

Debian9 Roundcube

- DNS Server
- Mail Server
- WebMail Server

Mail ➔ peserta01.lks.diy

DNS ➔ peserta01.lks.diy
Mail.peserta01.lks.diy
www.peserta01.lks.diy

Skenario

Internet ----- Debian

----- Client

1. Setting IP

Cek interface

ip a

```
nano /etc/network/interfaces
auto lo
iface lo inet loopback
```

```
auto enp0s3
iface enp0s3 inet static
    address 192.168.2.223
    gateway 192.168.2.1
```

```
/etc/init.d/networking restart
```

2. Scan dvd repository

Dvd 1 untuk menginstall jadi tidak perlu scan.

Masukkan dvd 2. Ketik apt-cdrom add

Ketik eject

Masukkan dvd3. Ketik apt-cdrom add

Ketik eject

3. DNS Server

```
apt-get install bind9 dnsutils
```

masukkan dvd1

masukkan dvd2

```
cd /etc/bind
```

```
nano named.conf.default-zones
```

tambahkan baris

```
=====
```

```
zone "peserta01.lks.diy"{
```

```

    type master;
    file "/etc/bind/db.peserta";
};
zone "2.168.192.in-addr.arpa"{
    type master;
    file "/etc/bind/db.192";
};
=====

```

```

cp db.local db.peserta
cp db.127 db.192

```

nano db.peserta

```

GNU nano 2.7.4 File: db.peserta
;
; BIND data file for local loopback interface
;
$TTL      604800
@         IN      SOA      peserta01.lks.diy. root.peserta01.lks.diy. (
                        2      ; Serial
                        604800 ; Refresh
                        86400  ; Retry
                        2419200 ; Expire
                        604800 ) ; Negative Cache TTL
;
@         IN      NS       peserta01.lks.diy.
@         IN      MX       10 mail.peserta01.lks.diy.
@         IN      A        192.168.2.223
www       IN      A        192.168.2.223
mail      IN      A        192.168.2.223

```

nano db.192

```

GNU nano 2.7.4 File: db.192
;
; BIND reverse data file for local loopback interface
;
$TTL      604800
@         IN      SOA      peserta01.lks.diy. root.peserta01.lks.diy. (
                        1      ; Serial
                        604800 ; Refresh
                        86400  ; Retry
                        2419200 ; Expire
                        604800 ) ; Negative Cache TTL
;
@         IN      NS       peserta01.lks.diy.
223       IN      PTR      peserta01.lks.diy.
223       IN      PTR      www.peserta01.lks.diy.
223       IN      PTR      mail.peserta01.lks.diy.

```

Setting forwarders
nano named.conf.options
sebelum

```
// forwarders {
// 0.0.0.0;
// };

//=====
// If BIND logs error messages about the root key be
// you will need to update your keys. See https://w
//=====
dnssec-validation auto;

auth-nxdomain no;    # conform to RFC1035
listen-on-v6 { any; };
```

Sesudah

```
forwarders {
    8.8.8.8;
};

//=====
// If BIND logs error messages about the root key bei
// you will need to update your keys. See https://ww
//=====
//dnssec-validation auto;
allow-query { any; };

auth-nxdomain no;    # conform to RFC1035
listen-on-v6 { any; };
```

Restart Service

/etc/init.d/bind9 restart

Ganti resolv.conf

nano /etc/resolv.conf

nameserver 192.168.2.223

Ganti namahost

Nano /etc/hosts

```
127.0.0.1    localhost
127.0.1.1    debian9 mail www
```

Cek nslookup peserta01.lks.diy

```

root@debian9:/etc/bind# nslookup peserta01.lks.diy
Server:          192.168.2.223
Address:         192.168.2.223#53

Name:   peserta01.lks.diy
Address: 192.168.2.223

root@debian9:/etc/bind# nslookup www.peserta01.lks.diy
Server:          192.168.2.223
Address:         192.168.2.223#53

Name:   www.peserta01.lks.diy
Address: 192.168.2.223

root@debian9:/etc/bind# nslookup mail.peserta01.lks.diy
Server:          192.168.2.223
Address:         192.168.2.223#53

Name:   mail.peserta01.lks.diy
Address: 192.168.2.223

```

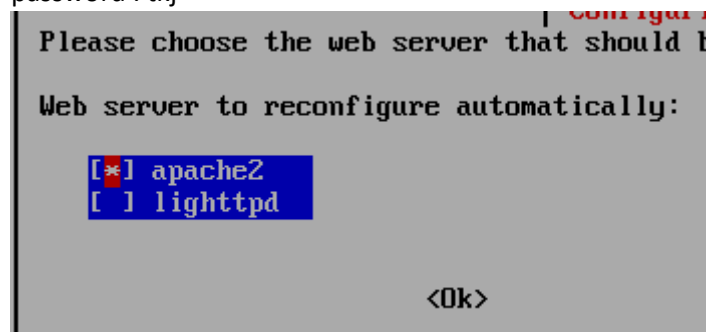
4. Web Server

apt-get install apache2 php7.0 mariadb-server

apt-get install phpmyadmin

db-config common : yes

password : tkj



```

root@debian9:/etc/bind# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 26
Server version: 10.1.26-MariaDB-0+deb9u1 Debian 9.1

Copyright (c) 2000, 2017, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> CREATE USER 'tkj'@'%' IDENTIFIED BY 'tkj';
Query OK, 0 rows affected (0.00 sec)

MariaDB [(none)]> GRANT ALL PRIVILEGES ON *.* to tkj@'%';
Query OK, 0 rows affected (0.00 sec)

MariaDB [(none)]> \q
Bye
root@debian9:/etc/bind#

```

Buat juga user roundcube password tkj

Setting client

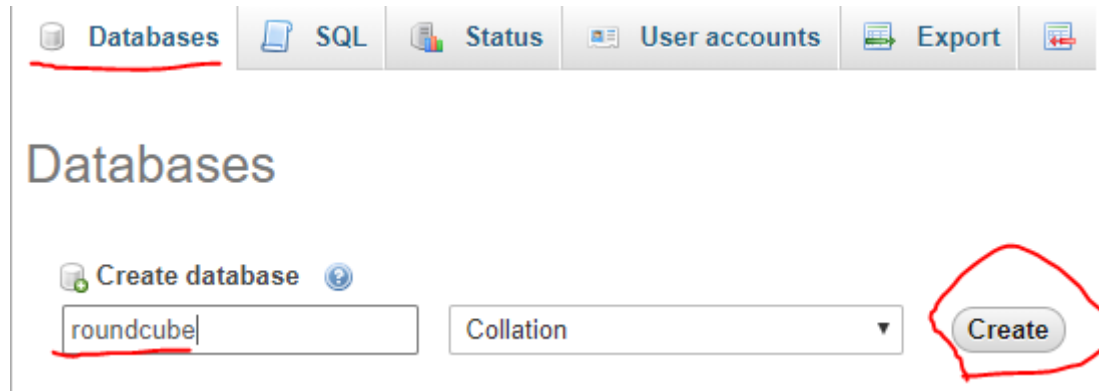
Pastikan konek dengan server Debian(bisa ping) dan ip dns adalah ip Debian

Cek dengan ping ke peserta01.lks.diy

Buka browser

Ketik peserta01.lks.diy/phpMyAdmin

Login dengan user : tkj password : tkj



Klik database

Buat database dengan nama roundcube

5. Mail Server

apt-get install postfix courier-imap dovecot-pop3d dovecot-core gnutls-bin

Postfix configuration : **Internet Site**

System mailname : peserta01.lks.diy

apt --fix-broken install

nano /etc/postfix/main.cf

tambahkan

home_mailbox = Maildir/

maildirmake /etc/skel/Maildir

###setting dovecot

nano /etc/dovecot/conf.d/10-mail.conf

sebelum

```
# mail_location = maildir:~/Maildir
# mail_location = mbox:~/mail:INBOX=/var/mail/%u
# mail_location = mbox:/var/mail/%d/%1n/%n:INDEX=/var/mail/%u
#
# <doc/wiki/MailLocation.txt>
#
mail_location = mbox:~/mail:INBOX=/var/mail/%u
```

Sesudah

```
#
# mail_location = maildir:~/Maildir
# mail_location = mbox:~/mail:INBOX=/var/mail/%u
# mail_location = mbox:/var/mail/%d/%1n/%n:INDEX=/var/mail/%u
#
# <doc/wiki/MailLocation.txt>
#
#mail_location = mbox:~/mail:INBOX=/var/mail/%u
```

Restart dovecot dan postfix

/etc/init.d/postfix restart

/etc/init.d/dovecot restart

#####buat 2 user untuk tes

adduser dani

adduser dian

#####Tes Kirim email

```
root@debian9:/etc/bind# telnet mail.peserta01.lks.diy 25
Trying 192.168.2.223...
Connected to mail.peserta01.lks.diy.
Escape character is '^I'.
220 debian9 ESMTTP Postfix (Debian/GNU)
mail from:dian
250 2.1.0 Ok
rcpt to:andi@peserta01.lks.diy
250 2.1.5 Ok
data
354 End data with <CR><LF>.<CR><LF>
coba aku email kamu
.
250 2.0.0 Ok: queued as 38158CBB
quit
221 2.0.0 Bye
Connection closed by foreign host.
```

Terima Email

```

root@debian9:/etc/bind# telnet mail.peserta01.lks.diy 110
Trying 192.168.2.223...
Connected to mail.peserta01.lks.diy.
Escape character is '^]'.
+OK Dovecot ready.
user andi
+OK
pass andi
+OK Logged in.
stat
+OK 2 899
retr 2
+OK 443 octets
Return-Path: <dian@peserta01.lks.diy>
X-Original-To: andi@peserta01.lks.diy
Delivered-To: andi@peserta01.lks.diy
Received: from peserta01.lks.diy (peserta01.lks.diy [192.168.2.223])
        by debian9 (Postfix) with SMTP id 11DE4D7E
        for <andi@peserta01.lks.diy>; Thu, 24 Oct 2019 11:57:07 +0700 (WIB)
Message-Id: <20191024045716.11DE4D7E@debian9>
Date: Thu, 24 Oct 2019 11:57:07 +0700 (WIB)
From: dian@peserta01.lks.diy

coba kirim email
.

```

6. Webmail Server

```

apt-get install roundcube sqlite3
apt-get install roundcube
apt -fix-broken install
apt-get install roundcube

```

```

db-config common : yes
password : tkj

```



```

// NOTE: for SQLite use absolute path (Linux): 'sqlite:///full/path/'
//       or (Windows): 'sqlite:///C:/full/path/to/sqlite.db'
$config['db_dsnw'] = 'mysql://roundcube:@localhost/roundcubemail';

```

```

nano /etc/roundcube/debian-db.php

```

```
$dbuser='tkj';  
$dbpass='tkj';  
$basepath='';  
$dbname='roundcube';  
$dbserver='localhost';  
$dbport='3306';  
$dbtype='mysql';
```

```
root@debian9:~# cd /usr/share/roundcube/SQL  
root@debian9:/usr/share/roundcube/SQL# mysql -u tkj -p roundcube < mysql.initial.sql  
Enter password:  
root@debian9:/usr/share/roundcube/SQL# _
```

#####membuat virtualhost untuk mail di apache
nano /etc/apache2/sites-available/000-default.conf

Tambah baris berikut di paling bawah

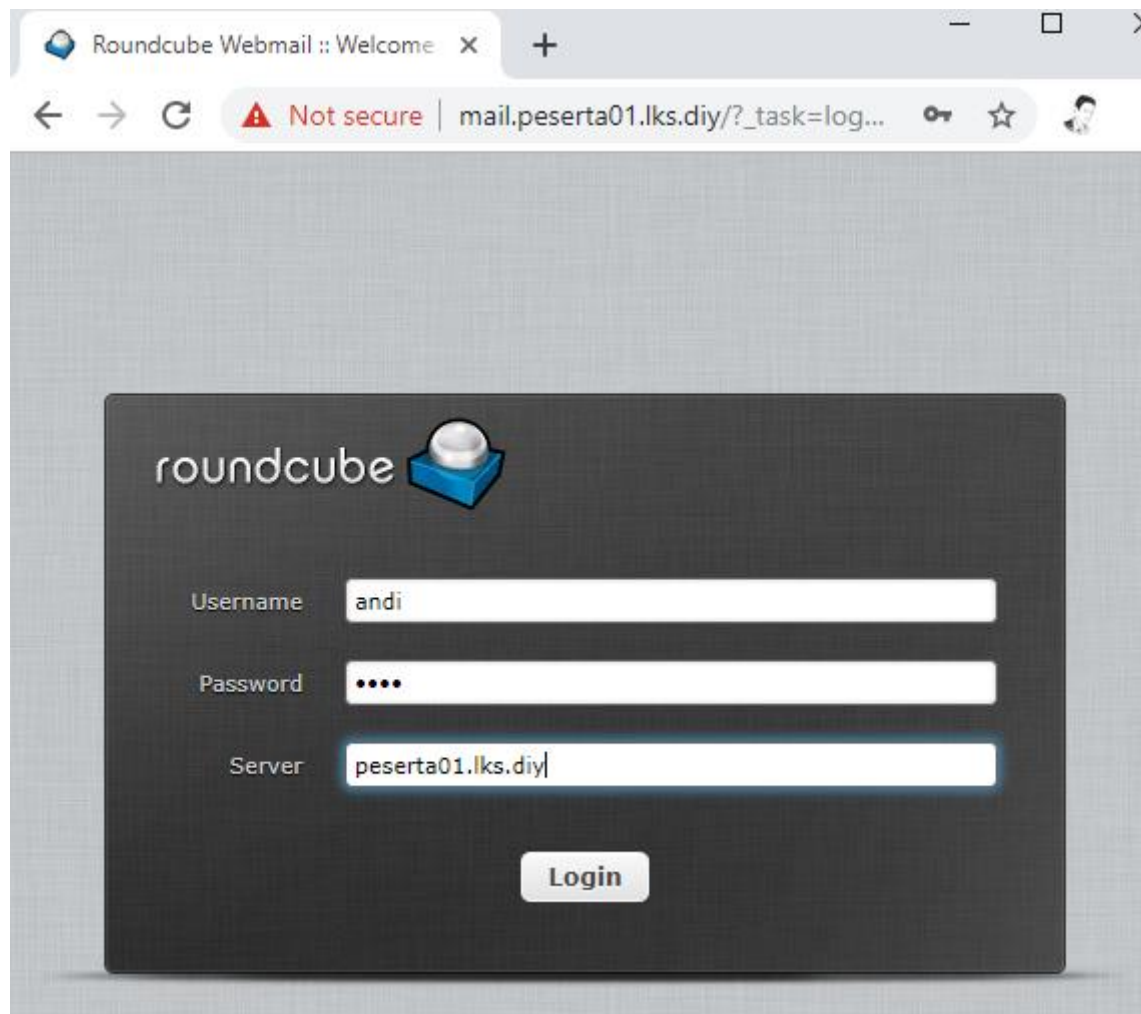
```
# vim: syntax=apache ts=4 sw=4 sts=4 sr noet  
<VirtualHost *:80>  
    ServerName      mail.peserta01.lks.diy  
    DocumentRoot    /var/lib/roundcube  
</VirtualHost>
```

Restart apache

service apache2 restart

7. Tes Di Client

Buka browser <http://mail.peserta01.lks.diy>



8.