**IP Addressing in Linux**

Two or more IPs can be assigned to the same network card but temporarily by entering the following command

**Ifconfig eth0:1 172.24.0.2 netmask 255.255.0.0**

**Ifconfig eth0:2 172.24.0.3 netmask 255.255.0.0**

To make the settings permanent enter the above entry into the file | vi /etc/rc.local

Virtual hosting is the process of hosting more than one IPS and it has got two types… IP based and Name based

**IP based virtual hosting:**

Changes of html directory…

* Now goto /var/www/html and make more directory say … brahma, vishnu, mahesh
* Under each directory make an index.html file with different content.

Changes of httpd.conf file…

* Go and edit /etc/httpd/conf/httpd.conf as

Firstly, go at last modules of codes and find <VirtualHost> … </VirtualHost>

In vi editior,

Remove it from comments and copy it by placing the cursor in ‘browsing mode’ on the starting location type no of lines to be yanked and then ‘yy’ as |7yy,

Now goto the location where it has to be pasted and press ‘p’ the number of times you need to paste.

* In our case the count of virtual IPs is 2 and real IP is 1, therefore we will need 3 virtual IP code modules for working.
* <VirtualHost 172.24.0.10:80>

ServerAdmin [webmaster@dummy-host.example.com](mailto:webmaster@dummy-host.example.com)

DocumentRoot /var/www/html/Vishnu/

ServerName 72.24.0.10

</VirtualHost>

Remove all unnecessary details from the module and do the same for virtual IPs as well and do edit the Document Root and ServerName.

Changes of /var/named directory

* Copy the named.localhost file and paste it as name vishnu, brahma, mahesh these would serve as forward files of respective domains, edit all files as per following

|$TTL 1D

|@ IN SOA 172.24.0.10 172.24.0.10. (

//something )

| NS server1

|server10 A 172.24.0.10

* Now change the group of all the forward and reverse file (if any) to ‘named’.

Changes to be made in /etc/named.conf file

* Go at last modules and delete everything from “logging section”
* Now enter the following code to put entry of the forward named file which are respectively vishnu, brahma, mahesh

|zone “vishnu.com” IN {

| type master;

| file “vishnu”;

|};

|zone “brahma.com” IN {

| type master;

| file “brahma”;

|};

|zone “mahesh.com” IN {

| type master;

| file “mahesh”;

|};

Do the same for reverse named file if necessary (but not always important)

**Name based virtual hosting:**

Changes of html directory…

* Now goto /var/www/html and make more directory say … brahma, vishnu, mahesh
* Under each directory make an index.html file with different content.

Changes of httpd.conf file…

* Go and edit /etc/httpd/conf/httpd.conf as
* Search and Delete a line NameServer 172.24.0.10

Go at last modules of codes and find <VirtualHost> … </VirtualHost>

In vi editior,

Remove it from comments and copy it by placing the cursor in ‘browsing mode’ on the starting location type no of lines to be yanked and then ‘yy’ as |7yy,

Now goto the location where it has to be pasted and press ‘p’ the number of times you need to paste.

* In our case the count of virtual IPs is 2 and real IP is 1, therefore we will need 3 virtual IP code modules for working. Add the following line…
* NameVirtualHost 172.24.0.10
* VirtualHost 172.24.0.10:80>

ServerAdmin [webmaster@dummy-host.example.com](mailto:webmaster@dummy-host.example.com)

DocumentRoot /var/www/html/Vishnu/

ServerName www.vishnu.com

</VirtualHost>

Remove all unnecessary details from the module and do the same for virtual IPs as well and do edit the Document Root and ServerName.

Changes of /var/named directory

* Copy the named.localhost file and paste it as name vishnu, brahma, mahesh these would serve as forward files of respective domains, edit all files as per following

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|$TTL 1D

|@ IN SOA www.vishnu.com www.vishnu.com. (

//something )

| NS server10

|server10 A 172.24.0.10

* Now change the group of all the forward and reverse file (if any) to ‘named’.

Changes to be made in /etc/named.conf file

* Go at last modules and delete everything from “logging section”
* Now enter the following code to put entry of the forward named file which are respectively vishnu, brahma, mahesh

|zone “vishnu.com” IN {

| type master;

| file “vishnu”;

|};

|zone “brahma.com” IN {

| type master;

| file “brahma”;

|};

|zone “mahesh.com” IN {

| type master;

| file “mahesh”;

|};

Do the same for reverse named file if necessary (but not always important)

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