POWERDNS MASTER & SLAVE WITH POWERADMIN BACKEND MYSQL

Note :

OS : Ubuntu 14.04

NS1 : 192.168.100.51/24 (ns1.raisa.net). Master

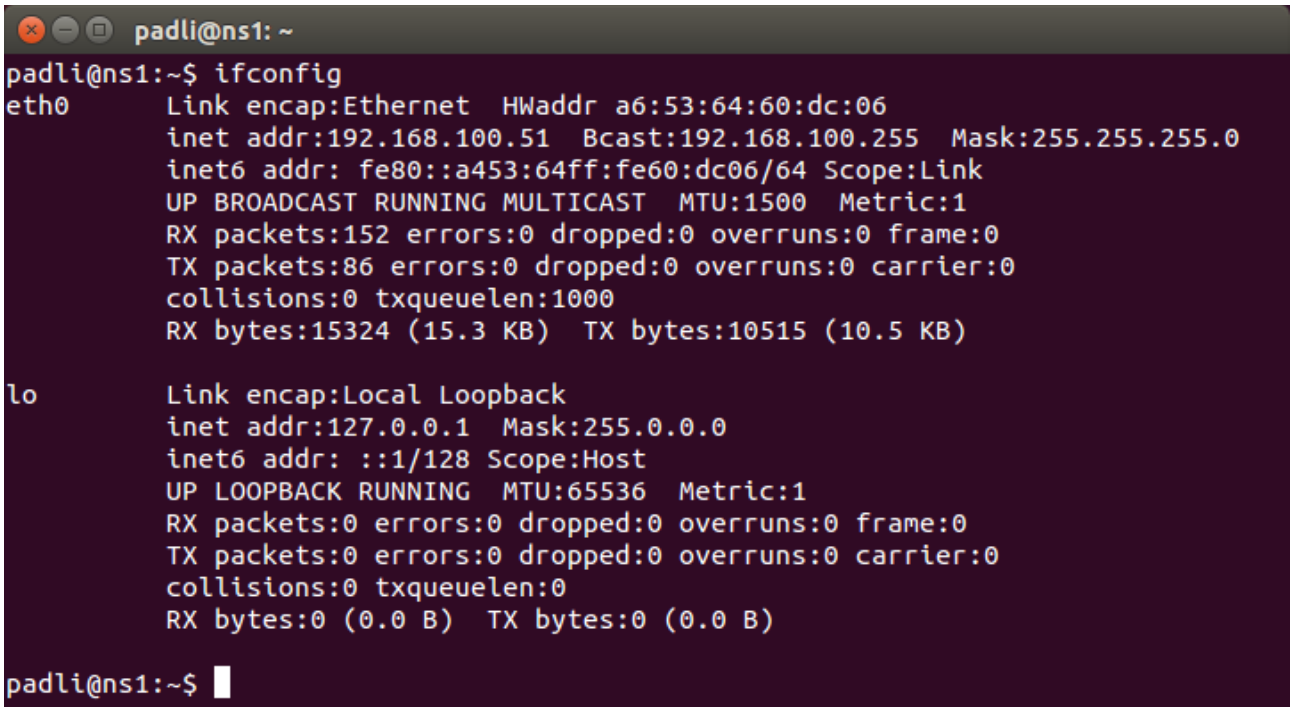
NS2 : 192.168.100.52/24 (ns2.raisa.net). Slave

Host1 : 192.168.100.7/24 (www.padli.org, www.mail.padli.org).

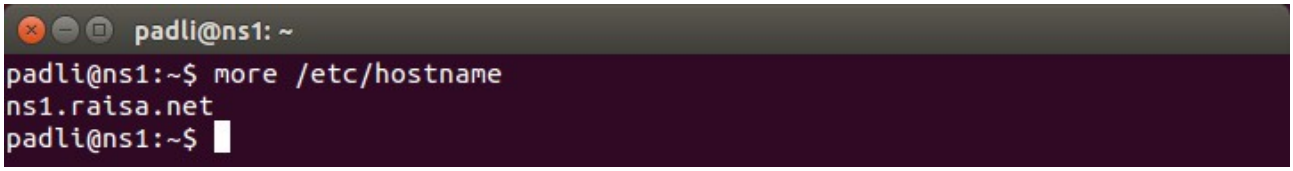
Host2 : 192.168.100.20/24 (www.host1.co.id, www.host2.co.id).

NS1 MASTER

1. set ip ns1.



2. set hostname ns1.



3. update & upgrade sistem ns1.

```
padli@ns1: ~
padli@ns1:~$ sudo apt-get update && sudo apt-get upgrade -y
```

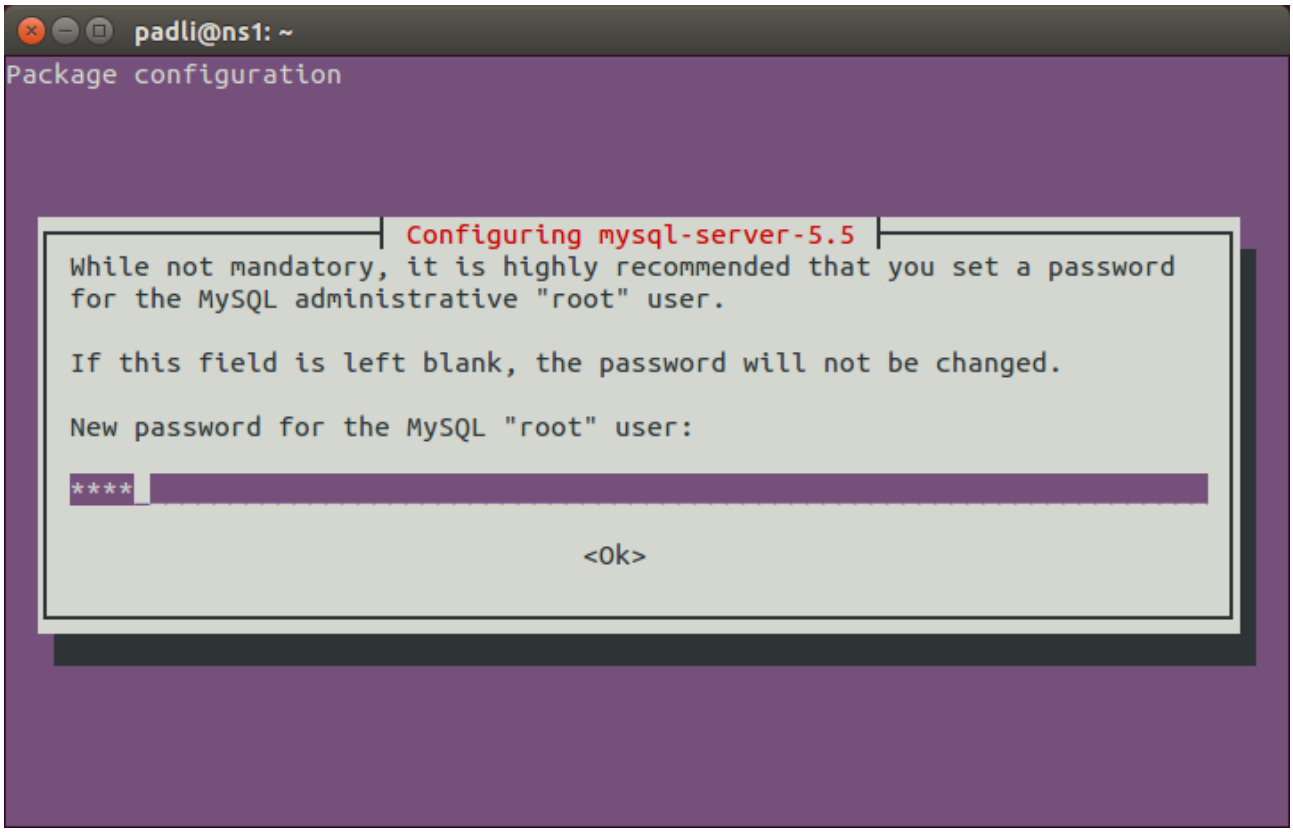
4. install lib bahasa indonesia.

```
padli@ns1: ~
padli@ns1:~$ sudo apt-get install languange-pack-id
```

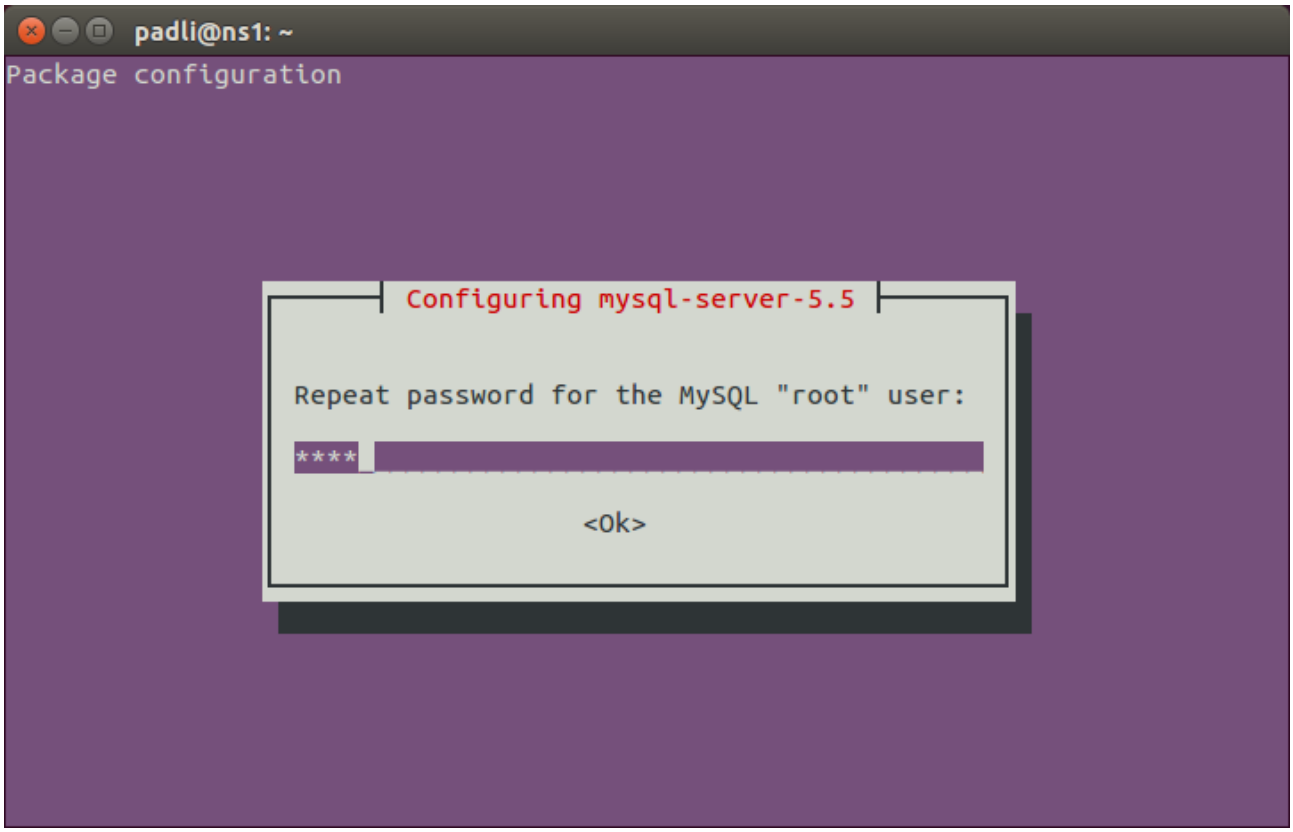
5. install mysql.

```
padli@ns1: ~
padli@ns1:~$ sudo apt-get install mysql-server mysql-client
```

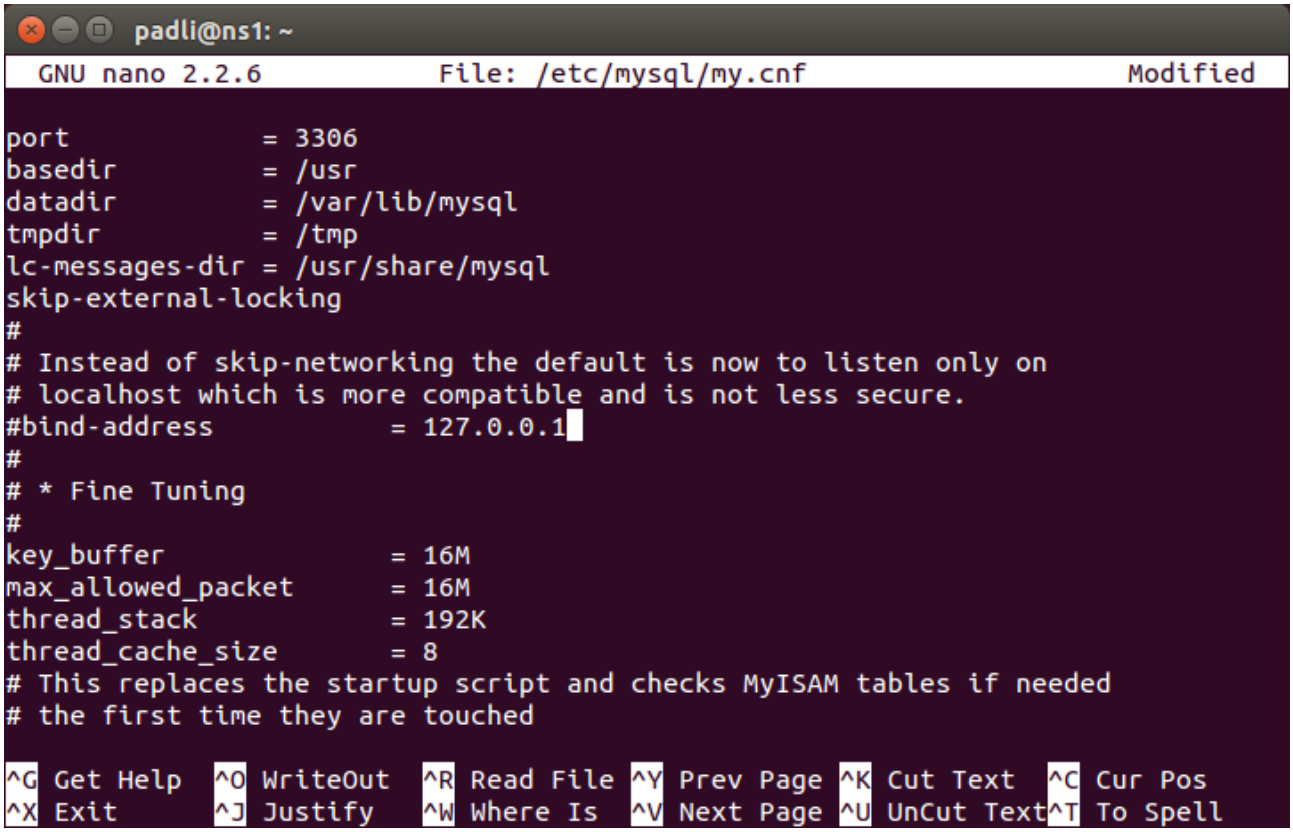
6. set passwd user root.



7. konfirmasi passwd root.

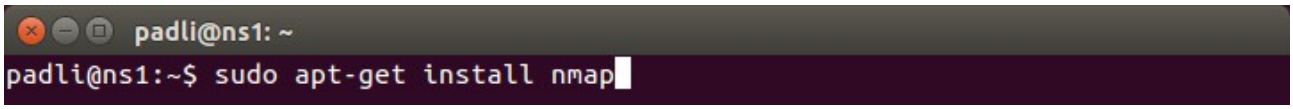


8. edit file "nano /etc/mysql/my.cnf" set off bind-address.

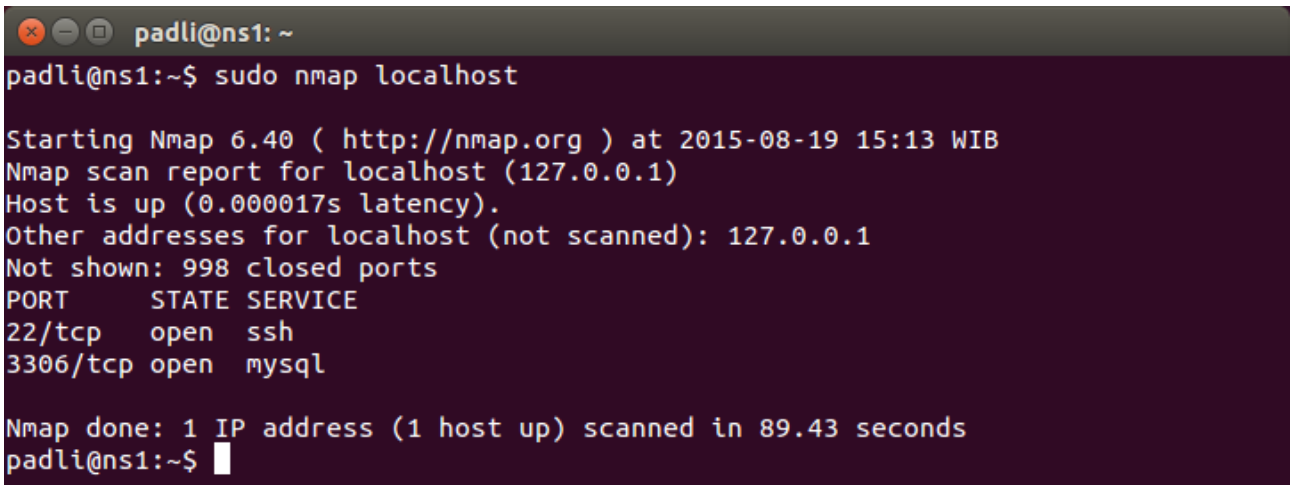


9. restart.

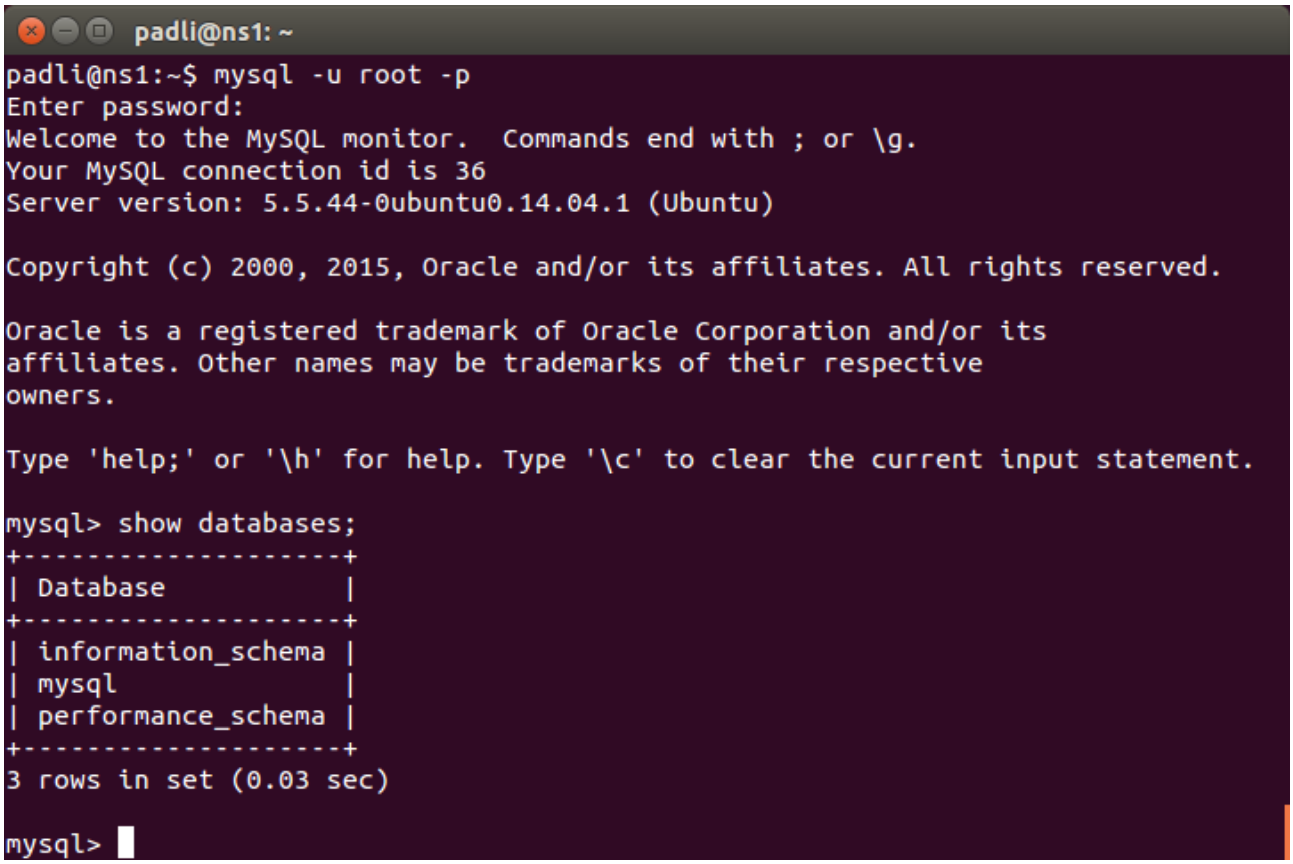
10. install nmap.



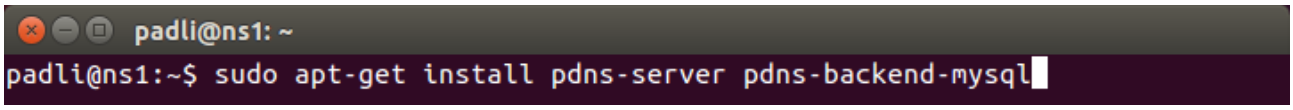
11. cek port yg aktif.



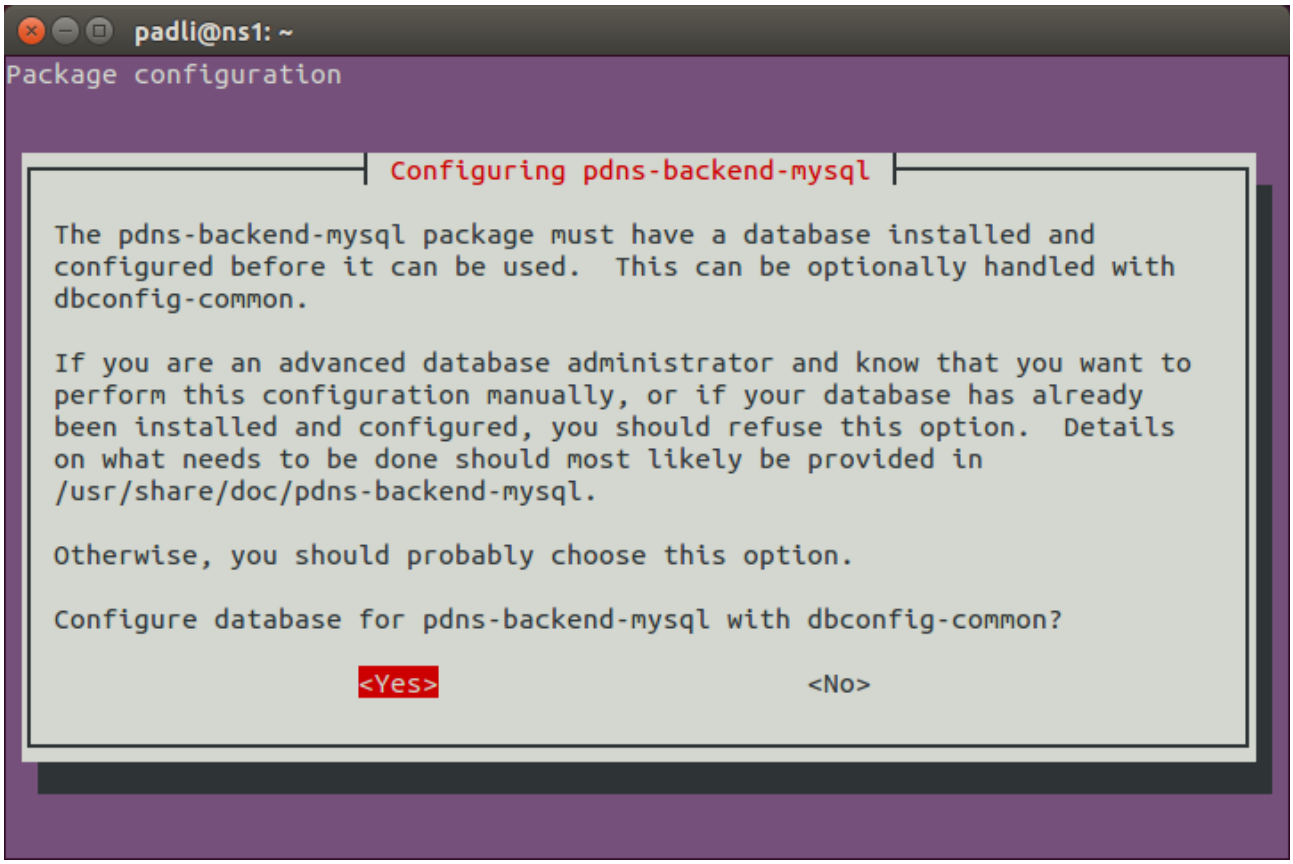
12. cek mysql.



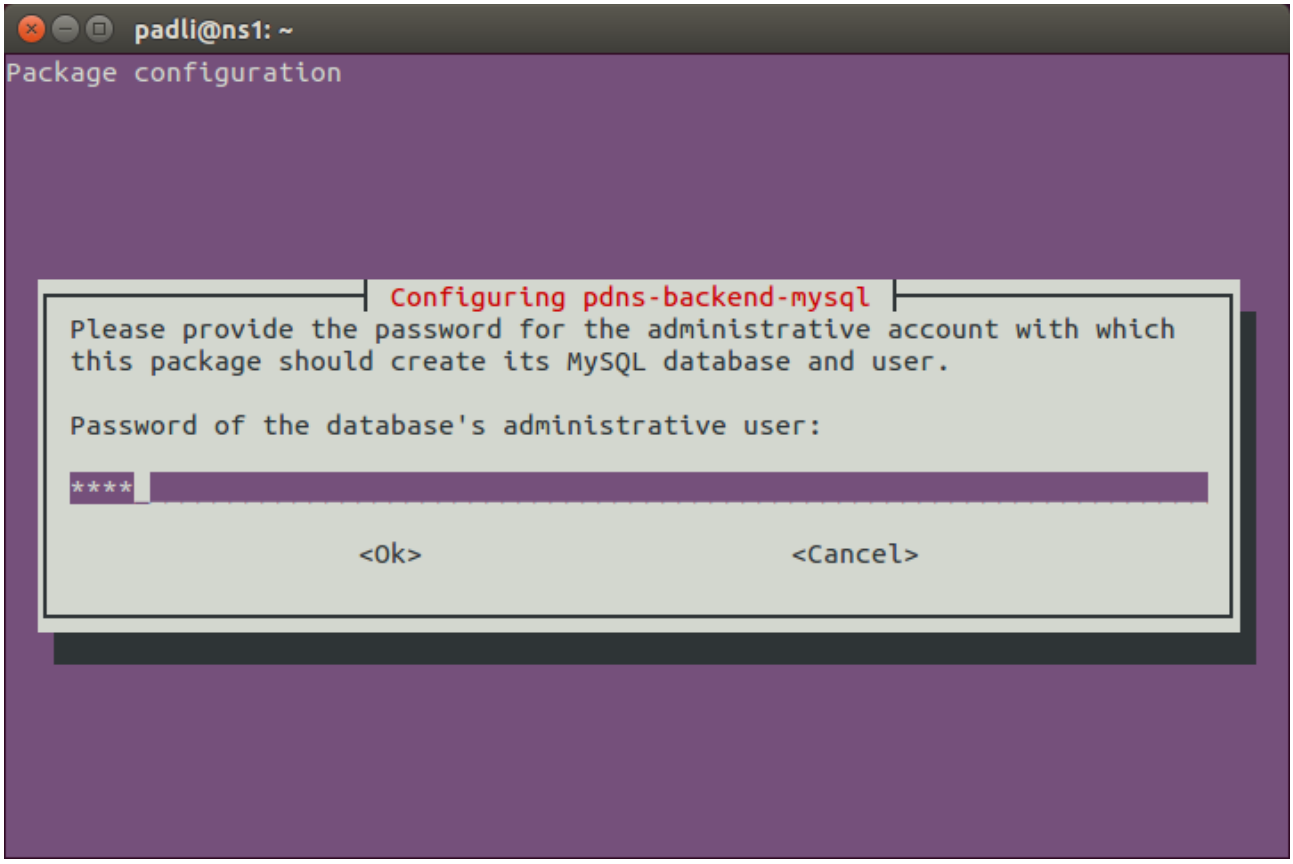
13. install powerdns.



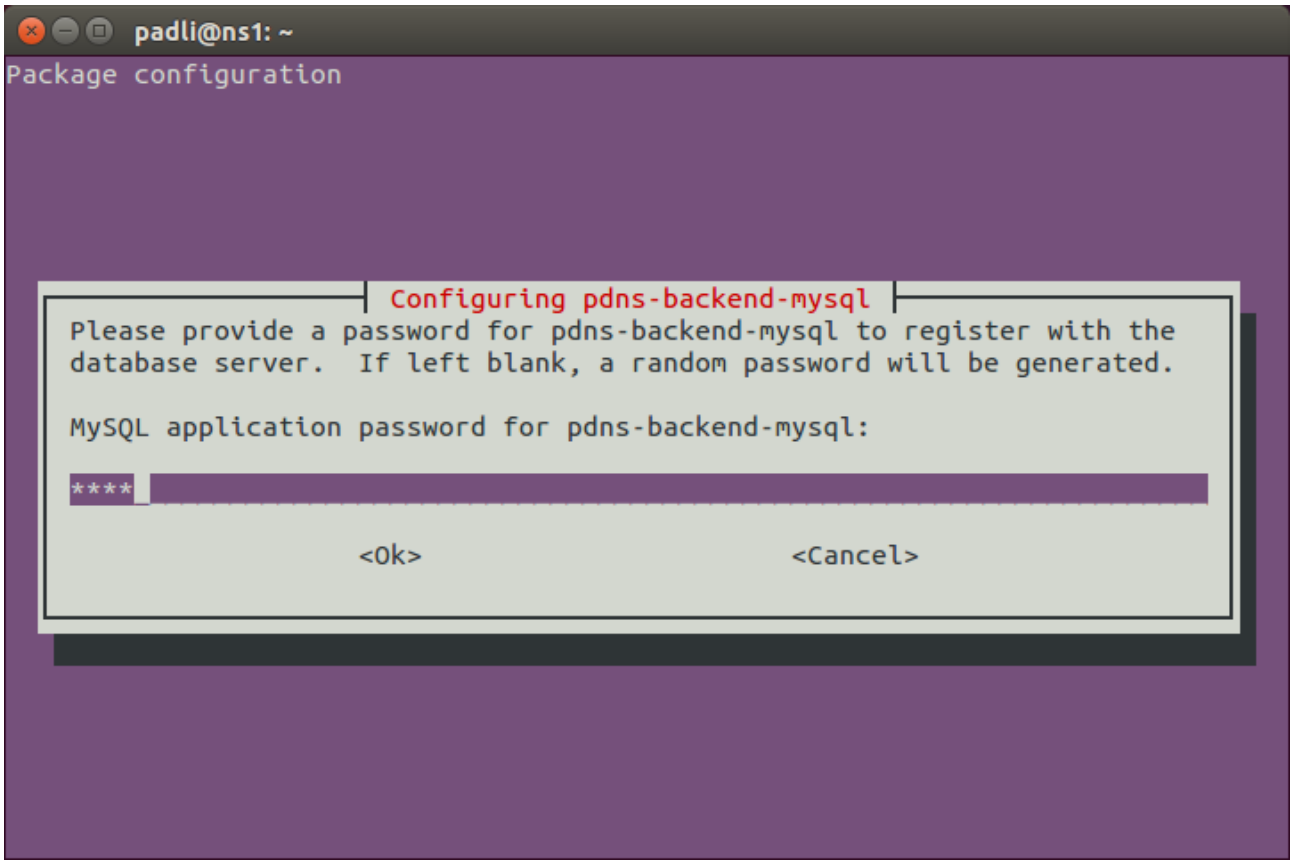
14. set yes.



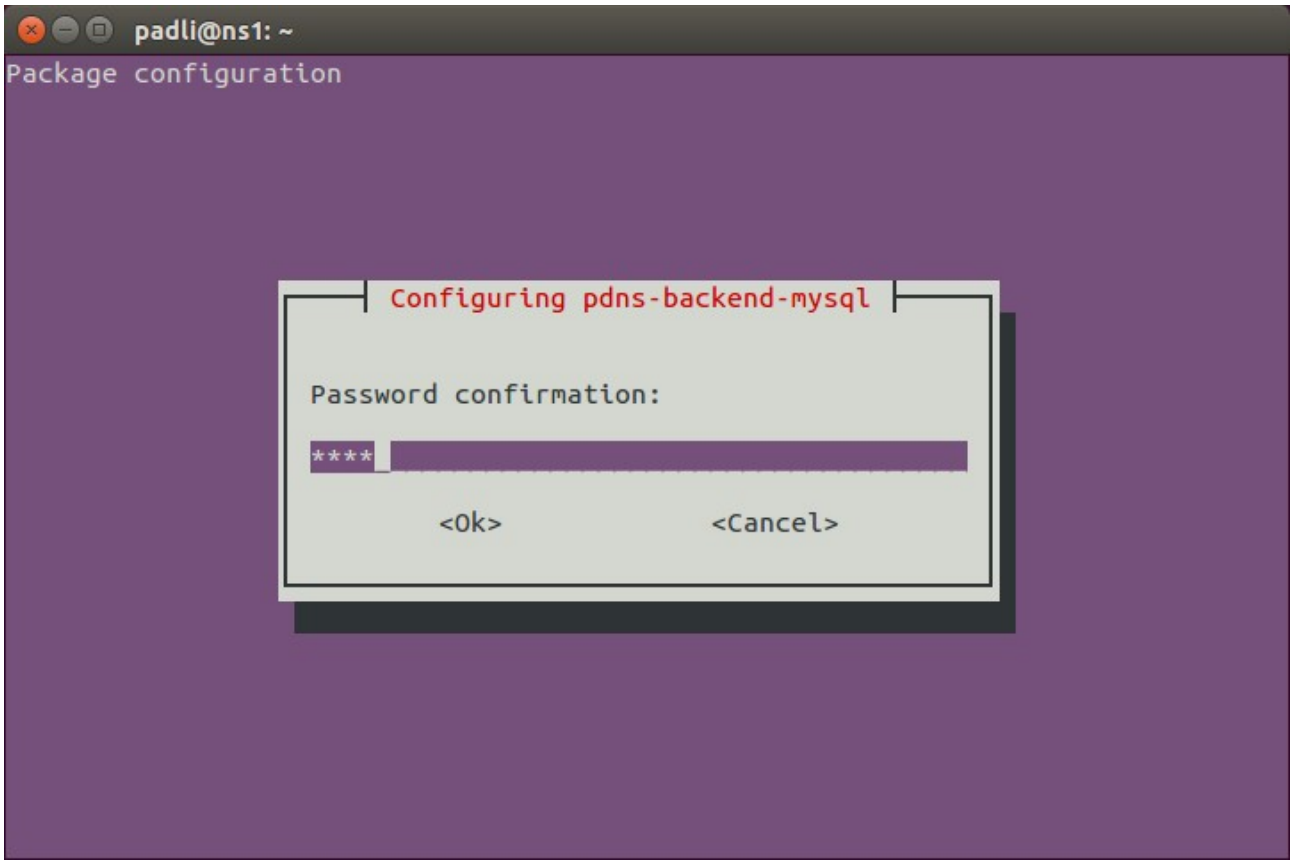
15. input root passwd mysql.



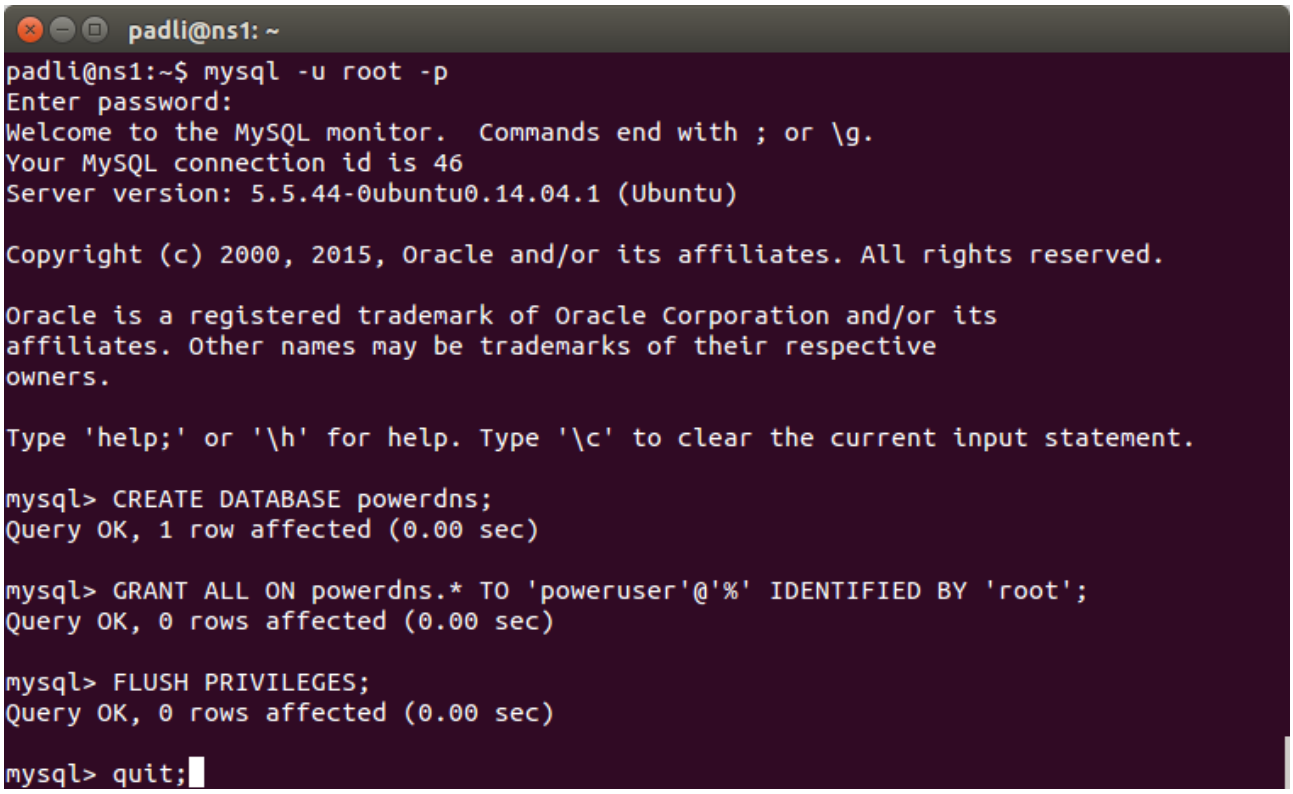
16. set passwd untuk powerdns backend mysql.



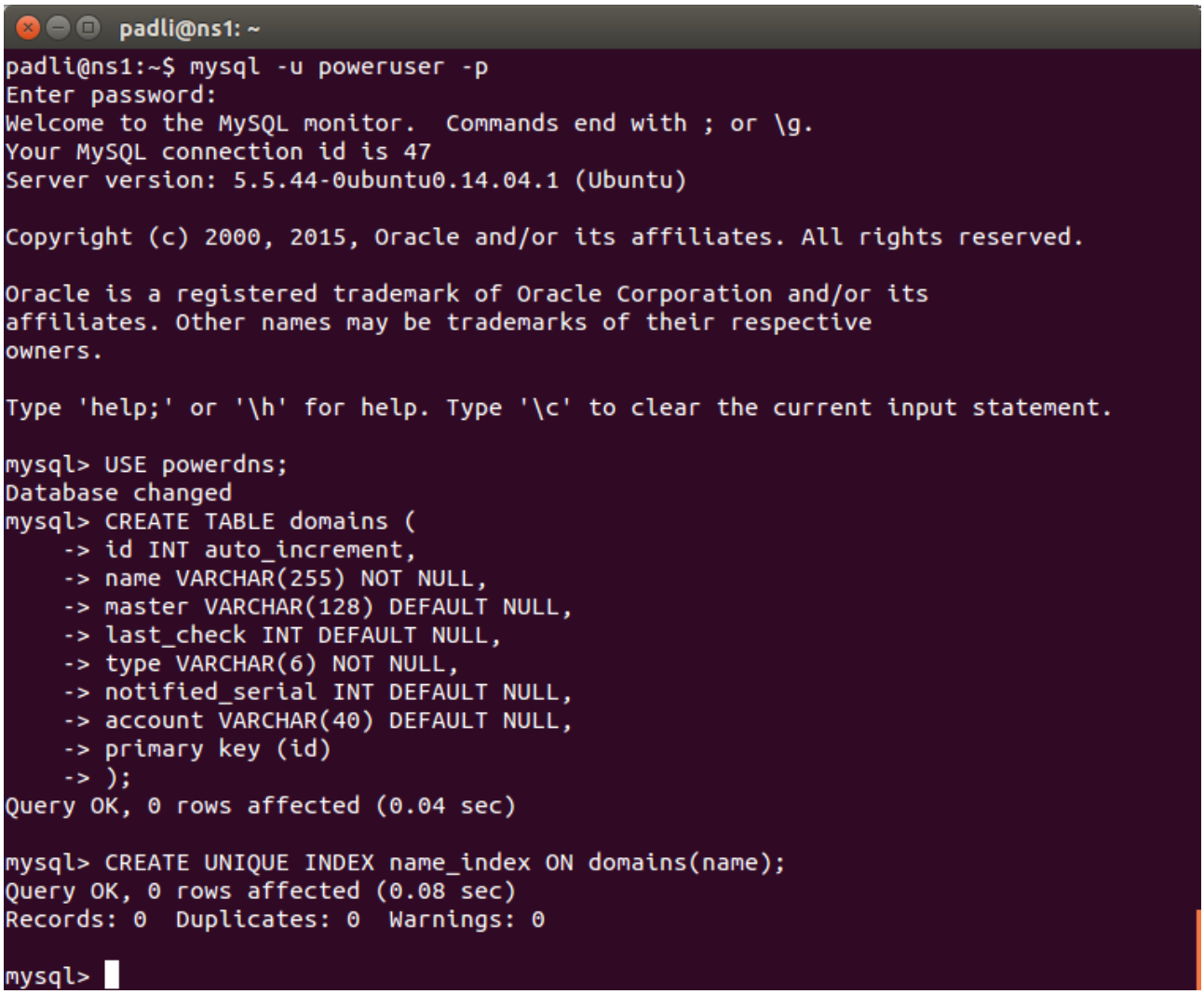
17. konfirmasi passwd.



18. buat database powerdns dan user poweruser untuk manajemen db.



19. login user poweruser, buat tabel domains.



20. buat tabel records.

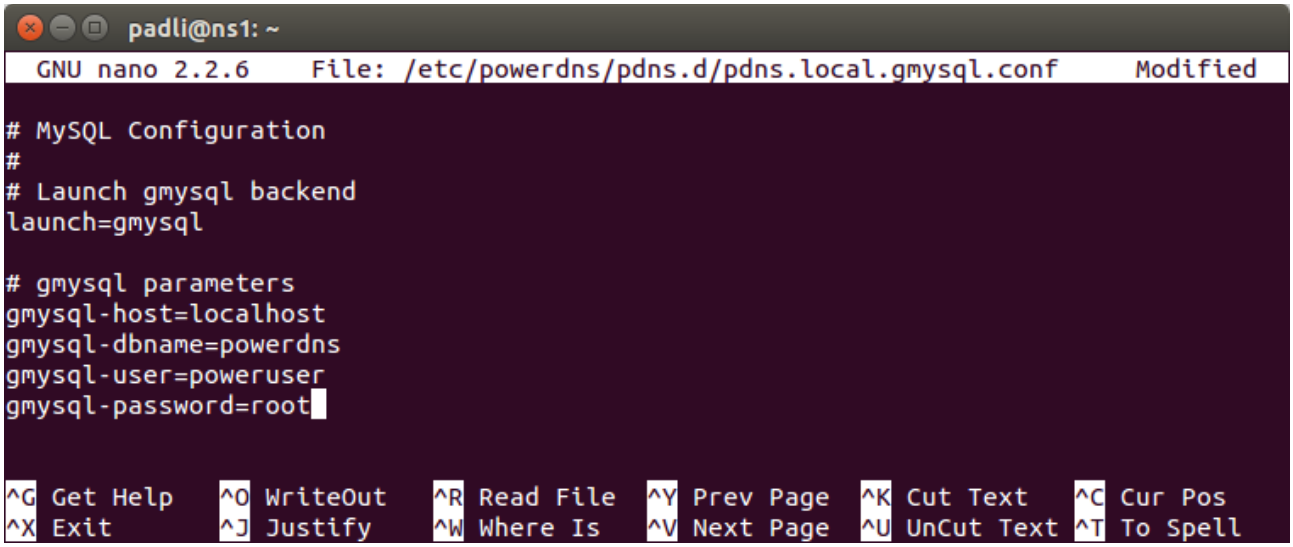
```
padli@ns1: ~

mysql> CREATE TABLE records (
    -> id INT auto_increment,
    -> domain_id INT DEFAULT NULL,
    -> name VARCHAR(255) DEFAULT NULL,
    -> type VARCHAR(6) DEFAULT NULL,
    -> content VARCHAR(255) DEFAULT NULL,
    -> ttl INT DEFAULT NULL,
    -> prio INT DEFAULT NULL,
    -> change_date INT DEFAULT NULL,
    -> primary key(id)
    -> );
Query OK, 0 rows affected (0.04 sec)

mysql> CREATE INDEX rec_name_index ON records(name);
Query OK, 0 rows affected (0.04 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> CREATE INDEX nametype_index ON records(name,type);
Query OK, 0 rows affected (0.01 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> CREATE INDEX domain_id ON records(domain_id);
Query OK, 0 rows affected (0.05 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql>
```

21. buat tabel supermasters.

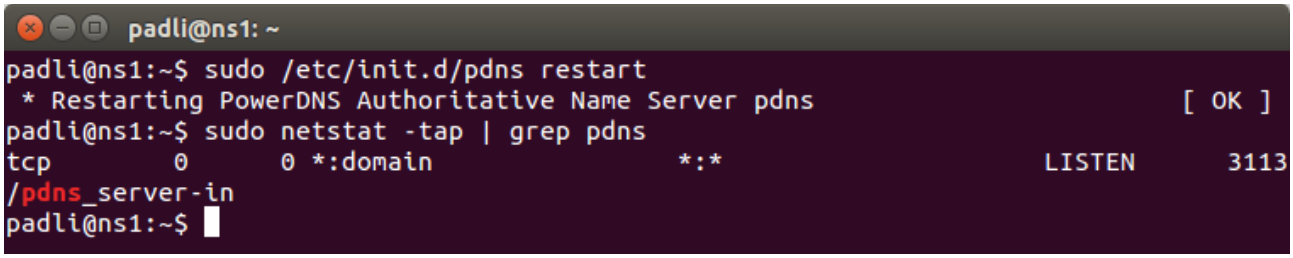
```
padli@ns1: ~

mysql> CREATE TABLE supermasters (
    -> ip VARCHAR(25) NOT NULL,
    -> nameserver VARCHAR(255) NOT NULL,
    -> account VARCHAR(40) DEFAULT NULL
    -> );
Query OK, 0 rows affected (0.00 sec)

mysql> show tables;
+--------------------+
| Tables_in_powerdns |
+--------------------+
| domains            |
| records            |
| supermasters       |
+--------------------+
3 rows in set (0.00 sec)

mysql> quit;
```

22. hapus file default.

23. buat file baru "nano /etc/powerdns/pdns.d/pdns.local.gmysql.conf" set koneksi ke db mysql.



24. restart servis powerdns.



25. install lib2 yg dibutuhkan untuk instalasi powerdns.

```
padli@ns1: ~
padli@ns1:~$ sudo apt-get install apache2 gettext libapache2-mod-php5 php5 php5-common php5-curl
php5-dev php5-gd php-pear php5-imap php5-ming php5-mysql php5-xmlrpc php5-mhash php5-mcrypt wget
```

26. install modul pear db (1).

```
padli@ns1: ~
padli@ns1:~$ sudo pear install DB
```

27. install modul pear db (2).

```
padli@ns1: ~
padli@ns1:~$ sudo pear install pear/MDB2#mysql
```

28. enable modul php5-mcrypt.

```
padli@ns1: ~
padli@ns1:~$ sudo php5enmod mcrypt
padli@ns1:~$ sudo /etc/init.d/apache2 restart
 * Restarting web server apache2                                                    [ OK ]
padli@ns1:~$
```

29. change dir "cd /var/www/html".

```
padli@ns1: /var/www/html
padli@ns1:~$ cd /var/www/html/
padli@ns1:/var/www/html$ rm index.html
rm: remove write-protected regular file 'index.html'? y
rm: cannot remove 'index.html': Permission denied
padli@ns1:/var/www/html$ sudo rm index.html
```

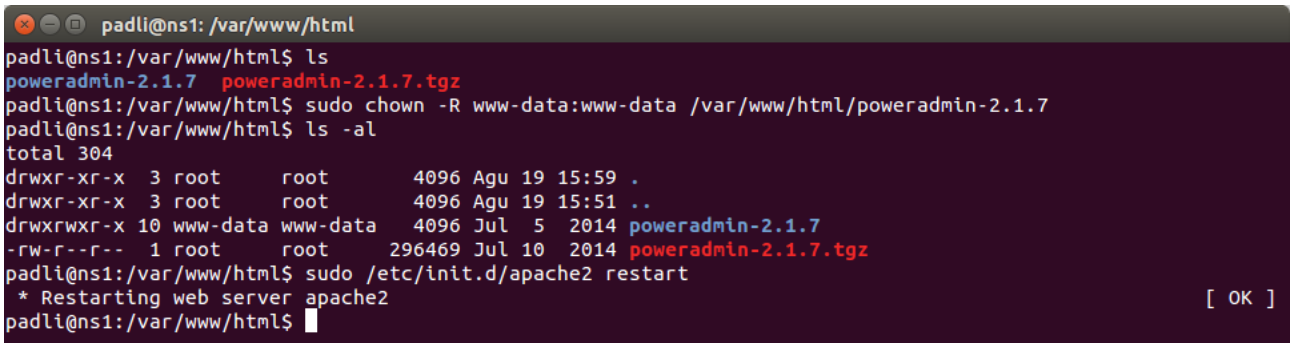
30. download poweradmin.

```
padli@ns1: /var/www/html
padli@ns1:/var/www/html$ sudo wget http://sourceforge.net/projects/poweradmin/files/poweradmin-2.1.7.tgz
```

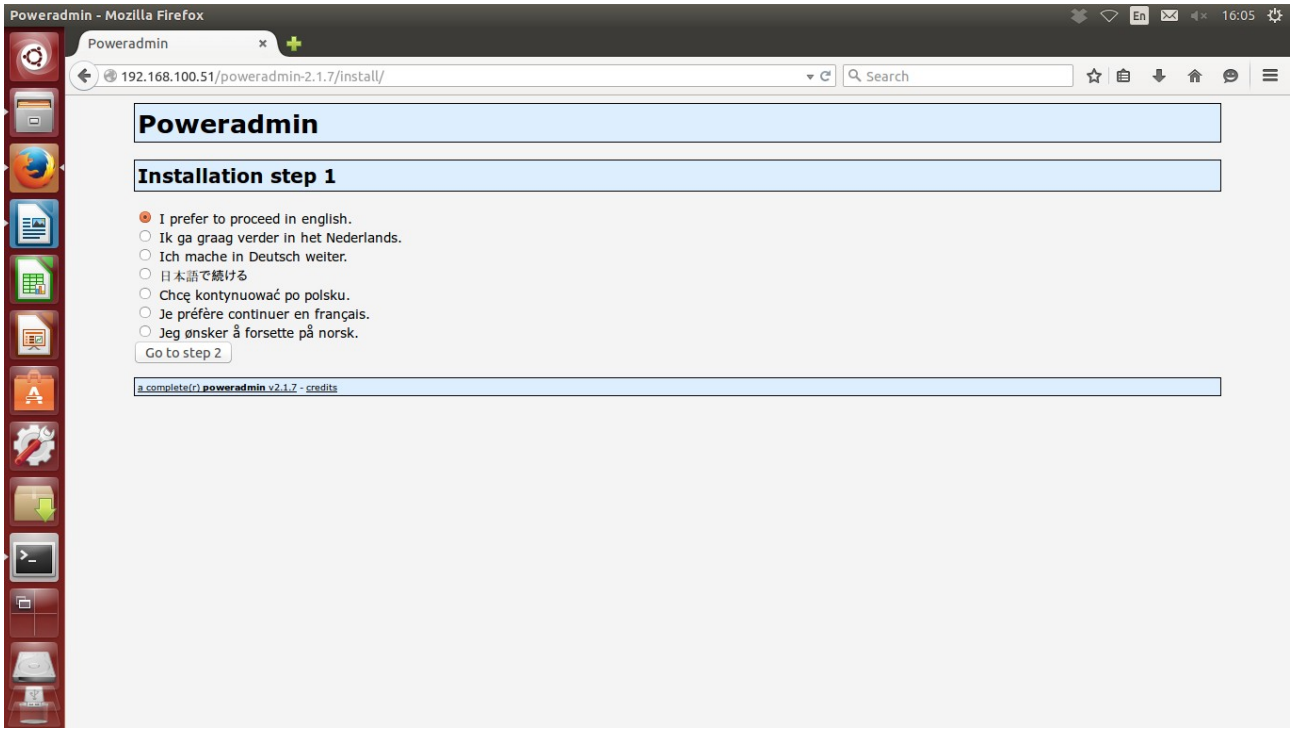
31. extract poweradmin.

```
padli@ns1: /var/www/html
padli@ns1:/var/www/html$ ls
poweradmin-2.1.7.tgz
padli@ns1:/var/www/html$ sudo tar xvfz poweradmin-2.1.7.tgz
```

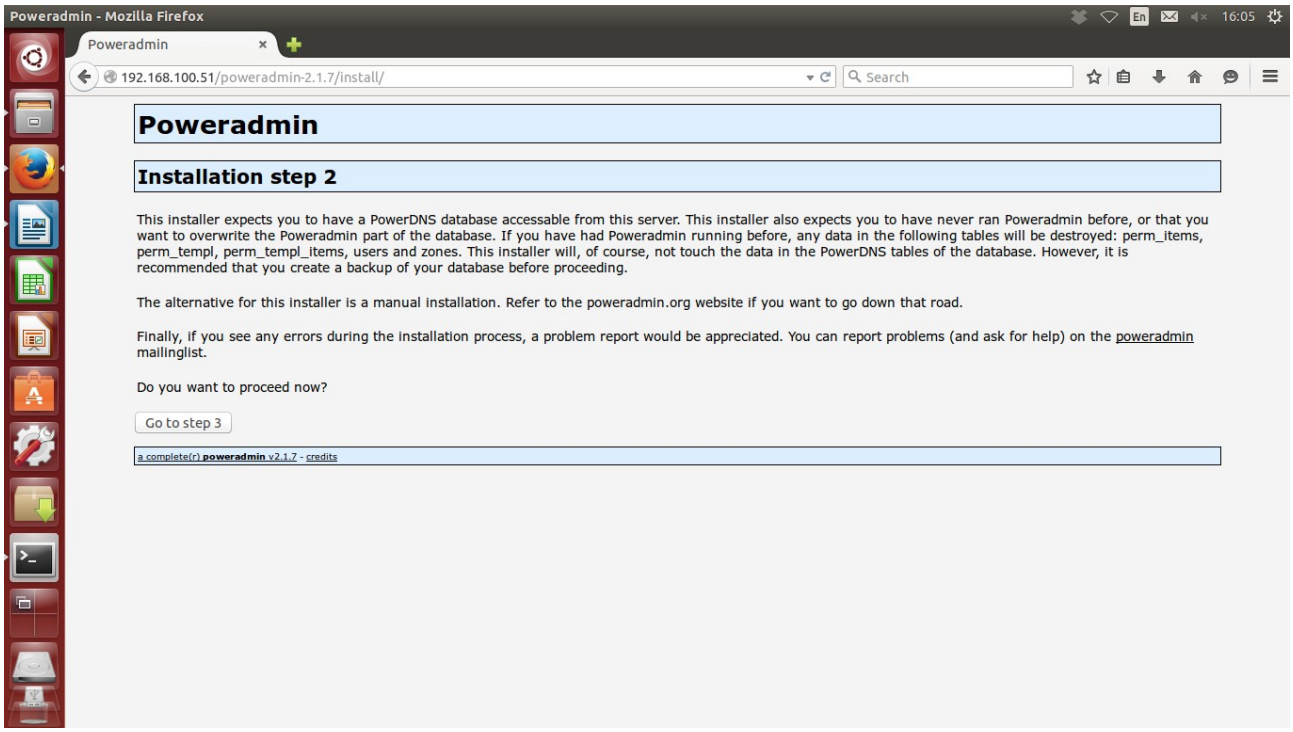
32. ubah kepemilikan dir poweradmin, restart servis apache2.



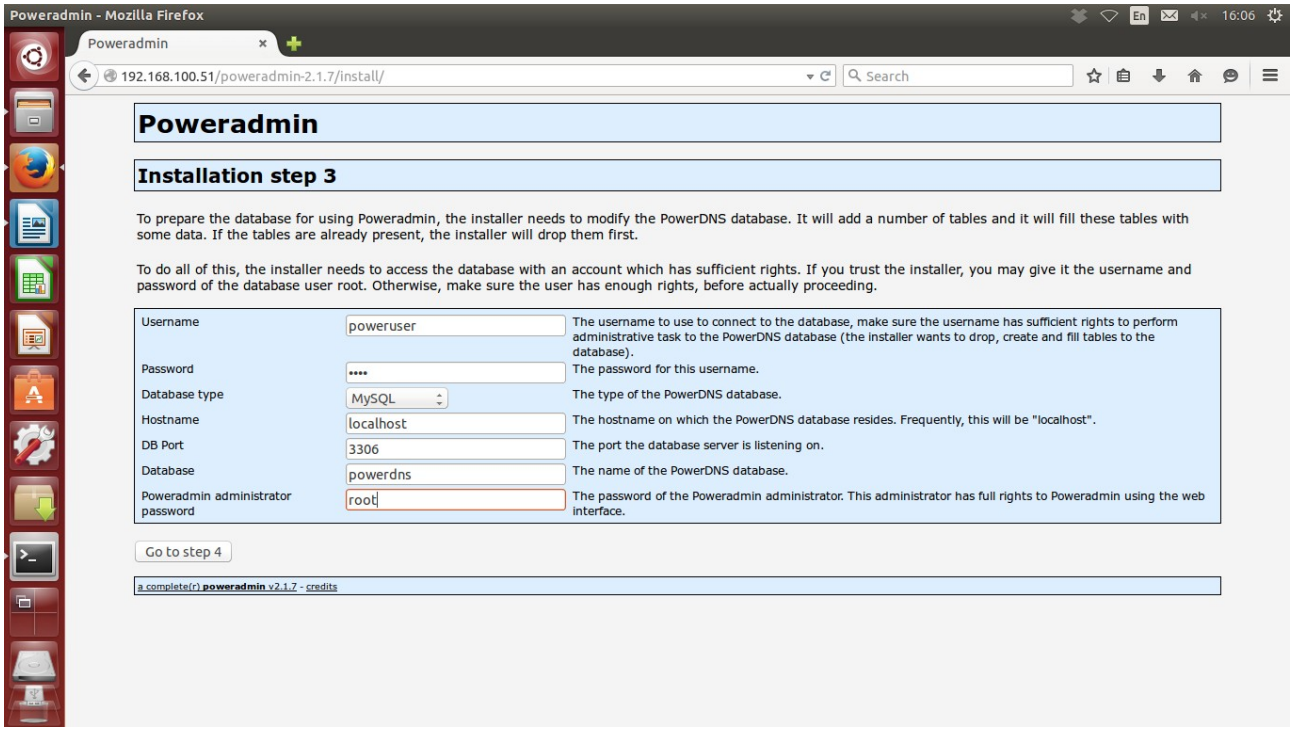
33. login poweradmin http://ipserver/poweradmin$$$/install, next.



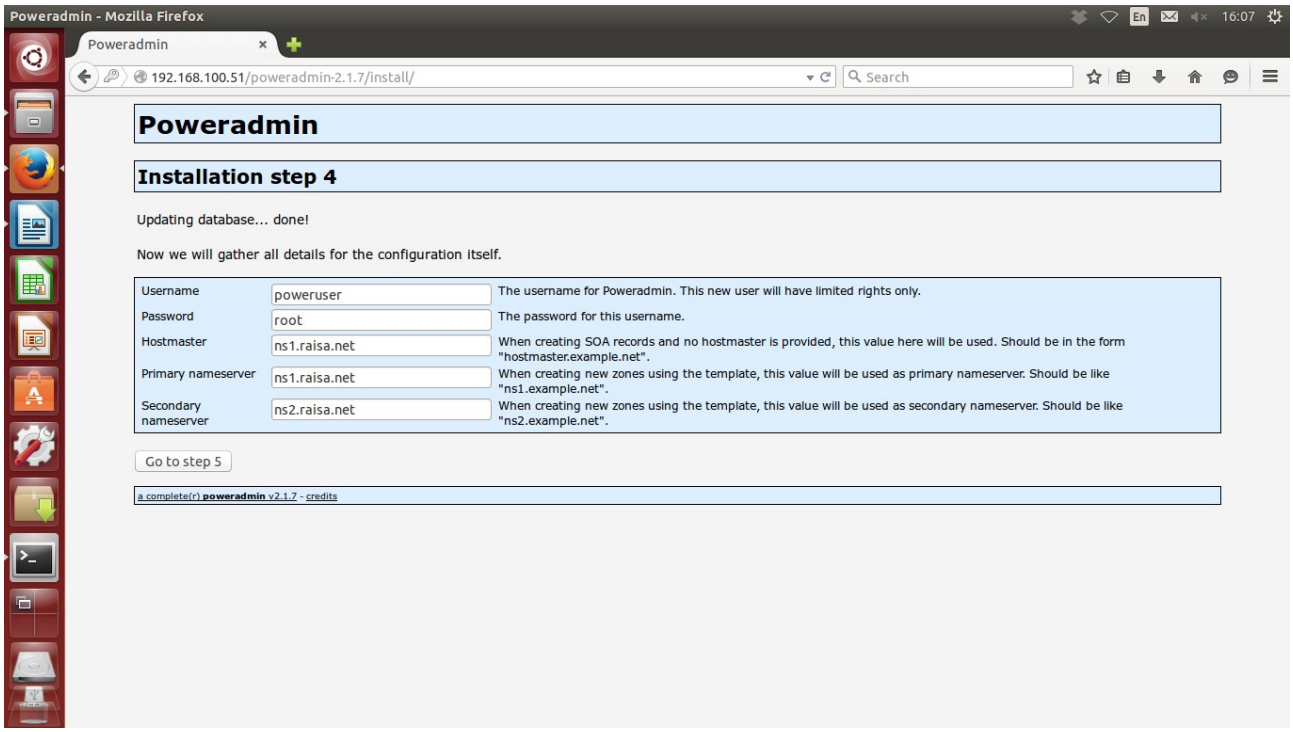
34. next.



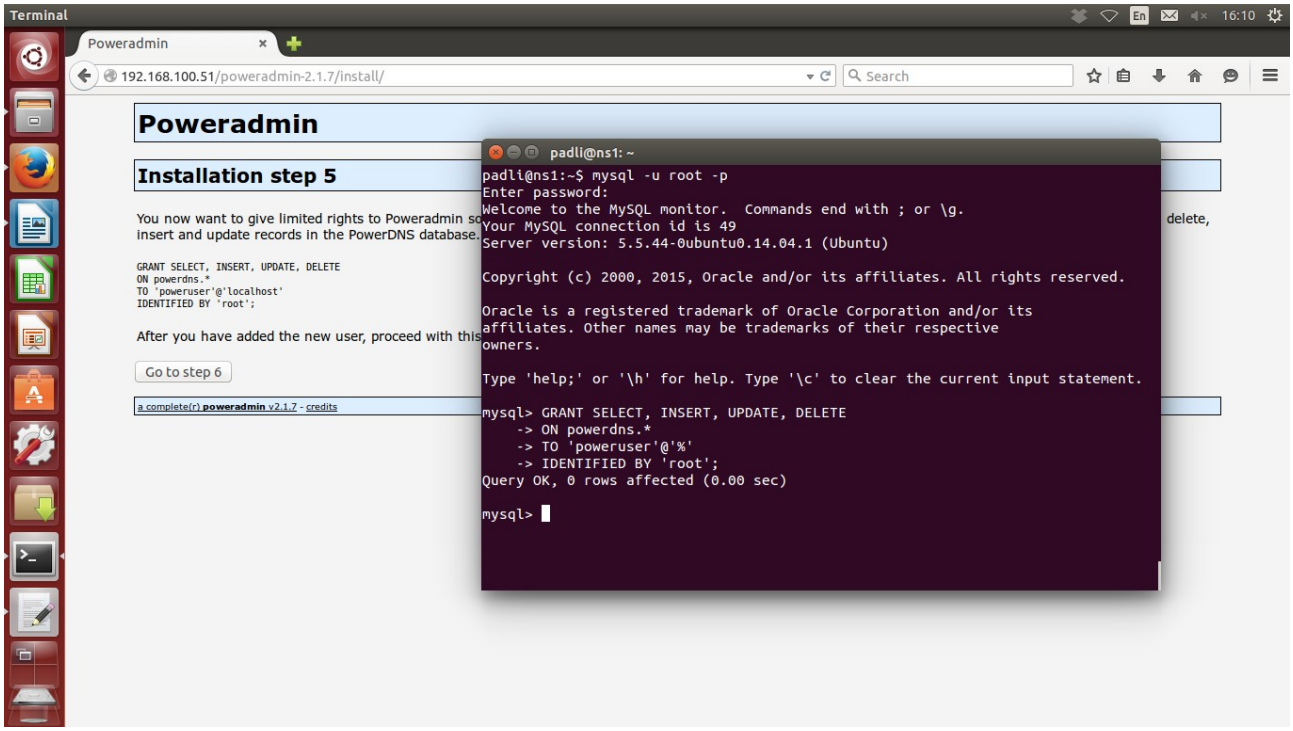
35. isikan config db mysql, sesuaikan dengan config db mysql, next.



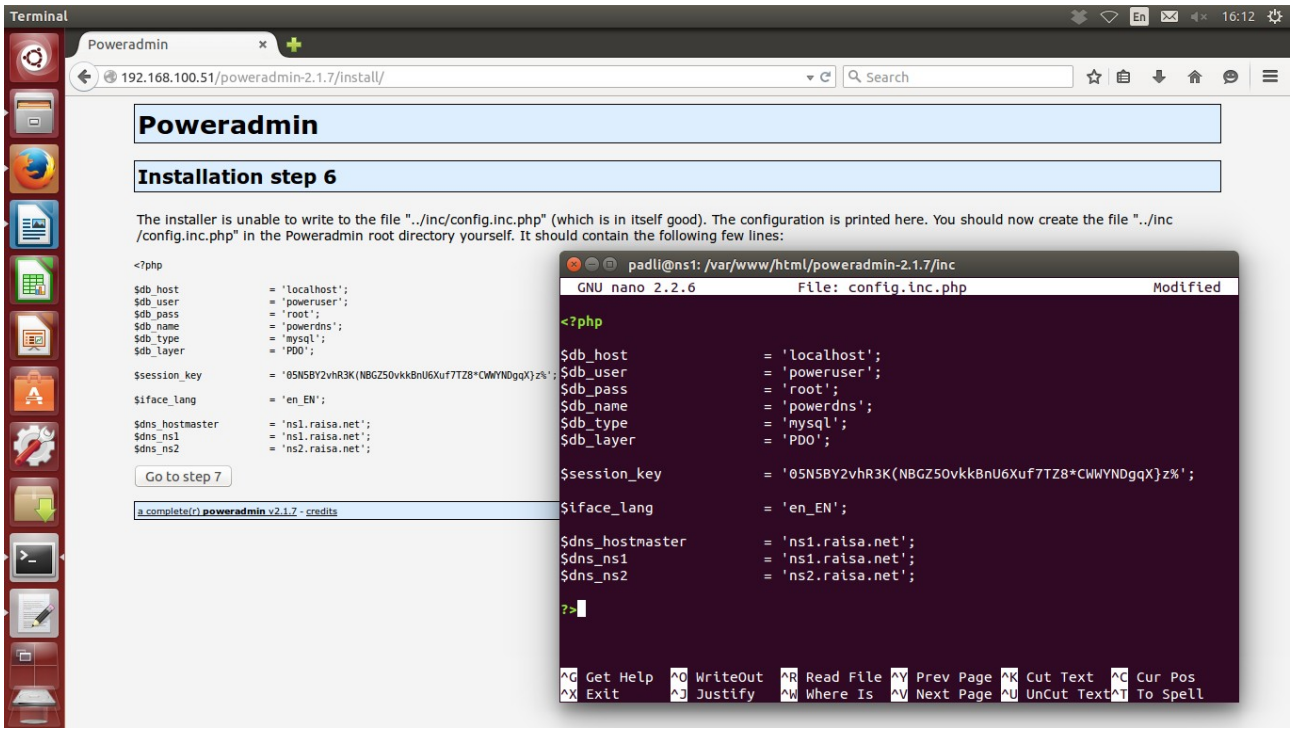
36. config user baru untuk poweradmin.



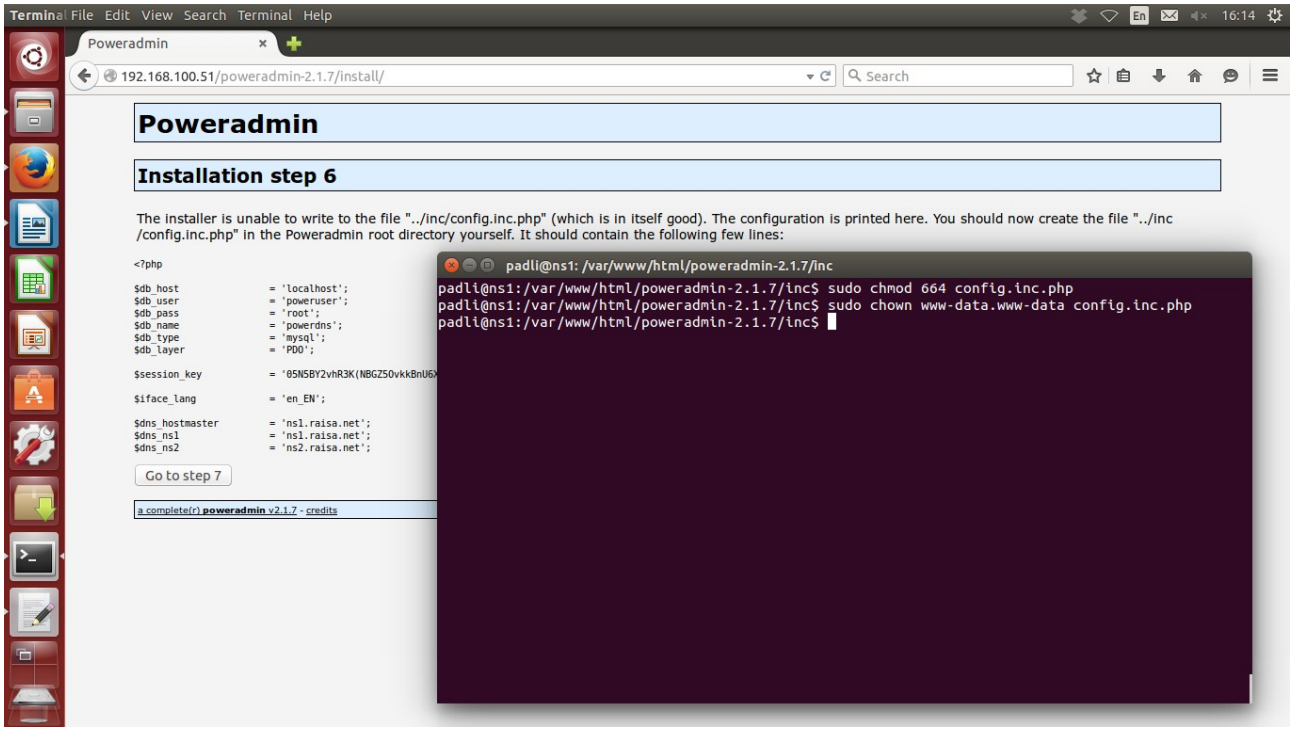
37. ubah 'localhost' ke '%' agar db dapat di akses dari mana saja, next.



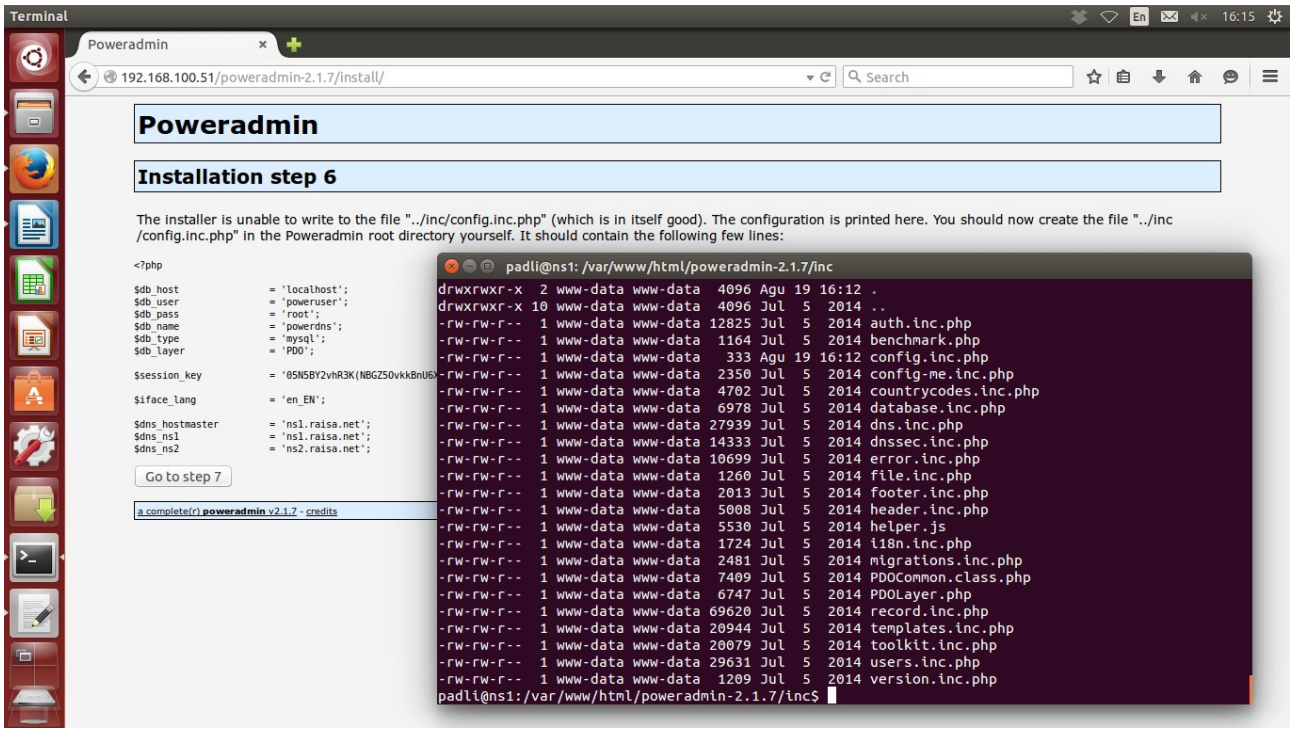
38. copy script ke file /var/www/html/poweradmin$$$/inc/config.inc.php.



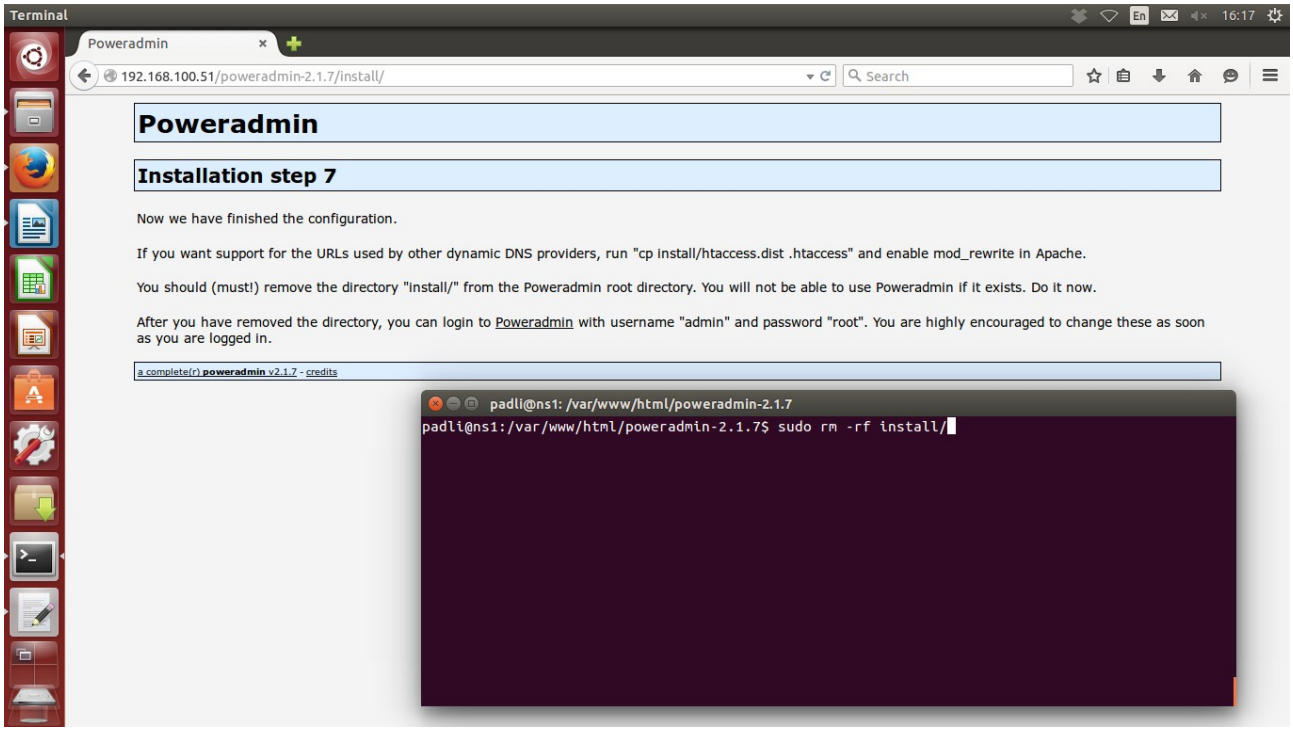
39. ubah hak akses & kepemilikan file.



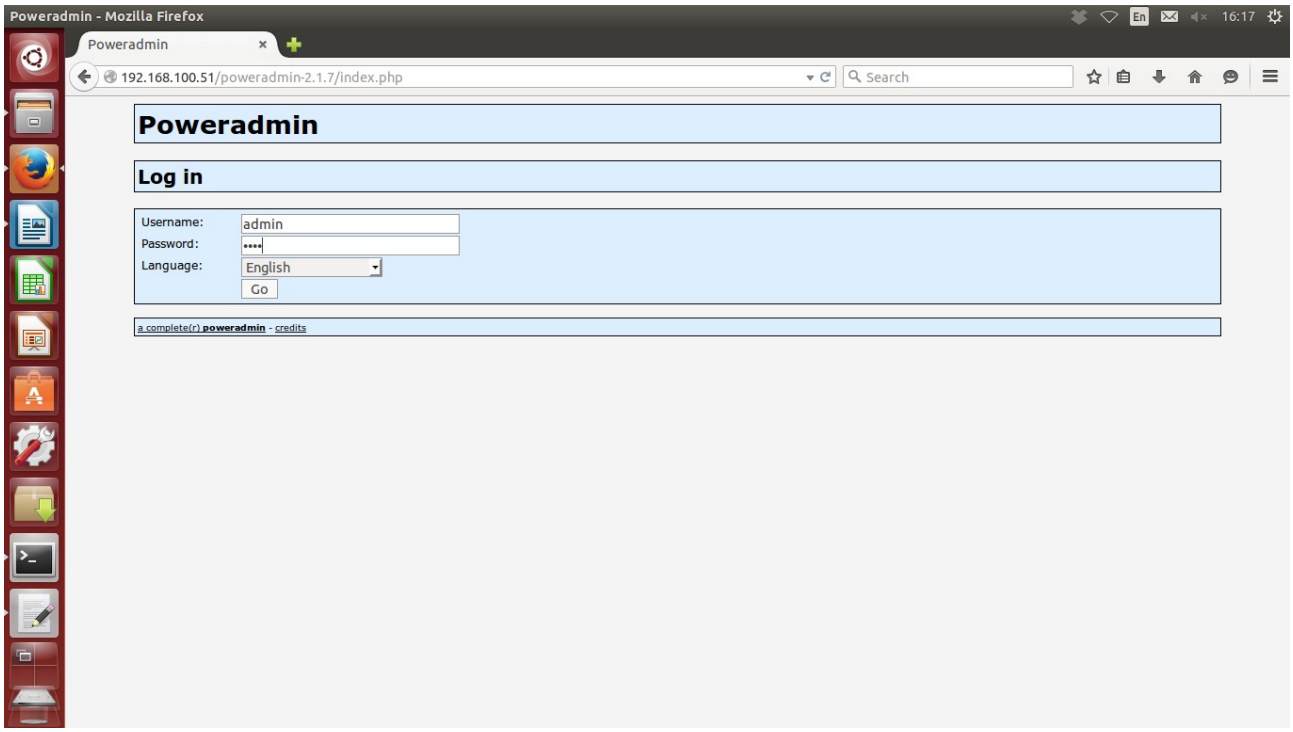
40. cek file, next.



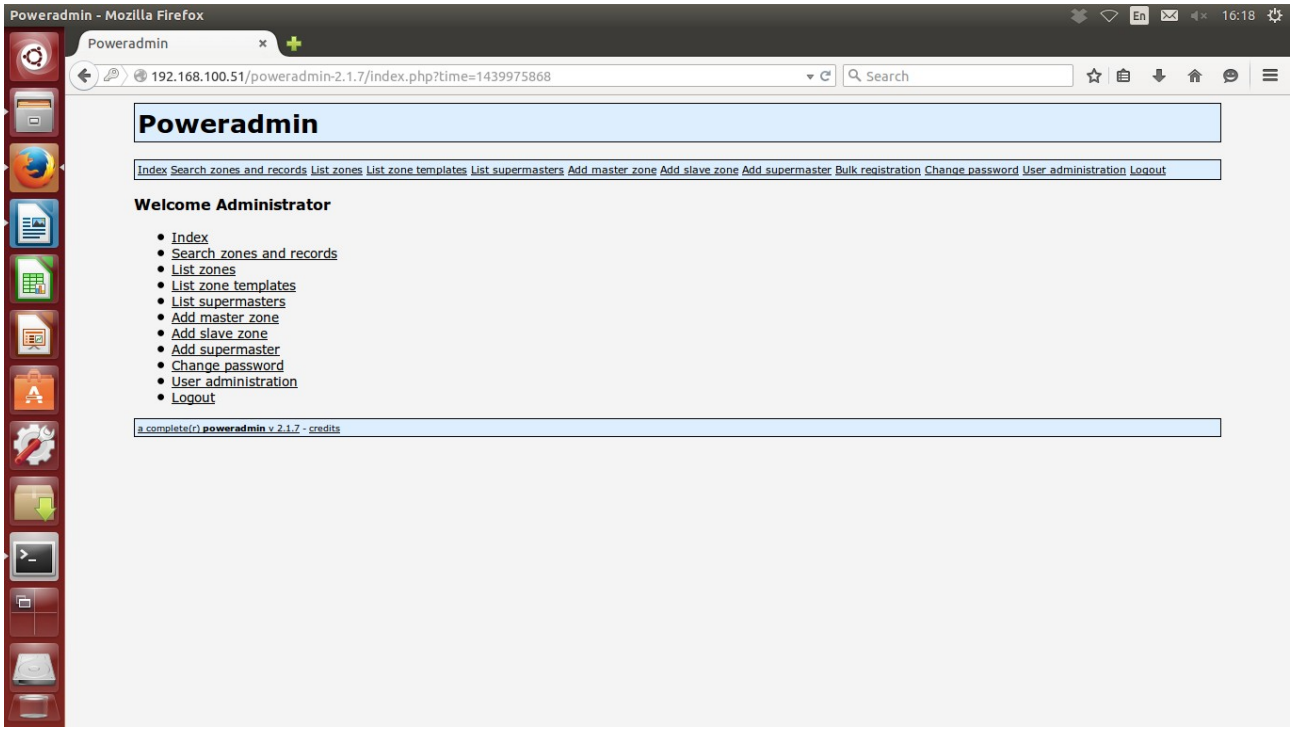
41. hapus dir installasi, login poweradmin.



42. login admin & passwd root sesuai config.



43. halaman index poweradmin.



44. backup default file pdns.conf.

```
padli@ns1: /etc/powerdns
padli@ns1:~$ cd /etc/powerdns/
padli@ns1:/etc/powerdns$ ls
bindbackend.conf  pdns.conf  pdns.d
padli@ns1:/etc/powerdns$ sudo mv pdns.conf pdns.conf.bk
[sudo] password for padli:
padli@ns1:/etc/powerdns$
```

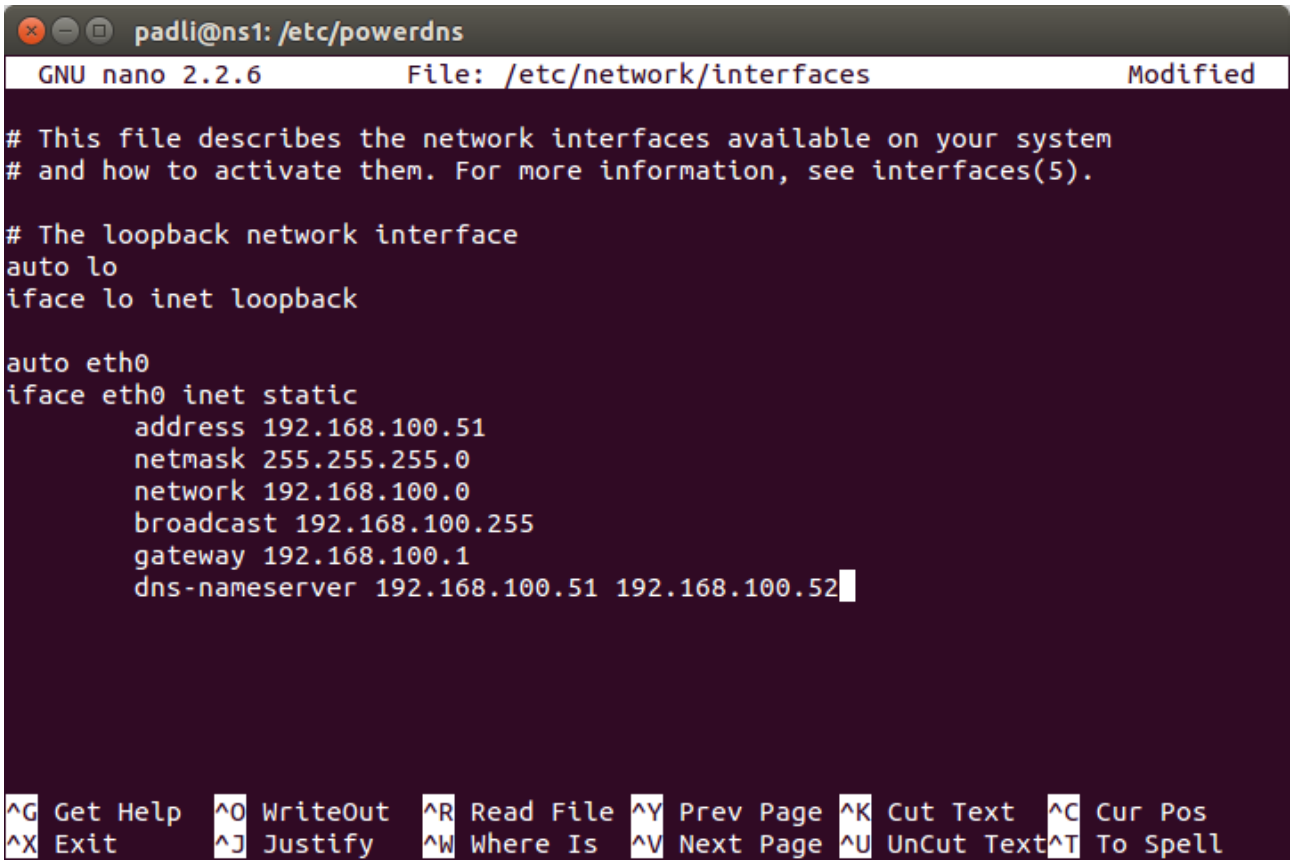
45. buat file baru "nano /etc/powerdns/pdns.conf" & set seperti gambar.

```
padli@ns1: /etc/powerdns
 GNU nano 2.2.6                File: pdns.conf                      Modified

allow-recursion=0.0.0.0/0
allow-axfr-ips=192.168.100.52/24
config-dir=/etc/powerdns
daemon=yes
disable-axfr=no
guardian=yes
local-address=0.0.0.0
local-port=53
log-dns-details=on
log-failed-updates=on
loglevel=3
module-dir=/usr/lib/powerdns
master=yes
slave=no
setgid=pdns
setuid=pdns
socket-dir=/var/run
version-string=powerdns
include-dir=/etc/powerdns/pdns.d
recursor=8.8.8.8

^G Get Help  ^O WriteOut  ^R Read File ^Y Prev Page ^K Cut Text  ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is  ^V Next Page ^U UnCut Text^T To Spell
```

46. restart & cek servis powerdns.

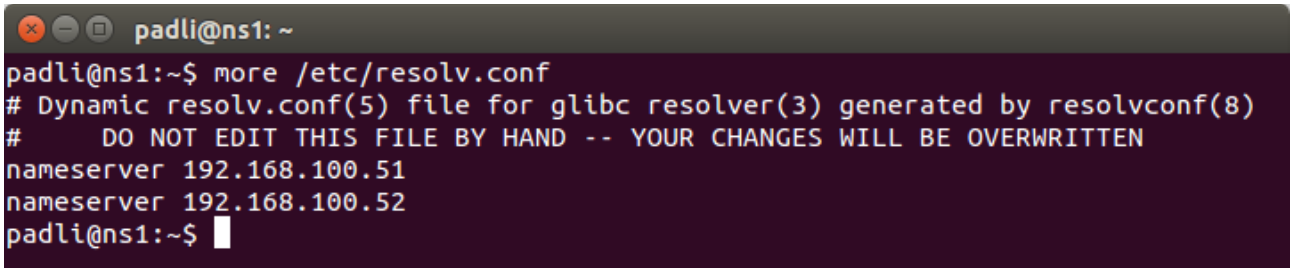
```
padli@ns1: /etc/powerdns
padli@ns1:/etc/powerdns$ sudo /etc/init.d/pdns restart
 * Restarting PowerDNS Authoritative Name Server pdns                  [ OK ]
padli@ns1:/etc/powerdns$ sudo netstat -tap | grep pdns
tcp        0      0 *:domain                *:*                     LISTEN
1436/pdns_server-in
padli@ns1:/etc/powerdns$
```

47. ubah default nameserver.



48. restart.

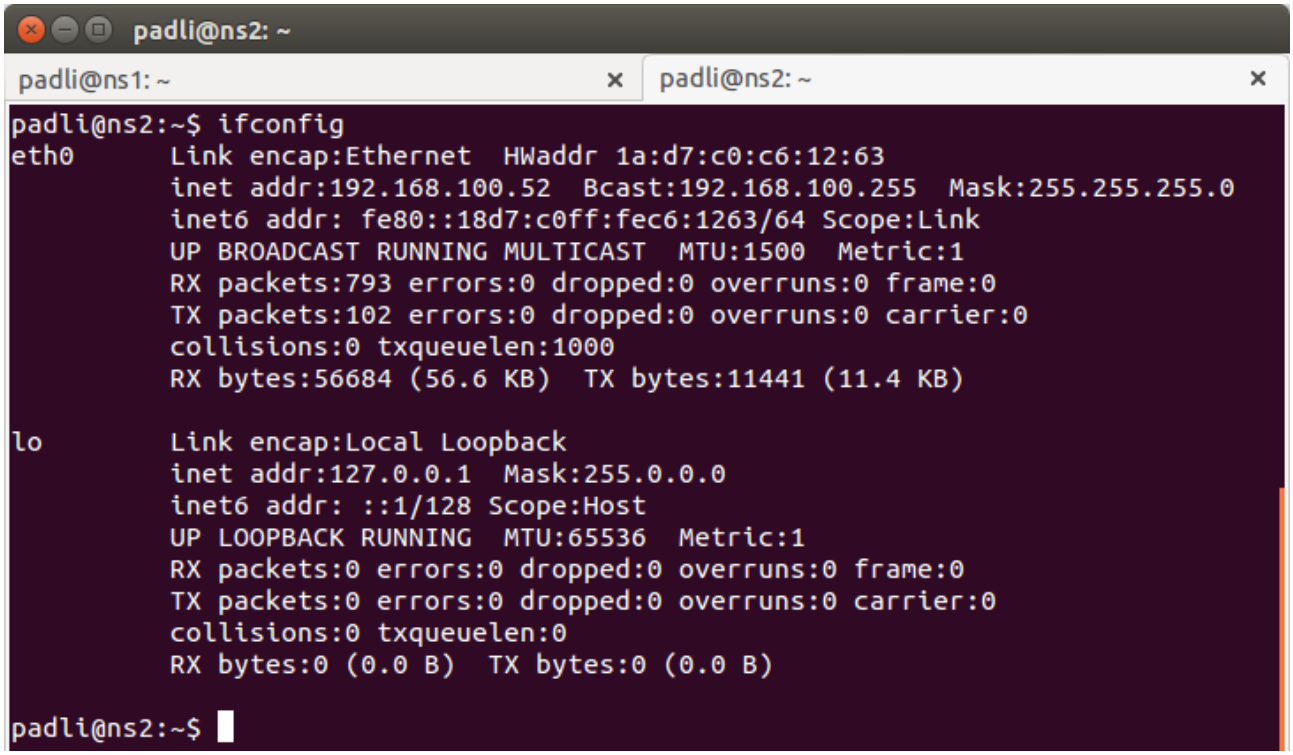
49. setelah restart, cek nameserver.



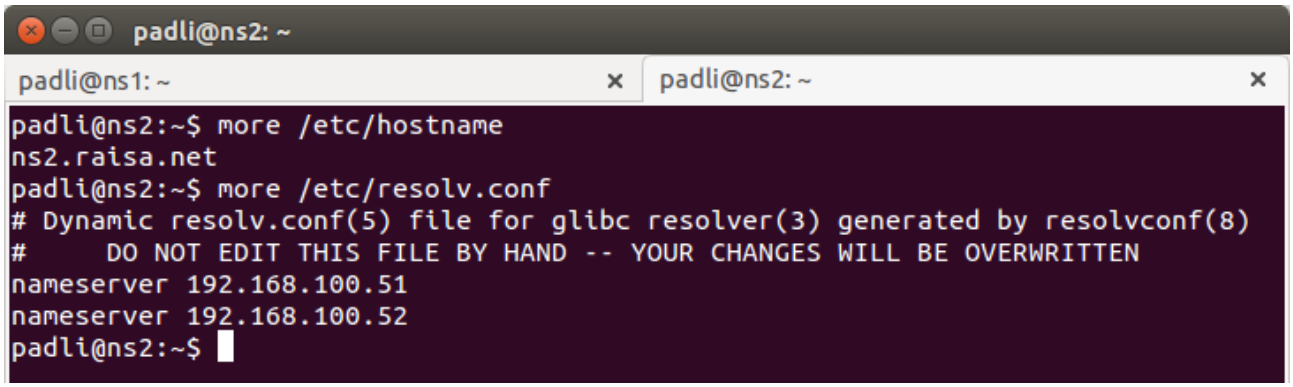
NS2 SLAVE

50. lakukan hal yg sama pada mesin ns2 (langkah 1 s.d 43).

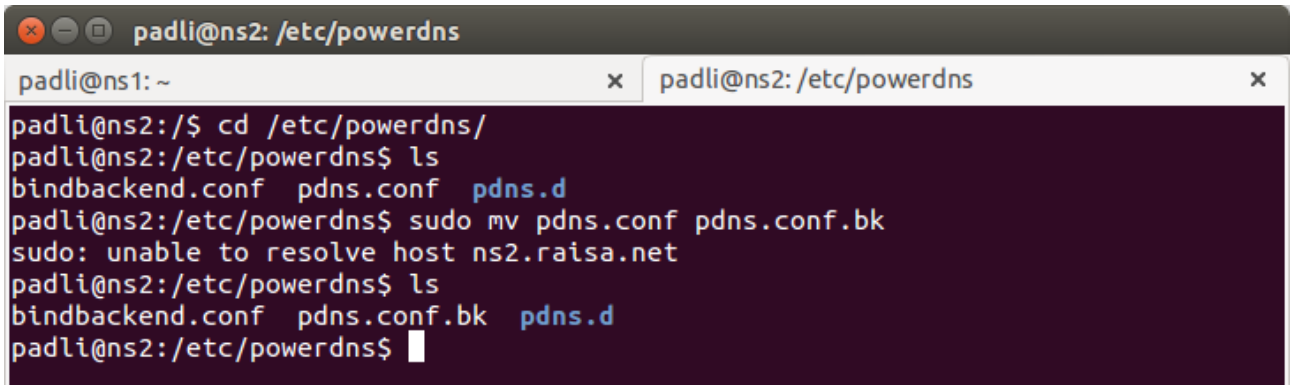
51. cek ip ns2.



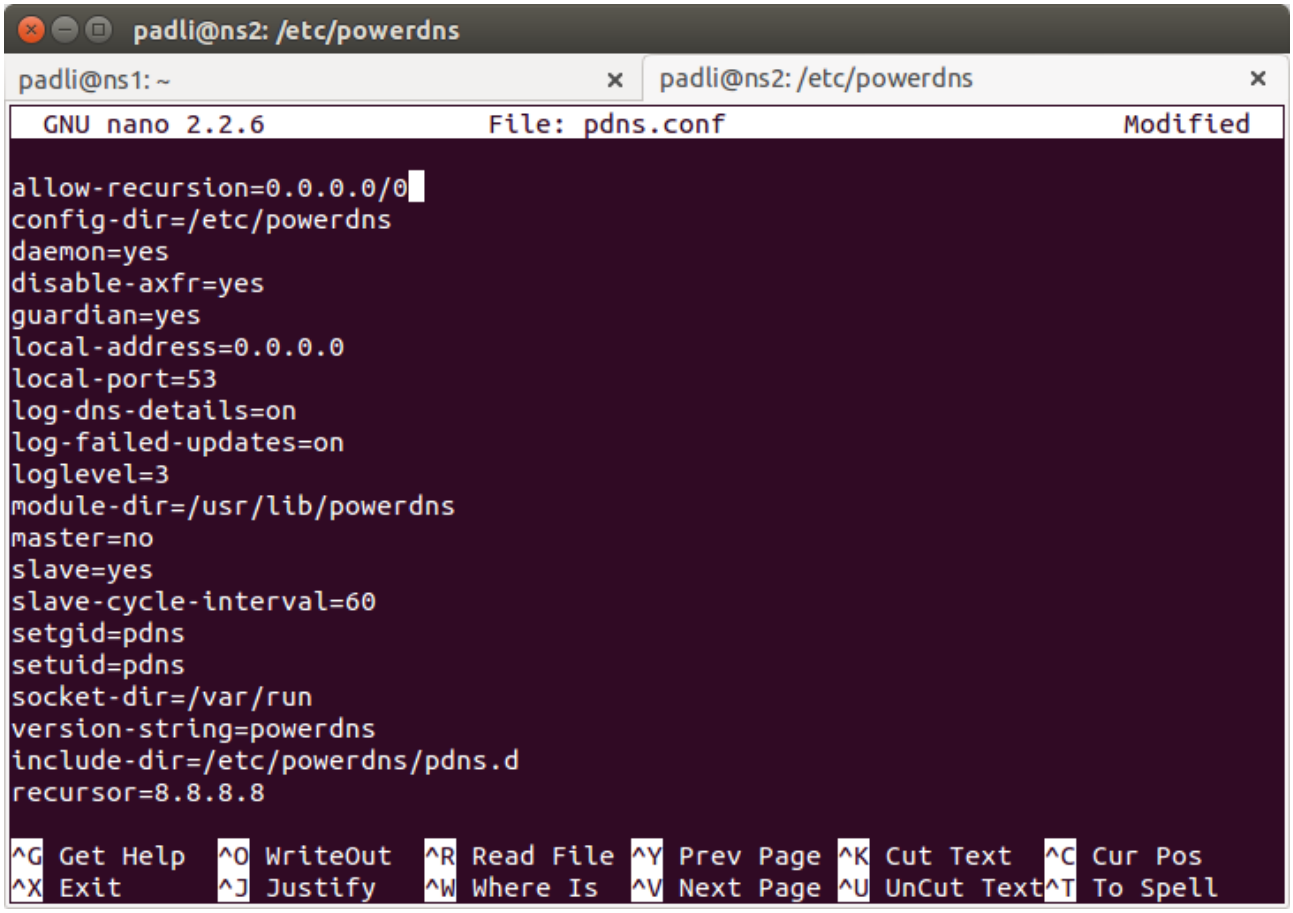
52. cek hostname & nameserver ns2.



53. backup file default pdns.conf.

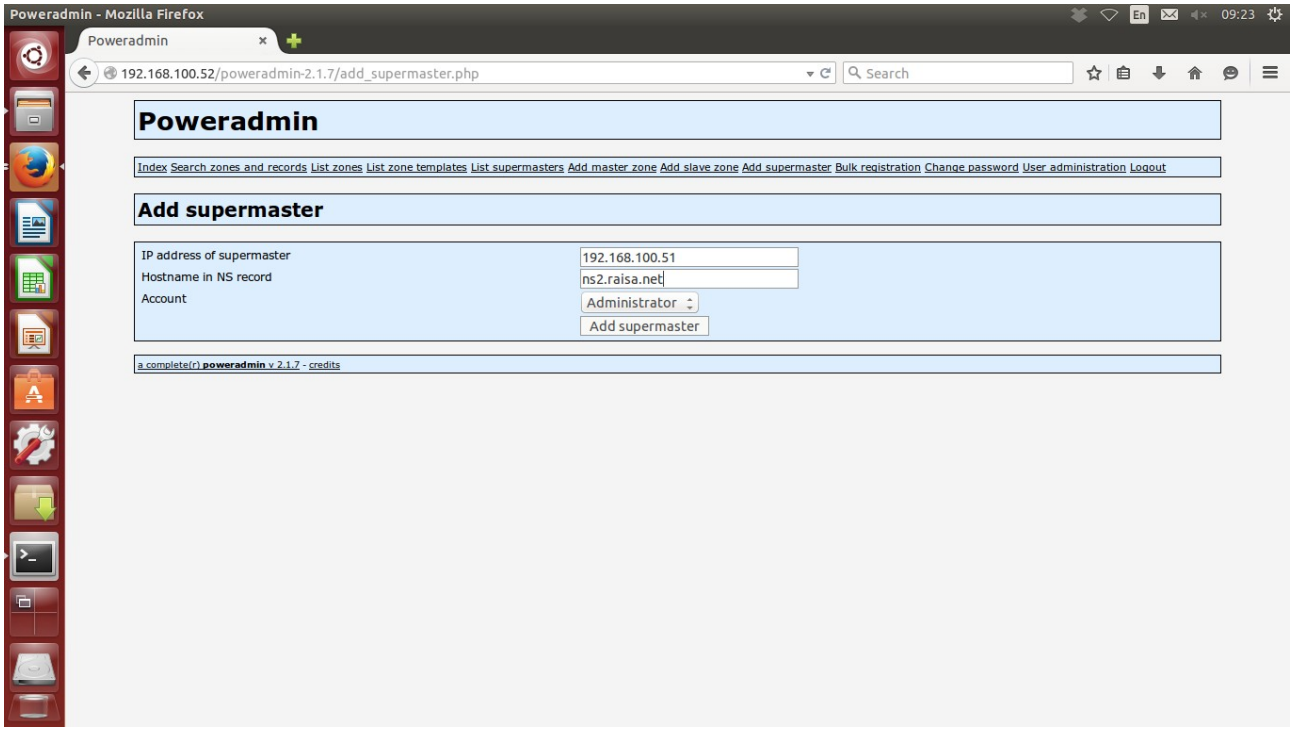


54. buat baru file "nano /etc/powerdns/pdns.conf" set sebagai slave.

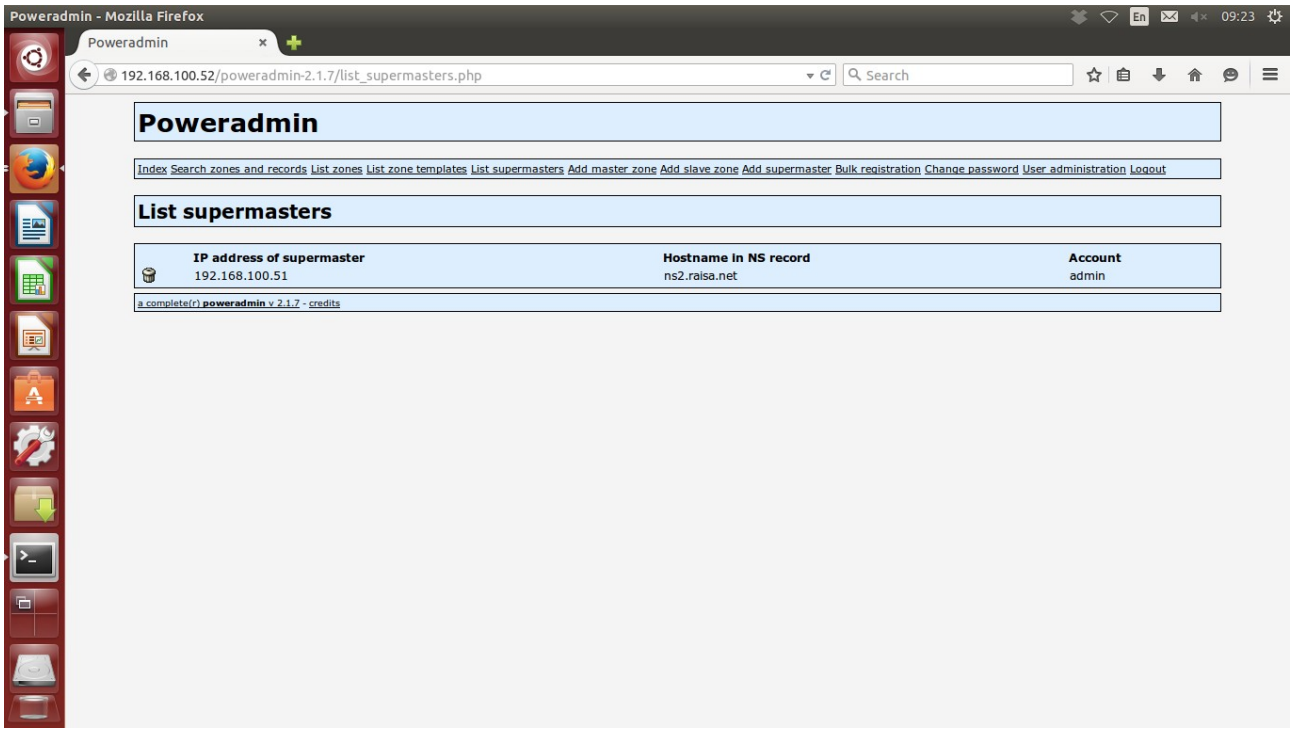


55. restart & cek servis powerdns.

56. tambahkan supermaster (ip master, nameserver slave, admin).

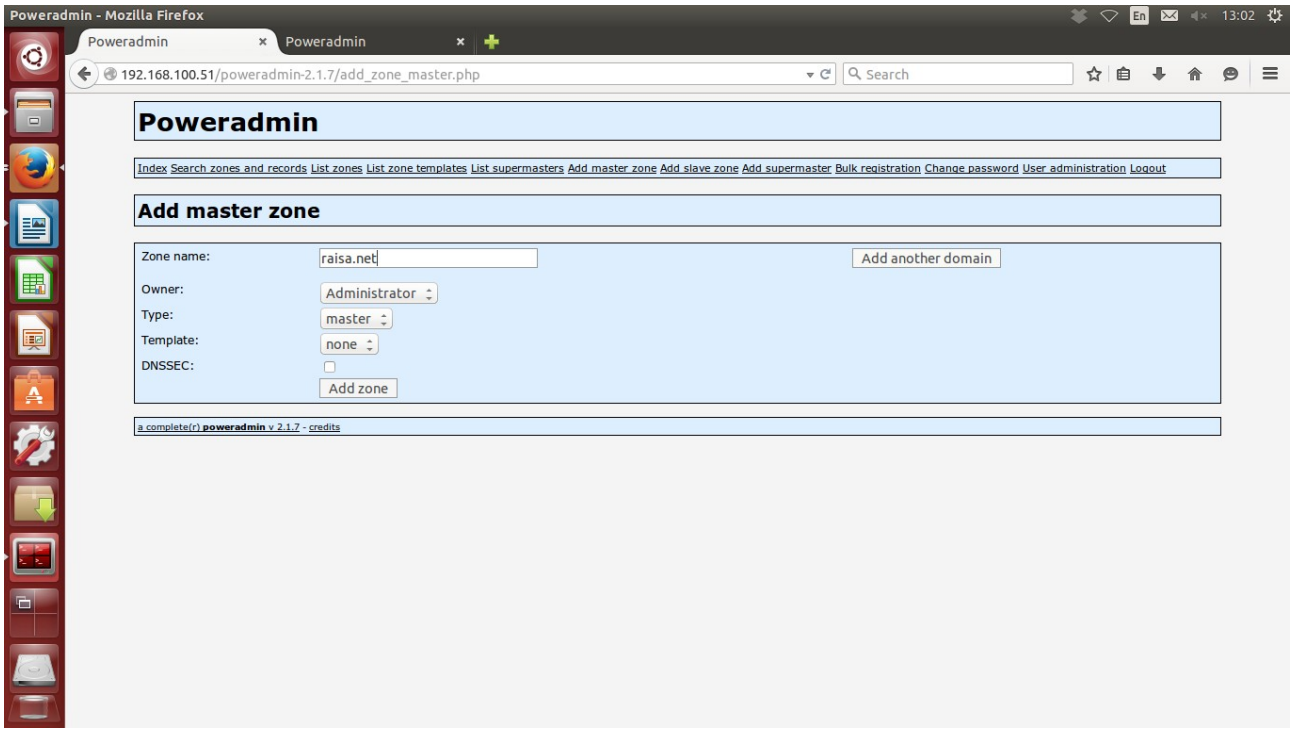


57. cek list supermaster.

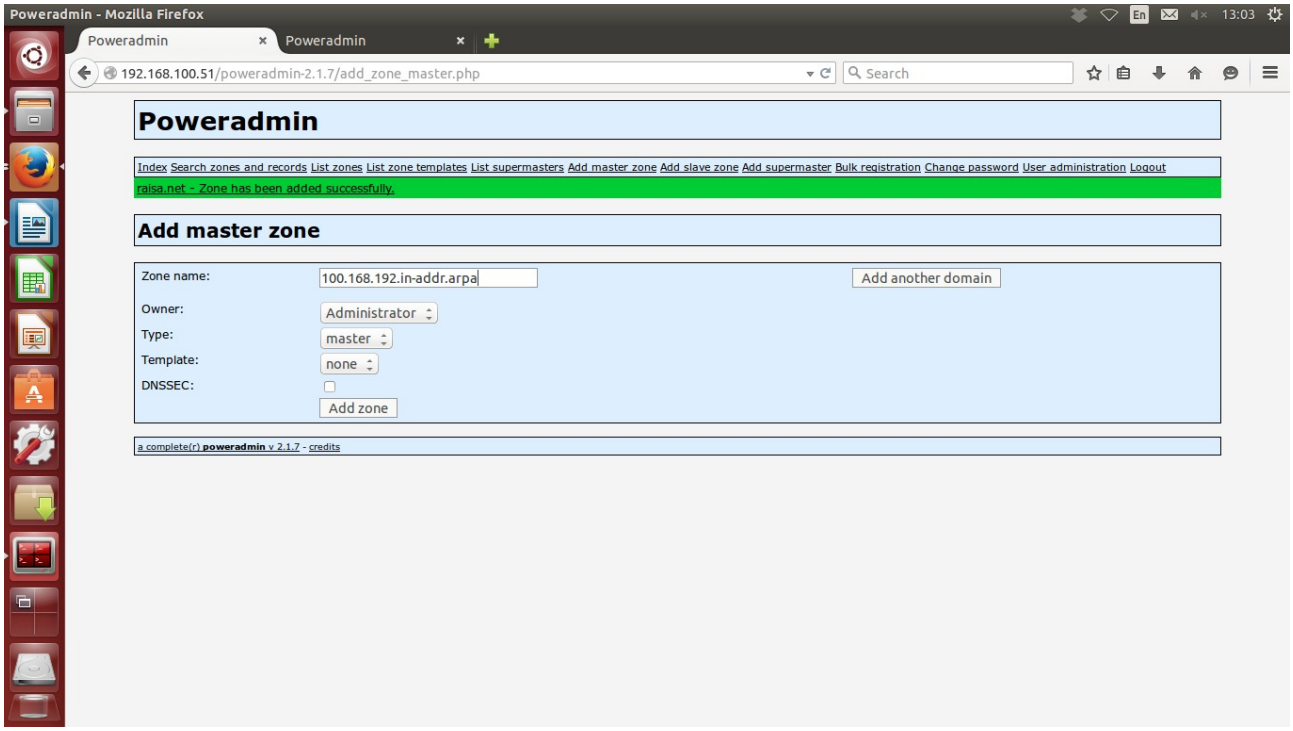


TES KONFIGURASI (NS1,NS2 & HOST)

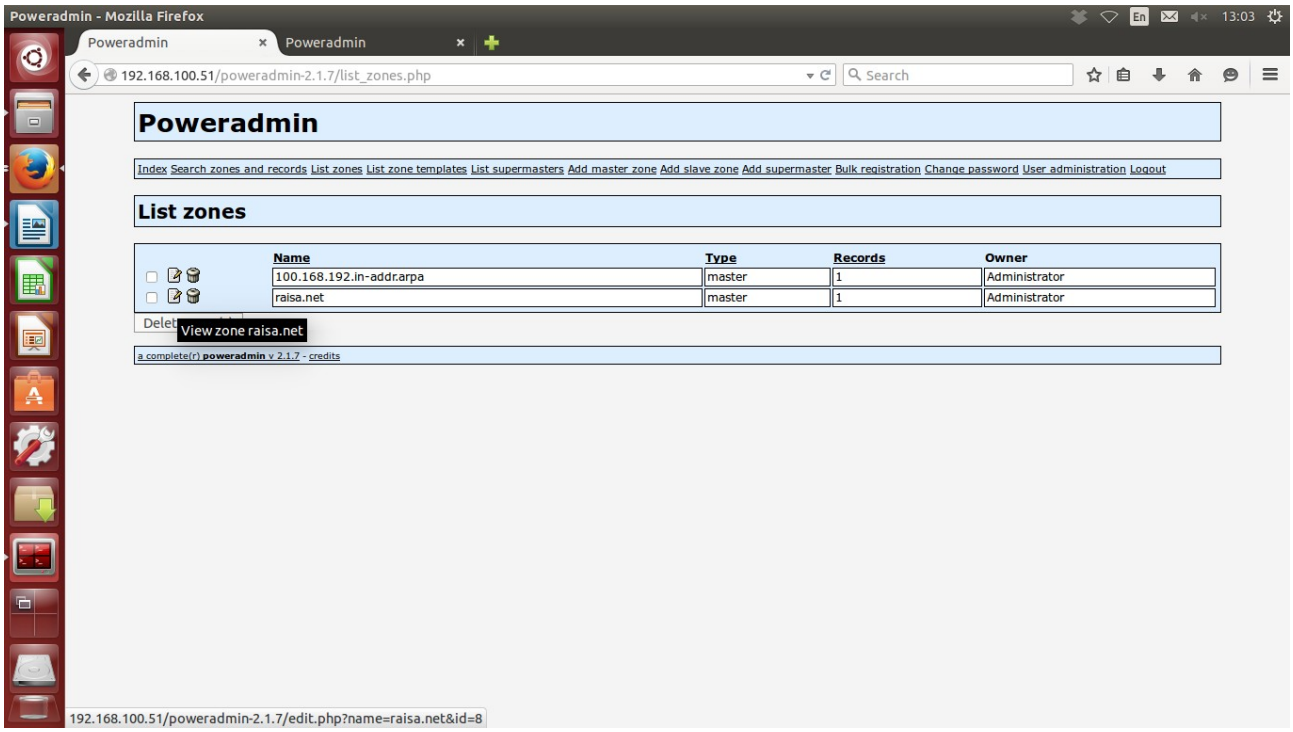
58. tambahkan master zone raisa.net (NS1).



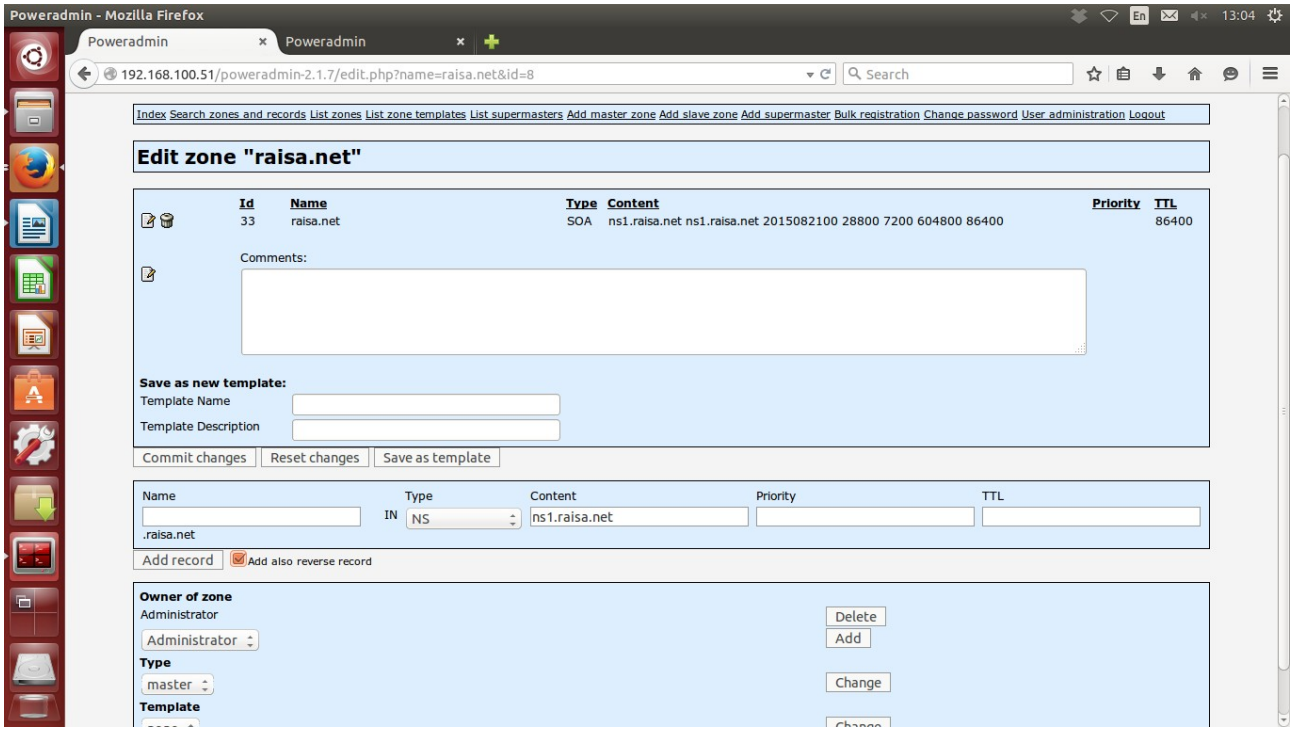
59. tambahkan master zone reverse (NS1).



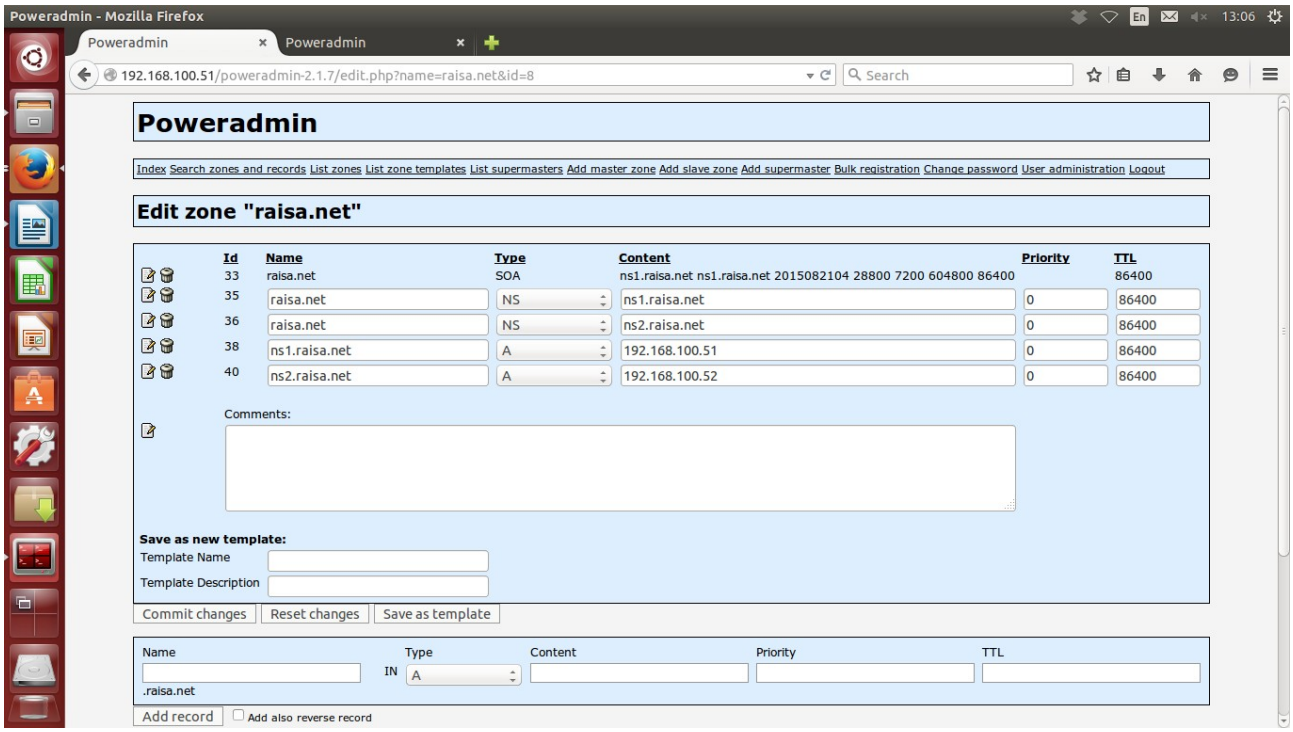
60. cek list master zone & edit master zone raisa.net (NS1).



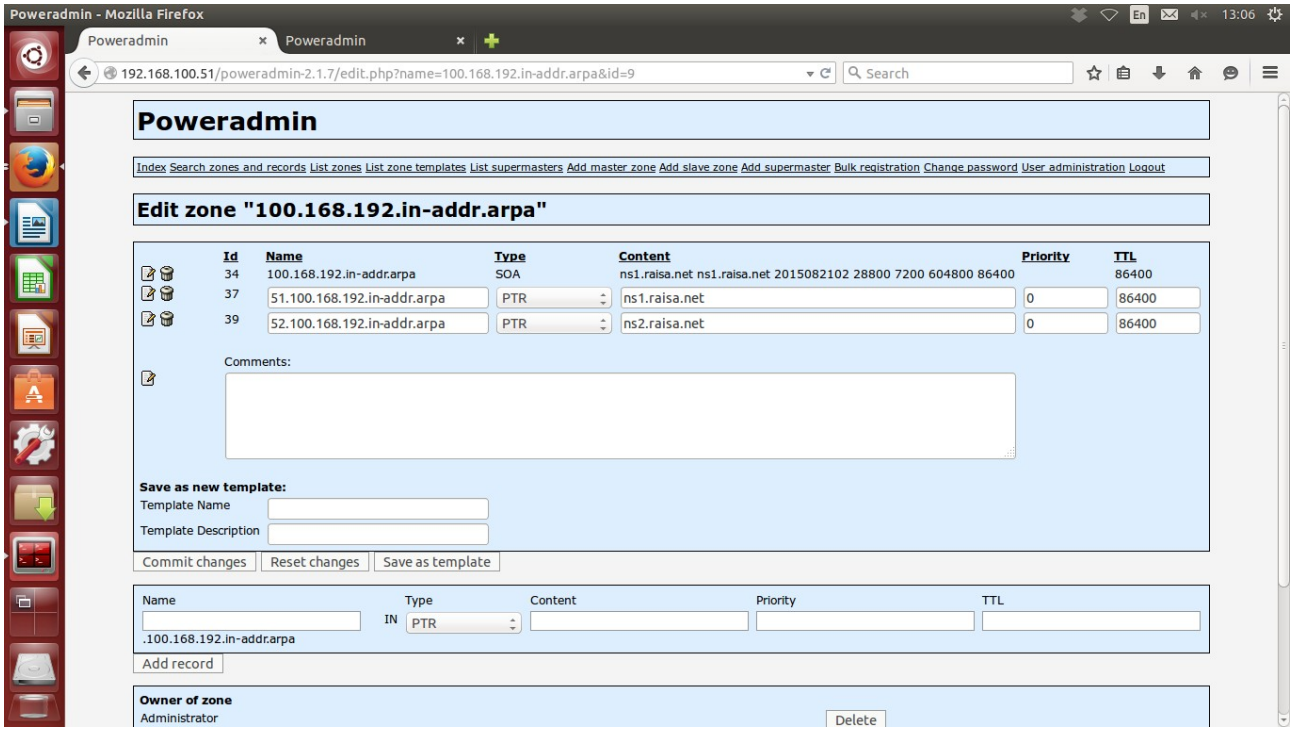
61. tambahkan record NS (nameserver), cek list add also reverse record (NS1).



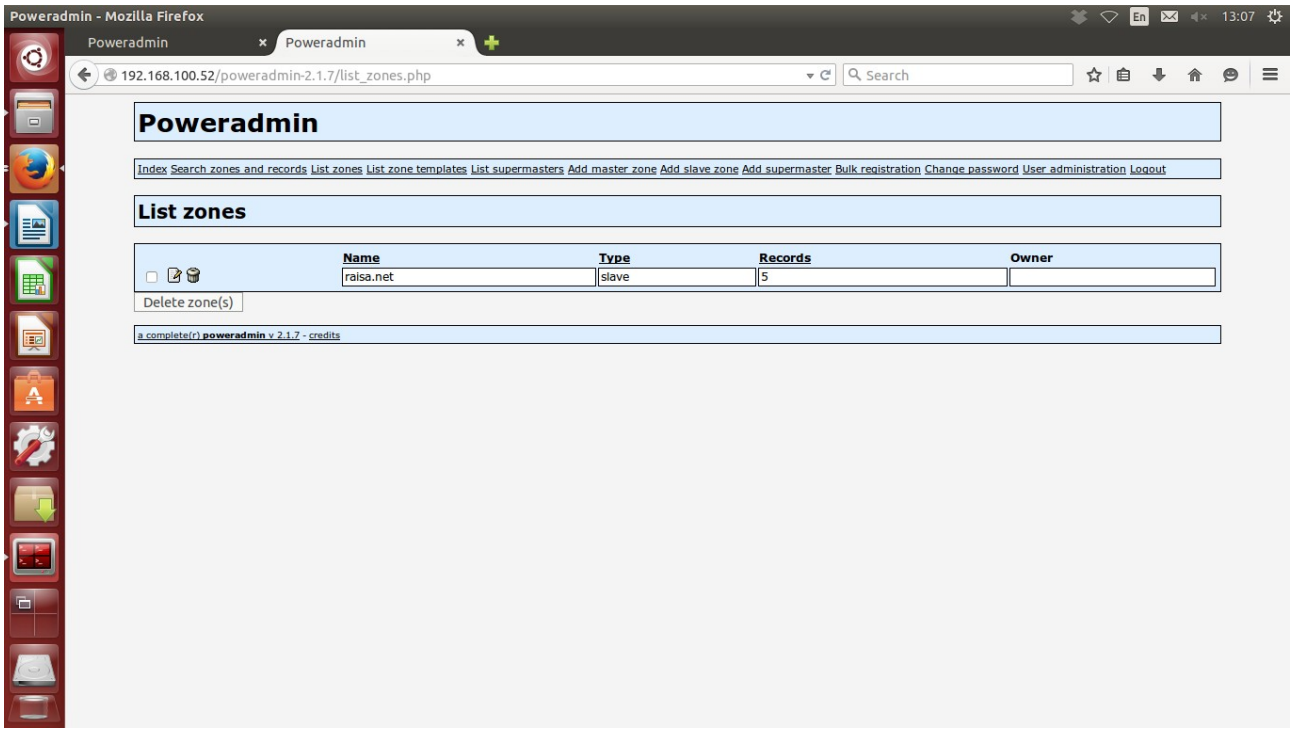
62. tambahkan record lagi sehingga seperti list di gambar (NS1).



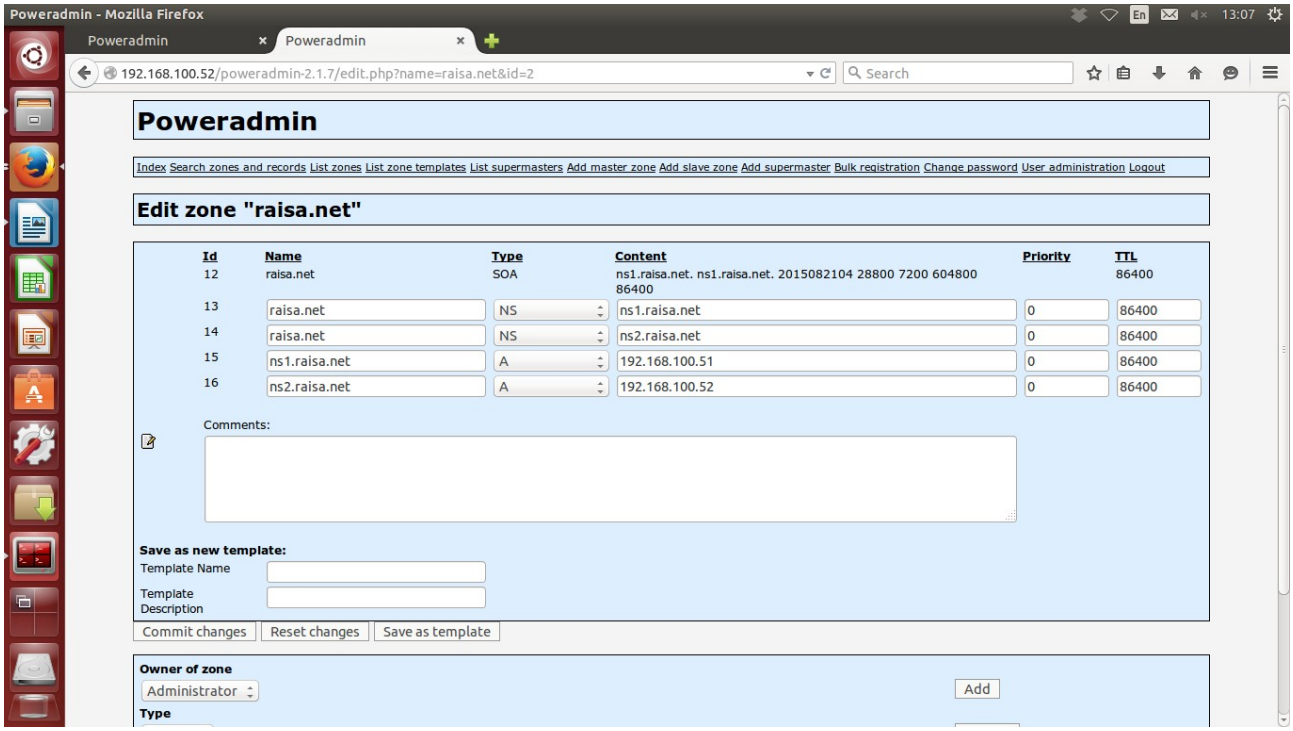
63. cek list master record reverse (NS1).



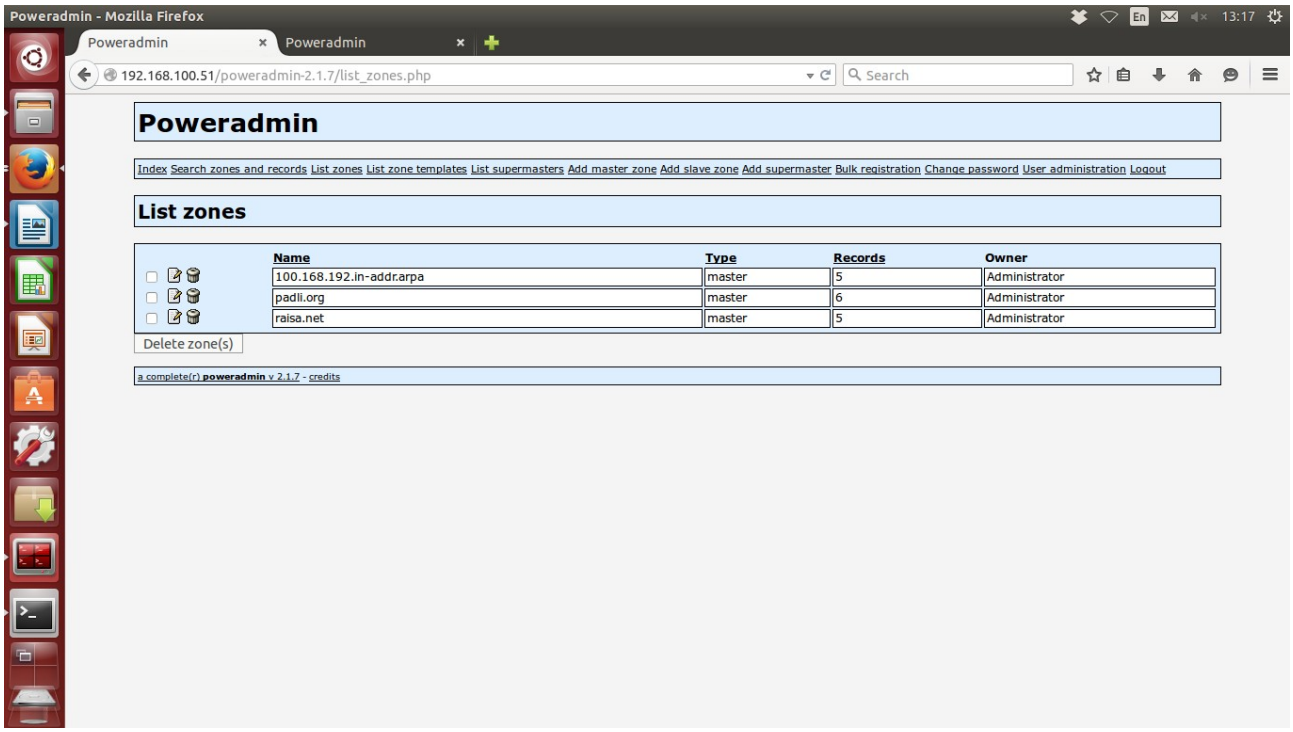
64. cek list zone pada slave, setup di master otomatis akan terecord ke slave (NS2).



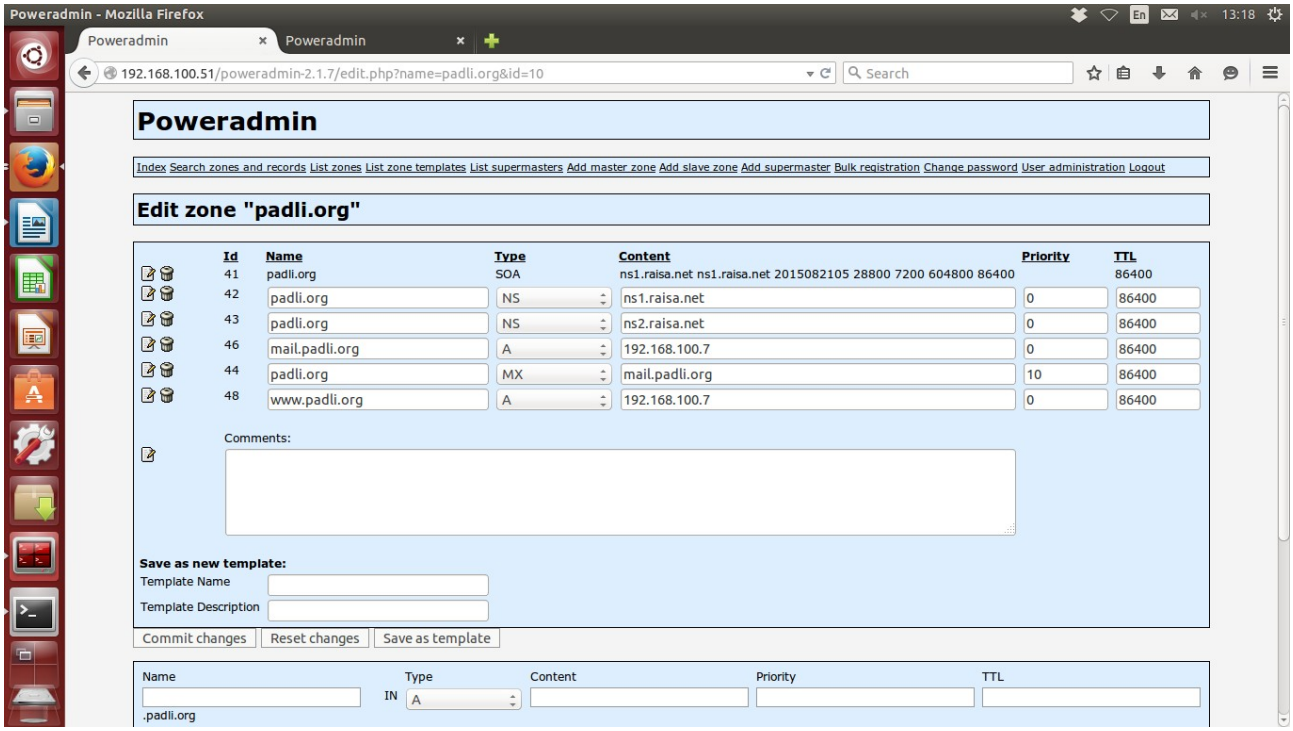
65. cek record pada slave, setup di master otomatis akan terecord ke slave (NS2).



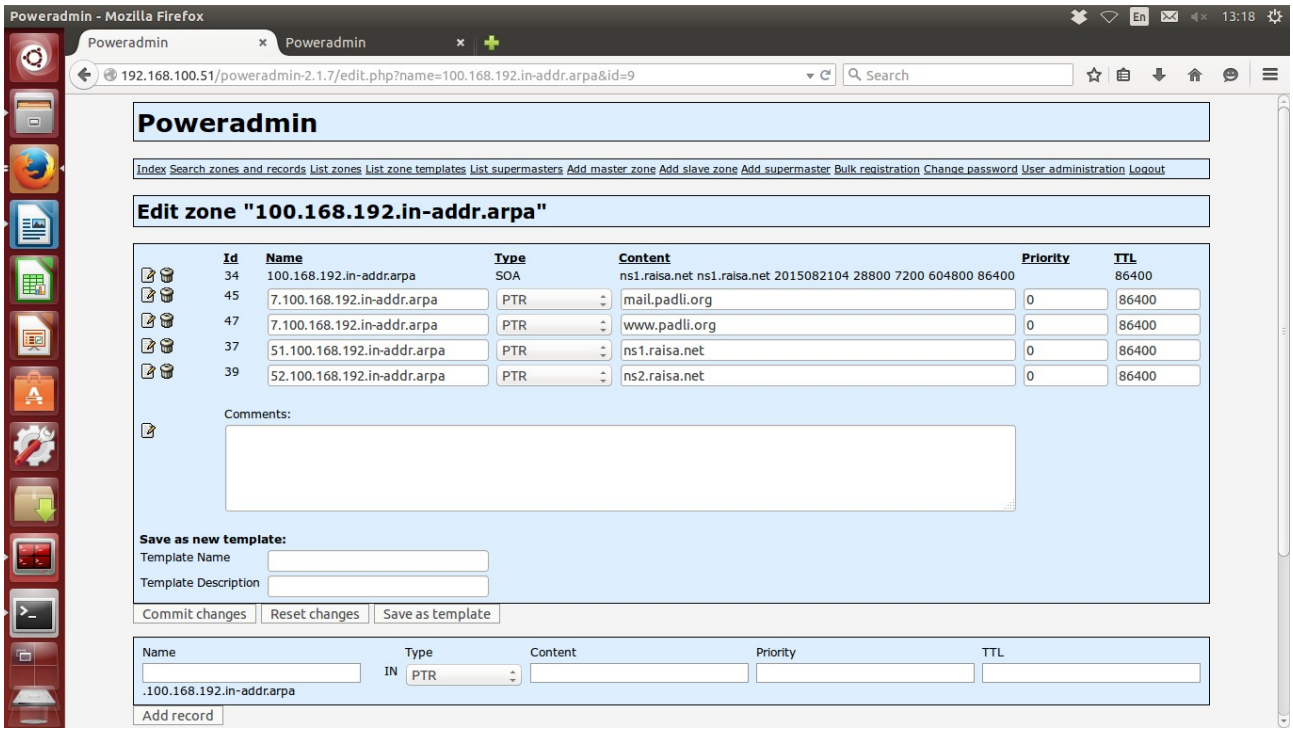
66. tambahkan master zone padli.org (NS1).



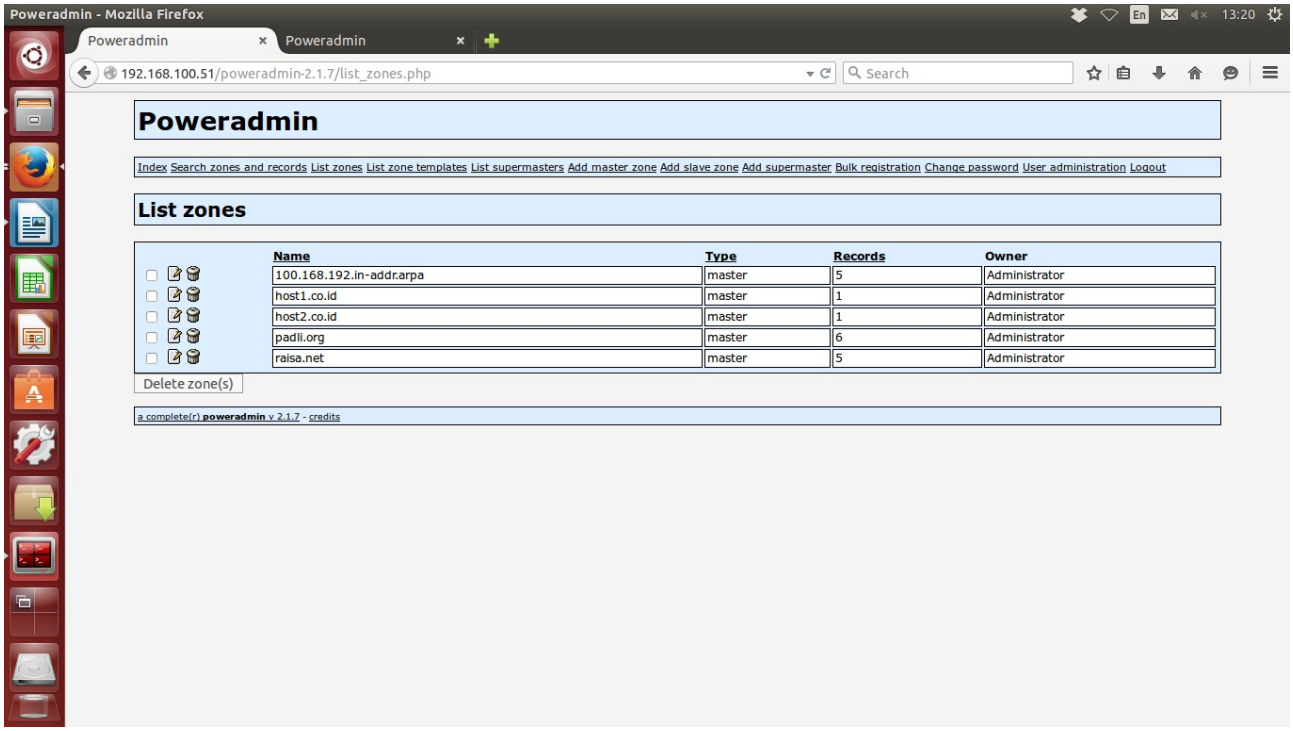
67. tambahkan record pada master zone padli.org (NS1).



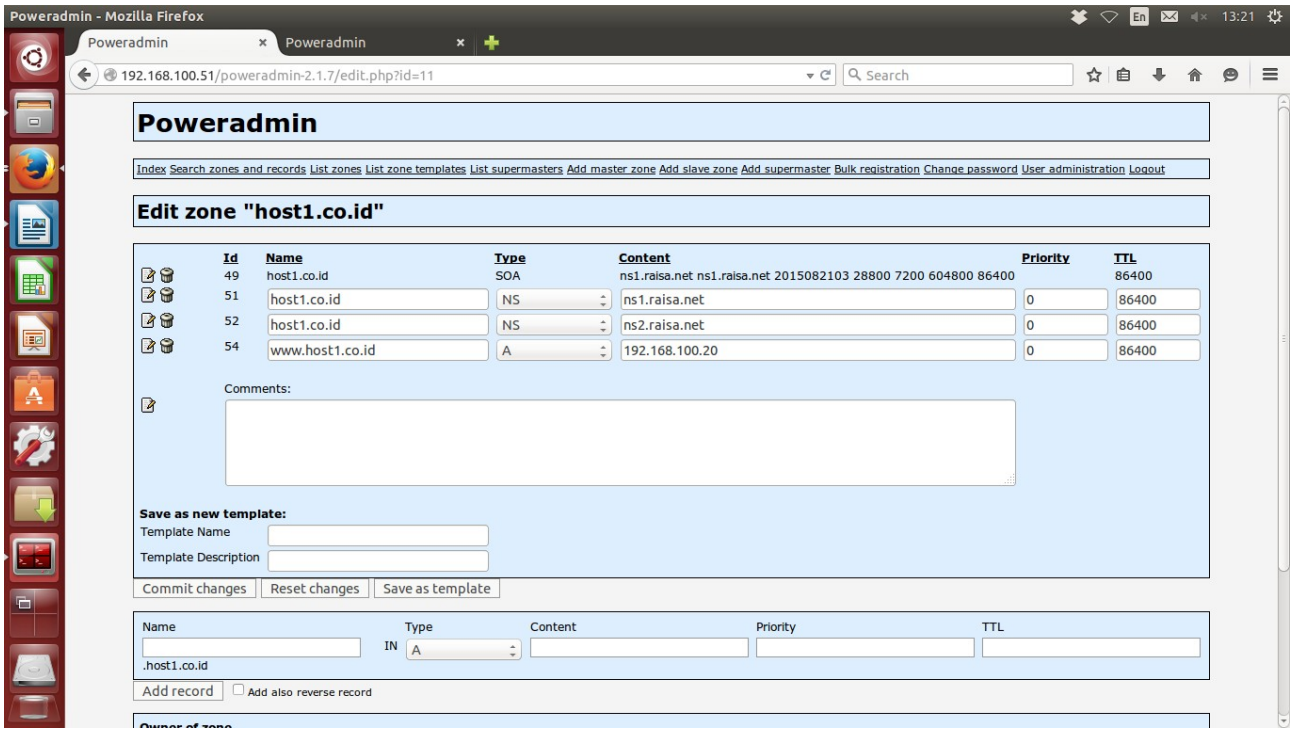
68. cek list master zone reverse (NS1).



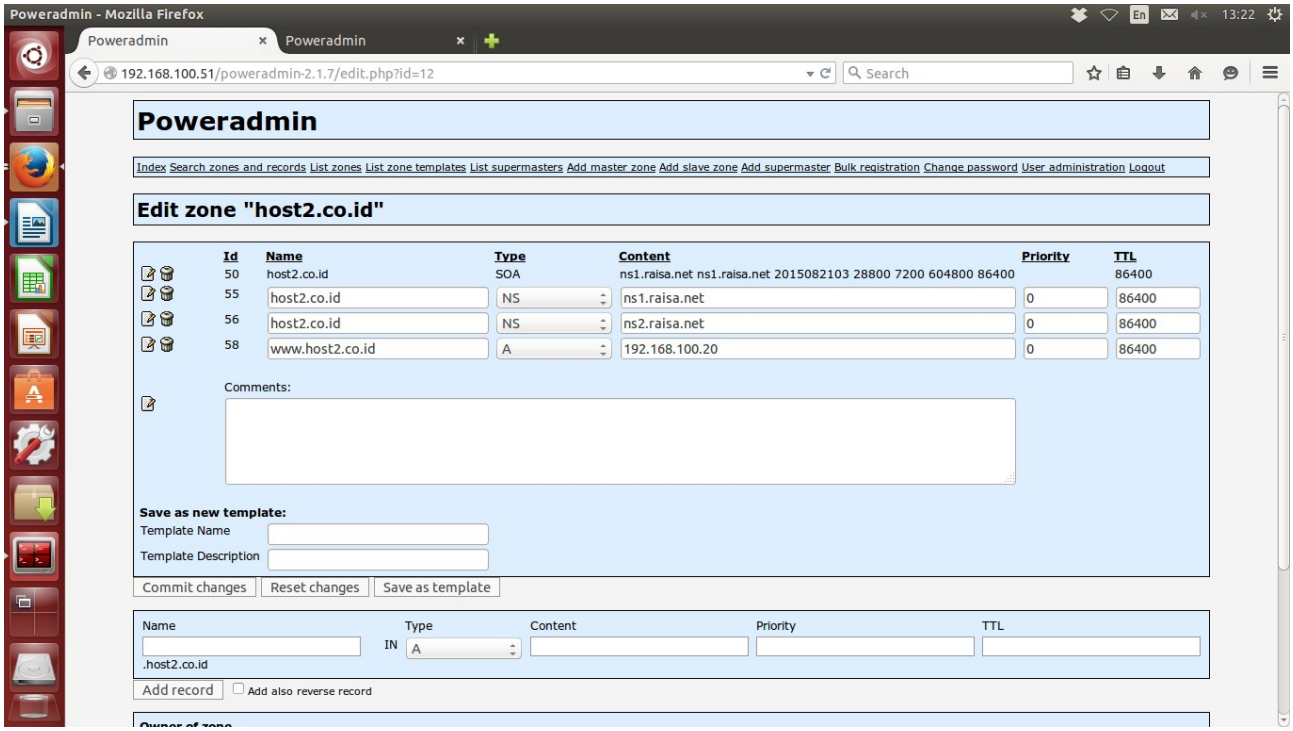
69. tambahkan master zone host1.co.id & host2.co.id (NS1).



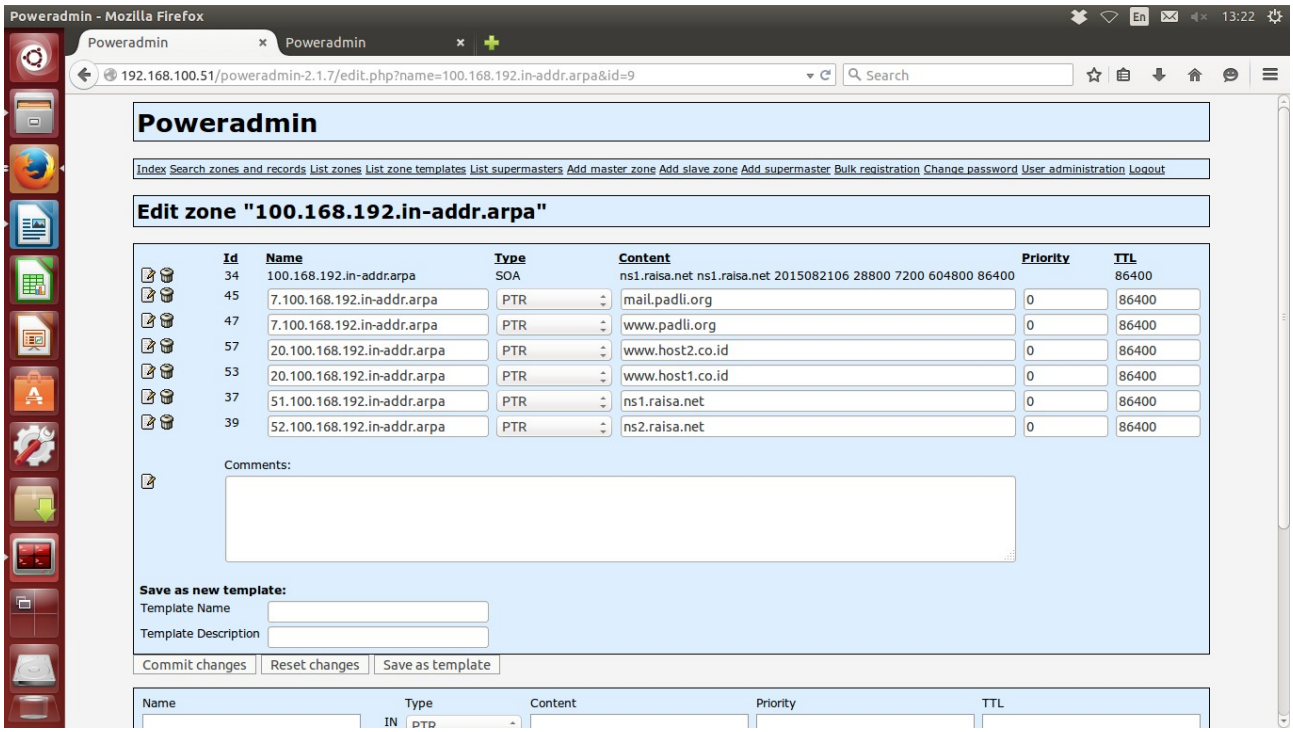
70. pada master zone host1.co.id tambahkan record seperti ini (NS1).



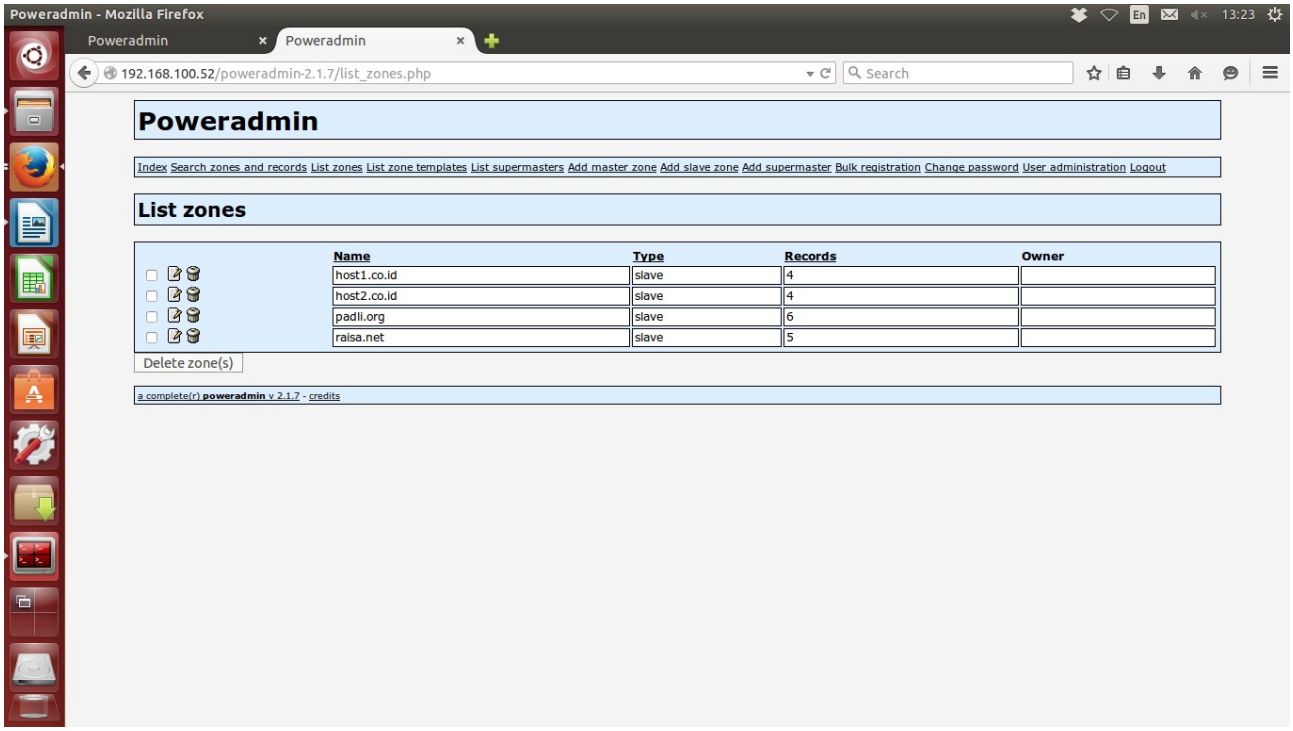
71. pada master zone host2.co.id tambahkan record seperti ini (NS1).



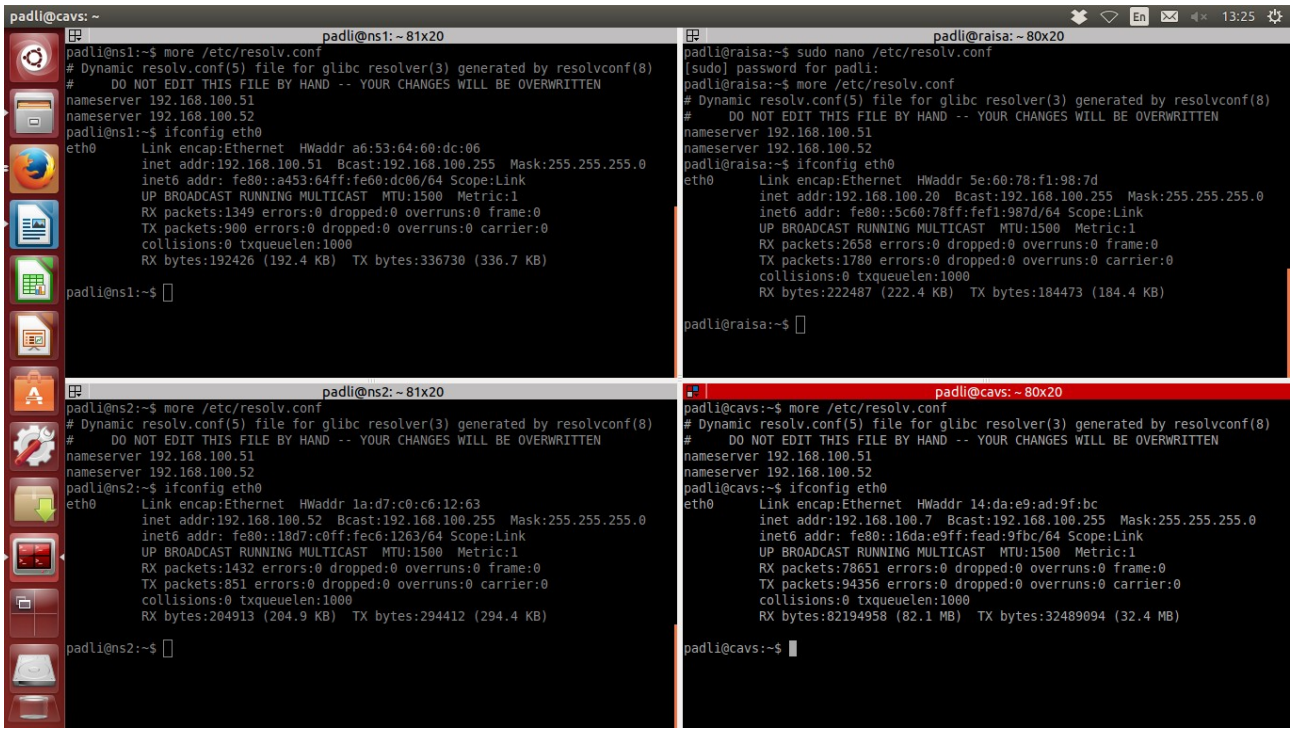
72. cek list master zone reverse hasilnya seperti ini (NS1).



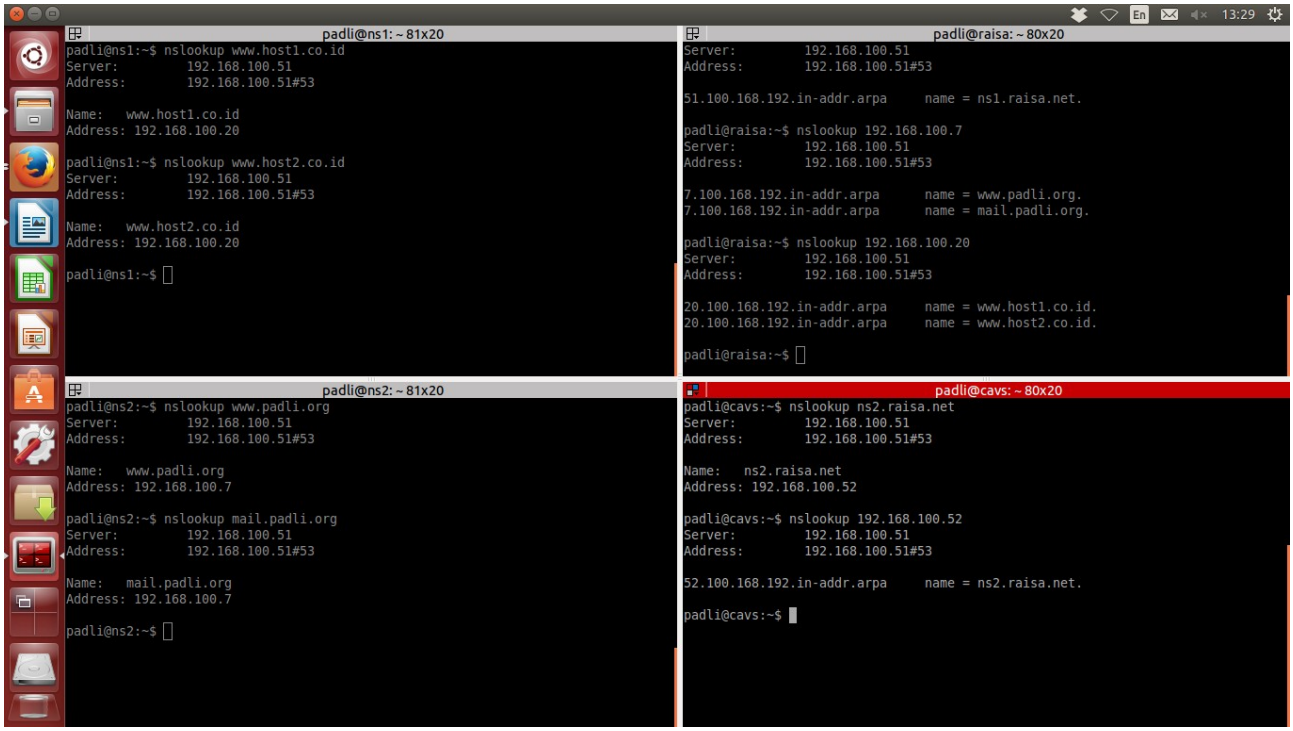
73. cek slave ns2.raisa.net otomatis setup pada master akan terecord di slave (NS2).



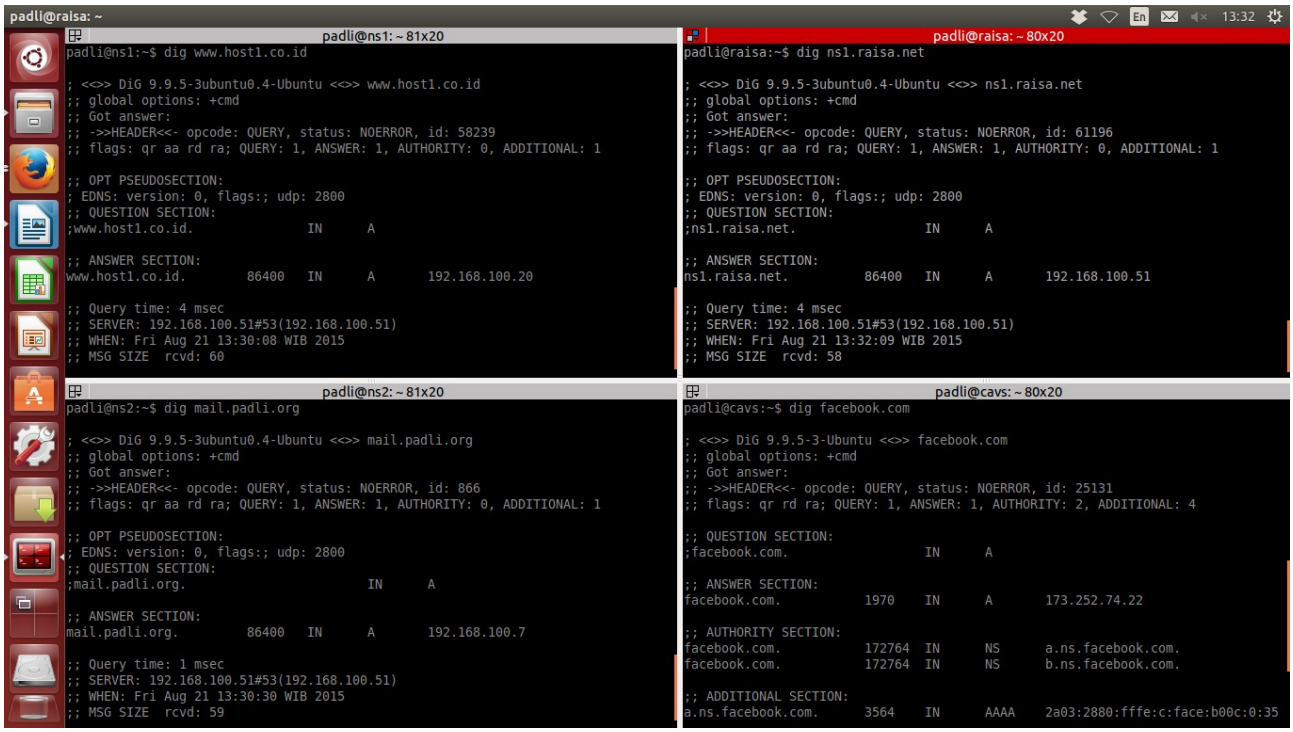
74. tes ns1,ns2,host (pastikan ip dan nameserver benar).



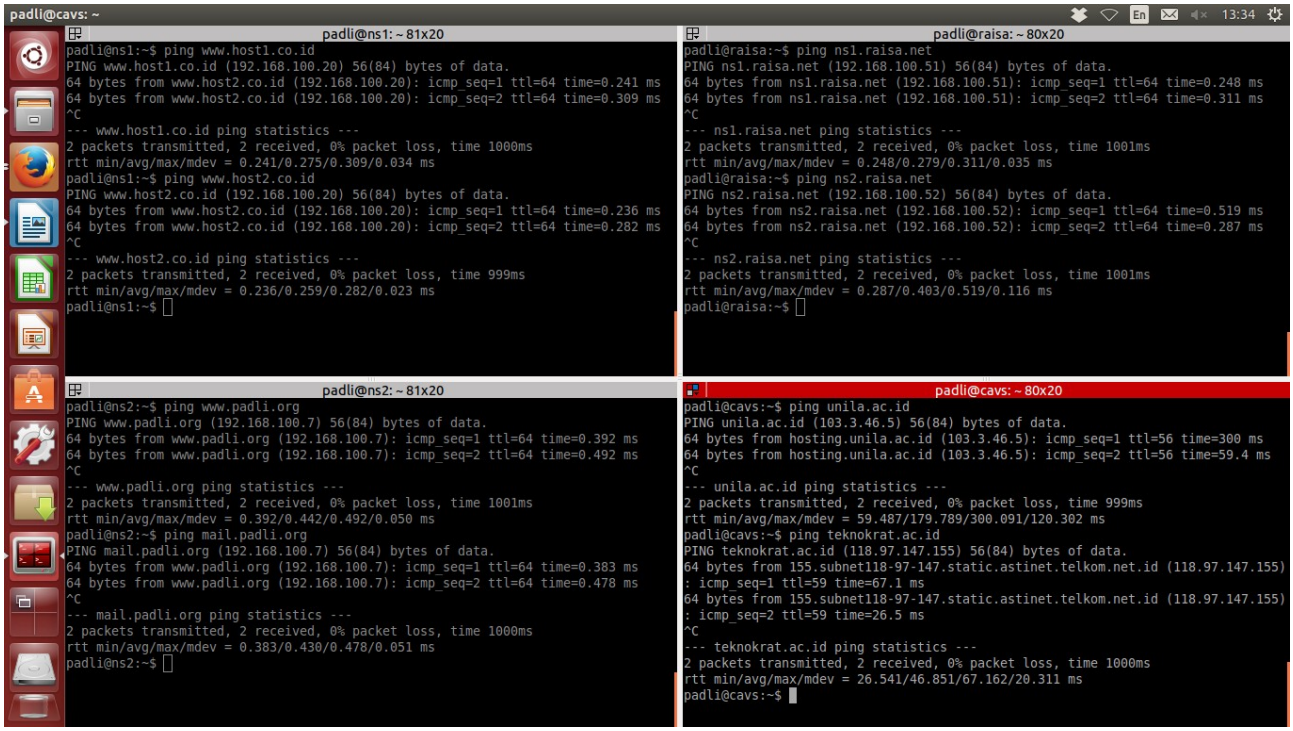
75. tes nslookup.



76. tes dig.



77. tes ping (hasil ping ke unila.ac.id di forwad ke ns 8.8.8.8).



78. hasil tes slave ns2 ok, setelah mesin ns1 master off, tes ping tetap berjalan normal.