

Frequently Asked Questions (FAQ)

1. Cara Menyimpan Menggunakan Text Editor Nano

Untuk menyimpan dengan cara CTRL + X lalu Y lalu Enter

2. Tidak Dapat Terhubung ke Internet / Repository

- a. Pastikan IP Telah Benar
- b. Pastikan Nameserver pada /etc/resolv.conf tidak menggunakan DNS Server Local namun ketika ingin menguji coba DNS Server yang telah kita konfigurasi sendiri dapat menggunakan nameserver sendiri namun tidak dapat terhubung ke Internet

3. Iqro & Teliti 🙌

4. Semangat Teman-Teman 🙌



1. Konfigurasi IP Address Static

- Masuk mode **su** terlebih dahulu
- Konfigurasi static sesuaikan dengan interface yang akan disetting disini yang akan saya konfigurasi yaitu interface **ens36** untuk melihat nama interface yang akan disetting dapat menggunakan perintah **ip a**

```
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 00:0c:29:83:30:90 brd ff:ff:ff:ff:ff:ff
    altnname enp2s1
    inet 192.168.159.130/24 brd 192.168.159.255 scope global dynamic noprefixroute ens33
        valid_lft 1798sec preferred_lft 1798sec
        inet 192.168.159.131/24 brd 192.168.159.255 scope global secondary dynamic ens33
            valid_lft 1798sec preferred_lft 1798sec
3: ens36: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 00:0c:29:83:30:9a brd ff:ff:ff:ff:ff:ff
    altnname enp2s4
    inet 10.252.108.103/24 brd 10.252.108.255 scope global ens36
        valid_lft forever preferred_lft forever
root@debian:~#
```

- Buka file konfigurasi untuk **/etc/network/interfaces** dengan menggunakan text editor **nano**

```
root@debian:~# nano /etc/network/interfaces
```

```
GNU nano 5.4          /etc/network/interfaces *
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

auto ens33
iface ens33 inet dhcp

auto ens36
iface ens36 inet static
    address 10.252.108.103
    netmask 255.255.255.0
    gateway 10.252.108.1
```

- Restart Service Networking dengan perintah **systemctl restart networking** jika failed abaikan terlebih dahulu

```
root@debian:~# systemctl restart networking
Job for networking.service failed because the control process exited with error code.
See "systemctl status networking.service" and "journalctl -xe" for details.
```

- Validasi Konfigurasi IP Static telah sesuai dengan menggunakan perintah **ip a** dan lihat konfigurasi IP yang telah dilakukan pada poin c

```
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 00:0c:29:83:30:90 brd ff:ff:ff:ff:ff:ff
    altnname enp2s1
    inet 192.168.159.130/24 brd 192.168.159.255 scope global dynamic noprefixroute ens33
        valid_lft 1798sec preferred_lft 1798sec
        inet 192.168.159.131/24 brd 192.168.159.255 scope global secondary dynamic ens33
            valid_lft 1798sec preferred_lft 1798sec
3: ens36: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 00:0c:29:83:30:9a brd ff:ff:ff:ff:ff:ff
    altnname enp2s4
    inet 10.252.108.103/24 brd 10.252.108.255 scope global ens36
        valid_lft forever preferred_lft forever
root@debian:~#
```

2. Konfigurasi SSH Server

- Masuk mode **su** terlebih dahulu
- Lakukan update terlebih dahulu dengan perintah **apt-get update**
- Lakukan install package ssh dengan perintah **apt-get install openssh-server -y**

```
root@debian:~# apt-get install openssh-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  openssh-sftp-server runit-helper
Suggested packages:
  molly-guard monkeysphere ssh-askpass ufw
The following NEW packages will be installed:
  openssh-server openssh-sftp-server runit-helper
0 upgraded, 3 newly installed, 0 to remove and 0 not upgraded.
Need to get 446 kB of archives.
After this operation, 1,765 kB of additional disk space will be used.
Do you want to continue? [Y/n] ■
```

- Setelah selesai instalasi buka file konfigurasi **ssh** pada **/etc/ssh/sshd_config** dengan menggunakan text editor **nano**

```
root@debian:~# nano /etc/ssh/sshd_config■
```

- Sebelum Konfigurasi :

```
GNU nano 5.4          /etc/ssh/sshd config
#HostKey /etc/ssh/ssh_host_rsa_key
#HostKey /etc/ssh/ssh_host_ecdsa_key
#HostKey /etc/ssh/ssh_host_ed25519_key

# Ciphers and keying
#RekeyLimit default none

# Logging
#SyslogFacility AUTH
#LogLevel INFO

# Authentication:

#LoginGraceTime 2m
#PermitRootLogin prohibit-password
#StrictModes yes
#MaxAuthTries 6
#MaxSessions 10
■

^G Help      ^O Write Out ^W Where Is ^K Cut      ^T Execute ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste    ^J Justify  ^_ Go To Line
```

- Sesudah Konfigurasi :

```
GNU nano 5.4          /etc/ssh/sshd config *
#HostKey /etc/ssh/ssh_host_rsa_key
#HostKey /etc/ssh/ssh_host_ecdsa_key
#HostKey /etc/ssh/ssh_host_ed25519_key

# Ciphers and keying
#RekeyLimit default none

# Logging
#SyslogFacility AUTH
#LogLevel INFO

# Authentication:

#LoginGraceTime 2m
PermitRootLogin yes■
#StrictModes yes
#MaxAuthTries 6
#MaxSessions 10

#PubkeyAuthentication yes

^G Help      ^O Write Out ^W Where Is ^K Cut      ^T Execute ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste    ^J Justify  ^_ Go To Line
```

- e. Setelah selesai konfigurasi ssh maka restart service ssh dengan menggunakan perintah **systemctl restart ssh**

```
root@debian:~# systemctl restart ssh
```

3. Konfigurasi DNS Server

- Masuk mode **su** terlebih dahulu
- Lakukan install package dns server dengan perintah **apt-get install bind9 dnsutils -y**

```
root@debian:~# apt-get install bind9 dnsutils
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  bind9-utils python3-ply
Suggested packages:
  bind-doc resolvconf ufw python-ply-doc
The following NEW packages will be installed:
  bind9 bind9-utils dnsutils python3-ply
0 upgraded, 4 newly installed, 0 to remove and 0 not upgraded.
Need to get 1,246 kB of archives.
After this operation, 2,612 kB of additional disk space will be used.
Do you want to continue? [Y/n] ■
```

- Konfigurasi domain yang akan kita pakai disini saya memakai domain **amj-2022.ita** buka file konfigurasi /etc/bind/named.conf.local

```
root@debian:~# nano /etc/bind/named.conf.local
```

```
GNU nano 5.4          /etc/bind/named.conf.local *
// 
// 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 "amj-2022.ita" {
    type master;
    file "/var/cache/bind/amj-2022.ita.db";
};
```

- Copy **Record Resource** yang semula pada **/etc/bind/db.local** menuju ke direktori **/var/cache/bind/** menggunakan perintah seperti dibawah ini dan sesuaikan seperti konfigurasi point c pada bagian file

```
root@debian:~# cp /etc/bind/db.local /var/cache/bind/amj-2022.ita.db
```

- e. Konfigurasi **Record Resource** yang telah dicopy pada direktori **/var/cache/bind** disini saya menamai file tersebut dengan **amj-2022.ita.db** dan edit menggunakan text editor **nano**

```
root@debian:~# nano /var/cache/bind/amj-2022.ita.db
```

- a. Sebelum Konfigurasi :

```
GNU nano 5.4          /var/cache/bind/amj-2022.ita.db
;
; BIND data file for local loopback interface
;
$TTL    604800
@      IN      SOA     localhost. root.localhost. (
                      2           ; Serial
                      604800       ; Refresh
                      86400        ; Retry
                     2419200      ; Expire
                      604800 )     ; Negative Cache TTL
;
@      IN      NS      localhost.
@      IN      A       127.0.0.1
@      IN      AAAA    ::1
```

- b. Sesudah Konfigurasi :

```
GNU nano 5.4          /var/cache/bind/amj-2022.ita.db *
;
; BIND data file for local loopback interface
;
$TTL    604800
@      IN      SOA     amj-2022.ita. root.amj-2022.ita. (
                      2           ; Serial
                      604800       ; Refresh
                      86400        ; Retry
                     2419200      ; Expire
                      604800 )     ; Negative Cache TTL
;
@      IN      NS      amj-2022.ita.
@      IN      A       10.252.108.103
@      IN      AAAA    ::1
@      IN      MX 10   mail.amj-2022.ita.
mail   IN      A       10.252.108.103
webmin IN      A       10.252.108.103
```

Pastikan nama domain paling akhir terdapat Titik (.)

IP **10.252.108.103** didapat dari mana ? Sesuaikan dengan konfigurasi pada point **1.c** yang konfigurasi **IP Static**. Untuk melihat konfigurasi IP di Komputer dengan cara **ip a** di terminal

- f. Konfigurasi **DNS Forward** pada file **/etc/bind/named.conf.options** dengan menggunakan text editor **nano**

```
root@debian:/home/aan# nano /etc/bind/named.conf.options
```

```
GNU nano 3.2          /etc/bind/named.conf.options          Modified |
options {
    directory "/var/cache/bind";

    // If there is a firewall between you and nameservers you want
    // to talk to, you may need to fix the firewall to allow multiple
    // ports to talk. See http://www.kb.cert.org/vuls/id/800113

    // If your ISP provided one or more IP addresses for stable
    // nameservers, you probably want to use them as forwarders.
    // Uncomment the following block, and insert the addresses replacing
    // the all-0's placeholder.

    forwarders {
        202.9.85.4;
    };
}
```

- g. Setelah konfigurasi selesai **restart** service **bind9** menggunakan perintah **systemctl restart bind9**

```
root@debian:~# systemctl restart bind9
```

- h. Setelah restart konfigurasi DNS ganti **nameserver** terlebih dahulu pada file **/etc/resolv.conf**

```
root@debian:~# nano /etc/resolv.conf
```

- a. Sebelum Konfigurasi :

GNU nano 5.4	/etc/resolv.conf
#domain localdomain	
#search localdomain	
nameserver 192.168.159.2	

PERINGATAN : Catat **nameserver** lama terlebih dahulu agar saat **instalasi paket selanjutnya** yang membutuhkan **internet tetap dapat terhubung**

- b. Sesudah Konfigurasi :

GNU nano 5.4	/etc/resolv.conf *
#domain localdomain	
#search localdomain	
#nameserver 192.168.159.2	
nameserver 10.252.108.103	

Sesuaikan IP yang telah dikonfigurasi pada **Record Resource**

- i. Untuk **Uji Coba DNS Server** dengan menggunakan perintah **nslookup**

```
root@debian:~# nslookup mail.amj-2022.ita
Server:          10.252.108.103
Address:         10.252.108.103#53

Name:   mail.amj-2022.ita
Address: 10.252.108.103
```

Jika tampilan seperti diatas maka dipastikan berhasil men-konfigurasi DNS Server. Pastikan server dan address pada **kasus kali ini** sama dengan yang dikonfigurasi pada **Record Resource**

4. Konfigurasi Mail Server dengan HTTPS

- Masuk mode **su** terlebih dahulu
- Jangan lupa mengembalikan **nameserver** lama yang telah anda catat pada file **/etc/resolv.conf** agar dapat terhubung ke internet

GNU nano 5.4	/etc/resolv.conf *
#domain localdomain	
#search localdomain	
nameserver 192.168.159.2	
#nameserver 10.252.108.103	

- Lakukan update terlebih dahulu dengan perintah **apt-get update**
- Lakukan install package mail server dan dependency

```
root@debian:~# apt-get install postfix courier-imap mariadb-server roundcube
```

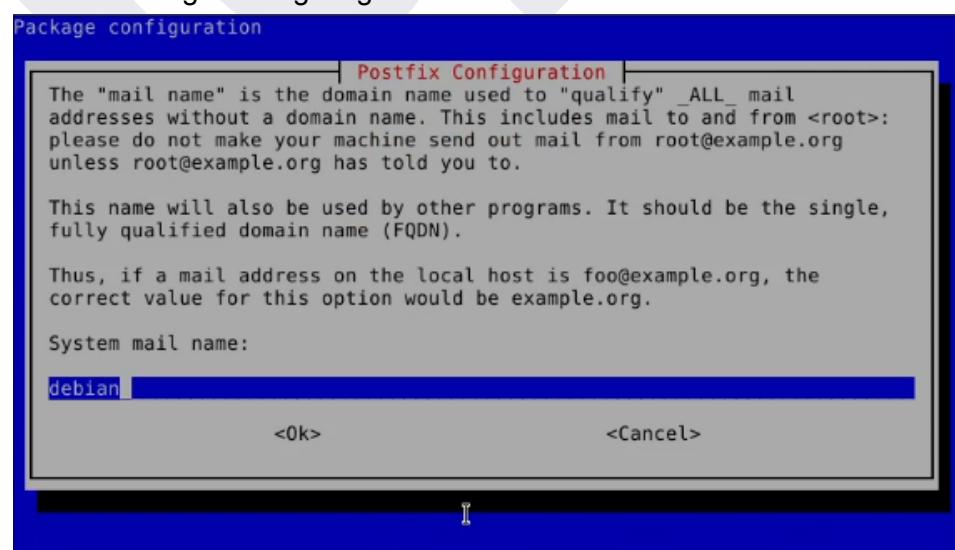
Jika Muncul Pesan Seperti Di Bawah No



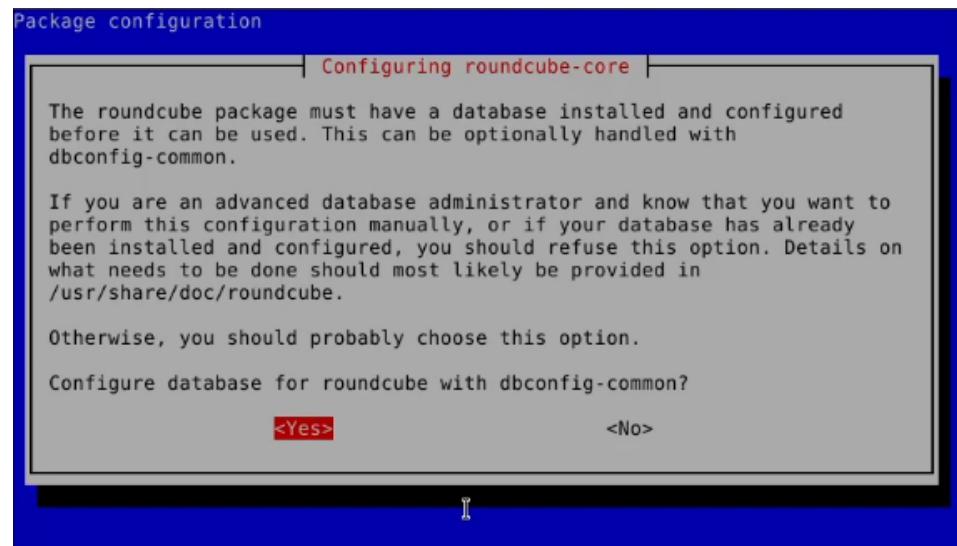
Jika Muncul Pesan Seperti Di Bawah Pilih Internet Only



Tidak usah diganti langsung Enter



Jika Muncul Pesan Seperti Di Bawah **Yes**



Jika Muncul Pesan Seperti Di Bawah **OK**



- e. Setelah itu buka direktori **/etc/skel** dan buat folder **Maildir** dengan menggunakan perintah **maildirmake Maildir**

```
root@debian:~# cd /etc/skel/
root@debian:/etc/skel# maildirmake Maildir
```

- f. Buat **user1** dan **user2** dengan perintah **adduser <namaunderbaru>**
 * tanpa menggunakan tanda < > *

```
root@debian:/etc/skel# adduser user1
Adding user `user1' ...
Adding new group `user1' (1001) ...
Adding new user `user1' (1001) with group `user1' ...
Creating home directory `/home/user1' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for user1
Enter the new value, or press ENTER for the default
    Full Name []:
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] Y
root@debian:/etc/skel# adduser user2
Adding user `user2' ...
Adding new group `user2' (1002) ...
Adding new user `user2' (1002) with group `user2' ...
Creating home directory `/home/user2' ...
Copying files from `/etc/skel' ...
New password:
```

- g. Buka konfigurasi **postfix** terletak di **/etc/postfix/main.cf**

```
root@debian:/etc/skel# nano /etc/postfix/main.cf
```

- h. Scroll ke bagian paling bawah seperti gambar dibawah

```
GNU nano 5.4                               /etc/postfix/main.cf

smtpd_relay_restrictions = permit_mynetworks permit_sasl_authenticated defer_un>
myhostname = debian
alias_maps = hash:/etc/aliases
alias_database = hash:/etc/aliases
mydestination = $myhostname, debian, localhost.localdomain, , localhost
relayhost =
mynetworks = 127.0.0.0/8 [::ffff:127.0.0.0]/104 [::1]/128
mailbox_size_limit = 0
recipient_delimiter = +
inet_interfaces = all
inet_protocols = all
```

- i. Sesuaikan konfigurasi seperti dibawah

```
GNU nano 5.4                               /etc/postfix/main.cf *

smtpd_relay_restrictions = permit_mynetworks permit_sasl_authenticated defer_un>
myhostname = amj-2022.ita ←
alias_maps = hash:/etc/aliases               amj-2022.ita →
alias_database = hash:/etc/aliases
mydestination = $myhostname, debian, localhost.localdomain, , localhost, amj-2022.ita
relayhost =
mynetworks = 127.0.0.0/8 [::ffff:127.0.0.0]/104 [::1]/128
mailbox_size_limit = 0
recipient_delimiter = +
inet_interfaces = all
inet_protocols = all
home_mailbox = Maildir/
mailbox_command =
```

- j. Restart Service Postfix dengan perintah **systemctl restart postfix**

```
root@debian:/etc/skel# systemctl restart postfix
```

- k. Konfigurasi **Roundcube** yang terletak pada **/etc/roundcube/config.inc.php** dan cari bagian seperti dibawah ini lalu sesuaikan seperti dibawah ini

```
root@debian:/etc/skel# nano /etc/roundcube/config.inc.php
```

```
GNU nano 5.4                               /etc/roundcube/config.inc.php *
// %t - hostname without the first part
// %d - domain (http hostname $ _SERVER['HTTP_HOST'] without the first part)
// %z - IMAP domain (IMAP hostname without the first part)
// For example %n = mail.domain.tld, %t = domain.tld
$config['smtp_server'] = 'localhost';

// SMTP port. Use 25 for cleartext, 465 for Implicit TLS, or 587 for STARTTLS (>
$config['smtp_port'] = 25;

// SMTP username (if required) if you use %u as the username Roundcube
// will use the current username for login
$config['smtp_user'] = '';

// SMTP password (if required) if you use %p as the password Roundcube
// will use the current user's password for login
$config['smtp_pass'] = '';
```

- l. Konfigurasi SSL untuk domain **mail.amj-2022.ita** yaitu masuk ke direktori **/etc/apache2/sites-available/**

```
root@debian:/etc/skel# cd /etc/apache2/sites-available/
root@debian:/etc/apache2/sites-available# ls
000-default.conf  default-ssl.conf
```

- m. Duplikat konfigurasi **default-ssl.conf** menjadi **mail-ssl.conf**

```
root@debian:/etc/apache2/sites-available# cp default-ssl.conf mail-ssl.conf
```

- n. Konfigurasi **mail-ssl.conf** menggunakan **nano** pastikan anda telah berada di direktori **/etc/apache/sites-available/**

```
root@debian:/etc/apache2/sites-available# nano mail-ssl.conf
```

Sesuaikan ServerAdmin, ServerName, ServerAlias, dan DocumentRoot seperti dibawah

```
GNU nano 5.4                               mail-ssl.conf *
<IfModule mod_ssl.c>
    <VirtualHost _default_:443>
        ServerAdmin webmaster@amj-2022.ita
        ServerName mail.amj-2022.ita
        ServerAlias mail.amj-2022.ita

        DocumentRoot /usr/share/roundcube
```

- o. Nyalakan module **ssl** dengan menggunakan perintah **a2enmod ssl**

```
root@debian:/etc/apache2/sites-available# a2enmod ssl
Considering dependency setenvif for ssl:
Module setenvif already enabled
Considering dependency mime for ssl:
Module mime already enabled
Considering dependency socache_shmcb for ssl:
Enabling module socache_shmcb.
Enabling module ssl.
See /usr/share/doc/apache2/README.Debian.gz on how to configure SSL and create self-signed certificates.
To activate the new configuration, you need to run:
    systemctl restart apache2
```

- p. Nyalakan konfigurasi **mail-ssl.conf** dengan menggunakan perintah **a2ensite mail-ssl.conf** pastikan anda telah berada di direktori **/etc/apache/sites-available/**

```
root@debian:/etc/apache2/sites-available# a2ensite mail-ssl.conf
Enabling site mail-ssl.
To activate the new configuration, you need to run:
    systemctl reload apache2
root@debian:/etc/apache2/sites-available#
```

- q. Restart Service Apache2 dengan perintah `systemctl restart apache2`

```
root@debian:/etc/apache2/sites-available# systemctl restart apache2
```

- r. Setelah restart konfigurasi Apache2 ganti nameserver terlebih dahulu pada file `/etc/resolv.conf`

```
root@debian:~# nano /etc/resolv.conf
```

- c. Sebelum Konfigurasi :

```
GNU nano 5.4                               /etc/resolv.conf
domain localdomain
search localdomain
nameserver 192.168.159.2
```

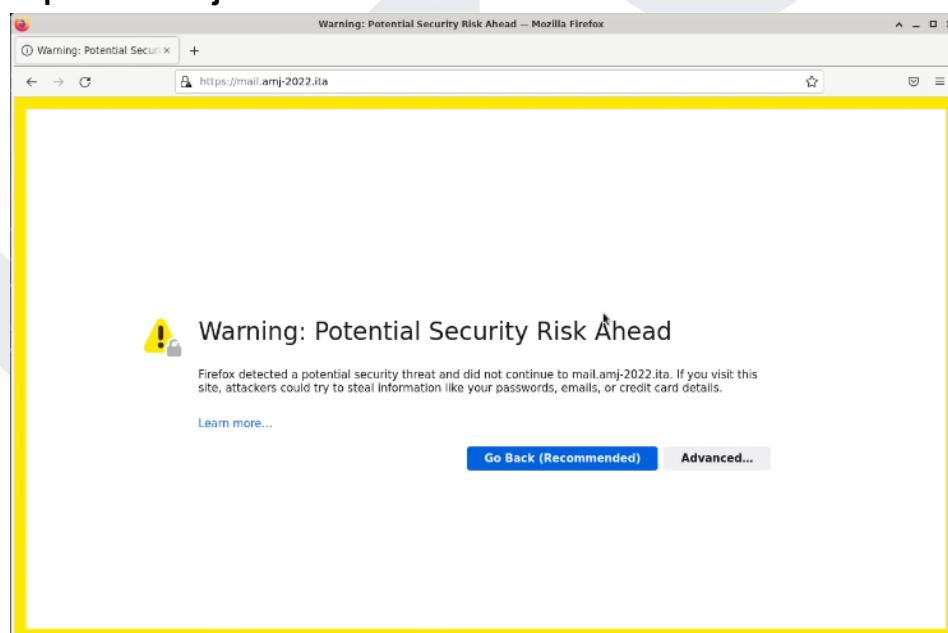
PERINGATAN : Catat nameserver lama terlebih dahulu agar saat instalasi paket selanjutnya yang membutuhkan internet tetap dapat terhubung

- d. Sesudah Konfigurasi :

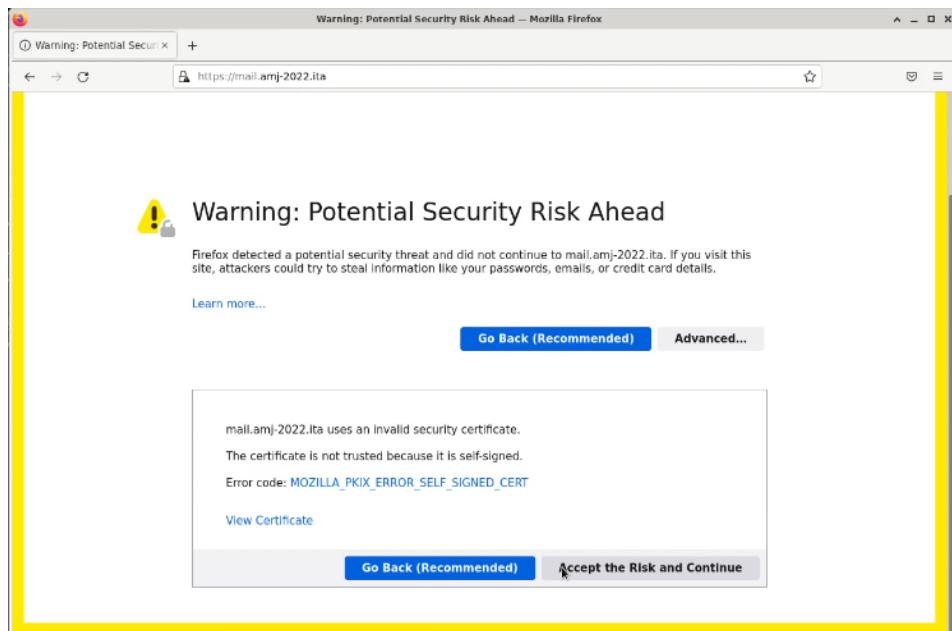
```
GNU nano 5.4                               /etc/resolv.conf *
#domain localdomain
#search localdomain
#nameserver 192.168.159.2
nameserver 10.252.108.103
```

Sesuaikan IP yang telah dikonfigurasi pada **Record Resource**

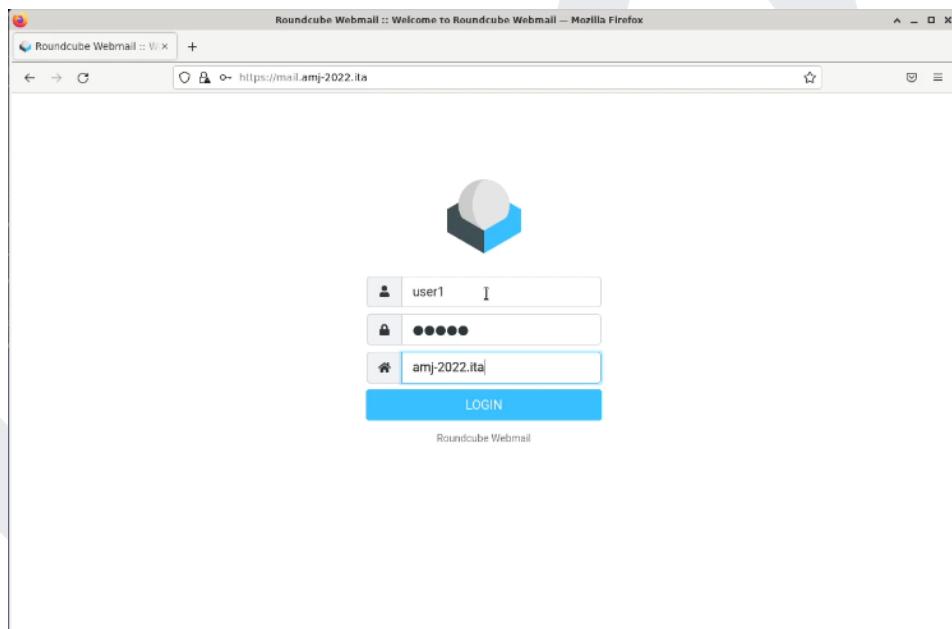
- s. Setelah mengganti nameserver pada `/etc/resolv.conf` lakukan uji coba dengan membuka browser setelah itu mengetikkan domain dengan format `https://mail.amj-2022.ita`



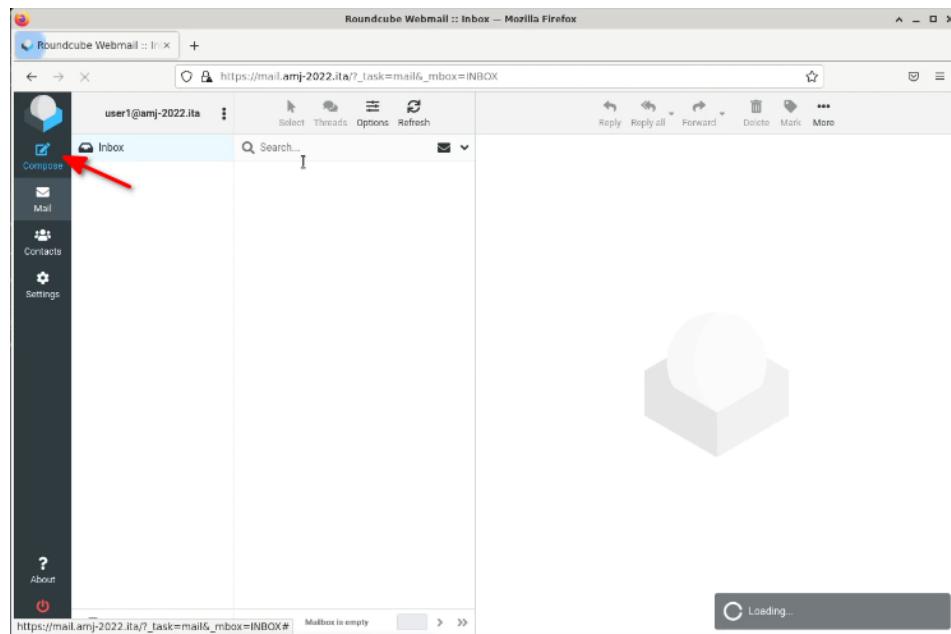
Setelah Tampil Seperti Diatas Klik **Advanced**



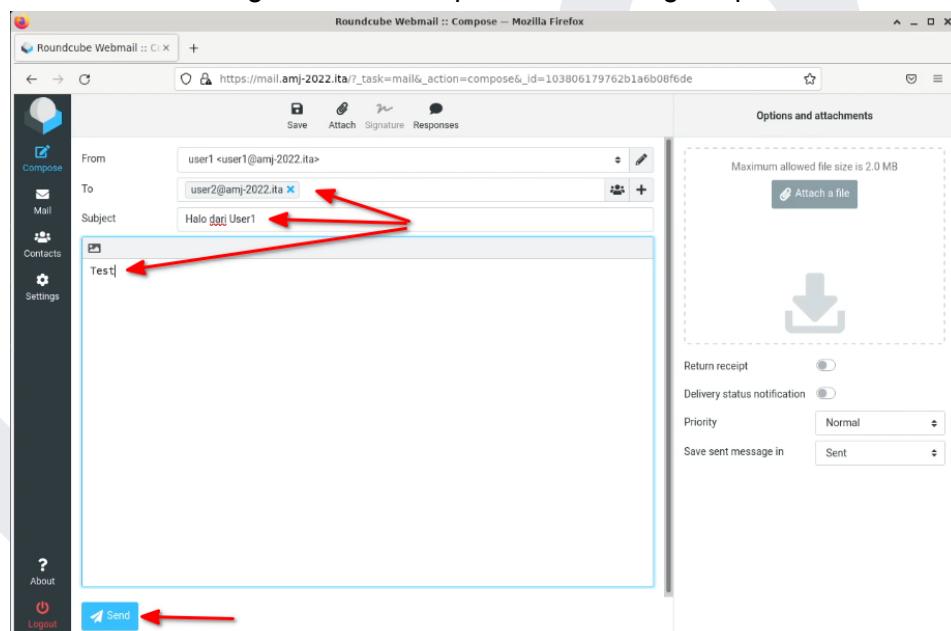
Setelah Tampil Seperti Diatas Klik **Accept the Risk and Continue**



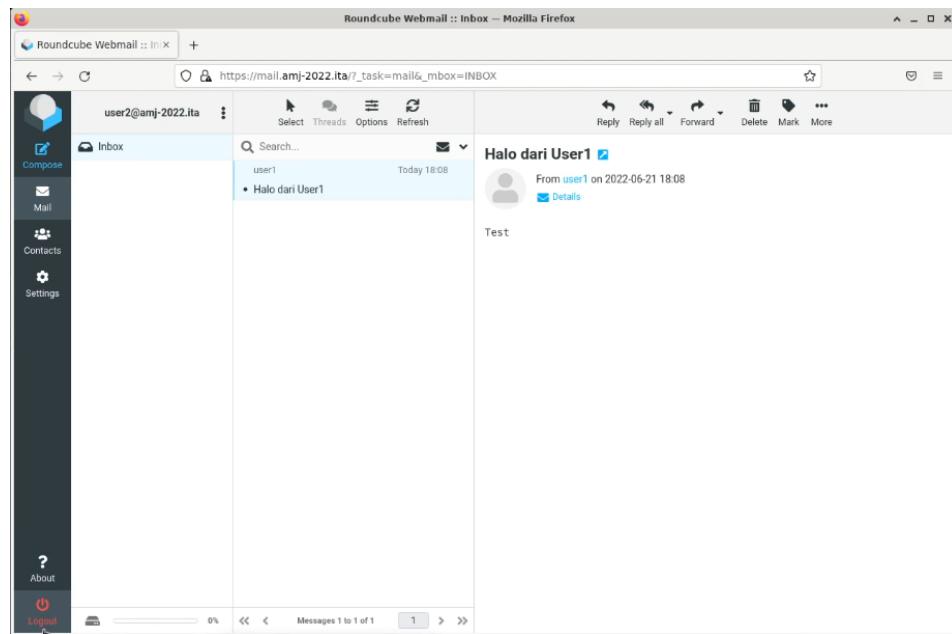
Jika tampil seperti diatas masukkan user yang telah dibuat tadi pada contoh diatas menggunakan **username : user1** dan **password : user1** lalu bagian **server : amj-2022.ita**



Setelah berhasil login lalu klik compose untuk mengirim pesan baru



Lalu isi bagian **to** kepada **user2**, dan isi **subject**, lalu isi **pesan** jika sudah klik **Send**. Setelah itu **log out** dan **login** menggunakan **user2** dan check inbox pada user2



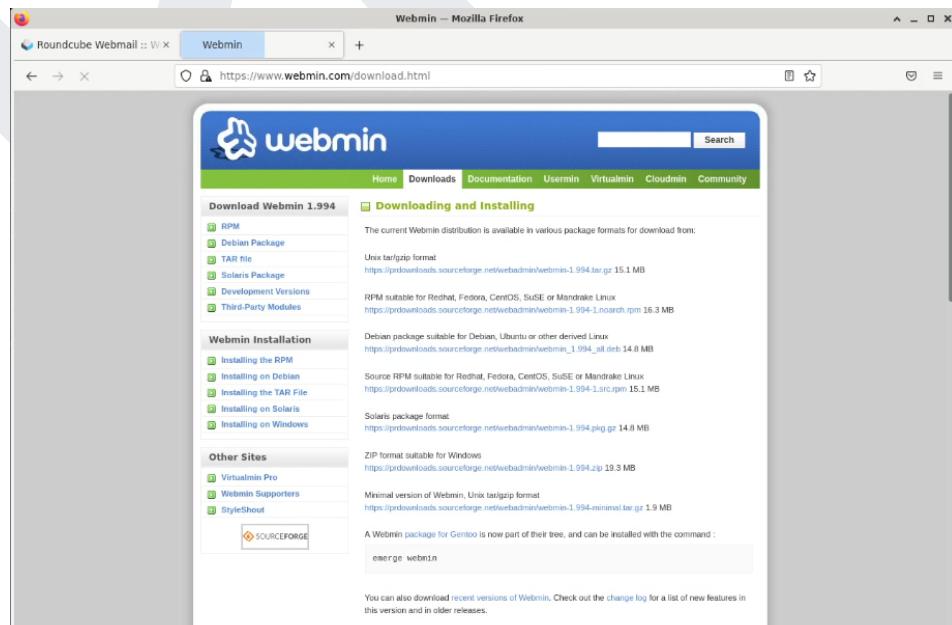
Maka akan tampil pesan baru pada **inbox** yaitu dari **user1**.

5. Konfigurasi Webmin dengan HTTPS

- Jangan lupa mengembalikan **nameserver** lama yang telah anda catat pada file **/etc/resolv.conf** agar dapat terhubung ke internet

```
GNU nano 5.4                               /etc/resolv.conf *
#domain localdomain
#search localdomain
nameserver 192.168.159.2
#nameserver 10.252.108.103
```

- Buka web browser dan ketik www.webmin.com lalu download yang bertipe Debian



- c. Setelah webmin terdownload buka folder **Downloads** disini saya menggunakan user login **root** jika tidak ada coba buka folder **/home/student/Downloads**. Student bisa diganti dengan **user yang sedang anda login kan sekarang**. Untuk menginstall paket webmin dapat menggunakan perintah apt-get install ./webmin

```
root@debian:~# cd Downloads/
root@debian:~/Downloads# ls
webmin_1.994_all.deb
root@debian:~/Downloads# apt-get install ./webmin_1.994_all.deb
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Note, selecting 'webmin' instead of './webmin_1.994_all.deb'
The following additional packages will be installed:
  libauthen-pam-perl libio-pty-perl
The following NEW packages will be installed:
  libauthen-pam-perl libio-pty-perl webmin
0 upgraded, 3 newly installed, 0 to remove and 0 not upgraded.
Need to get 64.5 kB/28.4 MB of archives.
After this operation, 303 kB of additional disk space will be used.
Do you want to continue? [Y/n] ■
```

- d. Konfigurasi SSL untuk domain **webmin.amj-2022.ita** yaitu masuk ke direktori **/etc/apache2/sites-available**

```
root@debian:/etc/skel# cd /etc/apache2/sites-available/
root@debian:/etc/apache2/sites-available# ls
```

- e. Duplikat konfigurasi **default-ssl.conf** menjadi **webmin-ssl.conf**

```
root@debian:/etc/apache2/sites-available# cp default-ssl.conf webmin-ssl.conf■
```

- f. Konfigurasi **webmin-ssl.conf** menggunakan **nano** pastikan anda telah berada di direktori **/etc/apache/sites-available**

```
root@debian:/etc/apache2/sites-available# nano webmin-ssl.conf■
```

Sesuaikan seperti konfigurasi dibawah ini

```
GNU nano 5.4                                     webmin-ssl.conf *
<IfModule mod_ssl.c>
    <VirtualHost _default_:443>
        ServerAdmin webmaster@amj-2022.ita
        ServerName webmin.amj-2022.ita
        ServerAlias webmin.amj-2022.ita

        SSLProxyEngine On
        SSLProxyVerify none
        SSLProxyCheckPeerCN off
        SSLProxyCheckPeerExpire off
        ProxyRequests off
        ProxyPreserveHost On

        ProxyPass / https://localhost:10000/
        ProxyPassReverse / https://localhost:10000/■
#DocumentRoot /var/www/html
```

- g. Nyalakan module **ssl** dengan menggunakan perintah **a2enmod ssl**

```
root@debian:/etc/apache2/sites-available# a2enmod ssl
Considering dependency setenvif for ssl:
Module setenvif already enabled
Considering dependency mime for ssl:
Module mime already enabled
Considering dependency socache_shmcb for ssl:
Enabling module socache_shmcb.
Enabling module ssl.
See /usr/share/doc/apache2/README.Debian.gz on how to configure SSL and create self-signed certificates.
To activate the new configuration, you need to run:
    systemctl restart apache2
```

- h. Nyalakan module **proxy** dan **proxy_http** dengan menggunakan perintah **a2enmod proxy && a2enmod proxy_http**

```
root@debian:/etc/apache2/sites-available# a2enmod proxy
Enabling module proxy.
To activate the new configuration, you need to run:
    systemctl restart apache2
root@debian:/etc/apache2/sites-available# a2enmod proxy_http
Considering dependency proxy for proxy_http:
Module proxy already enabled
Enabling module proxy_http.
To activate the new configuration, you need to run:
    systemctl restart apache2
```

- i. Nyalakan konfigurasi **mail-ssl.conf** dengan menggunakan perintah **a2ensite mail-ssl.conf** pastikan anda telah berada di direktori **/etc/apache/sites-available**

```
root@debian:/etc/apache2/sites-available# a2ensite webmin-ssl.conf
Enabling site webmin-ssl.
To activate the new configuration, you need to run:
    systemctl reload apache2
```

- j. Restart Service Apache2 dengan perintah **systemctl restart apache2**

```
root@debian:/etc/apache2/sites-available# systemctl restart apache2
```

- k. Setelah restart konfigurasi Apache2 ganti nameserver terlebih dahulu pada file **/etc/resolv.conf**

```
root@debian:~# nano /etc/resolv.conf
```

- e. Sebelum Konfigurasi :

```
GNU nano 5.4                               /etc/resolv.conf
domain localdomain
search localdomain
nameserver 192.168.159.2
```

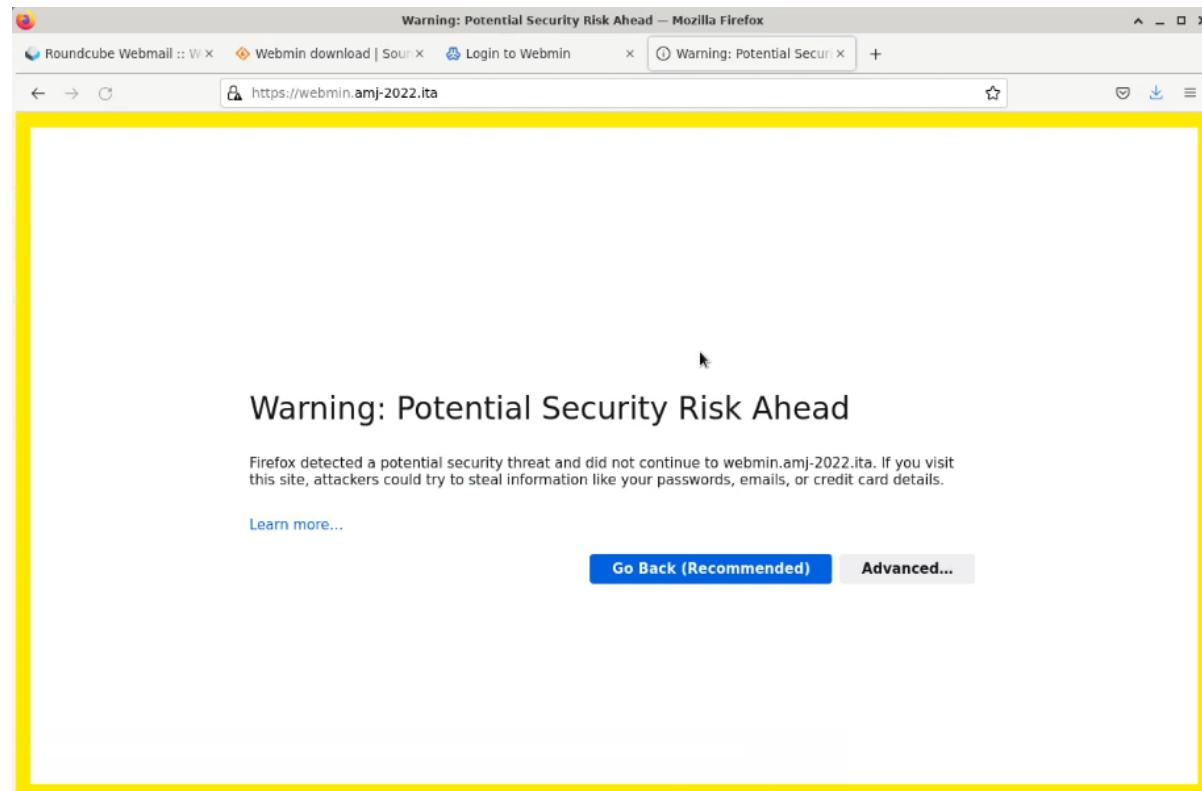
PERINGATAN : Catat nameserver lama terlebih dahulu agar saat instalasi paket selanjutnya yang membutuhkan internet tetap dapat terhubung

- f. Sesudah Konfigurasi :

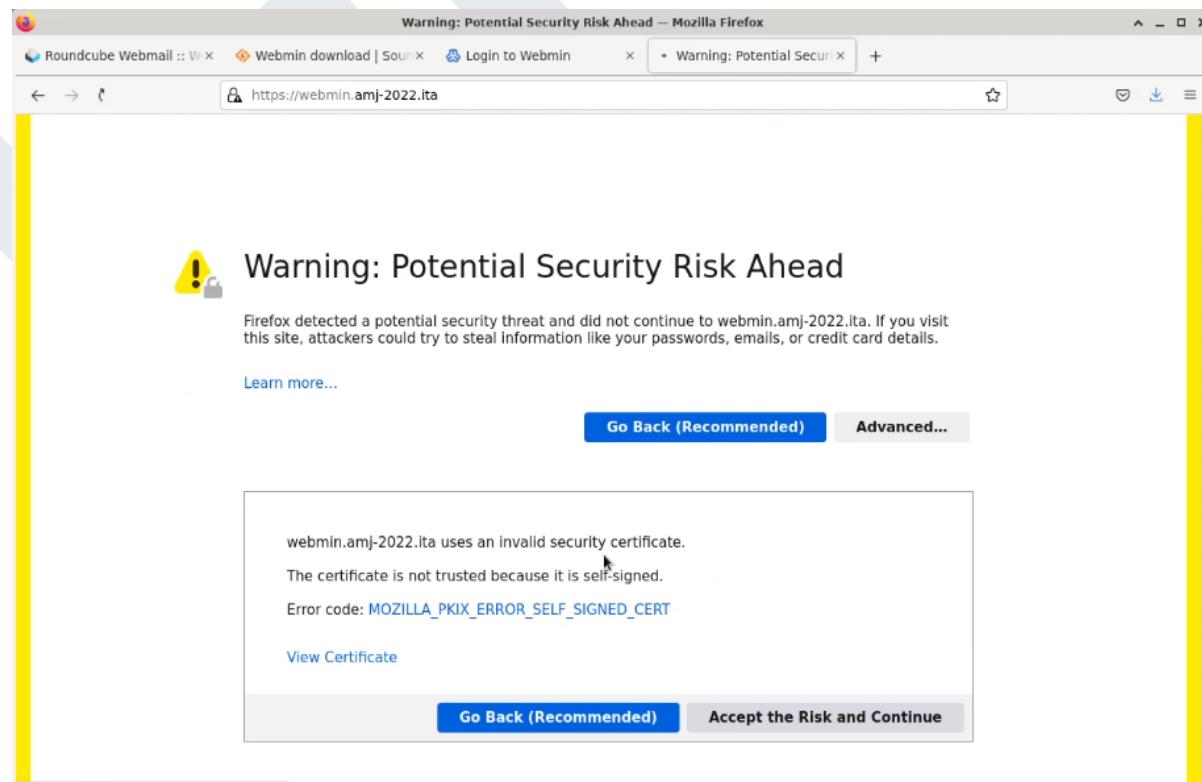
```
GNU nano 5.4                               /etc/resolv.conf *
#domain localdomain
#search localdomain
#nameserver 192.168.159.2
nameserver 10.252.108.103
```

Sesuaikan IP yang telah dikonfigurasi pada **Record Resource**

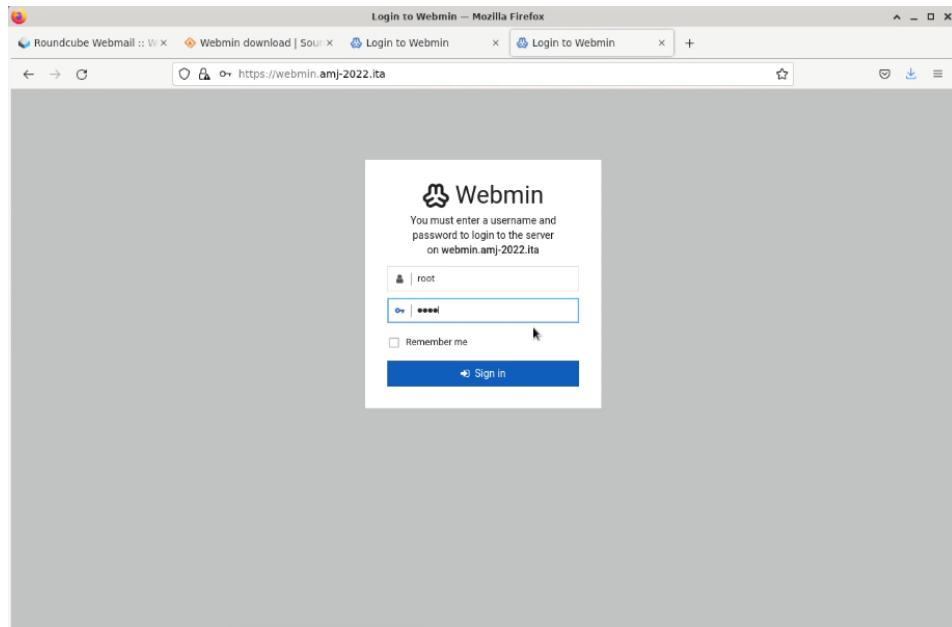
- I. Setelah mengganti **nameserver** pada **/etc/resolv.conf** lakukan uji coba dengan membuka browser setelah itu mengetikkan domain dengan format **https://webmin.amj-2022.ita**



Setelah Tampil Seperti Diatas Klik **Advanced**



Setelah Tampil Seperti Diatas Klik **Accept the Risk and Continue**



Maka akan tampil seperti diatas untuk username masukkan **root** dan password masukkan **password root yang telah terinstall di debian anda**