

VIRTUAL HOSTING

Virtual Hosting is used to host multiple websites on a single machine with one or more public IP address, we have to configure virtual hosting in the configuration file /etc/httpd/conf/httpd.conf.

There are three types of Virtual Hostinu

- 1) Name Based
- 2) IP Based
- 3) Port Based

1) Name Based

On a single system on one public IP, we can host more than one website with different names. This is called name based Virtual Hosting.

2) IP Based :

On a single machine using more than one public IP address, we can host a website one per IP address. This is possible with IP based Virtual Hosting.

3) Port Based :

In this we can host more than one website which works on different portno's.

Configure the DNS: (at 192.168.0.1)

Open the second config file

```
# vi /etc/named.rfc1912.zones
```

```
goto last line
zone "yahoo.com" IN {
    type master;
    file "yahoo.for";
    allow-update { none; };
};
zone "rediff.com" IN {
    type master ;
    file "rediff.for";
    allow-update none; };
};
zone "ibm.com" IN {
    type master;
    file "ibm.for";
    allow-update { none; } ;
};
zone "gmail.com" IN {
    type master ;
    file "gmail.for";
    allow-update { none; } ;
};
```

Go to zones file locaton

```
# cd /var/named/chroot/var/named
```

1.Configure the yahoo forward lookup zone file

```
# cp localhost.zone yahoo.for
```

```
# vi yahoo.for
```

```
$TTL 86400
```

```
@           IN SOA Sun1.yahoo.com      root.yahoo.com
                        42                ; serial
                        3H                ; refresh
                        15M               ; retry
```

```
1W          ; expiry
1D          ; minimum
```

```
IN NS Sun1.yahoo.com
Sun1 IN A 192.168.0.1 #dns server ip
Sun2 IN A 192.168.0.2 liweb serve ip IN
www IN CNAME Sun2 #webserver host name
```

2. Configure the rediff FLZ file :

```
# cp yahoo.for rediff.for
# vi rediff.for
```

Substitute word "yahoo" with "rediff" In the vi editor go to execution mode and type :

```
:1,$S/yahoo/rediff/gc
```

3. Configure the ibm FLZ file :

```
# cp yahoo.for ibm.for
# vi ibm.for
```

Substitute the word "yahoo" with word "ibm" In the vi editor go to execution mode and type

```
:1,$S/yahoo/ibm/gc
```

note : ibm.for configured for ip based virtual hosting. Hence change the IP of the host sun2 to 192.168.0.50

4. Configure the gmail FLZ file :

```
# cp yahoo.for gmail.for
# vi gmail.for
```

Substitute the word " yahoo" with gmail in the vi editor go to execution mode and type

```
:1,$S/yahoo/gmail/ge
```

5. Change the ownership of zone files :

go to the zone files location :

```
# cd /var/named/chroot/var/named
# chown named yahoo.for rediff.for ibm.for gmail.for
```

6. Add the DNS IP address :

```
# vi /etc/resolv.conf
nameserver 192.168.0.1
```

7. Service named restart

8. To check FLZ files

```
# ns lookup
> www.rediff.com
> www.gmail.com
> www.yahoo.com
> www.ibm.com
> exit.
```

Configure the webserver : (in 192.168.0.2)

1. Install the Packages :

```
# yum install httpd
```

2. Open the configuration file

```
# vi /etc/httpd/conf/httpd.conf
```

Go to the line 972 remove #
goto last line

@@@Name based Virtual Hosting

```
< virtualHost * : 80>
    ServerAdmin root@yahoo.com
    ServerName www.yahoo.com
    DocumentRoot /var/www/html
    DirectoryIndex yahoo.html
</virtualHost>
```

```
<virtualHost *.80>
    ServerAdmin root@rediff.com
    ServerName www.rediff.com
    DocumentRoot /var/www/html
    DirectoryIndex rediff.html
</virtualHost>
```

@@@IP based virtual hosting

```
<virtualHost 192.168.0.50:80>
    ServerAdmin root@ibm.com
    ServerName www.ibm.com
    DocumentRoot /var/www/html
    DirectoryIndex ibm.html
</virtualHost>
```

@@@Port Based Virtual Hosting

```
Listen 5000
<virtualHost* : 5000>
    ServerAdmin root@gmail.com
    ServerName www.gmail.com
    DocumentRoot /var/www/html
    DirectoryIndex gmail.html
</virtualHost>
```

3. Go to webpages location

```
# cd /var/www/html
# cat > yahoo.html ---- write html code and save
# cat > rediff.html ---- write html code and save
# cat > ibm.html ---- write html code and save
# cat > gmail.html ---- write html code and save
```

4. Create the virtual IP address

```
# netconfig --device eth0:0 192.168.0.50 up
or
# neat-tui
select <new device> and give ip for eth0:0 as 192.168.0.50
```

5. Restart the Network service

```
# service network restart
```

6. Restart the http service :

```
# service httpd restart
```

7. Open the web browser :

```
# elinks
```

(or)

```
# firefox &
```

in the URL type www.gmail.com:5000 (to test port based virtual hosting)
http://192.168.0.50/ibm.html (to test ip based virtual hosting)

<http://www.yahoo.com> (to test Name based Virtual Hosting)
<http://www.rediff.com> (to test Name based Virtual Hosting)