

Báo cáo thực hành cấu hình tổng đài Asterisk

NGÀY 15 THÁNG 8 NĂM 2023 / ĐẠI HỌC KHOA HỌC TỰ NHIÊN

Nhóm 4.1

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Nội dung báo cáo

Cấu hình ngữ cảnh gọi nội bộ

Cấu hình ngữ cảnh gọi từ trong ra ngoài

Cấu hình ngữ cảnh gọi nội bộ

- Cấu hình:

```
[6001]
type=friend
host=dynamic
secret=passwd6001
context=internal
```

sip.conf

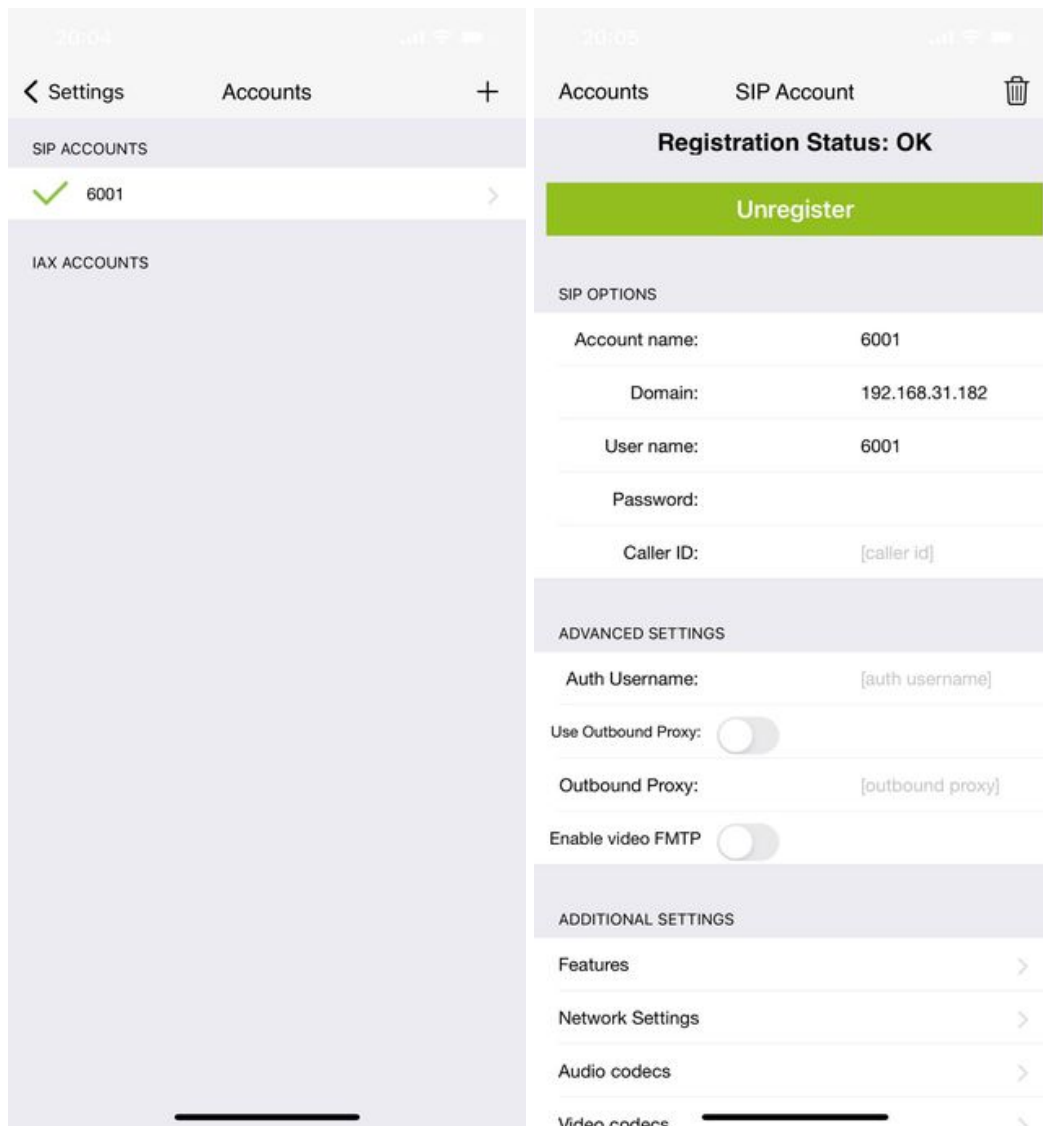
```
[6002]
type=friend
host=dynamic
secret=passwd6002
context=internal
```

extensions.conf

```
[6003]
type=friend
host=dynamic
secret=passwd6003
context=internal
```

```
[internal]
exten => 6001,1,Dial(SIP/6001)
exten => 6002,1,Dial(SIP/6002)
exten => 6003,1,Dial(SIP/6003)
```

- Đăng ký trên zoiper:



- Cấu hình meetme: (deprecated theo tìm hiểu)

- Tiến hành gọi:

```

root@pbx/etc/asterisk
Including switch 'Lua/' in context 'default'
Including switch 'Lua/' in context 'public'
Including switch 'Lua/' in context 'demo'
Including switch 'Lua/' in context 'local'
Time to scan old dialplan and merge leftovers back
Time to restore hints and swap in new dialplan: 0.
Time to delete the old dialplan: 0.000108 sec
Total time merge_contexts_delete: 0.000391 sec
pbx_config successfully loaded 51 contexts (enable
[Aug 18 20:03:19] WARNING[18310]: pbx.c:8797 ast_context_
Registered SIP '6001' at 192.168.31.18:57353
Saved useragent "Zoiper v2.10.19.5" for peer 600
Registered SIP '6001' at 192.168.31.182:40759
Saved useragent "calls sofia-sip/1.13.7" for pee
Registered SIP '6002' at 192.168.31.182:52803
Registered SIP '6003' at 192.168.31.182:33002
[Aug 18 20:05:03] NOTICE[18026]: chan_sip.c:30555 sip_po
Registered SIP '6001' at 192.168.31.18:57353
Saved useragent "Zoiper v2.10.19.5" for peer 600
[Aug 18 20:06:23] WARNING[18026]: acl.c:1029 ast_ouraddrf
[Aug 18 20:06:23] WARNING[18026]: chan_sip.c:3848 __sip_>
unreachable
[Aug 18 20:06:23] ERROR[18026]: chan_sip.c:4354 __sip_rel
[Aug 18 20:06:37] NOTICE[18026]: chan_sip.c:25009 handle_
Registered SIP '6001' at 192.168.2.70:57353
Registered SIP '6003' at 192.168.2.216:35517
Registered SIP '6002' at 192.168.2.216:42525
Using SIP RTP CoS mark 5
0x7fe05c045810 -- Strict RTP learning after remote address set to: 192.168.2.70:58495
Executing [6002@internal:1] Dial("SIP/6001-00000000", "SIP/6002") in new stack
Using SIP RTP CoS mark 5
Called SIP/6002
pbx*CLI>

```

Incoming phone call

6001

sip:6001@192.168.2.216

6

This call is not encrypted

tries to include nonexistent context 'iaxtel700'

UNREACHABLE! Last qualify: 146

.8: Network is unreachable
(len 599) to 113.164.246.8:50061 returned -2: Network is
le; __sip_xmit returns error for pkt data
' is now Reachable. (7ms / 2000ms)

```

root@pbx/etc/asterisk
Total time merge_contexts_delete: 0.000391 sec
pbx_config successfully loaded 51 contexts (enable
[Aug 18 20:03:19] WARNING[18310]: pbx.c:8797 ast_context_
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Registered SIP '6001' at 192.168.2.70:57353
Registered SIP '6003' at 192.168.2.216:35517
Registered SIP '6002' at 192.168.2.216:42525
Using SIP RTP CoS mark 5
0x7fe05c045810 -- Strict RTP learning after remc
Executing [6002@internal:1] Dial("SIP/6001-00000000", "SIP/6002") in new stack
Using SIP RTP CoS mark 5
Called SIP/6002
0x7fe0d4004960 -- Strict RTP learning after remote address set to: 192.168.2.216:60952
SIP/6002-00000000a answered SIP/6001-000000000
Channel SIP/6002-00000000a joined 'simple_bridge' basic-bridge <bdbfd2c1-479f-40f4-9c8d-14560b4a6066>
Channel SIP/6001-000000009 joined 'simple_bridge' basic-bridge <bdbfd2c1-479f-40f4-9c8d-14560b4a6066>
Bridge bdbfd2c1-479f-40f4-9c8d-14560b4a6066: switching from simple_bridge technology to native_rtp
Remotely bridged 'SIP/6001-000000009' and 'SIP/6002-00000000a' - media will flow directly between them
0x7fe05c045810 -- Strict RTP switching to RTP target address 192.168.2.70:58495 as source
pbx*CLI>

```

6001

sip:6001@192.168.2.216

6

00:19

This call is not encrypted

Mute Speaker Add call

Hold Dial Pad

tries to include nonexistent context 'iaxtel700'

UNREACHABLE! Last qualify: 146

.8: Network is unreachable
(len 599) to 113.164.246.8:50061 returned -2: Network is
le; __sip_xmit returns error for pkt data
' is now Reachable. (7ms / 2000ms)

8495

Cấu hình ngữ cảnh gọi từ trong ra ngoài

- Cấu hình:

sip.conf

```
[provider]
username=9822017907
type=friend
fromuser=9822017907
secret=1652987459
host=sip.tel4vn.com
port=50061
nat=force_report,comedia
qualify=yes
disallow=all
context=from-trunk
allow=ulaw,alaw
```

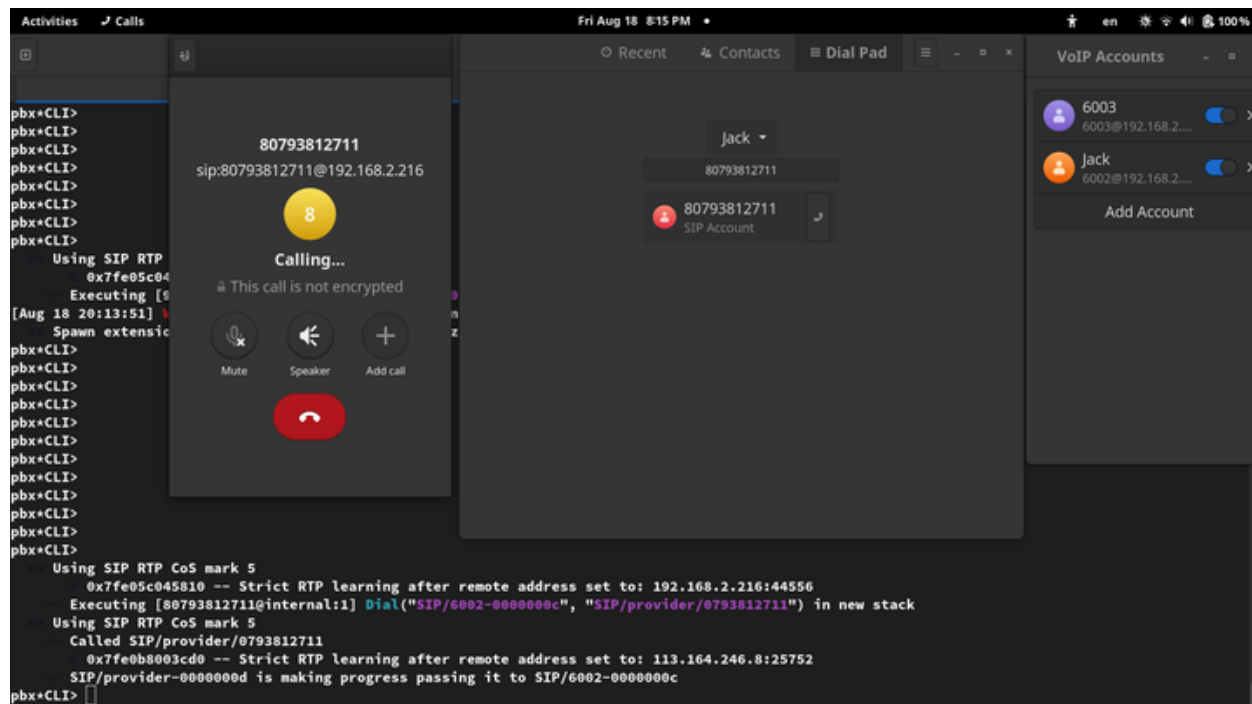
extentions.conf

```
exten => _8XXXXXXXXXX,1,Dial(SIP/provider/${EXTEN:1})
```

- Đăng ký provider thành công:

```
[Aug 18 20:06:37] NOTICE[18026]: chan_sip.c:25009 handle_response_peerpoke: Peer 'provider' is now Reachable. (7ms / 2000ms)
Registered SIP '6001' at 192.168.2.70:57353
Registered SIP '6003' at 192.168.2.216:35517
Registered SIP '6002' at 192.168.2.216:42525
pbx*CLI> █
```

- **Gọi thử:**



- Cuộc gọi đến số máy ngoài:



Tham khảo:

- [Deprecate meetme](#)
- [Asterisk](#)
- [voip-info.org](#)
- [asteriskguru.com](#)