

Elastix/Asterisk ????

PBX > Tools > File Editor > File: sip_nat.conf????????

externip=aaa.aaa.aaa.aaa
localnet=bbb.bbb.bbb.bbb/255.255.255.0

externip - ?????????? IP
localnet - ??????LAN???????????????????? vLan ??????????

aaa.aaa.aaa.aaa ???? IP ??
bbb.bbb.bbb.bbb ?????????????? 192.168.1.0?

???????? IP????? DDNS ????????? externip ?? externhost????????? FQDN ???

externhost=mypbx.mydomain.com

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

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

Asterisk -rx "sip show settings"

Network Settings:

SIP address remapping: Enabled using externip
Externhost: <none>
Externip: 123.123.123.123:5060
Externrefresh: 10
Internal IP: 127.0.0.1:5060
Localnet: 192.168.9.0/255.255.255.0
STUN server: 0.0.0.0

????? Asterisk 1.8+ ??? externip ?? **externaddr**

- ??? Issue ??: <https://issues.asterisk.org/view.php?id=17665#c124720>
- ??? externaddr ?? one-way audio ?????? media_address=<myip>????????

Router/Firewall ?????

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

1. DMZ
? Elastix ??? DMZ???? SIP?RTP?IAX2 ?????????????? Elastix ???
[SIP - 5060 UDP?](#)
[RTP - 10000~20000 UDP???? /etc/asterisk/rtp.conf?](#)

IAX2 - 4569 TCP/UDP?

- 2. Port Forwarding
?? SIP?RTP?IAX2 ?????(?????)????? Elastix ??????????????

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- 1. ?????????? Elastix ??????
Ans??? ??? SIP Trunk ??? nat=yes?
- 2. ??????????????????????????????
Ans???????? RTP ??????????????
? ????????????????????? RTP ???
? ????????????? RTP ???
- 3. ??????????????????????????????
Ans????????????????????????????? Port forwarding for RTP????????????? SIP ??????????????
??
- 4. ??? RTP port ??????
Ans????????? 2 port??? A ??? B ??? 4 port???????????????????? 4 port?????????
- 5. ??? Router ????? Asterisk ??????????
Ans??? Router ??? SIP ALG(?????)?????????<http://www.sysfix.co.uk/blog/2011/01...-sip-asterisk/>
- 6. ????????? NAT ??????????????????????????
Ans???????????????? NAT ??????????????????????????
????????????????????????????????? keepalive?? register expire ?????????? keepalive?? register expire?????????

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????? 5060 port ???????
????????? Linux ?????????????????????? port 5060?
//????????????? ping ??????
#>nmap -sU -p 5060 <???? IP ?>

//????????????? ping ??????
#>nmap -P0 -p 5060 <???? IP ?>

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Starting Nmap 4.68 (<http://nmap.org>) at 2009-01-23 18:51 PST
 Interesting ports on 192.168.1.254:
 PORT STATE SERVICE
 5060/udp open|filtered sip

???????????

Starting Nmap 4.68 (<http://nmap.org>) at 2009-01-23 19:12 PST

Interesting ports on 192.168.1.254:

PORT STATE SERVICE

5060/udp closed sip

????? VoIP ? Router

????????????VoIP ????????????? NAT ???????? Router ??? VoIP ??
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????? VoIP ??? Router ?? VoIP ???

<http://businesssupport.vonage.com/ap...1546/kw/router> ?

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- Asterisk behind NAT
http://www.smartvox.co.uk/astfaq_configbehindnat.htm
- HOWTO Setup A Remote SIP Extension
<http://www.freepbx.org/support/docum...-sip-extension>