STEP 1: INSTALASI DAN KONFIGURASI DNS SERVER

• Install Bind9

```
tika@tika-VirtualBox:~/Desktop$ sudo su
[sudo] password for tika:
root@tika-VirtualBox:/home/tika/Desktop# apt install bind9
Reading package lists... Done
Building dependency tree
Reading state information... Done
bind9 is already the newest version (1:9.16.1-0ubuntu2.10).
0 upgraded, 0 newly installed, 0 to remove and 126 not upgraded.
root@tika-VirtualBox:/home/tika/Desktop#
```

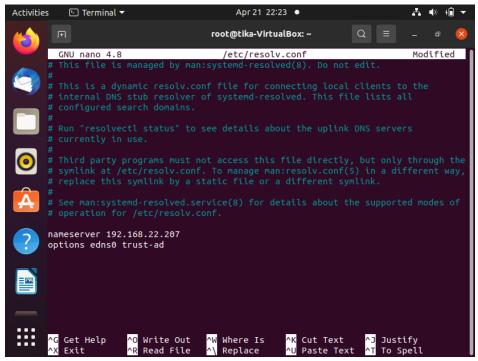
• Ufw allow 53

```
root@tika-VirtualBox:/home/tika/Desktop# ufw allow 53
Skipping adding existing rule
Skipping adding existing rule (v6)
root@tika-VirtualBox:/home/tika/Desktop#
```

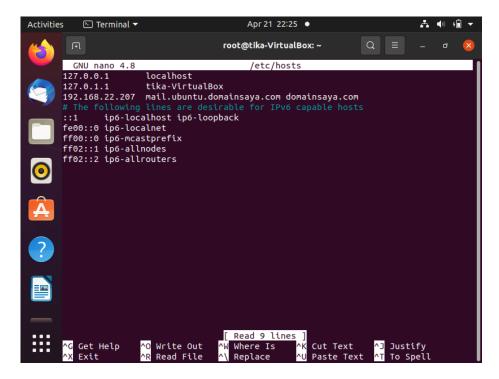
• Konfigurasi Ip address

```
GNU nano 4.8 /etc/netplan/01-network-manager-all.yaml
Let NetworkManager manage all devices on this system
network:
version: 2
renderer: NetworkManager
ethernets:
enp0s3:
dhcp4: no
addresses: [192.168.22.207/24]
gateway4: 192.168.22.5
nameservers:
addresses: [198.168.22.207, 192.168.22.5]
```

 Untuk dapat menggunakan layanan DNS, tambahkan alamat DNS server ke dalam file /etc/resolv.conf.



• Untuk setting hostname konfigurasi pada file /hosts



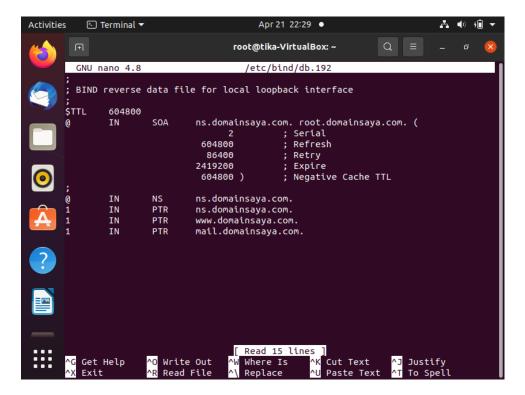
• konfigurasi pada file bind/named/conf.local

```
Activities

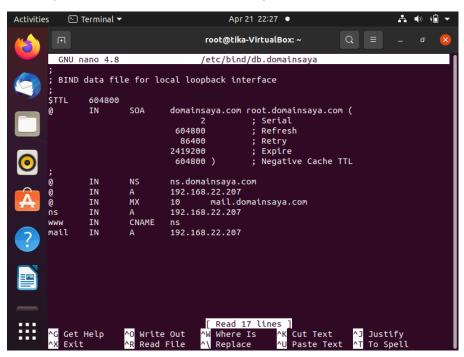
    Terminal ▼

                                                Apr 21 22:26 •
                                                                                      ∴ • • • • • •
                                                                          Q ≡
                                          root@tika-VirtualBox: ~
                                       /etc/bind/named.conf.local
         GNU nano 4.8
          Do any local configuration here
        // Consider adding the 1918 zones here, if they are not used in your
       // organization
//include "/etc/bind/zones.rfc1918";
       zone "domainsaya.com" {
               type master;
file "/etc/bind/db.domainsaya";
       zone "22.168.192.in-addr.arpa" {
               type master;
file "/etc/bind/db.192";
                                           [ Read 19 lines ]
        ^G Get Help
                         ^O Write Out
                                             Where Is
                                                              Cut Text
                            Read File
                                                              Paste Text
```

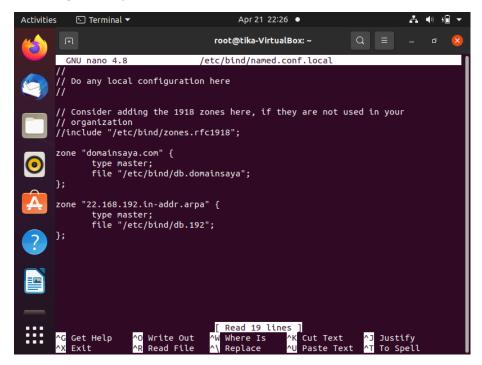
• edit pada file bind/db.192



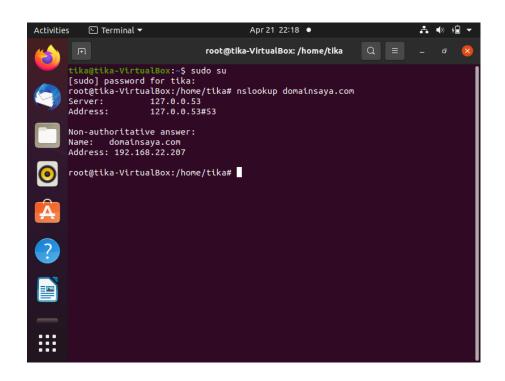
• Edit pada file bind/db.domainsaya



• konfigurasi pada file bind/named.conf.local

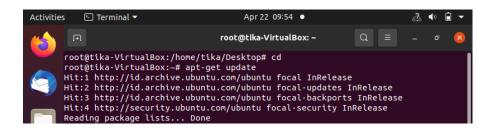


 client berhasil mendapatkan layanan DNS dari server menggunakan perintah nslookup

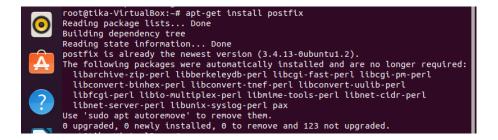


STEP 2 : INSTALASI dan KONFIGURASI POSTFIX

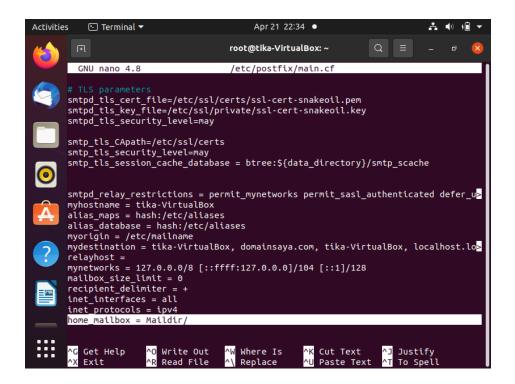
• apt-get update



apt-get install postfix

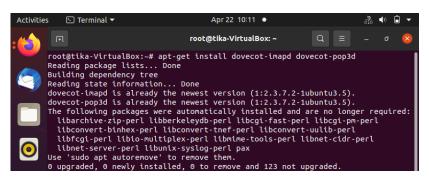


• Edit file main.cf pada postfix `nano /etc/postfix/main.cf'`

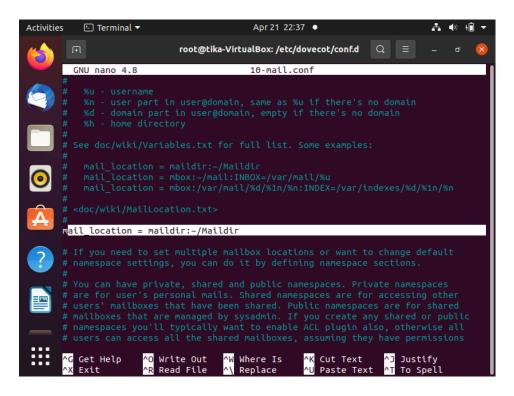


STEP 3 : INSTALASI dan KONFIGURASI DOVECOT

apt-get install dovecot-imapd dovecot-pop3d

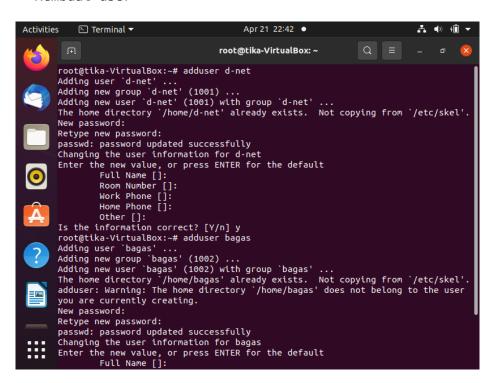


 konfigurasi SASL yang berhubungan dengan postfix pada file /etc/dovecot/conf.d/10-mail.conf

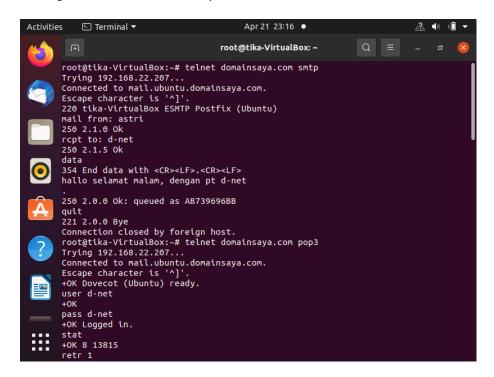


STEP 4 : MEMBUAT USER, MENGIRIM dan MENERIMA EMAIL

• Membuat user

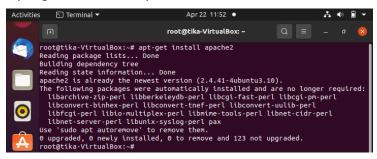


Mengirim dan menerima pesan



STEP 5: INSTALL DAN KONFIGURASI WEBMAIL MENGGUNAKAN SQUIRRELMAIL

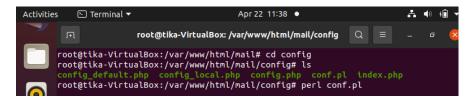
• apt-get install apache2



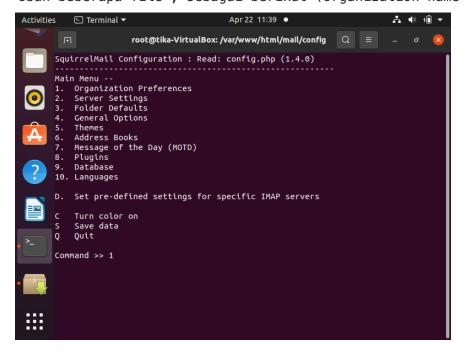
• file squireelmail yang telah di download dan di unzip

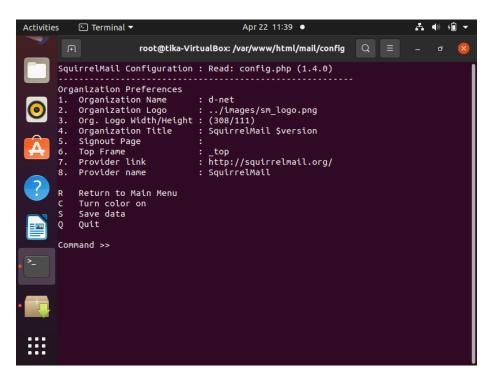


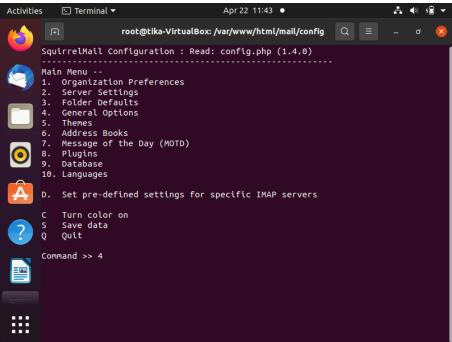
• Untuk konfigurasi, masuk pada direktori seperti dibawah ini

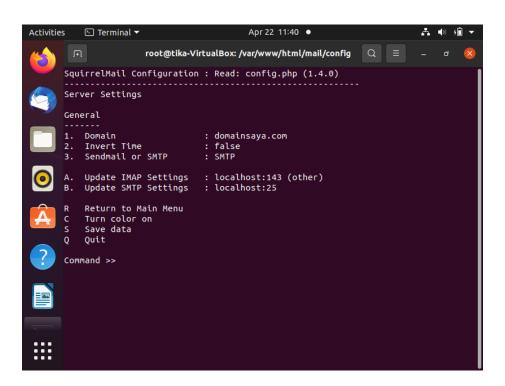


Ubah beberapa file , sebagai berikut (organization name , domain)

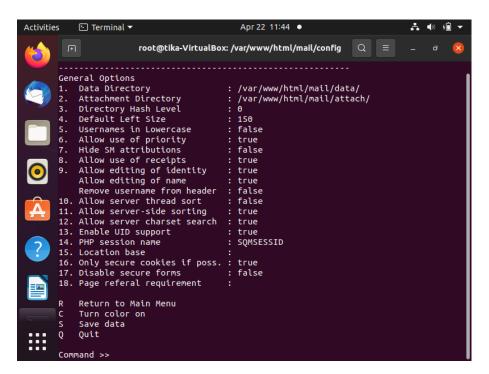








Ubah no 1,2 dan 11 seperti berikut

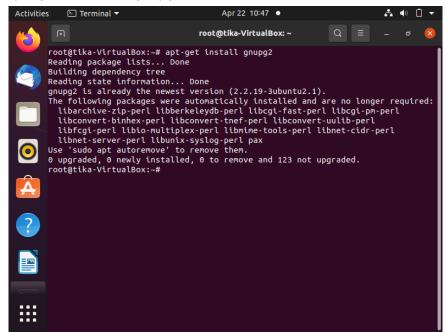


• Coba masuk pada firefox , lalu ketikan domainsaya.com/mail dan coba login dengan user dan password yang telah dibuat sebelumnya

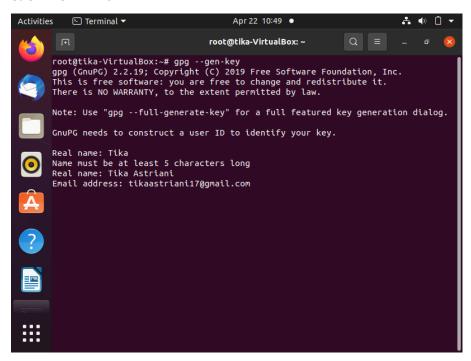


STEP 6: INSTALL dan KONFIGURASI SECURITY MAIL SERVER

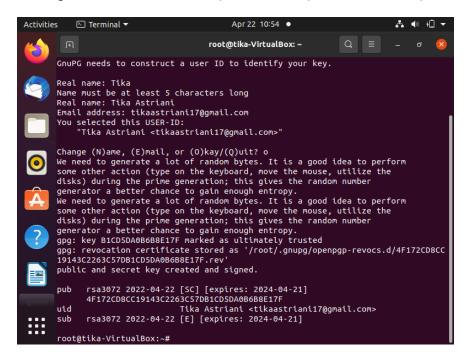
apt-get install gnupg2



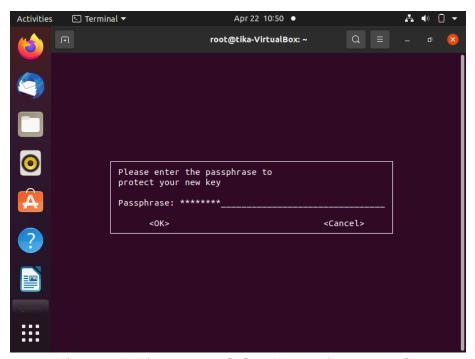
gpg --gen-key



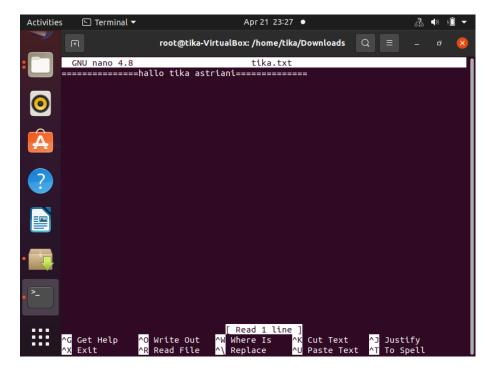
• Konfigurasi untuk use ID , Real name, Email Addres, lalu tekan o



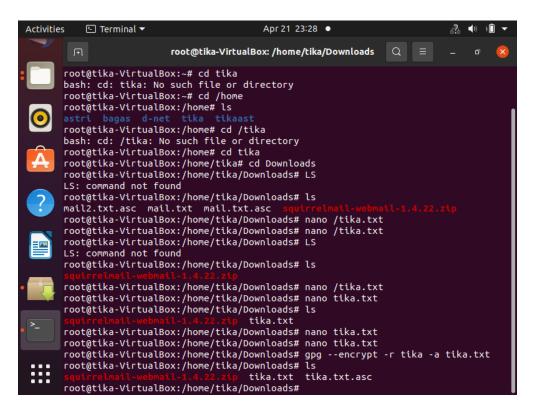
 Lalu akan muncul tampilan Protect your new key isikan sesuai dengan keinginan lalu OK



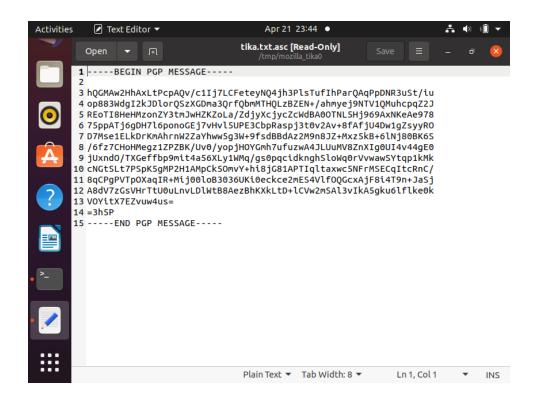
• nano tika.txt isikan pesan lalu simpan dengan ctrl+x



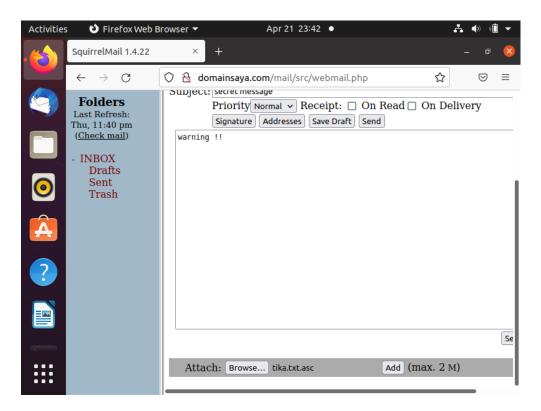
• Encrypt pesan tika.txt dan cek hasilnya menjadi tika.txt.asc



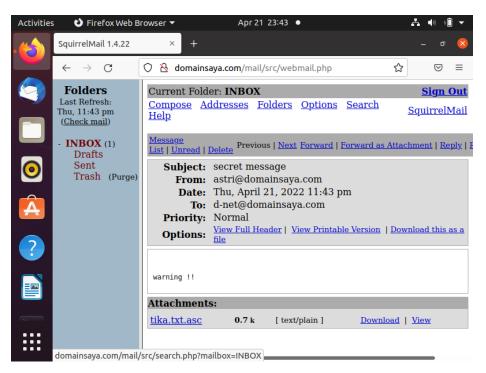
Melihat pesan yang berhasil di encrypt

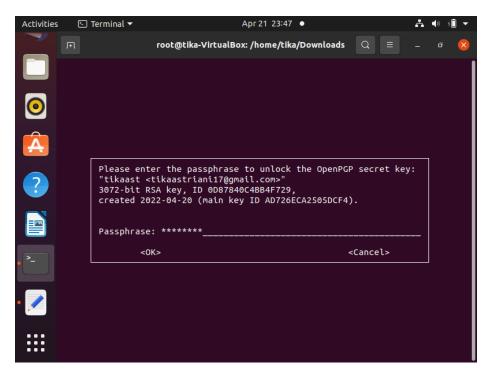


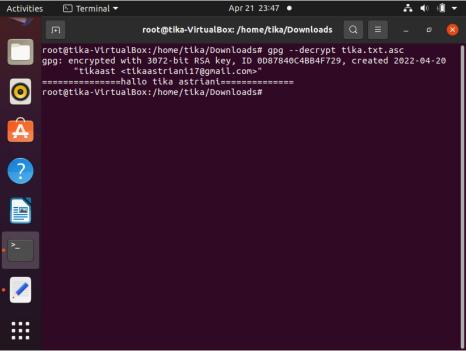
• Mengirimkan pesan yang sudah di encrypt



 Menerima encrypt pesan dan mendownloadnya , setelah itu decrypt pesan yang sudah di download dan lihat isi pesan tersebut.

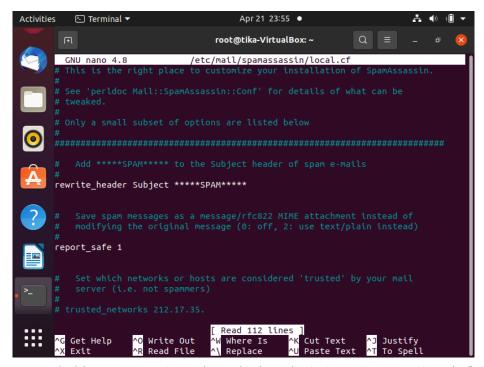




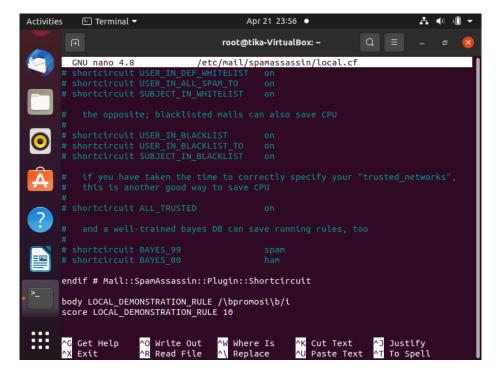


STEP 7: INSTALL ANTI SPAM MENGGUNAKAN SPAMASAASSIN

- apt-get install spamassassin spamc
- nano /etc/mail/spamssassin/local.cf hapus tanda # pada rewrite , report safe lalu simpan



 Tambahkan seperti gambar di bawah ini , agar setiap kalimat yang mengandung kata 'promosi' dianggap sebagai spam



Contoh email yang mengandung kata `promosi`

