


```
yum install python-setuptools MySQL-python
```

```
Python ?? - sqlalchemy
```

```
easy_install sqlalchemy
```

```
????
```

```
cd /usr/src/a2billing
```

```
cd CallBack/callback-daemon-py
```

```
cp build/lib/callback_daemon/a2b-callback-daemon.rc /etc/init.d/a2b-callback-daemon
```

```
chmod +x /etc/init.d/a2b-callback-daemon
```

```
cp dist/callback_daemon-1.0.prod-r1528.tar.gz /tmp
```

```
cd /tmp
```

```
tar xvfz callback_daemon-1.0.prod-r1528.tar.gz
```

```
cd callback_daemon-1.0.prod-r1528
```

```
python setup.py build
```

```
python setup.py bdist_egg
```

```
easy_install dist/callback_daemon-1.0.prod_r1528-py2.4.egg
```

```
chkconfig --add a2b-callback-daemon
```

```
service a2b-callback-daemon start
```

```
chkconfig a2b-callback-daemon on
```

```
??????
```

```
1. ???????
```

```
ps -ef | grep a2b
```

```
root 6555 1 0 14:05 ? 00:00:03 /usr/bin/python /usr/bin/a2b_callback_daemon
```

```
2. log ? /var/log/a2billing/a2b-callback-daemon.log ??????
```

```
tail -f /var/log/a2billing/a2b-callback-daemon.log
```

```
...
```

```
"2011-06-24 15:31:35,549 - root - MainThread - INFO - waiting..."
```

```
"2011-06-24 15:31:40,901 - root - MainThread - INFO - waiting..."
```

```
"2011-06-24 15:31:47,037 - root - MainThread - INFO - waiting..."
```

A2B ??

?? manager ?????

A2B Admin > CALLBACK > Server Group

Name = default

Description = default group of server

A2B Admin > CALLBACK > Server

Group = default
 Server Hostname = localhost
 Manager Host = localhost
 Manager Username = myasterisk
 Manager Password = mycode

??????? manager.conf ???

???CID?????

????????????????????(CID)???????????????????? A2B ? Access Number?

A2B Admin > CUSTOMERS > Caller-ID > Add CallerID

CallerID = ??????????
 Activated = Yes
 ID Card = ????????

????????????????????????????????

Tips:

????????? CID ?????????? A2B ? Access Number ??????????

?? A2B ??? *??*

?? Callback ?????????? Asterisk 1.4.x????? Asterisk 1.6.x ????????????

A2B Admin > SYSTEM SETTINGS > Global List > Select Group: global

asterisk_version = 1_6 (??????? agi-confX ???)

Tips:

?????? callback ?????????????? |(pipe) ?? ,(comma)?

Callback ? dialplan

for Web Callback)

?????? dialplan?

for CID Callback)

?? /etc/asterisk/extensions_a2billing_1_6.conf

[mya2b-cid-callback]

exten => s,1,DeadAgi(a2billing.php,1,cid-callback,99) ;last parameter is the callback area code

exten => h,1,Hangup

Notes:

99 ?????????????? prefix code????????????????

for CID-Prompt Callback)

?? /etc/asterisk/extensions_a2billing_1_6.conf

[mya2b-cid-prompt-callback]

exten => s,1,DeadAgi(a2billing.php,1,cid-prompt-callback,99) ;last parameter is the callback area code

exten => h,1,Hangup

for DID Callback)

?? /etc/asterisk/extensions_a2billing_1_6.conf

[mya2b-all-callback]

; the next 4 lines are to strip the leading 0

;exten => s,1,GotoIf(["\${CALLERID(num):0:1}" != "0"]?nozeroatstart)

;exten => s,n,NoOp(Changing Caller ID number from \${CALLERID(num)} to \${CALLERID(num):1})

;exten => s,n,Set(CALLERID(num)=\${CALLERID(num):1})

;exten => s,n(nozeroatstart),NoOp(Start A2Billing)

exten => s,1,DeadAgi(a2billing.php,1,all-callback,99) ;last parameter is the callback area code

exten => h,1,Hangup

Inbound Route ??

? CID-Callback ???

freePBX > Tools > Custom Destinations

Custom Destination = **mya2b-cid-callback,s,1**

Description = **mya2b_cid_callback**

freePBX > Setup > Inbound Routes > Add Incoming Route

DID Number = <A2B ? Access Number>

Set Destination = Custom Destination: **mya2b_cid_callback**

Callback ? Outbound

?? callback ? outbound ??????????

- ????? callback ?????????? outbound call??
- ??? Outbound Call????????????????????????
- ?? agi-confX > **callback_bill_1stleg_ifcall_notconnected = No??**
- dialplan ??? 99, rate, trunk ?? outbound route ??????

FAQ

Q:?? Asterisk ??????????????

Ans: ?? Asterisk ?????????????? a2b-callback-daemon?

Q:????????????

Ans: A2B Admin > SYSTEM SETTINGS > Global List > Select Group: agi-confX

say_timetocall = No

Q:?????? log

Ans: A2B Admin > SYSTEM SETTINGS > Global List > Select Group: agi-confX

logging_level = 3 (??? 0)

Q:?? /var/log/a2billing/a2b-callback-daemon.log??????

"2011-06-24 13:56:42,538 - root - MainThread - INFO - [<callback_daemon.database.CallBack_Spool object at 0xb5aadd4c>]"

"2011-06-24 13:56:42,551 - root - MainThread - INFO - try_originate : SIP/sip2sip-0/800677522 : 1000 : a2billing-callback"

"2011-06-24 13:56:42,552 - root - MainThread - INFO - CallBack Status : Error"

"2011-06-24 13:56:42,557 - root - MainThread - INFO - [2011/06/24 13:56:42] Placed 17 calls"

"2011-06-24 13:56:47,703 - root - MainThread - INFO - waiting..."

Ans: ???????

1. manager.conf ?????? A2B ???(CALLBACK > Server)???
2. manager.conf ???????

[myasterisk]

secret = mycode

deny = 0.0.0.0/0.0.0.0

permit = 127.0.0.1/255.255.255.0

read = system,call,log,verbose,agent,user,config,dtmf,reporting,cdr,dialplan

write = system,call,agent,user,config,command,reporting,originate

Q:?? /var/log/asterisk/full??????

[2011-06-24 14:13:50] VERBOSE[6569] manager.c: == Manager 'myasterisk' logged off from 127.0.0.1

[2011-06-24 14:13:50] NOTICE[6701] manager.c: 127.0.0.1 failed to authenticate as 'myasterisk'

[2011-06-24 14:13:51] VERBOSE[6701] manager.c: == Connect attempt from '127.0.0.1' unable to authenticate

Ans: ?? A2B > CALLBACK > Server > ???????? /etc/asterisk/manager.conf ???