## **HOW TO PREVENT DDOS ATTACK ON CENTOs 7**

**CentOS DDoS protection** – A guide to secure your server from DDoS!

DDoS(Distributed Denial Of Service) is an advanced version of DoS(Denial Of Service).

## **FAIL TO BAN**

- ◆ sudo yum install epel-release -y (Installing Extra Packages for Enterprise Linux)
- ◆ sudo yum install fail2ban -y (Installing Fail2BAn)
- ◆ sudo systemctl enable fail2ban (use systemctl to enable the fail2ban service)
- ◆ sudo nano /etc/fail2ban/jail.local (create jail.local file)
- ◆ paste the following

```
[DEFAULT]
# Ban hosts for one hour:
bantime = 3600
# Override /etc/fail2ban/jail.d/00-firewalld.conf:
banaction = iptables-multiport
[sshd]
enabled = true
[apache]
enabled = true
port = http,https
filter = apache-auth
#logpath = /var/log/apache*/*error.log (specify
your application log path)
maxretry = 6
findtime = 600
[php-url-fopen]
enabled = true
port = http,https
filter = php-url-fopen
#logpath = /var/log/apache*/*access.log (specify
your application log path)
[apache-overflows]
enabled = true
```

```
port = http,https
        = apache-overflows
filter
#logpath = /var/log/apache*/*error.log (specify
your application log path)
maxretry = 2
[apache-badbots]
enabled = true
        = http,https
port
filter = apache-badbots
#logpath = /var/log/apache*/*error.log (specify
your application log path)
maxretry = 2
[apache-nohome]
enabled = true
        = http, https
port
filter = apache-nohome
#logpath = /var/log/apache*/*error.log (specify
your application log path)
maxretry = 2
ignoreip = 127.0.0.1/8 10.10.11.155 (IP that
fail2ban shuld ignore)
[postfix-rbl]
filter = postfix[mode=rbl]
        = smtp, 465, submission
port
logpath = %(postfix_log)s (specify your application
log path)
backend = %(postfix_backend)s
maxretry = 1
```

- ◆ systemctl restart fail2ban (restart fail2ban)
- ◆ fail2ban-client status (check fail2ban status)
- ◆ fail2ban-client status sshd (check fail2ban per application)
- 1. result of fail2ban-client status sshd

2. result of fail2ban-client status apache

3. iptables -S (all rules for fail2ban accept/reject connections)

```
root@localhost ~]# 1ptables
-P INPUT ACCEPT
-P FORWARD ACCEPT
P OUTPUT ACCEPT
-N FORWARD_IN_ZONES
-N FORWARD_IN_ZONES_SOURCE
-N FORWARD_OUT_ZONES
-N FORWARD_OUT_ZONES_SOURCE
-N FORWARD_direct
-N FWDI_public
-N FWDI_public_allow
-N FWDI_public_deny
-N FWDI public log
-N FWDO public
-N FWDO public allow
-N FWDO public deny
-N FWDO public log
-N INPUT ZONES
-N INPUT ZONES SOURCE
-N INPUT direct
-N IN_public
-N IN_public_allow
-N IN_public_deny
-N IN_public_log
-N OUTPUT direct
-N f2b-sshd
-A INPUT -p tcp -m multiport --dports 22 -j f2b-sshd
-A INPUT -p tcp -m multiport --dports 22 -j f2b-sshd
-A INPUT -m conntrack --ctstate RELATED, ESTABLISHED -j ACCEPT
-A INPUT -i lo -j ACCEPT
-A INPUT -j INPUT_direct
-A INPUT -j INPUT ZONES SOURCE
-A INPUT -j INPUT ZONES
-A INPUT -m conntrack --ctstate INVALID -j DROP
-A INPUT -j REJECT --reject-with icmp-host-prohibited
-A FORWARD -m conntrack --ctstate RELATED, ESTABLISHED -j ACCEPT
-A FORWARD -i lo -j ACCEPT
-A FORWARD -j FORWARD_direct
-A FORWARD -j FORWARD_IN_ZONES_SOURCE
-A FORWARD -j FORWARD_IN_ZONES
-A FORWARD -j FORWARD_OUT_ZONES_SOURCE
-A FORWARD -j FORWARD_OUT_ZONES
```