Sudo apt-get update -y

Sudo apt-get install asterisk -y

Sudo asterisk -r

Exit

Cd /etc/asterisk

Ls

Cau hinh sip.conf vaf extensions.conf vaf voicemail.conf

* sao luu:
  + sudo mv sip.conf sip.conf.backup
  + sudo mv extensions.conf extensions.conf.backup
  + sudo mv voicemail.conf voicemail.conf.backup
* cau hinh
  + sudo gedit sip.conf

[general]

Context=internal

Allowguest=no

Allowoverlap=no

Bindport=5060

Bindaddr=0.0.0.0

Srvlookup=no

Disallow=ulaw

Alwaysauthreject=yes

Canreinvite=no

Nat=yes

Session-timer=refuse

Localnet=192.168.1.1/255.255.255.0

[8001]

Type=friend

Host=dynamic

Secret=8001

Context=internal

[8002]

Type=friend

Host=dynamic

Secret=8002

Context=internal

* + Sudo gedit extensions.conf
    - E

[internal]

exten => 8001,1,Answer()

exten => 8001,2,Dial(SIP/8001,60)

exten => 8001,3,Playback (vm-nobodyavail)

exten => 8001,4,Voicemail(8001@main)

exten => 8001,5,Hangup()

exten => 8002,1,Answer()

exten => 8002,2,Dial(SIP/8002,60)

exten => 8002,3,Playback (vm-nobodyavail)

exten => 8002,4,Voicemail(8002@main)

exten => 8002,5,Hangup()

exten => 9001, 1, VoicemailMain(8001@main)

exten => 9001, 2, Hangup()

exten => 9002, 1, VoicemailMain(8002@main)

exten => 9002, 2, Hangup()

* + Sudo gedit voicemail.conf
    - A

8001 => 8001

8002 => 8002

* + Sudo asterisk -r
    - Reload
    - Sip show peers
    - Voicemail show users
* Kiem thu
  + Gọi
* Cài công cụ convert Định dạng chuẩn cho Asterisk (mono, 8000 Hz, 16-bit PCM).
  + sudo apt install -y ffmpeg
  + sudo ffmpeg -i conmuangangqua.mp3 -ar 8000 -ac 1 -acodec pcm\_s16le conmuangangqua.wav
  + sudo chown asterisk:asterisk conmuangangqua.wav
  + sudo chmod 664 conmuangangqua.wav
* Cau hinh nang cao
* sudo apt install postfix mailutils libsasl2-2 ca-certificates libsasl2-modules –y

Cấu hình nâng cao:

CaseStudy:

Xây dựng hệ thống VoIP nội bộ cho công ty,

Cấu trúc phòng ban & số nội bộ

**Giám đốc & Thư ký:** 001, 002

**Nhân sự (HR):** 100 → 1001, 1002

**Kinh doanh (Sales):** 200 → 2003, 2004

**Marketing/CSKH:** 300 → 3005, 3006

**Lễ tân:** 400 → 4007, 4008

Sip.conf

[001]

type=friend

host=dynamic

secret=001

callerid="001 - Giam Doc" <001>

context=internal

[002]

type=friend

host=dynamic

secret=002

callerid="002 - Thu ky" <002>

context=internal

[1001]

type=friend

host=dynamic

secret=1001

callerid="1001 - Nhan su 1" <1001>

context=internal

[1002]

type=friend

host=dynamic

secret=1002

callerid="1002 - Nhan su 2" <1002>

context=internal

[2003]

type=friend

host=dynamic

secret=2003

callerid="2003 - Sale 1" <2003>

context=internal

[2004]

type=friend

host=dynamic

secret=2004

callerid="2004 - Sale 1" <2004>

context=internal

[3005]

type=friend

host=dynamic

secret=3005

callerid="3005 - CSKH 1" <3005>

context=internal

[3006]

type=friend

host=dynamic

secret=3006

callerid="3006 - CSKH 2" <3006>

context=internal

[4007]

type=friend

host=dynamic

secret=4007

callerid="4007 - Le tan 1" <4007>

context=internal

[4008]

type=friend

host=dynamic

secret=4008

callerid="4008 - Le tan 2" <4008>

context=internal

Cấu hình extentions.conf

A

[internal]

; Gọi thẳng tới từng extension SIP

;exten => 001,1,Dial(SIP/001,20)

; same => n,Voicemail(001@main,u)

; same => n,Hangup()

exten => 002,1,Dial(SIP/002,20)

same => n,Voicemail(002@main,u)

same => n,Hangup()

exten => 1001,1,Dial(SIP/1001,20)

same => n,Voicemail(1001@main,u)

same => n,Hangup()

exten => 1002,1,Dial(SIP/1002,20)

same => n,Voicemail(1002@main,u)

same => n,Hangup()

exten => 2003,1,Dial(SIP/2003,20)

same => n,Voicemail(2003@main,u)

same => n,Hangup()

exten => 2004,1,Dial(SIP/2004,20)

same => n,Voicemail(2004@main,u)

same => n,Hangup()

exten => 3005,1,Dial(SIP/3005,20)

same => n,Voicemail(3005@main,u)

same => n,Hangup()

exten => 3006,1,Dial(SIP/3006,20)

same => n,Voicemail(3006@main,u)

same => n,Hangup()

exten => 4007,1,Dial(SIP/4007,20)

same => n,Voicemail(4007@main,u)

same => n,Hangup()

exten => 4008,1,Dial(SIP/4008,20)

same => n,Voicemail(4008@main,u)

same => n,Hangup()

;gọi theo phòng ban

;Phòng nhân sự HR [100]

exten => 100,1,Dial(SIP/1001&SIP/1002,20)

same => n,Voicemail(100@main,u)

same => n,Hangup()

;Phòng kinh doanh Sales [200]

exten => 200,1,Dial(SIP/2003&SIP/2004,20)

same => n,Voicemail(200@main,u)

same => n,Hangup()

;Phòng CSKH [300]

exten => 300,1,Dial(SIP/3005&SIP/3006,20)

same => n,Voicemail(300@main,u)

same => n,Hangup()

;Quầy Lễ tân [400]

exten => 400,1,Dial(SIP/4007&SIP/4008,20)

same => n,Voicemail(400@main,u)

same => n,Hangup()

; Phím 1 → Sales

exten => 1,1,Goto(internal,200,1)

; Phím 2 → CSKH

exten => 2,1,Goto(internal,300,1)

; Phím 0 → Le tan

exten => 0,1,Goto(internal,400,1)

Cấu hình voicemail.conf

;001 => 001,User 8001,user8001@mydomain.com

;8002 => 1234,User 8002,user8002@mydomain.com

;8003 => 1234,User 8003,user8003@mydomain.com

001 => 001

002 => 002

100 => 100

200 => 200

300 => 300

400 => 400

1001 => 1001

1002 => 1002

2003 => 2003

2004 => 2004

3005 => 3005

3006 => 3006

4007 => 4007

4008 => 4008