

```

#!/bin/bash
#
#####
#
#   Name:          initial_install_script.sh
#   Author:        Chris Fedun 18/01/2017
#   Description:    install script Configuration
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#
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#####
#####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/mail/'
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 http://mirror.it.ubc.ca/debian/ jessie main
deb-src http://mirror.it.ubc.ca/debian/ jessie main

deb http://security.debian.org/ jessie/updates main
deb-src http://security.debian.org/ jessie/updates main

# jessie-updates, previously known as 'volatile'
deb http://mirror.it.ubc.ca/debian/ jessie-updates main
deb-src http://mirror.it.ubc.ca/debian/ jessie-updates main" >> /etc/apt/sources.list

fi

##### Add Jessie Backports for Roundcube #####
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 ipcalc
apt-get install pwgen curl php5-cli git quotatool expect -y -q
```

```
SQL_root_passwd=$(pwgen -s 20 1)
PHPMyAdmin_user_passwd=$(pwgen -s 20 1)
PHPMyAdmin_setup_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 boolean true"
```

```
debconf-set-selections <<< "mysql-server-5.5 mysql-server/root_password password
$SQL_root_passwd"
```

```
debconf-set-selections <<< "mysql-server-5.5 mysql-server/root_password_again password
$SQL_root_passwd"
```

```
debconf-set-selections <<< "postfix postfix/protocols select all"
```

```
debconf-set-selections <<< "postfix postfix/chattr boolean false"
```

```
debconf-set-selections <<< "postfix postfix/recipient_delim string +"
```

```
debconf-set-selections <<< "postfix postfix/mynetworks string 127.0.0.0/8
```

```
[::ffff:127.0.0.0]/104 [::1]/128"
```

```
debconf-set-selections <<< "postfix postfix/rfc1035_violation boolean false"
```

```
debconf-set-selections <<< "postfix postfix/mailname string $domain_name"
```

```
debconf-set-selections <<< "postfix postfix/main_mailer_type select Internet Site"
```

```
debconf-set-selections <<< "postfix postfix/procmail boolean true"
```

```
debconf-set-selections <<< "postfix postfix/mailbox_limit string 0"
```

```
debconf-set-selections <<< "postfix postfix/destinations string $domain_name,
localhost.com, , localhost"
```

```
debconf-set-selections <<< "iptables-persistent iptables-persistent/autosave_v4 boolean true"
```

```
debconf-set-selections <<< "iptables-persistent iptables-persistent/autosave_v6 boolean true"
```

```
debconf-set-selections <<< "phpmyadmin phpmyadmin/setup-password password
```

```
$PHPMyAdmin_setup_passwd"
```

```
debconf-set-selections <<< "phpmyadmin phpmyadmin/password-confirm password
```

```
$PHPMyAdmin_setup_passwd"
```

```
debconf-set-selections <<< "phpmyadmin phpmyadmin/app-password-confirm password
```

```
$PHPMyAdmin_user_passwd"
```

```
debconf-set-selections <<< "phpmyadmin phpmyadmin/mysql/admin-pass password $SQL_root_passwd"
```

```
debconf-set-selections <<< "phpmyadmin phpmyadmin/mysql/app-pass password
```

```
$PHPMyAdmin_user_passwd"
```

```
debconf-set-selections <<< "phpmyadmin phpmyadmin/database-type select mysql"
```

```
debconf-set-selections <<< "phpmyadmin phpmyadmin/setup-username string admin"
```

```
debconf-set-selections <<< "phpmyadmin phpmyadmin/dbconfig-install boolean true"
```

```
debconf-set-selections <<< "phpmyadmin phpmyadmin/internal/skip-preseed boolean false"
```

```
debconf-set-selections <<< "phpmyadmin phpmyadmin/dbconfig-upgrade boolean true"
```

```
debconf-set-selections <<< "phpmyadmin phpmyadmin/mysql/admin-user string root"
```

```
debconf-set-selections <<< "phpmyadmin phpmyadmin/upgrade-backup boolean true"
```

```
debconf-set-selections <<< "phpmyadmin phpmyadmin/db/dbname string phpmyadmin"
```

```
debconf-set-selections <<< "phpmyadmin phpmyadmin/db/app-user string phpmyadmin"
```

```
debconf-set-selections <<< "phpmyadmin phpmyadmin/purge boolean false"
```

```
debconf-set-selections <<< "phpmyadmin phpmyadmin/dbconfig-reinstall boolean false"
```

```
debconf-set-selections <<< "phpmyadmin phpmyadmin/reconfigure-webserver multiselect apache2"
```

```
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

touch $Setup_dir\PHPMyAdmin.txt
echo "$PHPMyAdmin_user_passwd" >> $Setup_dir\PHPMyAdmin.txt
chmod u=rw,go= $Setup_dir\PHPMyAdmin.txt

touch $Setup_dir\PHPMyAdmin-setup_password.txt
echo "$PHPMyAdmin_setup_passwd" >> $Setup_dir\PHPMyAdmin-setup_password.txt
chmod u=rw,go= $Setup_dir\PHPMyAdmin-setup_password.txt

}

function third_boot_config
{
root_db
##### OpenSSH/OpenSSL/OpenDKIM #####

apt-get install -y -q ssh openssl openssl-server \
openssh-client openssl openssl-tools

##### NTP #####
apt-get install ntp ntpdate -y -q
##### 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

##### MySQL Database Setup #####
echo "[+] Setting up MySQL Database..."
bash -x $Setup_dir\MySQL\MySQL_db_setup_script.sh $domain_name $User_Name

##### Install BIND #####
#apt-get install bind9 bind9utils bind9-doc dnsutils -y -q
##### Postfix #####
echo "[+] Installing Postfix..."
apt-get install -q -y -o Dpkg::Options::="--force-confdef" \
-o Dpkg::Options::="--force-confold" postfix postfix-mysql mailutils
apt-get --purge remove 'exim4*' -y -q
apt-get install spamassassin spamass-milter -y -q
apt-get install swaks -y -q

##### Dovecot #####
echo "[+] Installing Dovecot..."
apt-get install dovecot-mysql dovecot-pop3d \
dovecot-imapd dovecot-managesieved dovecot-lmtpd -y -q

##### Roundcube #####
echo "[+] Installing Roundcube..."
export DEBIAN_FRONTEND=dialog
expect $Setup_dir\webmail\RoundCube.exp $SQL_root_passwd
export DEBIAN_FRONTEND=noninteractive

##### PHPMyAdmin #####
echo "[+] Installing PHPMyAdmin..."

```

```

apt-get install -q -y -o Dpkg::Options::="--force-confdef" \
-o Dpkg::Options::="--force-confold" phpmyadmin

##### Certificate Setup #####
echo "[+] Configuring Certificates..."
bash -x $Setup_dir\Certificate.sh "$host_name" "$domain_name" "$Country" "$State" "$City"
"$OrgName" "$OU" "$User_Name"

##### Apache Setup #####
echo "[+] Configuring Apache..."
bash -x $Setup_dir\webmail/Apache_config.sh $domain_name

##### Postfix Setup #####
echo "[+] Configuring Postfix..."
bash -x $Setup_dir\email\Postfix_setup_script.sh $domain_name

##### Dovecot Setup #####
echo "[+] Configuring Dovecot..."
bash -x $Setup_dir\email\Dovecot_setup_script.sh $domain_name

##### Install Drupal #####
echo "[+] Installing Drupal Dependencies..."
bash -x $Setup_dir\drupal/Drupal_setup.sh $domain_name

##### SpamAssassin #####
echo "[+] Configuring SpamAssassin..."
bash -x $Setup_dir\email/SpamAssassin.sh $domain_name

##### OpenDKIM #####
echo "[+] Configuring OpenDKIM..."
bash -x $Setup_dir\email/OpenDKIM.sh $domain_name

##### Roundcube Setup #####
echo "[+] Configuring Roundcube..."
bash -x $Setup_dir\webmail/RoundCube_config.sh $domain_name

##### Add first email user
bash -x $Setup_dir\add_user.sh -u $User_Name -d $domain_name -p "P@ssw0rd"
}

function fourth_boot_config
{
##### Firewall #####
echo "[+] Configuring Firewall..."
bash -x $Setup_dir\iptables_mail.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_mail.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

###setup OpenVPN

```

```

bash -x $Setup_dir\OpenVPNAS/OpenVPN_AS.sh
}
#####Main
export DEBIAN_FRONTEND=noninteractive
if [ ! -f $First_boot ]; then
#   bash -x $Setup_dir\rc.sh
#   touch $First_boot
#   #####Use only if ip address is NOT set by dhcp
#   bash $Setup_dir\ip_address_mail.sh $host_name $domain_name
#   bash $Setup_dir\ip_address_mail.sh
#   bash -x $Setup_dir\ip_address_mail_deb_test.sh $host_name $domain_name
#   bash -x $Setup_dir\ip_address_call_man_deb_test.sh $host_name $domain_name
#   FB_install

#   #raspi-config --expand-rootfs
#   reboot
#   #touch $Second_boot
#   #Second_boot_install
#   exit
#   touch $Second_boot
#   Second_boot_install
#   touch $Third_boot
#   third_boot_config
#   touch $Fourth_boot
#   fourth_boot_config
#   reboot
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
else
#   exit
fi

exit
##### END :) #####

```