

## IP TABLES

The IP tables program is used to administrate packet filtering rules under the netfilter infrasture. In IP tables we have to give the polacies to the chains.

```
Syn: # /sbin/iptables -P chain-name target
ex : # /sbin/iptables -P input DENY
      # /sbin/iptables -P output REJECT
      # /sbin/iptables -P forward REJECT
      (All The Above Polacies are cefault polacies)
```

- \* Here all packets are denied (or) rejected by default.
- \* All packets that all input to the firewall system are denied.
- \* All packets that are to be forwarded through the system also are rejected. This is called deny everything by default polacy.

Note : Chain-name is not case sencitive. So we can use either capital (or) small letters in chain-name.

example :

```
To restrict system 192.168.0.2 to access 192.168.0.1 through ssh
#iptables -A INPUT -s 192.168.0.2 -p tcp --dport 22 -j REJECT
```

here -A : append, -s : source

To see the ip tables:

```
# iptables -L
```

To flush the IP table

```
# iptables -F
```

To stop entire inocoming traffic

```
# iptables -A INPUT -j REJECT
```

To stop entire out going traffic

```
# iptables -A OUTPUT -j REJECT
```

To stop the perticular servcie with port no. (incoming)

```
# iptables -A INPUT -p tcp --dport 22 -j REJECT
```

where 22 is the port no. of the service which you want to reject.

To stop the perticular servcie with port no. (outgoing)

```
# iptables -A OUTPUT -p tcp --dport 21 -j REJECT
```

To stop a perticular service to perticular network (incoming)

```
# iptables -A INPUT -s 192.168.0.0/24 -p tcp -dport 23 -j REJECT
```

To stop a perticular service to perticular network (outgoing)

```
# iptables -A OUTPUT -d 192.168.0.0'24 -p tcp --dport 23 -j REJECT
```

To assign restriction except to perticular network

```
# iptables -A INPUT -s ! 192 168 0.0/24 -j REJECT
```

```
# iptables -A OUTPUT -d ! 192.168.0.0/24 -j REJECT
```

NOTE : After giving the rules we have to case the iptables

```
# service iptables save
```

To restart the secrvice iptables

```
# service iptables restart
```

To open the configuration file

```
# vi /etc/sysconfig/iptables
```

To enable the iptables

```
# setup
```