VOIP Server

Wisdom Orji

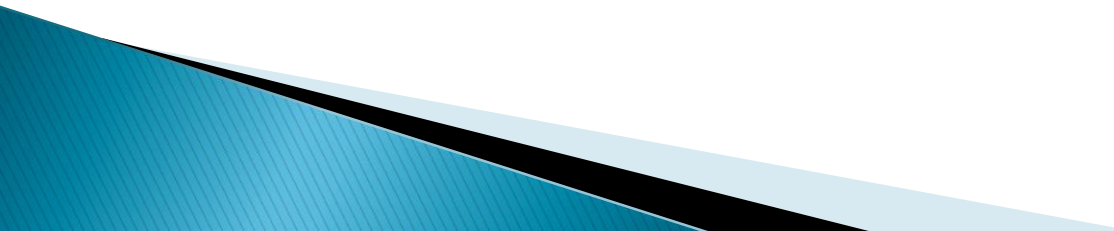# Goal

- The purpose of this assignment was to be able to turn the Raspberry Pi into a router that would manage incoming and outgoing calls from two computers.

What is VOIP

- Skype, Google Talk
- Allows communication between devices over the internet

Aterisk

- Open source PBX (Private Branch Exchange)
- Used to manage calls, enable features, and connect callers to the outside world over IP (Internet Protocol)
- Extremely vast and powerful
- Extremely confusing

Setting up Asterisk

- $: cd ..
- $: sudo tar xvfz asterisk-11-current.tar.gz
- $: cd asterisk-11.0.1
- $: sudo ./configure --libdir=/usr/lib64 && make menuselect && make && make install && make config && make samples
  $: sudo /etc/init.d/asterisk start

```
sudo tar xzvf asterisk-addons--1.6.2.4.tar.gz
$: cd asterisk-addons-*
$: sudo ./configure
$: sudo make
$: sudo make install
$: sudo make samples
```

manager.conf

$: sudo nano /etc/asterisk/manager.conf

[general]
enabled=yes
webenabled=yes

[admin]
secret= saltshaka
read=system,call,log,verbose,command,agent,user,config,originate,read,write
write=system,call,log,verbose,command,agent,user,config,originate,read,write

http.conf

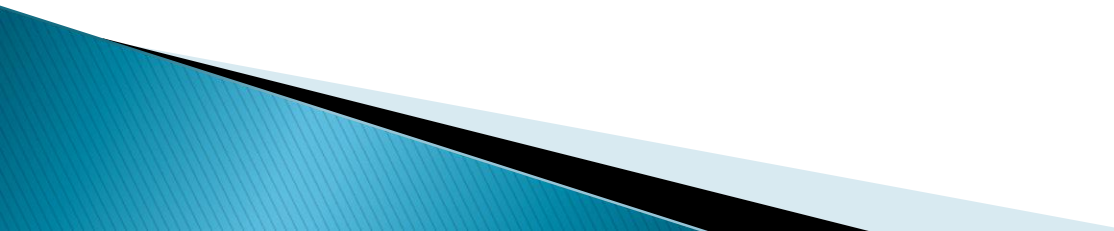sudo nano /etc/asterisk/http.conf

Given:

[general]

enabled=yes

bindaddr=0.0.0.0 (CHANGE IP, Depends on where your pi is hooked up)

bindport=8088

prefix=asterisk

enablestatic=yes

Asterisk Gui

Problems Faced

- Finding missing files and packages that were missing from some of the documentation
- Sifting through all the documentation from various people
- Setting up the sip.conf and extensions.conf files in order to tell asterisk which phone calls to accept.
- Getting the Asterisk GUI to work.

Conclusion/What I learned

- The task was not as simple as I was led to believe, at least not for me.
- I am less of a novice with the command line
- Thorough documentation is a blessing and is surprisingly scarce.
- Solving errors is the best feeling in the world.
- For the future I would like for my to try and figure out where I went wrong and hopefully set it up in my house and have my house phones using it.