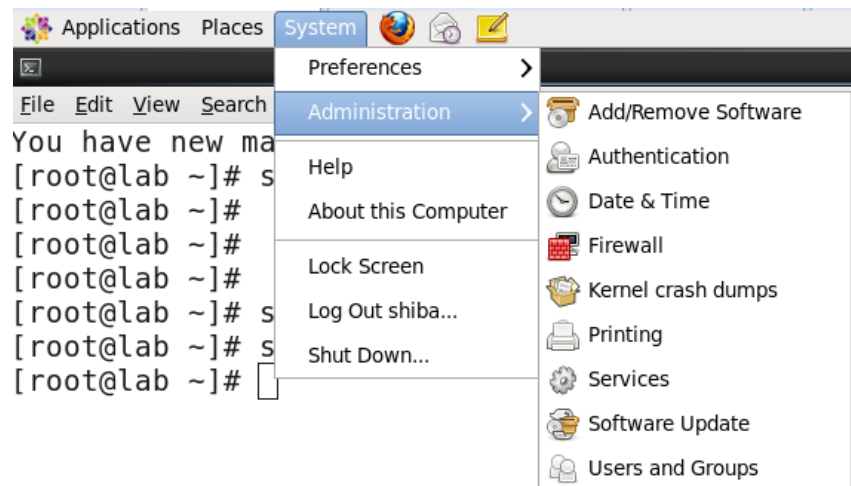
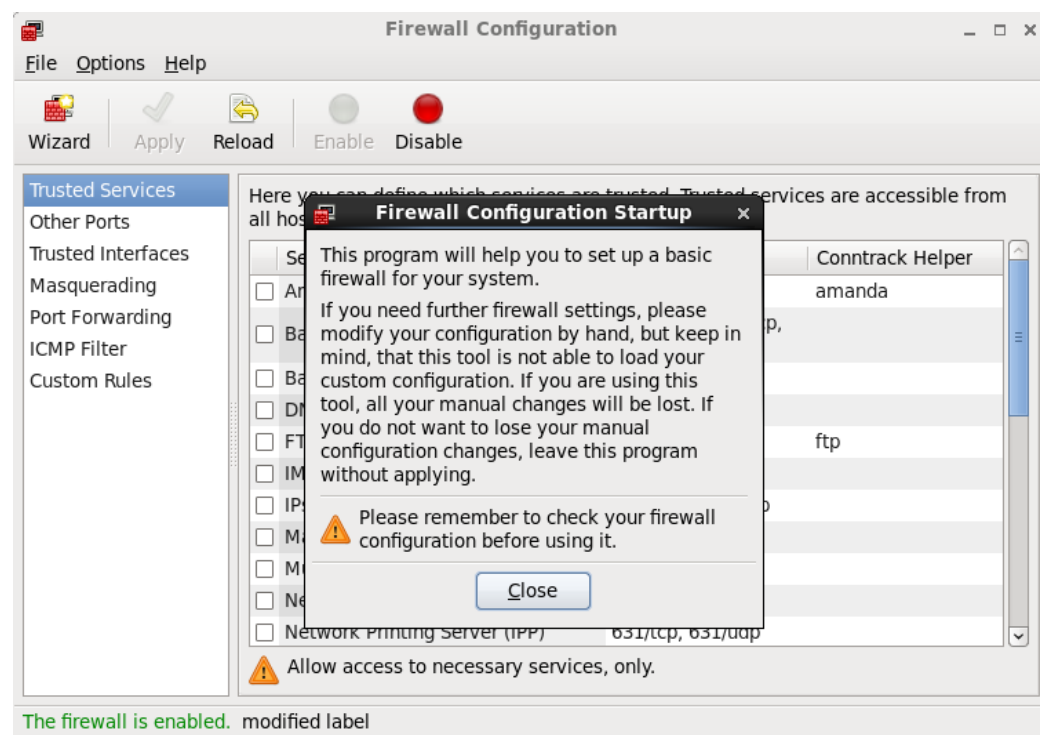


## Configuring basic Firewall rules (iptables) from GUI

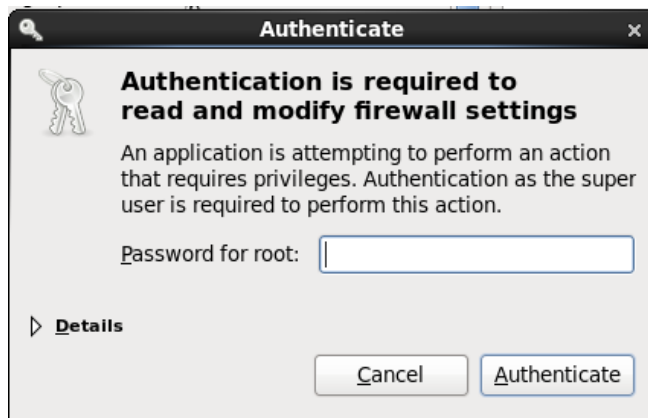
1. Select firewall from System -> Administration->Firewall menu.



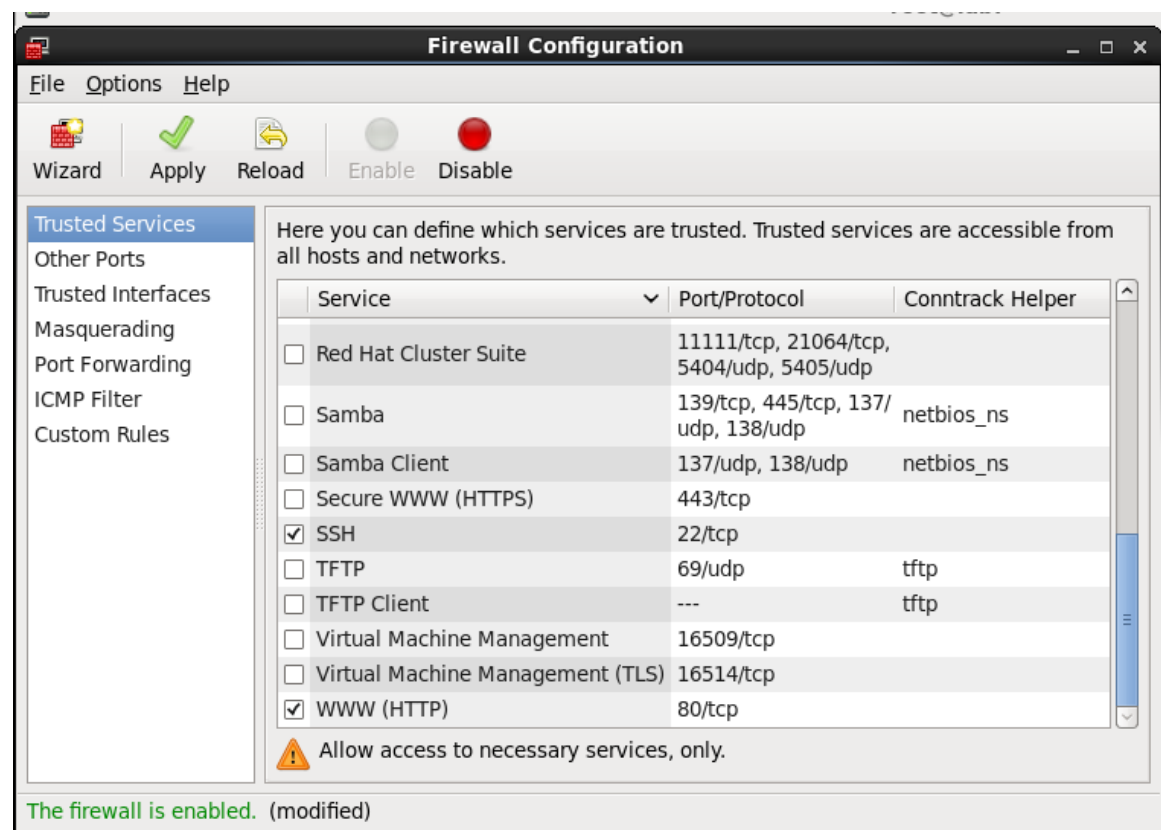
2. Click close to acknowledge that you are aware that only basic firewall configuration can be done with GUI interface and if you need additional configurations you should use iptables command from terminal.



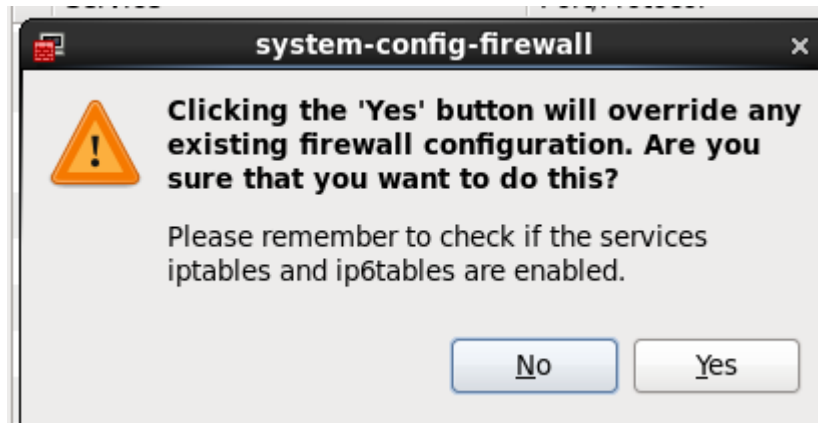
3. If you are not logging GUI as root user, you will be asked to provide root's password for authentication. Give root's password and continue.



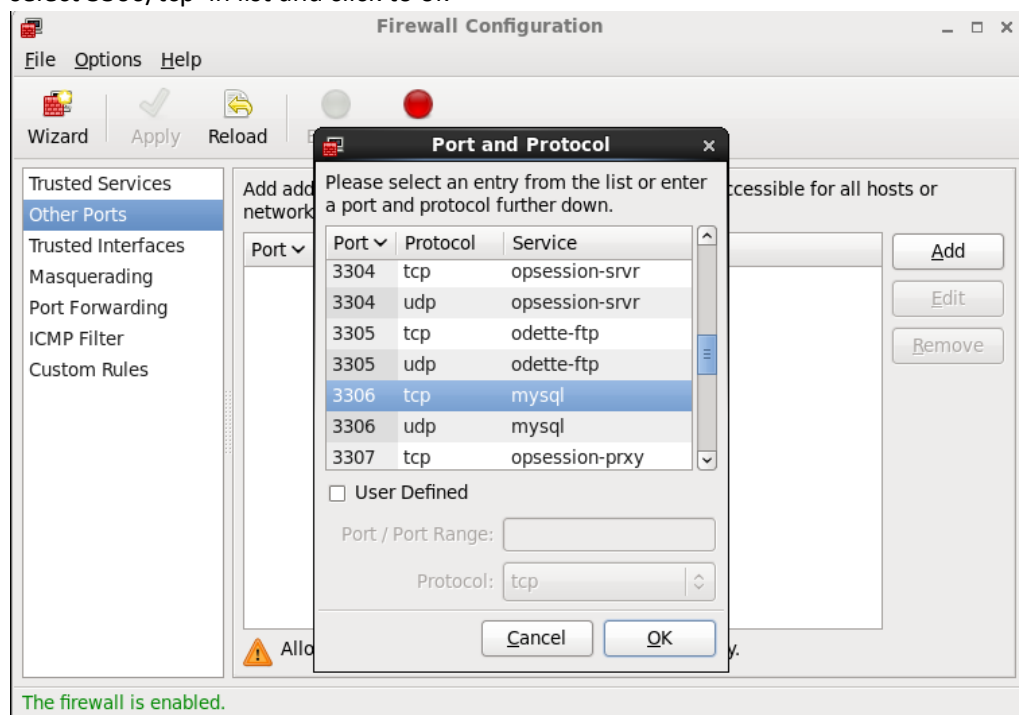
4. You are now in position to select any service in the list to allow or disallow through firewall. For instance in following diagram, I have selected WWW (HTTP) and clicked to Apply



5. Once you clicked to Apply you will be prompt to dialog box for conformation to override existing rules. Click to yes.



6. Similarly, you can repeat same process to allow in-bound traffic through firewall
7. To enable mysql access from remote computer click on “other ports” in Left menu and select 3306/tcp in list and click to ok



8. More discussion on Firewall will be done in “Router Configuration” section of last chapter.

**Note:** The configuration is saved in the file `/etc/sysconfig/system-config-firewall` when clicking **Apply** then file `/etc/sysconfig/iptables` is overwritten.

### Configuring basic Firewall rules (iptables)

To add httpd and mysqld service in trusted service or to allow income traffic for port 80 and 3306

#Allowing income traffic of port 80 to the server

```
iptables -I INPUT -p tcp --dport=80 -j ACCEPT
```

#Allowing income traffic of port 80 to the server

```
iptables -I INPUT -p tcp --dport=3306 -j ACCEPT
```

```
# saving added rules to firewall into file /etc/sysconfig/iptables
```

```
service iptables save
```

```
# to verify if the rule is added or not use following commands, use man to know about the  
#options n, v and L in detail
```

```
iptables -nvL
```

```
[root@lab ~]# iptables -nvL
Chain INPUT (policy ACCEPT 0 packets, 0 bytes)
pkts bytes target      prot opt in     out     source               destination
  0      0 ACCEPT      tcp  --  *      *       0.0.0.0/0            0.0.0.0/0
  0      0 ACCEPT      tcp  --  *      *       0.0.0.0/0            0.0.0.0/0
15 9929 ACCEPT      all  --  *      *       0.0.0.0/0            0.0.0.0/0
ABLISHED
  0      0 ACCEPT      icmp --  *      *       0.0.0.0/0            0.0.0.0/0
  0      0 ACCEPT      all  --  *      *       0.0.0.0/0            0.0.0.0/0
```

```
tcp dpt:3306
tcp dpt:80
state RELATED,EST
```

*Note: I have covered only basic rules to allow traffic to trusted services, if you want to know more about iptables go through different books of Linux firewall or following reference links. I will cover some more detail on iptables policies, port forwarding and masqueriding in “Router configuration” section in last chapter.*

Further study:

<http://www.howtogeek.com/177621/the-beginners-guide-to-iptables-the-linux-firewall/>

[http://fedoraproject.org/wiki/How\\_to\\_edit\\_iptables\\_rules](http://fedoraproject.org/wiki/How_to_edit_iptables_rules)

<http://linuxtips-nitin.blogspot.com/2009/03/linux-iptables-configuration-step-by.html>