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FreePBX and Asterisk Setup

By: VoIP My Way Date: 11/1/2010

NAT FIX: READ MY ARTICLE HERE

<http://www.digitaloffensive.com/2010/05/overcoming-sip-over-nat/>

Steps for PBX:

1. Create trunk:

Click on trunks and create new SIP trunk.

GENERAL SETTINGS

1. Trunk name is whatever you want it to be
2. Caller ID is <"10_Digit_number">

OUTGOING SETTINGS

1. Trunk name: Same as above
2. Peer details

```
username=10_Digit_number  
type=peer  
secret=password  
qualify=2000  
nat=no  
insecure=port,invite  
host=sip.voipwelcome.com  
dtmfmode=auto  
context=from-trunk  
canreinvite=no
```

INCOMING SETTINGS

LEAVE BLANK

REGISTRATION

1. Register String

[10_Digit_number:password@sip.voipwelcome.com:5060/10_Digit_number](tel:10_Digit_number:password@sip.voipwelcome.com:5060/10_Digit_number)

Save and apply settings

** Note repeat above process to allow more then 1 call in and out at same time, but change the port in the registration string by incrementing by 1 IE. 5061

Step 2:

CREATE OUTBOUND ROUTE:

1. Give the route a name
2. I leave Caller ID blank as it will get it from the trunk but you can set it if you want.
3. Use the dial pattern wizard
 - a. choose 7/10
 - b. Choose long distance
 - c. Choose information
 - d. and so on
4. Choose the trunk you just created
- 5 Save and apply changes

Create at least 1 extension:

1. Create Generic SP Device
2. Choose extension to use (use at least 4 digit ones to avoid conflicts with built in special extensions)
3. Enter extension again for SIP Alias. (If you want to set a name for the extension you can, IE front desk)
4. Jump down to DEVICE OPTIONS
 - a. Secret: make this hard as this is the number 1 way phone systems are hacked.
5. VOICEMAIL & DIRECTORY: If this is enabled the voicemail will not b accessible through my portal but that is not an issue as asterisk will mail you when you have a message as well as provides a web page to access your voicemail.
 - a. enable
 - b. set min 5 digit password (longer the better)
 - c. set a email address
 - d. Email attachment put your email address (this will send you a copy as a wav)

6. SAVE AND APPLY SETTINGS

CREATE INBOUND ROUTE

1. Click on inbound routes
2. DESCRIPTION: Give it a name
3. DID NUMBER: 10_Digit_number
4. Skip down to SET DESTINATION
 - a. use the drop down menu and choose extension. Then select the extension you just created.

** IF YOU CREATED A IVR (digital receptionist, select that)

5. SAVE AND APPLY SETTINGS.
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REGISTER A PHONE TO THE SYSTEM

Use the extension information as well as the IP of your asterisk server to configure the phone to register

Once the phone is registered place a call.