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?????www.fail2ban.org/wiki/index.php

???????https://github.com/fail2ban/fail2ban

????

for Ubuntu 16/18)

```
#> apt update
#> apt install fail2ban
```

????

```
#> fail2ban-client -h
```

for SuSE)

```
yast > Software > Software Management >
```

```
Search Phrase = fail2ban <Enter>
```

```
Actions = Install <????????>
```

```
Accept <Enter>
```

for CentOS)

?? [EPEL ?????](#)

NOTE: ?????????? epel-release-XX.noarch.rpm

```
wget http://mirror01.idc.hinet.net/EPEL/6/i386/epel-release-6-8.noarch.rpm
```

```
rpm -ivh epel-release-6-8.noarch.rpm
```

```
yum install fail2ban
```

??????

```
chkconfig --add fail2ban
chkconfig fail2ban on
```

```
????
```

```
#> fail2ban-client -h
```

?? Fail2ban

```
vi /etc/fail2ban/filter.d/asterisk.conf
```

```
# Fail2Ban configuration file
```

```
#
```

```
#
```

```
# $Revision: 250 $
```

```
#
```

[INCLUDES]

```
# Read common prefixes. If any customizations available -- read them from
```

```
# common.local
```

```
#before = common.conf
```

[Definition]

```
#_daemon = asterisk
```

```
# Option: failregex
```

```
# Notes.: regex to match the password failures messages in the logfile. The
```

```
# host must be matched by a group named "host". The tag "<HOST>" can
```

```
# be used for standard IP/hostname matching and is only an alias for
```

```
# (?:::f{4,6}:)?(?:P<host>\S+)
```

```
# Values: TEXT
```

```
#
```

```
failregex = NOTICE.* *: Registration from '.*' failed for '<HOST>' - Wrong password
```

```
NOTICE.* *: Registration from '.*' failed for '<HOST>' - No matching peer found
```

```
NOTICE.* *: Registration from '.*' failed for '<HOST>' - Username/auth name mismatch
```

```
NOTICE.* *: Registration from '.*' failed for '<HOST>' - Device does not match ACL
```

```
NOTICE.* *: Registration from '.*' .* failed for '<HOST>' - Peer is not supposed to register
```

```
NOTICE.* <HOST> failed to authenticate as '.*'$
```

```
NOTICE.* *: No registration for peer '.*' \ (from <HOST> \)
```

```
NOTICE.* *: Host <HOST> failed MD5 authentication for '.*' (.*)
```

```
# Option: ignoreregex
```

```
# Notes.: regex to ignore. If this regex matches, the line is ignored.
```

```
# Values: TEXT
```

```
#
```

ignoreregex =

vi /etc/fail2ban/jail.conf

Important: exclude your local network in the ban IPs list

ignoreip = 127.0.0.1 192.168.0.0/16

This is for SSH on OpenSUSE only.

If enable, change 'false' as 'true'

[ssh-iptables]

enabled = false

filter = sshd

action = iptables[name=SSH, port=ssh, protocol=tcp]

sendmail-whois[name=SSH, dest=you@mail.com, sender=fail2ban@mail.com]

logpath = /var/log/messages

maxretry = 5

##

[asterisk-iptables]

enabled = true

filter = asterisk

action = iptables-allports[name=ASTERISK, protocol=all]

sendmail-whois[name=ASTERISK, dest=root, sender=fail2ban@example.org]

logpath = /var/log/asterisk/fail2ban

maxretry = 5

bantime = 259200

NOTES:

? logpath ???????? logger.conf ???????

? ??? ssh-iptables????? fail2ban ?????? fail2ban.log ????????????????

fail2ban.actions.action: ERROR iptables -N fail2ban-SSH

iptables -A fail2ban-SSH -j RETURN

iptables -I INPUT -p tcp --dport ssh -j fail2ban-SSH returned 400

? ????? LAN ????? ignoreip?????????????????

? ??? CentOS 5.x?[ssh-iptables]?????

logpath = /var/log/secure

?? Asterisk

?: 1.6.2.x

??/etc/asterisk/logger.conf

```
[general]
dateformat=%F %T
```

```
[logfiles]
console => notice,warning,error
messages => notice,warning,error,debug,verbose
fail2ban => notice
```

NOTES:

?? dateformat ? fail2ban logfile

?: 11.x

```
...
[logfiles]
...
fail2ban => notice,warning,security
```

Asterisk ?????

```
#> asterisk -rx "logger reload"
#> asterisk -rx "logger show channels"
```

?? Fail2ban

// ?? Asterisk ? logger ??

```
# asterisk -rx "module reload logger"
# asterisk -rx "logger show channels"
```

Channel	Type	Status	Configuration
/var/log/asterisk/fail2ban	File	Enabled	- Notice
/var/log/asterisk/messages	File	Enabled	- Debug Verbose Warning Notice Error
	Console	Enabled	- Warning Notice Error

// ???????? Fail2ban

yast > System

// ???????? Fail2ban

/etc/init.d/fail2ban start

// ?? iptables ??????

```
# iptables -L -nv
```

```
Chain INPUT (policy ACCEPT 5561K packets, 966M bytes)
```

```
pkts bytes target prot opt in out source destination
 216 16120 fail2ban-SSH tcp -- * * 0.0.0.0/0 0.0.0.0/0 tcp dpt:22
23182 1973K fail2ban-ASTERISK all -- * * 0.0.0.0/0 0.0.0.0/0
```

```
Chain FORWARD (policy ACCEPT 0 packets, 0 bytes)
```

```
pkts bytes target prot opt in out source destination
```

```
Chain OUTPUT (policy ACCEPT 5091K packets, 884M bytes)
```

```
pkts bytes target prot opt in out source destination
```

```
Chain fail2ban-ASTERISK (1 references)
```

```
pkts bytes target prot opt in out source destination
23182 1973K RETURN all -- * * 0.0.0.0/0 0.0.0.0/0
```

```
Chain fail2ban-SSH (1 references)
```

```
pkts bytes target prot opt in out source destination
 18 1788 DROP all -- * * 123.123.123.123 0.0.0.0/0
 198 14332 RETURN all -- * * 0.0.0.0/0 0.0.0.0/0
```

NOTES:

```
fail2ban-SSH ?????????? jail.conf ?? SSH-iptables ???????
```

```
??/????(??)
```

```
??fail2ban ?????? IPs ?????????????????????????????????????????????????????????????????????????
```

```
?? 3 ???
```

- /etc/fail2ban/action.d/iptables-allports.conf
- /etc/fail2ban/action.d/iptables-multiport.conf
- /etc/fail2ban/action.d/iptables.conf

```
?????
```

```
actionstart = iptables -N fail2ban-<name>
```

```
iptables -A fail2ban-<name> -j RETURN
```

```
iptables -I <chain> -p <protocol> --dport <port> -j fail2ban-<name>
```

```
...
```

```
actionban = iptables -I fail2ban-<name> 1 -s <ip> -j DROP
```

```
...
```

```
actionunban = iptables -D fail2ban-<name> -s <ip> -j DROP
```

```
?????
```

```

actionstart = ...
...
...
for IP in `cat /etc/fail2ban/ip.deny`; do iptables -I fail2ban-<name> 1 -s $IP -j DROP;done
...
...
actionban = if [ -z `awk '$1 == "<ip>" { print "true" }' /etc/fail2ban/ip.allow` ] && [ -z `awk '$1 == "<ip>" {
print "true" }' /etc/fail2ban/ip.deny` ]; then iptables -I fail2ban-<name> 1 -s <ip> -j DROP;fi
...
...
actionunban = if [ -z `awk '$1 == "<ip>" { print "true" }' /etc/fail2ban/ip.allow` ] && [ -z `awk '$1 == "<ip>" {
print "true" }' /etc/fail2ban/ip.deny` ]; then iptables -D fail2ban-<name> -s <ip> -j DROP;fi

???????

```

1. /etc/fail2ban/ip.deny (???)
2. /etc/fail2ban/ip.allow (???)

????????????????? fail2ban ??????

FAQ

Q:???????

Ans: ????? log ??????????????????????????????

????? log ???

[2015-01-28 05:40:16] NOTICE[-1] Ext. 9015448702956577: Incoming SIP connection from unknown peer failed for 31.3.244.234 - Unknown connection from peer

? /etc/fail2ban/filter.d/asterisk.conf ????????

NOTICE.*.*: Incoming SIP connection from unknown peer failed for <HOST> - Unknown connection from peer

?????????????????????????

```
#> fail2ban-regex /var/log/asterisk/fail2ban "NOTICE.*.*: Incoming SIP connection from unknown peer
failed for <HOST> - Unknown connection from peer"
```

TIPS:

fail2ban-regex <path/to/log> <failregex or /etc/fail2ban/filter.s/XXX.conf>

Q:???? /var/log/fail2ban.log

Ans: ?? /etc/fail2ban/fail2ban.conf

```
#logtarget = SYSLOG
logtarget = /var/log/fail2ban.log
```

```
?? fail2ban ??
```

```
Q:?????????
```

```
Ans: ????? fail2ban ????????????????????? IP ????????????? IP?fail2ban ??????????
```

```
Q:? Elastix/CentOS 5.3 ??? ban IP
```

```
?? fail2ban-client ????? log ????????????? ban IP
```

```
# fail2ban-client status
```

```
Status
```

```
|- Number of jail: 1
```

```
`- Jail list: asterisk-iptables
```

```
# fail2ban-client status asterisk-iptables
```

```
|- filter
```

```
| |- File list: /var/log/asterisk/fail2ban
```

```
| |- Currently failed: 0
```

```
| ` - Total failed: 0
```

```
`- action
```

```
|- Currently banned: 0
```

```
| ` - IP list:
```

```
`- Total banned: 0
```

```
?????
```

```
?? /etc/asterisk/logger.conf
```

```
;syslog keyword : This special keyword logs to syslog facility
```

```
;???????
```

```
syslog.local0 => notice,warning,error
```

```
Reload Asterisk
```

```
Q:??? IP ??????
```

```
# iptables -D fail2ban-ASTERISK -s 123.123.123.123 -j DROP
```

```
?
```

```
# iptables -L fail2ban-ASTERISK -nv --line-number
```

```
Chain fail2ban-ASTERISK (1 references)
```

```
num pkts bytes target prot opt in out source destination
```

```
1 0 0 DROP all -- * * 134.213.134.172 0.0.0.0/0
```

```
2 0 0 DROP all -- * * 46.105.127.222 0.0.0.0/0
```

```
3 0 0 DROP all -- * * 116.255.152.101 0.0.0.0/0
```

```
4 1364 363K RETURN all -- * * 0.0.0.0/0 0.0.0.0/0
```

```
# iptables -D fail2ban-ASTERISK 2 ;??? 2 ??
```

Q:???????? IP ? DDoS ?? Received incoming SIP connection..

CLI Log?

Received incoming SIP connection from unknown peer to 003333002972597886748"

NOTE:

- ?????? sip_general.conf ? allowguest=yes (by default)?????
- ?????? Sending fake auth rejection for device 100<sip:100@123.123.123.123> ?????????????? ??
allowguest=no?????????????
 ?????????????? allowguest=no???? Asterisk 11 ??????Log ?????????????? IP????????? Fail2ban ??????????????
 ??????????

Ans:

1. ?? /etc/asterisk/extensions.conf

```
[from-sip-external]
; ??????????????
exten => _,1,NoOp(Received incoming SIP connection from unknown peer to ${EXTEN})
exten => _,n,Set(DID=${IF("${EXTEN:1:2}"=="")?s:${EXTEN}})
exten => _,n,Set(foo=${SIPCHANINFO(recvip)})
exten => _,n,Log(NOTICE,Incoming SIP connection from unknown peer failed for ${foo} - Unknown
connection from peer)
exten => _,n,Hangup
exten => h,1,Hangup
exten => i,1,Hangup
exten => t,1,Hangup
```

?????

asterisk -rx "dialplan reload"

2. ?? /etc/fail2ban/filter.d/asterisk.conf

```
...
failregex = NOTICE.*.*: Registration from '.*' failed for '<HOST>' - Wrong password
...
...
NOTICE.*.*: Incoming SIP connection from unknown peer failed for <HOST> - Unknown connection
from peer
```

?????

service fail2ban restart

Q:??? Sending fake auth rejection ...

? Asterisk 1.11+)

Failed to authenticate device 1005<sip:1005@123.123.123.123>;tag=2071f8ca

? Asterisk 1.8)

Sending fake auth rejection for device 100<sip:100@123.123.123.123>;tag=99fdd5d7

123.123.123.123 is my external IP of PBX

Ans??? Asterisk ????????

Asterisk 11)

?????? Security Log Level ?????????????????????? IP????????? fail2ban ????

?? /etc/fail2ban/filter.d/asterisk.conf

?? SECURITY ??

failregex = Registration from '.*' failed for '<HOST>:.*' - Wrong password

...

...

SECURITY.*.*:

SecurityEvent="(FailedACL|InvalidAccountID|ChallengeResponseFailed|InvalidPassword)",EventTV="[\\d-]+",Severity

?????

1. <http://highsecurity.blogspot.tw/2013...l2ban-088.html>
2. <http://issues.freepbx.org/browse/FREEPBX-7573>

Asterisk 1.8/1.6)

??? Asterisk ?????????????????? channels/chan_sip.c????????????????? IP????????????? Asterisk ?????????? fail2abn ??

??

?????<https://bugs.debian.org/cgi-bin/bugr...cgi?bug=706739>

TIP?

???? Asterisk ?????????????? chan_sip.c ??????????????????????

????

- [Preventing Brute Force Attacks With Fail2ban On OpenSUSE 10.3](#)
- [Fail2ban - Asterisk](#)

- [Fail2Ban \(with iptables\) And Asterisk \(voip-info\)](#)
- [Install Fail2Ban on Elastix 1.6](#)
- [fail2ban and iptables \(on-line PDF\)](#)
- <http://centoshelp.org/security/fail2ban/>
- <http://net.nthu.edu.tw/2009/security:fail2ban>
- [Protect Asterisk with Fail2Ban on Debian 5](#)
- [Fail2ban Manual Unban Single Host \(for iptables\)](#)