Asterisk 安装

首先,确认安装环境,ubuntu13.04,Asterisk11.30,mysql5.5

1. 修改权限，方便后面工具的安装

sudo su –

2. 升级系统目前工具

apt-get update

apt-get dist-upgrade

3. 添加必要工具

apt-get install -y build-essential linux-headers-`uname -r` openssh-server apache2 mysql-server mysql-client bison flex php5 php5-curl php5-cli php5-mysql php-pear php-db php5-gd curl sox libncurses5-dev libssl-dev libmysqlclient15-dev mpg123 libxml2-dev libnewt-dev sqlite3 libsqlite3-dev pkg-config automake libtool autoconf git subversion

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4. pear的数据库安装

pear install db

5. 重启电脑

reboot

6. 下载最新的asterisk和硬件驱动

cd /usr/src

wget http://downloads.asterisk.org/pub/telephony/dahdi-linux-complete/dahdi-linux-complete-current.tar.gz

wget http://downloads.asterisk.org/pub/telephony/libpri/libpri-1.4-current.tar.gz

wget http://downloads.asterisk.org/pub/telephony/asterisk/asterisk-11-current.tar.gz

7. 编辑并且安装DAHDI.

cd /usr/src

tar xvfz dahdi-linux-complete-current.tar.gz

cd dahdi-linux-complete-\*

make all

make install

make config

8. 编辑并安装 LIBPRI.

cd /usr/src

tar xvfz libpri-1.4-current.tar.gz

cd libpri-1.4.14

make

make install

9. 编辑并安装Asterisk

cd /usr/src

tar xvfz asterisk-11-current.tar.gz

cd asterisk-\*

./configure

contrib/scripts/get\_mp3\_source.sh

sudo make menuselect

确认cdr\_odbc, cdr\_adaptive\_odbc, func\_odbc,func\_realtime, pbx\_realtime, res\_config\_odbc, and res\_odbc，ODBC\_STORAGE已经被选中

\*\*注意\*\* 在Asterisk1.8.x 和我当前使用的版本(Asterisk11.30LTS)版本已经将asterisk-addon整合.所以各位就不必要再去单独安装asterisk-addon的包了.

make

make install

make config

9 .若需要支持 mp3 格式，请执行下面的步骤，否则跳过

注意：指令必須在 /usr/src/asterisk-\* 的主目录內执行。

contrib/scripts/get\_mp3\_source.sh

\*\*说明\*\*

-> 要验证是否正确下载 MP3 ，可以检查目录 addons/mp3/。

-> 编译前请在 menuconfig -> addons -> 選擇 format\_mp3。

-> 此模块载入后，可使 Playback 及 MusicOnHold 支援 MP3 语音。

11. 安装 Asterisk-Extra-Sounds

cd /var/lib/asterisk/sounds

wget http://downloads.asterisk.org/pub/telephony/sounds/asterisk-extra-sounds-en-gsm-current.tar.gz

tar xfz asterisk-extra-sounds-en-gsm-current.tar.gz

rm asterisk-extra-sounds-en-gsm-current.tar.gz

就此 asterisk 安装完成

Mysql安装

Mysql的安装很简单,到百度搜一下到处都是,就不介绍了.

{

删除 mysql  
sudo apt-get autoremove --purge mysql-server-5.0  
sudo apt-get remove mysql-server  
sudo apt-get autoremove mysql-server  
sudo apt-get remove mysql-common //这个很重要  
上面的其实有一些是多余。  
  
清理残留数据  
dpkg -l |grep ^rc|awk '{print $2}' |sudo xargs dpkg -P  
  
  
安装 mysql  
sudo apt-get install mysql-server  
sudo apt-get install mysql-client  
sudo apt-get install php5-mysql

}

unixODBC的安装与mysql关联

安装并配置odbc桥

1).首先要确认一下本机的mysql已经安装完成.然后执行下面的命令.

$ sudo apt-get install unixODBC unixODBC-dev

$ sudo apt-get install libmyodbc

2). 创建 /etc/odbcinst.ini，内容如下：

[MySQL]

Description = ODBC for MySQL

Driver = /usr/lib/odbc/libmyodbc.so

Setup = /usr/lib/odbc/libodbcmyS.so

FileUsage = 1

通过如下命令来验证odbcinst.ini是否有效

# odbcinst -q -d

会显示 [MySQL]

3). 创建/etc/odbc.ini,内容如下 :

[asterisk-connector]

Description = MySQL connection to 'asterisk' database

Driver = MySQL

Database = asterisk

Server = localhost

UserName = asterisk

Password = yourpassword

Port = 3306

Socket = /var/run/mysqld/mysqld.sock (这个文件是你在启动数据库后自动生成的文件,它的位置可以自己修改,如果默认情况下安装的话可以在 /etc/mysql/my.conf中修改)

通过一下命令来确认是否可以连接数据库

# echo "select 1" | isql -v asterisk-connector

\*\*注意\*\*

如果显示” can not open libmyodbc.os”可以到这里去下载 相关的文件<http://pkgs.org/debian-sid/debian-main-i386/libmyodbc_5.1.10-2+build1_i386.deb.html>

{

wget http://ftp.br.debian.org/debian/pool/main/m/myodbc/libmyodbc\_5.1.10-2+build1\_i386.deb

dpkg –i libmyodbc\_5.1.10-2+build1\_i386.deb

cd /usr/lib/i386-linux-gnu/odbc

cp \* /usr/lib/odbc

或者

wget http://ftp.br.debian.org/debian/pool/main/m/myodbc/libmyodbc\_5.1.10-2+build1\_amd64.deb

dpkg -i libmyodbc\_5.1.10-2+build1\_amd64.deb

cd /usr/lib/x86\_64-linux-gnu/odbc

cp \* /usr/lib/odbc

}

配置Asterisk相关文件支持ODBC

1. 修改/etc/asterisk/extconfig.conf支持动态加载

[settings]

sippeers => odbc, asterisk,sip\_buddies

extensions => odbc, asterisk,extensions

voicemail => odbc, asterisk,voicemail\_users

queues => odbc, asterisk,queue\_table

queue\_members => odbc, asterisk,queue\_member\_table

meetme => odbc, asterisk,meetme

2. 修改/etc/asterisk/res\_odbc.conf

[asterisk]

enabled => yes

dsn => asterisk-connector

username => asterisk

password => cynthia

pooling => yes

limit => 2

pre-connect => yes

3. 修改 /etc/asterisk/sip.conf

[general]

context=from-sip ; Default context for incoming calls

;

bindport=5060 ; bindport is the local UDP port that Asterisk will listen on

bindaddr=0.0.0.0 ; IP address to bind to (0.0.0.0 binds to all)

;

disallow=all ; First disallow all codecs

allow=gsm

allow=ulaw ; Allow codecs in order of preference

4. 修改 /etc/asterisk/extensions.conf 添加自定义的数值

[from-sip]

switch =>Realtime

5. 创建表和数据

如果需要从远程访问Mysql，需要修改/etc/mysql/my.cnf 注释掉 bind-address = 127.0.0.1

mysql -u root -p

create database asterisk;

use asterisk;

创建表格 sip\_buddies

CREATE TABLE `sip\_buddies` (

`id` int(11) NOT NULL auto\_increment,

`name` varchar(80) NOT NULL,

`callerid` varchar(80) default NULL,

`defaultuser` varchar(80) NOT NULL,

`regexten` varchar(80) NOT NULL,

`secret` varchar(80) default NULL,

`mailbox` varchar(50) default NULL,

`accountcode` varchar(20) default NULL,

`context` varchar(80) default NULL,

`amaflags` varchar(7) default NULL,

`callgroup` varchar(10) default NULL,

`canreinvite` char(3) default 'yes',

`defaultip` varchar(15) default NULL,

`dtmfmode` varchar(7) default NULL,

`fromuser` varchar(80) default NULL,

`fromdomain` varchar(80) default NULL,

`fullcontact` varchar(80) default NULL,

`host` varchar(31) NOT NULL,

`insecure` varchar(4) default NULL,

`language` char(2) default NULL,

`md5secret` varchar(80) default NULL,

`nat` varchar(5) NOT NULL default 'no',

`deny` varchar(95) default NULL,

`permit` varchar(95) default NULL,

`mask` varchar(95) default NULL,

`pickupgroup` varchar(10) default NULL,

`port` varchar(5) NOT NULL,

`qualify` char(3) default NULL,

`restrictcid` char(1) default NULL,

`rtptimeout` char(3) default NULL,

`rtpholdtimeout` char(3) default NULL,

`type` varchar(6) NOT NULL default 'friend',

`disallow` varchar(100) default 'all',

`allow` varchar(100) default 'g729;ilbc;gsm;ulaw;alaw',

`musiconhold` varchar(100) default NULL,

`regseconds` int(11) NOT NULL default '0',

`ipaddr` varchar(15) NOT NULL,

`cancallforward` char(3) default 'yes',

`lastms` int(11) NOT NULL,

`useragent` char(255) default NULL,

`regserver` varchar(100) default NULL,

PRIMARY KEY (`id`),

UNIQUE KEY `name` (`name`),

KEY `name\_2` (`name`)

) ENGINE=MyISAM AUTO\_INCREMENT=893 DEFAULT CHARSET=latin1;

创建表格 extensions

CREATE TABLE `extensions` (

`id` int(11) NOT NULL auto\_increment,

`context` varchar(20) NOT NULL default '',

`exten` varchar(20) NOT NULL default '',

`priority` tinyint(4) NOT NULL default '0',

`app` varchar(20) NOT NULL default '',

`appdata` varchar(128) NOT NULL default '',

PRIMARY KEY (`context`,`exten`,`priority`),

KEY `id` (`id`)

) ENGINE=MyISAM AUTO\_INCREMENT=257 DEFAULT CHARSET=latin1;

创建表格voicemail\_users

CREATE TABLE `voicemail\_users` (

`uniqueid` int(11) NOT NULL auto\_increment,

`customer\_id` varchar(11) NOT NULL default '0',

`context` varchar(50) NOT NULL,

`mailbox` varchar(11) NOT NULL default '0',

`password` varchar(5) NOT NULL default '0',

`fullname` varchar(150) NOT NULL,

`email` varchar(50) NOT NULL,

`pager` varchar(50) NOT NULL,

`tz` varchar(10) NOT NULL default 'central',

`attach` varchar(4) NOT NULL default 'yes',

`saycid` varchar(4) NOT NULL default 'yes',

`dialout` varchar(10) NOT NULL,

`callback` varchar(10) NOT NULL,

`review` varchar(4) NOT NULL default 'no',

`operator` varchar(4) NOT NULL default 'no',

`envelope` varchar(4) NOT NULL default 'no',

`sayduration` varchar(4) NOT NULL default 'no',

`saydurationm` tinyint(4) NOT NULL default '1',

`sendvoicemail` varchar(4) NOT NULL default 'no',

`delete` varchar(4) NOT NULL default 'no',

`nextaftercmd` varchar(4) NOT NULL default 'yes',

`forcename` varchar(4) NOT NULL default 'no',

`forcegreetings` varchar(4) NOT NULL default 'no',

`hidefromdir` varchar(4) NOT NULL default 'yes',

`stamp` timestamp NOT NULL default CURRENT\_TIMESTAMP on update CURRENT\_TIMESTAMP,

PRIMARY KEY (`uniqueid`),

KEY `mailbox\_context` (`mailbox`,`context`)

) ENGINE=MyISAM AUTO\_INCREMENT=2001 DEFAULT CHARSET=latin1;

创建表格queue\_table

CREATE TABLE `queue\_table` (

`name` varchar(128) NOT NULL,

`musiconhold` varchar(128) default NULL,

`announce` varchar(128) default NULL,

`context` varchar(128) default NULL,

`timeout` int(11) default NULL,

`monitor\_join` tinyint(1) default NULL,

`monitor\_format` varchar(128) default NULL,

`queue\_youarenext` varchar(128) default NULL,

`queue\_thereare` varchar(128) default NULL,

`queue\_callswaiting` varchar(128) default NULL,

`queue\_holdtime` varchar(128) default NULL,

`queue\_minutes` varchar(128) default NULL,

`queue\_seconds` varchar(128) default NULL,

`queue\_lessthan` varchar(128) default NULL,

`queue\_thankyou` varchar(128) default NULL,

`queue\_reporthold` varchar(128) default NULL,

`announce\_frequency` int(11) default NULL,

`announce\_round\_seconds` int(11) default NULL,

`announce\_holdtime` varchar(128) default NULL,

`retry` int(11) default NULL,

`wrapuptime` int(11) default NULL,

`maxlen` int(11) default NULL,

`servicelevel` int(11) default NULL,

`strategy` varchar(128) default NULL,

`joinempty` varchar(128) default NULL,

`leavewhenempty` varchar(128) default NULL,

`eventmemberstatus` tinyint(1) default NULL,

`eventwhencalled` tinyint(1) default NULL,

`reportholdtime` tinyint(1) default NULL,

`memberdelay` int(11) default NULL,

`weight` int(11) default NULL,

`timeoutrestart` tinyint(1) default NULL,

`periodic\_announce` varchar(50) default NULL,

`periodic\_announce\_frequency` int(11) default NULL,

`ringinuse` tinyint(1) default NULL,

`setinterfacevar` tinyint(1) default NULL,

PRIMARY KEY (`name`)

) ENGINE=MyISAM DEFAULT CHARSET=latin1;

创建表格 queue\_member\_table

CREATE TABLE `queue\_member\_table` (

`uniqueid` int(10) unsigned NOT NULL auto\_increment,

`membername` varchar(40) default NULL,

`queue\_name` varchar(128) default NULL,

`interface` varchar(128) default NULL,

`penalty` int(11) default NULL,

`paused` int(11) default NULL,

PRIMARY KEY (`uniqueid`),

UNIQUE KEY `queue\_interface` (`queue\_name`,`interface`)

) ENGINE=MyISAM AUTO\_INCREMENT=6 DEFAULT CHARSET=latin1;

创建表格 meetme

CREATE TABLE `meetme` (

`confno` varchar(80) NOT NULL default '0',

`username` varchar(64) NOT NULL default '',

`domain` varchar(128) NOT NULL default '',

`pin` varchar(20) default NULL,

`adminpin` varchar(20) default NULL,

`members` int(11) NOT NULL default '0',

PRIMARY KEY (`confno`)

) ENGINE=MyISAM DEFAULT CHARSET=latin1;

所有表格创建完成 到此你可以 执行

mysql> show tables;

可以看到asterisk数据库内有六个新建的表格.

+--------------------+

| Tables\_in\_asterisk |

+--------------------+

| extensions |

| meetme |

| queue\_member\_table |

| queue\_table |

| sip\_buddies |

| voicemail\_users |

+--------------------+

6 rows in set (0.00 sec)

下一步是在刚刚创建的表格内插入数据.

1. sip用户表

INSERT INTO sip\_buddies (

NAME, defaultuser, secret, context, HOST, nat, qualify, TYPE)

VALUES (

'1000', '1000', '1234', 'from-sip', 'dynamic', 'force', 'no', 'friend');

INSERT INTO sip\_buddies (

NAME, defaultuser, secret, context, HOST, nat, qualify, TYPE)

VALUES (

'2000', '2000', '1234', 'from-sip', 'dynamic', 'force', 'no', 'friend');

INSERT INTO sip\_buddies (

NAME, defaultuser, secret, context, HOST, nat, qualify, TYPE)

VALUES (

'deltathree', '11111111', '1234', 'from-sip', 'sipauth.deltathree.com', 'force', 'no', 'friend');

2. extensions 扩展表

insert into `extensions`(`context`,`exten`,`priority`,`app`,`appdata`)

values

('from-sip','12121111111',1,'Dial','SIP/1000,60'),

('from-sip','12122222222',1,'Dial','SIP/2000,60'),

('from-sip','\_X.',1,'Dial','SIP/${EXTEN},30'),

('from-sip','\_9X.',1,'Dial','SIP/${EXTEN:1}@deltathree'),

('from-sip','\_X.',2,'VoiceMail','${EXTEN}@from-sip'),

('from-sip','\_X.',3,'hangup',''),

('from-sip','\_\*0',1,'VoiceMailMain','${CALLERID(num)}@from-sip'),

('from-sip','12127777777',1,'Queue','my\_queue'),

('from-sip','12129999999',1,'MeetMe','my\_conf');

3. voicemail\_users 表

INSERT INTO voicemail\_users

(customer\_id, context, mailbox, PASSWORD, fullname, email )

VALUES

('1000', 'from-sip', '1000', '1234' , 'User-A', 'UserA@myemail.com');

INSERT INTO voicemail\_users

(customer\_id, context, mailbox, PASSWORD, fullname, email )

VALUES

('2000', 'from-sip', '2000', '1234' , 'User-B', 'UserB@myemail.com');

4. queue\_table 表

INSERT INTO `queue\_table`

(`name`,`context`)

VALUES

('my\_queue','from-sip');

5. queue\_member\_table 表

INSERT INTO `queue\_member\_table`

(`uniqueid`,`membername`,`queue\_name`,`interface`,`penalty`,`paused`)

VALUES

(1,'SIP/1000@from-sip','my\_queue','SIP/1000',NULL,0);

INSERT INTO `queue\_member\_table`

(`uniqueid`,`membername`,`queue\_name`,`interface`,`penalty`,`paused`)

VALUES

(2,'SIP/2000@from-sip','my\_queue','SIP/2000',NULL,0);

6. meetme表

INSERT INTO `meetme` (`confno`,`username`,`domain`,`pin`,`adminpin`,`members`)

VALUES

('my\_conf','','','5555','4444',0);

到此为止所有数据配置全部完成.

最后启动服务

sudo /etc/init.d/mysql start

sudo /et/init.d/asterisk start

asterisk –r

现在你可以拨打sip电话了…….

参考网站 :

http://www.2cto.com/os/201207/144189.html

http://blog.csdn.net/whyonly/article/details/7856396

http://www.asteriskdocs.org/en/2nd\_Edition/asterisk-book-html-chunk/I\_section12\_tt1465.html

http://www.open-voip.org/index.php?title=Asterisk\_Full\_RealTime\_example

http://pkgs.org/debian-sid/debian-main-i386/libmyodbc\_5.1.10-2+build1\_i386.deb.html

http://www.osslab.com.tw/User:alang/Private\_Zone/Asterisk/Install\_Asterisk\_1.4%2F%2F1.6%2F%2F1.8\_on\_Debian