

???:

1. ????: SheevaPlug????USB?SDHC???, ???OS?Debian Squeeze?????
2. USB????usb stick????usb hd, ???usb hd?,hd?????
3. ?????????????????, ?????????????????image?????
4. ???Code 1?????script?????asterisk1435??
5. ?winscp?asterisk1435????Debian Squeeze?root??,???asterisk1435.txt????.txt??
6. ??asterisk1435 script????????????1??15?,?????USB?????0.7G
7. ??????root??
8. ??????????FreePBX?IP??,?????,????,?????/?root/?passwords,?????
9. ?????reboot????, ????

Code 1: asterisk1435

```
#!/bin/bash
# Asterisk/FreePBX Install Script on SheevaPlug Debian Squeeze (For USB Drive or SDHC use but not for
internal NAND)
# Re-Written By Jack Lin, on Nov. 1, 2010
#
# Originally based on a script by Stephen Brown - http://www.k1lnx.net/wiki/
#
# This script installs the version of Asterisk 1.4.35, dahdi-linux-complete-2.2.1.2+2.2.1.1 and FreePBX 2.7.0
on a new install of Debian "Squeeze".
#
# You should be aware of that
# If you don't like the Asterisk version outline above you can change it to any version as you wish between
Asterisk1.4 and Asterisk1.6.
# FreePBX version will fit from 2.6 to 2.7.
# As for DAHDI Linux/DAHDI Tools you'd better stick with dahdi-linux-complete-2.4.0+2.4.0,
dahdi-linux-complete-2.2.1.2+2.2.1.1 or dahdi-linux-complete-2.2.1+2.2.1 because the others will probably
cause a high cpu usage issue in SheevaPlug. Or you can comment it out if you don't use Meetme
conferencing.
#
# Must be run with superuser privileges.
#
# Script functions
#
# Random password generator function
# This may not be the most secure method as it makes use of /dev/urandom but can generate random
passwords nonetheless :)

date
df -h

function passwd ()
```

```

{
passwds=(`cat /dev/urandom | tr -dc "a-zA-Z0-9" | fold -w 10 | head -n 5`)
MYSQL_ROOT_PW=`echo ${passwds[1]}`
ASTERISK_DB_PW=`echo ${passwds[2]}`
ASTERISK_MGR_PW=`echo ${passwds[3]}`
ARI_PW=`echo ${passwds[4]}`

echo "# Make sure to keep these in a safe place!!!" > /root/passwords
echo "MySQL root password is: $MYSQL_ROOT_PW" >> /root/passwords
echo "Asterisk database password is: $ASTERISK_DB_PW" >> /root/passwords
echo "Asterisk manager portal password is: $ASTERISK_MGR_PW" >> /root/passwords
echo "ARI password is: $ARI_PW" >> /root/passwords
echo "Random passwords generated..."

# encrypt the password file with gpg
# This may not be a good idea. I would like to encrypt the final password file, but they can easily be seen
in their respective config files anyhow
echo "Encrypting file, please enter a password you will remember for decryption!"
echo "The file WILL NOT be recoverable without it due to the use of strong encryption!"
echo "Press return when ready: " ;read input
gpg -c /root/passwords
rm /root/passwords
mkdir /root/passwords
mv passwords.gpg /root/passwords
echo "To decrypt this file run gpg passwords.gpg and supply the password you used to encrypt the file
originally when asked" > /root/passwords/README.passwords
}

# Yes/No function for script interaction

function promptyn ()
{
    echo -n "$1 [y/N]? "
    read ANSWER
    if [ ! -z $ANSWER ]
    then
        if [ $ANSWER = Y ] || [ $ANSWER = y ]
        then
            ANSWER=Y
        else
            ANSWER=N
        fi
    else
        ANSWER=N
    fi
}

# Intro text
clear
echo "This script installs the version of Asterisk 1.4.35, Asterisk Addons-1.4.11, FreePBX 2.7.0, libpri and

```

```

dahdi-linux-complete-2.2.1.2+2.2.1.1"
echo "It will first update/upgrade any packages, and then (optionally) install the OpenSSH server and
client. This is highly recommended"
echo "Press return to continue, Ctrl-C to abort: " ;read input

# Password generation
echo "Random passwords for all applications will now be generated and placed in /root/passwords"
echo "File will be encrypted for your protection!!!"
echo "Press enter to continue: " ;read input
passwd

# Ensure package directory up to date and system upgraded
promptyn "Preparing to run package updates. Would you like to install the OpenSSH server and client?"
  if [ "$ANSWER" = "N" ]; then
    echo "OpenSSH server will NOT be installed, press enter to continue" ;read input
  fi

apt-get -y update
apt-get -y dist-upgrade

# Variables
IP_ADDRESS=`ifconfig eth0 | grep 'inet addr:' | cut -d: -f2 | awk '{ print $1}'`
FREEPBX_VERSION=2.7.0

# Retrieve utilities and set debconf to noninteractive front-end
apt-get -y install debconf-utils
debconf-set-selections <<CONF_EOF
debconf debconf/frontend select noninteractive
CONF_EOF

# Install mysql server
apt-get -y install mysql-server-5.1

# Configure mysql root password
mysqladmin -u root password ${MYSQL_ROOT_PW}

# Set debconf back to normal interactive front-end
debconf-set-selections <<CONF_EOF
debconf debconf/frontend select Dialog
CONF_EOF

# Install the dependencies for Asterisk
apt-get -y install ssh kernel-package g++ libncurses5-dev linux-libc-dev sqlite libnewt-dev libusb-dev
zlib1g-dev libmysqlclient-dev libsqlite0-dev php5 mysql-server-5.1 php-pear php5-mysql php-db php5-gd
linux-headers-$(uname -r) bison openssl libssl-dev libeditline0 libeditline-dev libedit-dev gcc make mc
php5-cli sox

# Download and extract Astersik and Asterisk-related files

mkdir -p /usr/src/asterisk

```

```

cd /usr/src/asterisk
wget http://downloads.asterisk.org/pub/telephony/asterisk/old-releases/asterisk-1.4.35.tar.gz
wget http://downloads.asterisk.org/pub/telephony/asterisk/asterisk-addons-1.4-current.tar.gz
wget http://downloads.asterisk.org/pub/telephony/dahdi-linux-complete/releases/
dahdi-linux-complete-2.2.1.2+2.2.1.1.tar.gz
# wget http://downloads.digium.com/pub/libpri/libpri-1.4-current.tar.gz

tar xfvz asterisk-1.4.35.tar.gz
tar xfvz asterisk-addons-1.4-current.tar.gz
tar xfvz dahdi-linux-complete-2.2.1.2+2.2.1.1.tar.gz
# tar xfvz libpri-1.4-current.tar.gz

rm asterisk-1.4.35.tar.gz
rm asterisk-addons-1.4-current.tar.gz
rm dahdi-linux-complete-2.2.1.2+2.2.1.1.tar.gz
# rm libpri-1.4-current.tar.gz

# Install Libpri
# cd `find . -name "libpri-1.4.*" -print`
# make clean
# make
# make install
# cd ..

# Install DADHI
cd `find . -name "dahdi-linux-complete-2.2.*" -print`
make all
make install
make config
cd ..

# Install Asterisk 1.4
# In Asterisk Module and Build Option Selection, You can simply go with the defaults and press Exit - this
will install all that is needed.
# Or you can chose to install extra language and sound files in 12. Core Sound Packages, 13. Music On Hold
File Packages and 14. Extras Sound Packages for better quality audio, and to avoid transcoding sound files.
cd `find . -name "asterisk-1.4.*" -print`
make clean
./configure --disable-xmldoc
sed -i 's/PROC=armv5tel/PROC=arm/g' /usr/src/asterisk/asterisk-1.4.*/makeopts
make menuselect
make
make install
make samples
make progdocs
make config
cd ..

# Install Asterisk Addons
# In asterisk-Addons module selection, make sure to deselect H323 in channel drivers.

```

Press Esc to return to the main menu, then x to save your changes. The install will continue.

```
cd `find . -name "asterisk-addons-1.4.*" -print`
make clean
./configure
make menuselect
make
make install
```

```
cd ../../
```

```
# Create asterisk user and group, adding to www-data group for apache server
adduser asterisk --disabled-password --gecos "asterisk PBX"
adduser www-data asterisk
```

```
# Fix up apache configuration to run as asterisk user
cp /etc/apache2/apache2.conf /etc/apache2/apache2.conf-orig
sed -i "s/^(User *)\\(.*\\)/\1asterisk/" /etc/apache2/apache2.conf
sed -i "s/^(Group *)\\(.*\\)/\1asterisk/" /etc/apache2/apache2.conf
```

```
# Patch safe_asterisk script to use bash
sed -i "s|#!/bin/sh|#!/bin/bash|" /usr/sbin/safe_asterisk
```

```
# Add dummy timing device for asterisk
modprobe dahdi_dummy
```

```
# Download and unpack freepbx
wget http://mirror.freepbx.org/freepbx-${FREEPBX_VERSION}.tar.gz
tar xfvz freepbx-${FREEPBX_VERSION}.tar.gz
rm freepbx-${FREEPBX_VERSION}.tar.gz
```

```
# Add Asterisk startup item
cat > /etc/init.d/asterisk <<-END_STARTUP
#!/bin/bash
set -e
set -a
PATH=/usr/local/sbin:/usr/local/bin:/sbin:/bin:/usr/sbin:/usr/bin
DESC="Asterisk"
NAME=amportal
DAEMON=/usr/sbin/\$NAME
```

```
test -x \$DAEMON || exit 0
```

```
d_start() {
    amportal start
}
```

```
d_stop() {
    amportal stop
}
```

```

d_reload() {
    amportal restart
}

case "$1" in

start)
    echo -n "Starting \${DESC}: \${NAME}"
    d_start
    echo "."
;;

stop)
    echo -n "Stopping \${DESC}: \${NAME}"
    d_stop
    echo "."
;;

restart|force-reload)
    echo -n "Restarting \${DESC}: \${NAME}"
    d_stop
    sleep 10
    d_start
    echo "."
;;

*)

    echo "Usage: \${SCRIPTNAME} {start|stop|restart|force-reload}" >&2
    exit 3
;;

esac

exit 0
END_STARTUP

chmod 755 /etc/init.d/asterisk
update-rc.d asterisk defaults 90 10

# Configure freepbx
cd freepbx-${FREEPBX_VERSION}

# Setup databases for freepbx use
mysqladmin -u root -p${MYSQL_ROOT_PW} create asterisk
mysqladmin -u root -p${MYSQL_ROOT_PW} create asteriskcdrdb
mysql -u root -p${MYSQL_ROOT_PW} asterisk < SQL/newinstall.sql
mysql -u root -p${MYSQL_ROOT_PW} asteriskcdrdb < SQL/cdr_mysql_table.sql
mysql -u root -p${MYSQL_ROOT_PW} <<-END_PRIVS
    GRANT ALL PRIVILEGES ON asterisk.* TO asteriskuser@localhost IDENTIFIED BY

```

```

"${ASTERISK_DB_PW}";
    GRANT ALL PRIVILEGES ON asteriskcdrdb.* TO asteriskuser@localhost IDENTIFIED BY
"${ASTERISK_DB_PW}";
    flush privileges;
END_PRIVS

# Reconfigure php for freepbx
cp /etc/php5/apache2/php.ini /etc/php5/apache2/php.ini-orig
sed -i "s/\(upload_max_filesize *= *\)\(.*\)/\120M/" /etc/php5/apache2/php.ini
sed -i "s/\(memory_limit *= *\)\(.*\)/\1128M/" /etc/php5/apache2/php.ini
#sed -i "s/\(magic_quotes_gpc *= *\)\(.*\)/\10ff/" /etc/php5/apache2/php.ini
sed -i "s;/suhosin.memory_limit = 0/suhosin.memory_limit = 134217728/" /etc/php5/conf.d/suhosin.ini

# Fix up directory use and permissions for asterisk
chown asterisk:asterisk /var/run/asterisk
chown asterisk:asterisk -R /etc/asterisk
chown asterisk:asterisk -R /var/lib/asterisk
chown asterisk:asterisk -R /var/log/asterisk
chown asterisk:asterisk -R /var/spool/asterisk
chown asterisk:asterisk -R /var/www
sed -i "s/[directories\](!).*[directories]/" /etc/asterisk/asterisk.conf
sed -i "s|astrundir *=> */var/run|astrundir => /var/run/asterisk|" /etc/asterisk/asterisk.conf

# Fix mohmp3
#mkdir -p /var/lib/asterisk/mohmp3
#cp /var/lib/asterisk/moh/* /var/lib/asterisk/mohmp3
ln -s /var/lib/asterisk/moh /var/lib/asterisk/mohmp3
#chown -R asterisk:asterisk /var/lib/asterisk/mohmp3
#chmod -R ug+rxw,o+rx-w /var/lib/asterisk/mohmp3

# Start Asterisk
./start_asterisk start

# Configure amportal
cp amportal.conf /etc/amportal.conf
sed -i "s/# \(\AMPDBUSER=asteriskuser\) */\1/" /etc/amportal.conf
sed -i "s/# \(\AMPDBPASS=\) */\1${ASTERISK_DB_PW}/" /etc/amportal.conf
sed -i "s/AUTHTYPE=none/AUTHTYPE=database/" /etc/amportal.conf
sed -i "s|\(\AMPWEBROOT=\)/var/www/html|\1/var/www|" /etc/amportal.conf
sed -i "s|\(\FOPWEBROOT=\)/var/www/html/panel|\1/var/www/panel|" /etc/amportal.conf
sed -i "s/#AMPWEBADDRESS=192.168.1.101/d" /etc/amportal.conf
sed -i "s/AMPWEBADDRESS=/AMPWEBADDRESS=${IP_ADDRESS}/" /etc/amportal.conf

# Change default manager password
sed -i "s/secret = amp111/secret = ${ASTERISK_MGR_PW}/" /etc/asterisk/manager.conf
sed -i "s/AMPMGRPASS=amp111/AMPMGRPASS=${ASTERISK_MGR_PW}/" /etc/amportal.conf

# Enable DAHDI for FreePBX
sed -i "s/# ZAP2DAHDICompat=true|false/ZAP2DAHDICompat=true/" /etc/amportal.conf

```

```
# Install amp
./install_amp

# Fix and start apache web server
echo "
ServerName Debian
" >> /etc/apache2/apache2.conf

/etc/init.d/apache2 restart

# Start amportal
amportal start

# Set ARI admin password
sed -i "s/ari_password/${ARI_PW}"/ /var/www/recordings/includes/main.conf.php

# Setup log rotation
touch /etc/logrotate.d/asterisk
echo "
/var/log/asterisk/*log {
    missingok
    rotate 5
    weekly
    create 0640 asterisk asterisk
    postrotate
        /usr/sbin/asterisk -rx 'logger reload' > /dev/null 2> /dev/null
    endscrip
}

/var/log/asterisk/full {
    missingok
    rotate 5
    daily
    create 0640 asterisk asterisk
    postrotate
        /usr/sbin/asterisk -rx 'logger reload' > /dev/null 2> /dev/null
    endscrip
}

/var/log/asterisk/cdr-csv/*csv {
    missingok
    rotate 5
    monthly
    create 0640 asterisk asterisk
}

/var/log/atftp.log {
    missingok
    rotate 5
```



```
monthly  
create 0640 nobody nobody  
}
```

```
" > /etc/logrotate.d/asterisk
```

```
clear  
echo "Complete. You can access FreePBX at http://$IP_ADDRESS/admin"  
echo "Login using username asteriskuser and password $ASTERISK_DB_PW"
```

```
date  
df -h
```

```
Code 2: ????
```

```
cd /root
```

```
chmod +x asterisk1435
```

```
./asterisk1435
```

```
Code 3: ????,FreePBX IP??, ????????
```

```
reboot
```

The screenshot displays the FreePBX System Status page. The browser window title is 'FreePBX - Mozilla Firefox'. The address bar shows 'http://192.168.███/admin/config.php'. The page header includes 'FreePBX 2.7.0.0 on 192.168.███' and 'Logged in: asteriskuser'. The sidebar menu on the left lists various administrative options like 'Setup', 'Tools', 'Admin', 'FreePBX System Status', 'Module Admin', 'Basic', 'Extensions', 'Feature Codes', 'General Settings', 'Outbound Routes', 'Trunks', 'Administrators', 'Inbound Call Control', 'Inbound Routes', 'Zap Channel DIDs', 'Internal Options & Configuration', 'Music on Hold', and 'System Recordings'. The main content area is titled 'FreePBX System Status' and contains several sections:

- Notifications:** 'No new notifications show all'.
- Call Statistics:**

Total active calls	0
Internal calls	0
External calls	0
Total active channels	0
- FreePBX Connections:**

IP Trunks Online	1
------------------	---
- System Uptime:**
 - System Uptime: 1 hour, 37 minutes
 - Asterisk Uptime: 15 minutes
 - Last Reload: 15 minutes
- Processor:**

Load Average	0.10
CPU	0%
- Memory:**

App. Memory	17%
Swap	0%
- Disks:**

/	34%
/lib/init/fw	0%
/dev	0%
/dev/shm	0%
/boot	5%
- Networks:**

eth0 receive	0.13 KB/s
eth0 transmit	1.00 KB/s
- System Health:**

Asterisk	OK
Op Panel	OK
MySQL	OK
Web Server	OK
SSH Server	OK

At the bottom left, there is a '完成' (Complete) button. The footer includes the 'FreePBX Let Freedom Ring' logo and the text 'FreePBX is a registered trademark of BayDuck.com'.

References:

- <http://www.k1lnx.net/wiki/>
- https://wiki.ubuntu.com/AsteriskScripting/FreePBX_1.2.sh
- http://www.corenetworks.com.au/wiki/...freepbx_script
- http://www.plugpbx.org/?page_id=137
- <http://forums.plugpbx.org/index.php/topic,102.0.html>
- http://www.fonicaprojects.com/wiki/i...ePBX_on_Debian