

## Cis 218 – Intro to VoIP

What we have accomplished so far:

Installed Debian Linux and configured our network.

Installed Asterisk

=====  
Configured `/etc/asterisk/sip.conf` for our phones.

This is what mine looks like, use your own MAC and extensions as appropriate.

```
[0004F21E01EB] ; Use your MAC address
type=friend
context=default
secret=3210 ; Use your extension
host=dynamic
qualify=yes
dtmfmode=rfc2833
defaultuser=3210 : Use your extension
disallow=all
allow=ulaw
nat=yes
progressinband=no
mailbox = 3210 ; Use your mail box
```

=====  
Configured `/etc/asterisk/extensions.conf` for our initial dialplan.  
Use your Mac address and extensions as appropriate.

```
[default]
;
; By default we include the demo. In a production system, you
; probably don't want to have the demo there.
;
include => demo
include => time

exten => 8500,1,VoicemailMain
exten => 8500,n,Hangup()

exten => 3211,1,Gosub(time)

exten => 3210,1,Dial(SIP/0004F21E01EB,10,rt)
exten => 3210,n,Voicemail(3210,u)
exten => 3210,n,Hangup()
exten => 3210,n,dial+101,Voicemail(3210,b)
```

**; Dialing other systems in the room**

**exten => \_XXXX,1,Set(IPtocal=\${\${EXTEN:0:2} - 20})**

**exten => \_XXXX,n,Dial(SIP/10.227.5.\${IPtocal}/\${EXTEN},25,rt)**

**exten => \_XXXX,n,Hangup()**

=====  
Configured `/etc/asterisk/voicemail.conf` for our voice mail

**[default]**

**1234 => 4242,Example Mailbox,root@localhost**

**3210 => 3210,George Cohn ; Use your mailbox and name**

=====  
Spent some time looking at the GUI phone config using Firefox to correct some issues with ip addresses and other parameters.

At this point you should be able to call each other and leave messages on voice mail.

We will begin exploring other options such as menus or IVR, acd queues, trunking, conference rooms, and installing AsteriskNOW which is a canned application of Asterisk with a GUI interface to manage it.

Other topics to be explored as class interests dictate.

Hopefully I have explained how these various configs work but if you are still unsure, ask in class.