```bash
#!/bin/bash
#
################################################################
#
#     Name:            Postfix_setup_script.sh
#     Author:          Chris Fedun 23/01/2017
#     Description:     Postfix Setup Script
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#
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################################################################
#####Constants#####
domain_name=$1
Setup_dir='/root/initial_setup/mail/'
mailuser_passwd=$(cat $Setup_dir\email/mailuser_passwd.txt)
My_Cert="/etc/ssl/My_Certs/certs/mailserver_crt.pem"
My_Key="/etc/ssl/My_Certs/private/mailserver_key.pem"

##### Functions #####
function Create_config_files
{
    touch /etc/postfix/mysql-virtual-mailbox-domains.cf
    touch /etc/postfix/mysql-virtual-mailbox-maps.cf
    touch /etc/postfix/mysql-virtual-alias-maps.cf
    touch /etc/postfix/mysql-email2email.cf
}


function Create_mappings
{
    echo "user = mailuser" > /etc/postfix/mysql-virtual-mailbox-domains.cf
    echo "password = $mailuser_passwd" >> /etc/postfix/mysql-virtual-mailbox-domains.cf
    echo "hosts = 127.0.0.1" >> /etc/postfix/mysql-virtual-mailbox-domains.cf
    echo "dbname = mailserver" >> /etc/postfix/mysql-virtual-mailbox-domains.cf
    echo "query = SELECT 1 FROM virtual_domains WHERE name='%s'" >> /etc/postfix/
    mysql-virtual-mailbox-domains.cf

    echo "user = mailuser" > /etc/postfix/mysql-virtual-mailbox-maps.cf
    echo "password = $mailuser_passwd" >> /etc/postfix/mysql-virtual-mailbox-maps.cf
    echo "hosts = 127.0.0.1" >> /etc/postfix/mysql-virtual-mailbox-maps.cf
    echo "dbname = mailserver" >> /etc/postfix/mysql-virtual-mailbox-maps.cf
    echo "query = SELECT 1 FROM virtual_users WHERE email='%s'" >> /etc/postfix/
    mysql-virtual-mailbox-maps.cf

    echo "user = mailuser" > /etc/postfix/mysql-virtual-alias-maps.cf
    echo "password = $mailuser_passwd" >> /etc/postfix/mysql-virtual-alias-maps.cf
    echo "hosts = 127.0.0.1" >> /etc/postfix/mysql-virtual-alias-maps.cf
    echo "dbname = mailserver" >> /etc/postfix/mysql-virtual-alias-maps.cf
    echo "query = SELECT destination FROM virtual_aliases WHERE source='%s'" >> /etc/postfix/
    mysql-virtual-alias-maps.cf


    echo "user = mailuser" > /etc/postfix/mysql-email2email.cf
    echo "password = $mailuser_passwd" >> /etc/postfix/mysql-email2email.cf
    echo "hosts = 127.0.0.1" >> /etc/postfix/mysql-email2email.cf
    echo "dbname = mailserver" >> /etc/postfix/mysql-email2email.cf
```

```bash
    echo "query = SELECT email FROM virtual_users WHERE email='%s'" >> /etc/postfix/
    mysql-email2email.cf
    #Making Postfix get its information from the MySQL database
    postconf virtual_mailbox_domains=mysql:/etc/postfix/mysql-virtual-mailbox-domains.cf
    postconf virtual_mailbox_maps=mysql:/etc/postfix/mysql-virtual-mailbox-maps.cf
    postconf virtual_alias_maps=mysql:/etc/postfix/mysql-virtual-alias-maps.cf

    #For "catch-all addresses" uncomment following line
    #postconf
    virtual_alias_maps=mysql:/etc/postfix/mysql-virtual-alias-maps.cf,mysql:/etc/postfix/mysql-em
    ail2email.cf

    chgrp postfix /etc/postfix/mysql-*.cf
    chmod u=rw,g=r,o= /etc/postfix/mysql-*.cf

    #Tell Postfix to deliver emails to Dovecot using LMTP
    postconf virtual_transport=lmtp:unix:private/dovecot-lmtp

}

function Enable_relay
{
    #Make Postfix use Dovecot for authentication
    postconf smtpd_sasl_type=dovecot
    postconf smtpd_sasl_path=private/auth
    postconf smtpd_sasl_auth_enable=yes

    #Enable encrypted traffic
    postconf smtpd_tls_security_level=may
    postconf smtpd_tls_auth_only=yes
    postconf smtpd_tls_cert_file=/etc/ssl/My_Certs/certs/mailserver_crt.pem
    postconf smtpd_tls_key_file=/etc/ssl/My_Certs/private/mailserver_key.pem
    #Increase TLS security
    postconf 'smtpd_tls_mandatory_protocols=!SSLv2,!SSLv3'

}
#####Main
#####Create Config Files#####
Create_config_files
#####Edit Config Files#####
Create_mappings

#####Enable Relaying with SMTP authentication#####
Enable_relay


#####Enable the submission port tcp 587#####

sed -i '
/\#tlsproxy  unix  -      -      -      -      0       tlsproxy/ a\
submission inet n - - - - smtpd\
\ -o syslog_name=postfix/submission\
\ -o smtpd_tls_security_level=encrypt\
\ -o smtpd_sasl_auth_enable=yes\
\ -o smtpd_sasl_type=dovecot\
\ -o smtpd_sasl_path=private/auth\
\ -o smtpd_sasl_security_options=noanonymous\
\ -o smtpd_sender_login_maps=mysql:/etc/postfix/mysql-email2email.cf\
\ -o smtpd_sender_restrictions=reject_sender_login_mismatch\
\ -o smtpd_sasl_local_domain=$myhostname\
\ -o smtpd_client_restrictions=permit_sasl_authenticated,reject\
\ -o
smtpd_recipient_restrictions=reject_non_fqdn_recipient,reject_unknown_recipient_domain,permit_sas
l_authenticated,reject
' /etc/postfix/master.cf
```

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