asterisk 自动录音(AMI 接口实现)

版本: 1.0.0

作者: Mike E-Mail: Mike Zhang@live.com 一、实现 Asterisk 来电自动录音 原理: 通过监控 asterisk 的事件, 检测 Dial 事件, 然后进行录音。 1、录音代码 核心功能代码: def strMonitor(strChannel, fileName): msg = "Action: Command\r\n" # mixmonitor start SIP/1005-00000006 1005006.gsm msg += "Command: mixmonitor start "+strChannel+" "+fileName+"\r\n" $msq += "\r\n"$ return msg 2、监控所有号码 python 实现代码: File : astMonitor all.py : Mike Author E-Mail : Mike Zhang@live.com import socket import time bufLen = 1024 * 10def strLogin(userName, passwd): msg = 'Action: login\r\n' msg += 'UserName: '+userName+'\r\n' msg += 'Secret: '+passwd+'\r\n' $msg += '\r\n'$ return msq def strMonitor(strChannel, fileName): msg = "Action: Command\r\n" # mixmonitor start SIP/1005-00000006 1005006.gsm msg += "Command: mixmonitor start "+strChannel+" "+fileName+"\r\n" $msg += "\r\n"$ #print msg return msq def splitEvent(strContent): eventMap = {} tmpArr = strContent.split("\r\n") lable = ": " for cnt in tmpArr: #print "line => ",cnt pos = cnt.find(lable) if pos > -1: tmpKey = cnt[pos+len(lable):] #print 'tmp key : ',tmpKey eventMap[cnt[0:pos]] = tmpKey

```
return eventMap
def main():
      s = socket.socket(socket.AF INET, socket.SOCK STREAM)
      #s.connect((raw input("Input ip : "), 5038))
      s.connect(("192.168.18.178", 5038))
      if not s :
             print "Connect fail!"
      #s.send(strLogin(raw input("Input user name :"), raw input("Input password
:")))
      s.send(strLogin("admin9","123456"))
      strContent = ""
      print 'Asterisk Monitor all ... '
      lable = "Event: "
      while True:
             data = s.recv(bufLen)
             if len(data) > 0 : strContent += data
             tmpArr = strContent.split("\r\n\r\n")
             for cnt in tmpArr:
                    pos = cnt.find(lable)
                    if pos > -1:
                           tmpKey = cnt[pos+len(lable):cnt.find('\r\n')]
                           #print tmpKey
                           if 'Dial' == tmpKey :
                                 #print cnt
                                 eventMap = splitEvent(cnt)
                                 print "Subevent : ", eventMap['SubEvent']
                                 if 'Begin' == eventMap['SubEvent']:
                                        chnl = splitEvent(cnt)['Channel']
                                        fileName = chnl[chnl.find('/')
+1:chnl.find('-')]+' '+str(int(time.time()))+'.gsm'
                                        print 'Begin record ', chnl
                                        print 'file name : ',fileName
                                        s.send(strMonitor(chnl, fileName))
             strContent = ""
if name == ' main ':
      ret = main()
运行效果:
```

```
ðh:00m:06s, 1st res in 438 ms, conn in 443ms
                                                                       SIP address or phone
Not active Crypto-suite: (null)
, sendrecv, peer=192.168.18.178:24614
                                                                        1004
stat last update: 00h:00m:01.327s ago
320pkt 51.2KB (64.0KB +IP hdr) @avg=63.6Kbps/79.5Kbps
ss=0 (0.0%), discrd=0 (0.0%), dup=0 (0.0%), reord=0 (0.0%)
                                                                             Keypad
                                                                Contacts
(msec)
         min
                  avg
                          max
                                  last
                                          dev
eriod:
        0.000
                 0.000
                         0.000
                                 0.000
                                         0.000
                                                               Contact list
        1.500 18.918 20.625 20.125
                                          2.931
ptime=20ms, stat la;
                    C:\Python27\python.exe
321pkt 51.3KB <64.2
ss=0 (0.0%), dup=0
                    Asterisk Monitor all
(msec)
         min
                    Subevent : Begin
        0.000
                Ø.
eriod:
                    Begin record SIP/1003-00000000
        1.375
                 1.
                    file name : 1003_1332984858.gsm
                 2.
        2.334
                    Subevent : End
isua_media.c Media
isua_media.c Closi
jsua_media.c Closi
oture device
 wmme_dev.c Stopp
 wmme_dev.c Stopp
 wmme dev.c Stop
```

3、监控指定号码

监控指定号码,并主动实现主被叫情况下的自动录音。 python 实现代码:

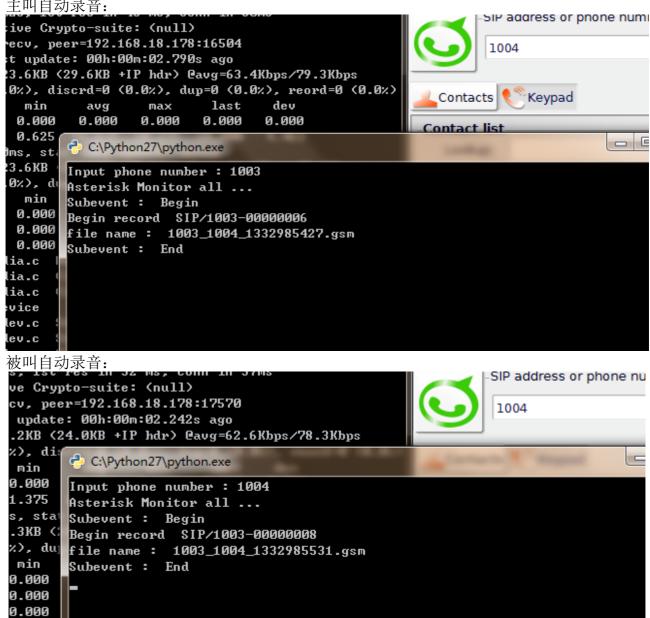
```
File
                : astMonitor_single.py
                : Mike
      Author
                 : Mike Zhang@live.com
      E-Mail
. . .
import socket
import time
bufLen = 1024 * 10
def strLogin(userName, passwd):
      msg = 'Action: login\r\n'
      msg += 'UserName: '+userName+'\r\n'
      msg += 'Secret: '+passwd+'\r\n'
      msq += '\r\n'
      return msg
def strMonitor(strChannel, fileName):
      msg = "Action: Command\r\n"
       # mixmonitor start SIP/1005-00000006 1005006.gsm
      msg += "Command: mixmonitor start "+strChannel+" "+fileName+"\r\n"
      msg += "\r\n"
       #print msg
      return msg
def splitEvent(strContent):
       eventMap = {}
       tmpArr = strContent.split("\r\n")
       lable = ": "
       for cnt in tmpArr:
             #print "line => ",cnt
             pos = cnt.find(lable)
```

```
if pos > -1:
                    tmpKey = cnt[pos+len(lable):]
                    #print 'tmp key : ',tmpKey
                    eventMap[cnt[0:pos]] = tmpKey
      return eventMap
def chkDialAndMonitor(pNum, pos, cnt, lable, s):
      tmpKey = cnt[pos+len(lable):cnt.find('\r\n')]
      #print tmpKey
      if 'Dial' == tmpKey :
             #print cnt
             eventMap = splitEvent(cnt)
             print "Subevent : ", eventMap['SubEvent']
             if 'Begin' == eventMap['SubEvent']:
                    srcChnl = eventMap['Channel']
                    srcNum = srcChnl[srcChnl.find('/')+1:srcChnl.find('-')]
                    dstChnl = eventMap['Destination']
                    dstNum = dstChnl[dstChnl.find('/')+1:dstChnl.find('-')]
                    fileName = srcNum + " " + dstNum +' '+str(int(time.time()))
+'.gsm'
                    if pNum == srcNum or pNum == dstNum :
                           #fileName = phoneNumber1+' '+str(int(time.time()))
+'.gsm'
                           #fileName = pNum+' '+str(int(time.time()))+'.gsm'
                           print 'Begin record ',srcChnl
                           print 'file name : ',fileName
                           s.send(strMonitor(srcChnl, fileName))
def main():
      s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
      #s.connect((raw input("Input ip : "), 5038))
      s.connect(("192.168.18.178", 5038))
      if not s :
             print "Connect fail!"
             return
      #s.send(strLogin(raw input("Input user name :"), raw input("Input password
:")))
      s.send(strLogin("admin9","123456"))
      strContent = ""
      pNum = raw input("Input phone number : ")
      print 'Asterisk Monitor all ... '
      lable = "Event: "
      while True:
             data = s.recv(bufLen)
             if len(data) > 0 : strContent += data
             tmpArr = strContent.split("\r\n\r\n")
             for cnt in tmpArr:
                    pos = cnt.find(lable)
                    if pos > -1:
                           chkDialAndMonitor(pNum, pos, cnt, lable, s)
```

```
strContent = ""
if __name_ == ' main ':
      ret = main()
```

运行效果

主叫自动录音:



- 二、配置服务端自动运行
- 1、配置 asterisk 开机启动:
- (1) 进入 asterisk 的源码文件所在的目录,运行: make config //配置自动启动
- (2) chkconfig --list 检查 asterisk 的启动状态。
- (3) 重启系统,进行测试
- 2、配置监控程序开机自启动

以配置监控所有号码为例:

执行 vi /etc/rc.d/rc.local

```
[root@voip monitor]# vi /etc/rc.d/rc.local
```

添加:

python/root/astMonitor all.py &

```
# This script will be executed *after* all the other init
# You can put your own initialization stuff in here if you
# want to do the full Sys V style init stuff.

touch /var/lock/subsys/local
python /root/astMonitor_all.py &
~
~
~
~
```

- 三、其它问题处理
- 1、服务器配置成功,如果遇到电话无法注册问题,尝试关闭防火墙(或配置防火墙): setup --> Firewall configuration --> 去掉 Enable
- 2、asterisk 开机启动配置成功,但无法执行 cli 命令,具体表现为执行"asterisk -rvvvvvv"会报"Unable to connect to remote asterisk"的错误:

```
[root@host250 ~]# asterisk -rvvvvvvvv
Asterisk 1.8.7.0, Copyright (C) 1999 - 2011 Digium, Inc. and others.
Created by Mark Spencer <markster@digium.com>
Asterisk comes with ABSOLUTELY NO WARRANTY; type 'core show warranty' for detail s.
This is free software, with components licensed under the GNU General Public License version 2 and other licenses; you are welcome to redistribute it under certain conditions. Type 'core show license' for details.

== Parsing '/etc/asterisk/asterisk.conf': == Found
== Parsing '/etc/asterisk/extconfig.conf': == Found
Unable to connect to remote asterisk (does /var/run/asterisk/asterisk.ctl exist?
```

尝试关闭 SElinux(或配置 SElinux):

vi /etc/selinux/config

设置 SELINUX=disabled 并重启