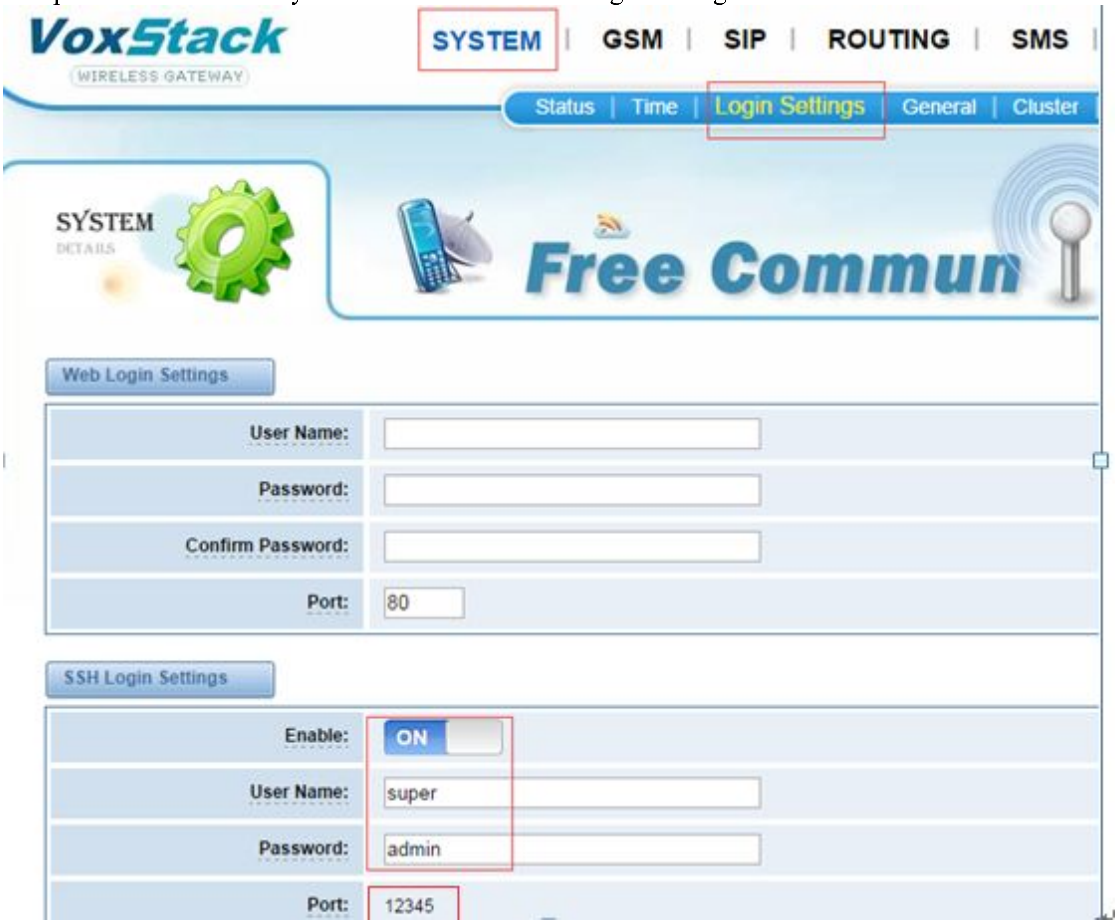
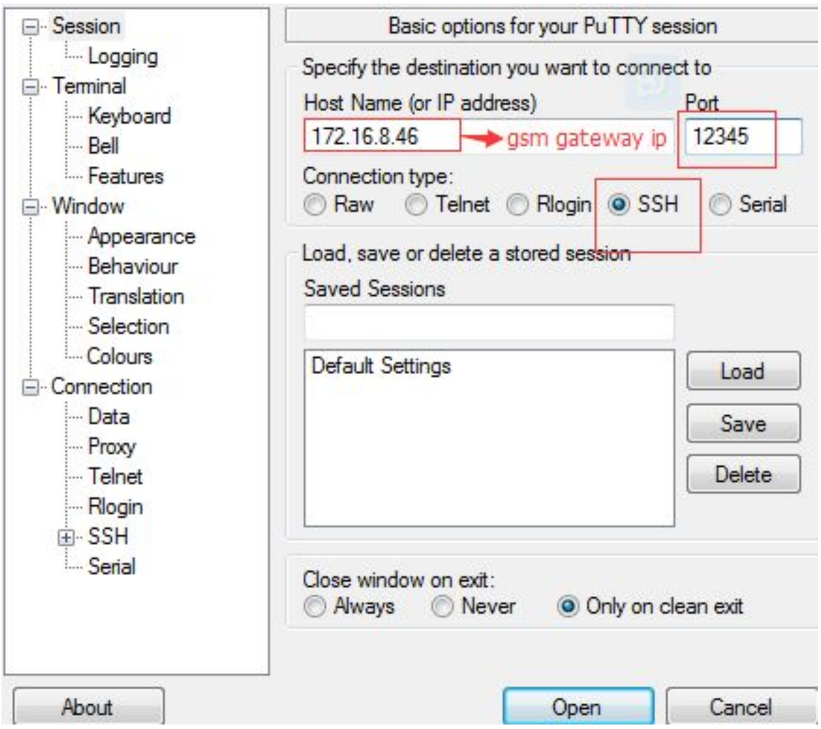
Gsm Gateway Connect with Asterisk

The picture below shows you how to enable the ssh login settings.



Step1: Enter the gsm gateway via ssh.



Edit the /etc/asterisk/modules.conf, change the ";load => chan_iax2.so" to "load => chan_iax2.so" at the end of the file.

Step 2: config the IAX trunk settings as below:

1. none mode (no secret or the gateway will not send a call out seccessfully.)

step 1： config the iax trunk.

Edit the /etc/asterisk/iax.conf file of gsm gateway, and add a trunk as below. After this, you need to reload the file in the asterisk.

[1001]
*host=***Asterisk Server IP****
type=friend
context=from-iax

Create a IAX trunk for the Asterisk server like below.

[1001]
*host=***GSM gateway IP****
type=friend
context=from-iax

step 2 : config a sip extension for testing in both gateway and your Asterisk server

GSM Gateway

[1112]
username=1112
secret=1112
host=dynamic
type=friend
context=from-internal

Asterisk Server

[16200]
username=16200
secret=16200
type=friend
host=dynamic
context=from-internal

step 3 : config the dialplan \

The dial pattern about IAX2 must be Dial(IAX2/sip username@server IP, or the call will drop.

Config the dialplan of your gsm gateway

[from-internal]
exten => _X.,1,Dial(IAX2/1001@you PBX IP/${EXTEN})
exten => _X.,n,Hangup()
[from-iax]
exten => _X.,1,Dial(SIP/${EXTEN})
exten => _X.,n,Hangup()

config the dialplan of your asterisk server

[from-internal]
exten => _X.,1,Dial(IAX2/1001@gsm gateway IP/${EXTEN})
exten => _X.,2,hangup()

[from-iax]

exten => _X.,1,Dial(SIP/${EXTEN})

exten => _X.,n,Hangup()

step 4： make calls to test

2. register mode (this gateway register to asterisk server)

step 1： config the iax trunk

Edit the /etc/asterisk/iax.conf file of gsm gateway, and add a trunk as below. After this, you need to reload the file in the asterisk.

[general]

*register => 1001@***Asterisk Server IP****

[1001]

*host=***Asterisk Server IP****

type=friend

context=from-iax

Create an IAX trunk in the Asterisk server like below

[1001]

host=dynamic

type=friend

context=from-iax

step 2 : config the sip extension for testing

step 3 : config the dialplan

Config the dialplan of your gsm gateway

[from-internal]

exten => _X.,1,Dial(IAX2/1001@Asterisk Server IP/${EXTEN})

exten => _X.,n,Hangup()

[from-iax]

exten => _X.,1,Dial(SIP/${EXTEN})

exten => _X.,n,Hangup()

config the dialplan of your Asterisk Server

[from-internal]

exten => _X.,1,Dial(IAX2/1001@gsm gateway IP/${EXTEN})

exten => _X.,2,hangup()

[from-iax]

exten => _X.,1,Dial(SIP/${EXTEN})

exten => _X.,n,Hangup()

step 4： make calls to test

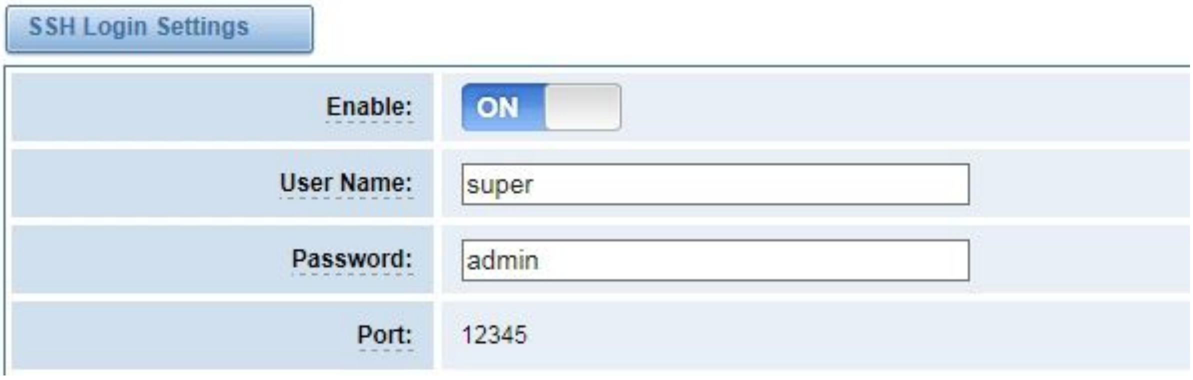
Notice: if you just using IAX2 to make calls from iax2 trunk to gsm ports, then you can add the custom dialplan in the extensions_custom.conf file.

If you want to make calls incoming from gsm ports to iax2 trunk, follow the steps below:

step 1: login the gateway via ssh.

To do this, you need go to SYSTEM ----> Login Settings and config ssh as following figure.

warning: the user name must be super.



step 2: edit the file /etc/asterisk/extensions_custom.conf and create your own dialplan.

step 3: execute following command:

vi /etc/asterisk/gw/custom.sh

and add two lines:

echo > /etc/asterisk/extensions_routing.conf // this will clean up the file extensions_routing.conf

asterisk -rx "core reload"

step 4: run the command: /my_tools/sync2flash

step 5: reboot the gateway