Table Of Contents

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Home > Faq > Linux > Iptables

Iptables Open FTP Port 21 and 20

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How do I open port 21 using Linux iptables firewall?

Use iptables administration tool for IPv4 packet filtering and NAT under Linux to open tcp port 21 (FTP). Following rule-set assumes that your eth0 network interface is directly connected to the Internet. It has public ip (202.54.1.20). FTP use both port 21 and 20 (port 21 for the command port and port 20 for the data). So following iptables rules take care of both ports (add rules to your iptables based shell script):
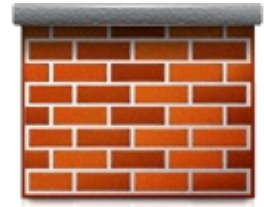
[1]

Procedure

Add support for FTP connection tracking [2].

Task load required iptables modules

First login as the root user.

Next type the following command to load two iptables modules:

```
# modprobe ip_conntrack
# modprobe ip_conntrack_ftp
```

Now add following iptables rules for incoming request on port 21 (open port 21) to your script:

```
iptables -A INPUT -p tcp -s 0/0 --sport 1024:65535 -d 202.54.1.20 --dport 21 -m state --sta
iptables -A OUTPUT -p tcp -s 202.54.1.20 --sport 21 -d 0/0 --dport 1024:65535 -m state --st
```

AND:

```
iptables -A INPUT -p tcp -s 0/0 --sport 1024:65535 -d 202.54.1.20 --dport 1024:65535 -m sta
iptables -A OUTPUT -p tcp -s 202.54.1.20 --sport 1024:65535 -d 0/0 --dport 1024:65535 -m st
```

AND:

```
iptables -A OUTPUT -p tcp -s 202.54.1.20 --sport 20 -d 0/0 --dport 1024:65535 -m state --st
iptables -A INPUT -p tcp -s 0/0 --sport 1024:65535 -d 202.54.1.20 --dport 20 -m state --sta
```

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URLs in this post:

[1] Image: **http://www.cyberciti.biz/faq/category/iptables/**

[2] connection tracking: **http://www.cyberciti.biz/tips/how-do-i-use-iptables-connection-tracking-feature.html**