10:/etc/selinux# systemctl enable sshd
Created symlink '/etc/systemd/system/multi-user.ta
b/systemd/system/sshd.service'.
root@fedora10:/etc/selinux# systemctl start sshd
```

```
root@fedora10:/etc/selinux# groupadd sshusers
```

```
root@fedora10:/etc/selinux# usermod -a -G sshusers www.final10z.com
root@fedora10:/etc/selinux# usermod -a -G sshusers www.final10z.ca
```

```
⊞            root@fedora10:/etc/ssh — /usr/libexec/vi sshd_config

#ClientAliveInterval 0
#ClientAliveCountMax 3
#UseDNS no
#PidFile /var/run/sshd.pid
#MaxStartups 10:30:100
#PermitTunnel no
#ChrootDirectory none
#VersionAddendum none

# no default banner path
#Banner none

# override default of no subsystems
Subsystem       sftp    /usr/libexec/openssh/sftp-server

# Example of overriding settings on a per-user basis
#Match User anoncvs
#       X11Forwarding no
#       AllowTcpForwarding no
#       PermitTTY no
#       ForceCommand cvs server
AllowGroups sshusers
```

```
root@fedora10:/etc/ssh# su www.final10z.com
www.final10z.com@fedora10:/etc/ssh$ ssh 10.164.110.5
```

```
root@fedora10:/etc/ssh# su www.final10z.ca
www.final10z.ca@fedora10:/etc/ssh$ ssh 10.164.110.5
```