```
#!/bin/bash
#
#
                    initial install Call Man.sh
    Name:
#
    Author:
                    Chris Fedun 23/02/2017
   Description:
                    install script Configuration
    Copyright (C) 2017 Christopher Fedun
    This program is free software: you can redistribute it and/or modify
#
    it under the terms of the GNU General Public License as published by
#
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.
#
    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.
    You should have received a copy of the GNU General Public License
    along with this program. If not, see <a href="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</a>>.
##### Constants #####
host name=$1
domain name=$2
Country=$3
State=$4
City=$5
OrgName=$6
OU=$7
User Name=$8
IS Raspian=0
Setup dir='/root/initial setup/call manager/'
First boot="/var/log/firstboot.log"
Second boot="/var/log/secondboot.log"
Third boot="/var/log/thirdboot.log"
Fourth boot="/var/log/fourthboot.log"
##### Functions #####
function Second boot install
if [ IS Raspian = 1 ]; then
echo "
# deb cdrom: [Debian GNU/Linux 8.7.1 _Jessie_ - Official amd64 NETINST Binary-1 20170116-10:57]/
jessie main
#deb cdrom:[Debian GNU/Linux 8.7.1 Jessie - Official amd64 NETINST Binary-1 20170116-10:57]/
jessie main
deb <a href="http://mirror.it.ubc.ca/debian/">http://mirror.it.ubc.ca/debian/</a> jessie main
deb-src http://mirror.it.ubc.ca/debian/ jessie main
deb <a href="http://security.debian.org/">http://security.debian.org/</a> jessie/updates main
deb-src http://security.debian.org/ jessie/updates main
# jessie-updates, previously known as 'volatile'
deb <a href="http://mirror.it.ubc.ca/debian/">http://mirror.it.ubc.ca/debian/</a> jessie-updates main
deb-src http://mirror.it.ubc.ca/debian/ jessie-updates main" >> /etc/apt/sources.list
fi
##### Add Jessie Backports #####
echo 'deb http://http.debian.net/debian jessie-backports main' > /etc/apt/sources.list.d/
```

```
jessie-backports.list
#####UPDATE####
apt-get update -q
apt-get upgrade -y -q
apt-get dist-upgrade -y -q
#####install####
apt-get install -y -q debconf-utils sudo automake \
pwgen curl php5-cli git quotatool expect
SQL root passwd=$(pwgen -s 20 1)
####New user
adduser --disabled-login --quiet --gecos "" nonroot
adduser --disabled-login --quiet --gecos "" server admin
adduser server admin sudo
adduser www-data staff
#usermod
#####deb conf####
debconf-set-selections <<< "openssh-server openssh-server/permit-root-login"</pre>
                                                                                     boolean true"
debconf-set-selections <<< "mysql-server-5.5 mysql-server/root password password</pre>
$SQL root passwd"
debconf-set-selections <<< "mysql-server-5.5 mysql-server/root password again password
$SQL root passwd"
debconf-set-selections <<< "iptables-persistent iptables-persistent/autosave v4 boolean true"
debconf-set-selections <<< "iptables-persistent iptables-persistent/autosave v6 boolean true"
touch /root/.my.cnf
echo '[client]' >> /root/.my.cnf
echo "password=$SQL root passwd" >> /root/.my.cnf
chmod u=rw,go= /root/.my.cnf
touch $Setup dir\MYSQL/pass.txt
echo "$SQL root passwd" >> $Setup dir\MYSQL/pass.txt
chmod u=rw,go= $Setup dir\MYSQL/pass.txt
##### OpenSSH/OpenSSL#####
apt-get install -y -q ssh openssl openssh-server openssh-client
##### Certificate Setup #####
echo "[+] Configuring Certificates..."
bash -x $Setup_dir\Certificate.sh "$host name" "$domain name" "$Country" "$State" "$City"
"$OrgName" "$OU" "$User Name"
##### NTP #####
apt-get install ntp ntpdate -y -q
timedatectl set-timezone America/Vancouver
##### Apache and MYSQL Install ####
echo "[+] Installing Apache..."
#apt-get update -q 1> /dev/null
echo "[+] Installing MYSQL..."
apt-get install -q -y -o Dpkg::Options::="--force-confdef" \
-o Dpkg::Options::="--force-confold" apache2 mysql-server
##### PHP #####
echo "[+] Installing PHP..."
apt-get install php5 php-pear php5-mysql -y -q
function third boot config
##### MYSQL Database Setup #####
echo "[+] Setting up MYSQL Database..."
bash -x $Setup dir\MYSQL/MYSQL db setup_script.sh $domain_name
```

```
##### Asterisk Dependicies #####
apt-get install build-essential subversion \
    libssl-dev libxml2-dev vim-nox gcc \
    linux-headers-`uname -r` libncurses5-dev libncursesw5-dev \
    mysql-client bison flex php5-curl php5-gd curl sox \
    libmysglclient-dev mpg123 libnewt-dev sglite3 \
    libsqlite3-dev pkg-config automake libtool autoconf git \
    unixodbc-dev uuid uuid-dev libasound2-dev libogg-dev \
    libvorbis-dev libtool-bin libical-dev libneon27-dev \
    libsrtp0-dev autotools-dev libspandsp-dev sudo libmyodbc \
    libusb-dev libeditline-dev libedit-dev \
    tftpd chkconfig libcurl4-gnutls-dev xinetd \
    e2fsprogs dbus xmlstarlet unixodbc python-minimal \
    python-tk python-doc libpython-stdlib python-sphinx \
    python-docutils debhelper dh-python python-all \
    python-setuptools libpython-all-dev libpython-all-dbg \
    python-pip ipcalc -y -q
#apt-get install g++
#apt-get install libncurses-dev
#apt-get install uuid-dev
#apt-get install libjansson-dev libcurl4-openssl-dev
#apt-get install libxml2-dev postfix mailutils
#apt-get install libsqlite3-dev libcurl4-gnutls-dev
pear install Console Getopt
function fourth boot config
##### Install Asterisk #####
bash -x $Setup_dir\Asterisk install.sh $host name $domain name "true"
##### Install BIND #####
#apt-get install bind9 bind9utils bind9-doc dnsutils -y -q
##### Firewall #####
echo "[+] Configuring Firewall..."
bash -x $Setup_dir\iptables_callMan.sh
##### Persistent Firewall #####
echo "[+] Configuring Persistent Firewall..."
apt-get -q -y -o Dpkg::Options::="--force-confdef" \
-o Dpkg::Options::="--force-confold" install iptables-persistent
##### Fail2Ban
apt-get install -y -q fail2ban
bash -x $Setup dir\Fail2Ban/Fail2Ban callman.sh
##### PSAD
apt-get -y -q install psad
bash -x $Setup dir\PSAD.sh $domain name $host name
##### Secure MYSQL
expect $Setup dir\MYSQL/mysql secure.exp $SQL root passwd
####Main
export DEBIAN FRONTEND=noninteractive
if [ ! -f $First boot ]; then
    touch $First boot
```

```
####Use only if ip address is NOT set by dhcp
    bash $Setup dir\ip address mail.sh
    bash -x $Setup dir\ip address call man deb test.sh $host name $domain name
   FB install
    #raspi-config --expand-rootfs
    #touch $Second boot
    #Second_boot install
    touch $Second boot
    Second boot install
    touch $Third boot
    third_boot_config
    touch $Fourth boot
    fourth boot config
    reboot
    exit
elif [ -f $First boot ] && [ ! -f $Second boot ]; then
    touch $Second boot
    Second boot install
    root db pass=$( cat $Setup_dir\MYSQL/pass.txt )
    touch $Third boot
    third boot config
    touch $Fourth boot
    fourth boot config
    reboot
elif [ -f $First boot ] && [ -f $Second boot ] && [ ! -f $Third boot ]; then
   root db pass=$( cat $Setup dir\MYSQL/pass.txt )
    touch $Third boot
    third boot config
    touch $Fourth boot
    fourth boot config
    reboot
elif [ -f $First boot ] && [ -f $Second boot ] && [ -f $Third boot ] && [ ! -f $Fourth boot ];
then
    root db pass=$( cat $Setup_dir\MYSQL/pass.txt )
    touch $Fourth boot
    fourth boot config
    reboot
    exit
#elif [ -f $First boot ] && [ -f $Second boot ] && [ ! -f $Third boot ]; then
    #touch $Third boot
    #third boot config
else
    exit
fi
exit
###### END :) ######
```