

POWERDNS WITH POWERADMIN & BACKEND MYSQL

Note :

OS : Ubuntu 14.04

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

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).

1. set ip ns1.

```
padli@ns1: ~  
padli@ns1:~$ ifconfig  
eth0      Link encap:Ethernet  HWaddr a6:53:64:60:dc:06  
          inet addr:192.168.100.51  Bcast:192.168.100.255  Mask:255.255.255.0  
          inet6 addr: fe80::a453:64ff:fe60:dc06/64 Scope:Link  
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1  
          RX packets:152 errors:0 dropped:0 overruns:0 frame:0  
          TX packets:86 errors:0 dropped:0 overruns:0 carrier:0  
          collisions:0 txqueuelen:1000  
          RX bytes:15324 (15.3 KB)  TX bytes:10515 (10.5 KB)  
  
lo        Link encap:Local Loopback  
          inet addr:127.0.0.1  Mask:255.0.0.0  
          inet6 addr: ::1/128 Scope:Host  
          UP LOOPBACK RUNNING  MTU:65536  Metric:1  
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0  
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0  
          collisions:0 txqueuelen:0  
          RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)  
  
padli@ns1:~$
```

2. set hostname ns1.

```
padli@ns1: ~  
padli@ns1:~$ more /etc/hostname  
ns1.raisa.net  
padli@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 language-pack-id
```

5. install mysql.

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

6. set passwd user root.

```
padli@ns1: ~  
Package configuration
```

Configuring mysql-server-5.5

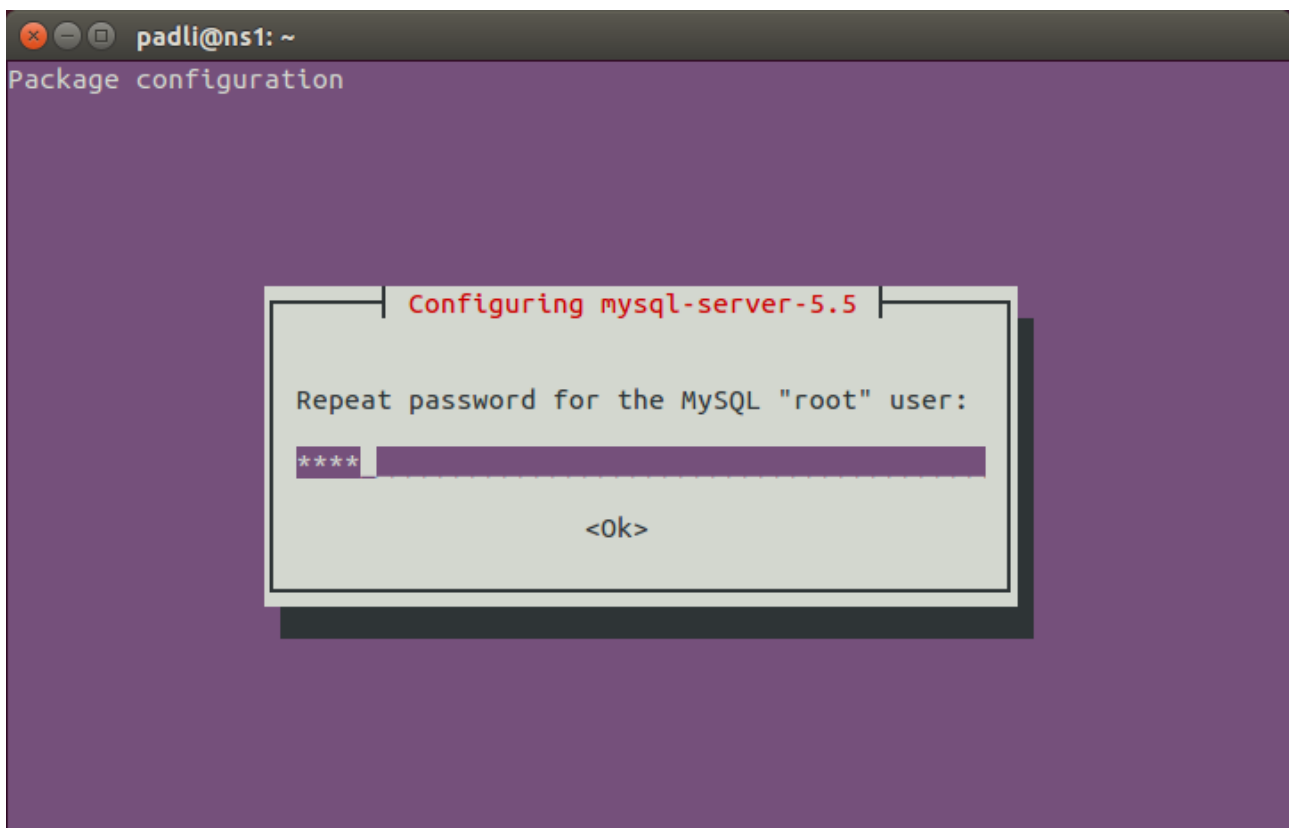
While not mandatory, it is highly recommended that you set a password for the MySQL administrative "root" user.

If this field is left blank, the password will not be changed.

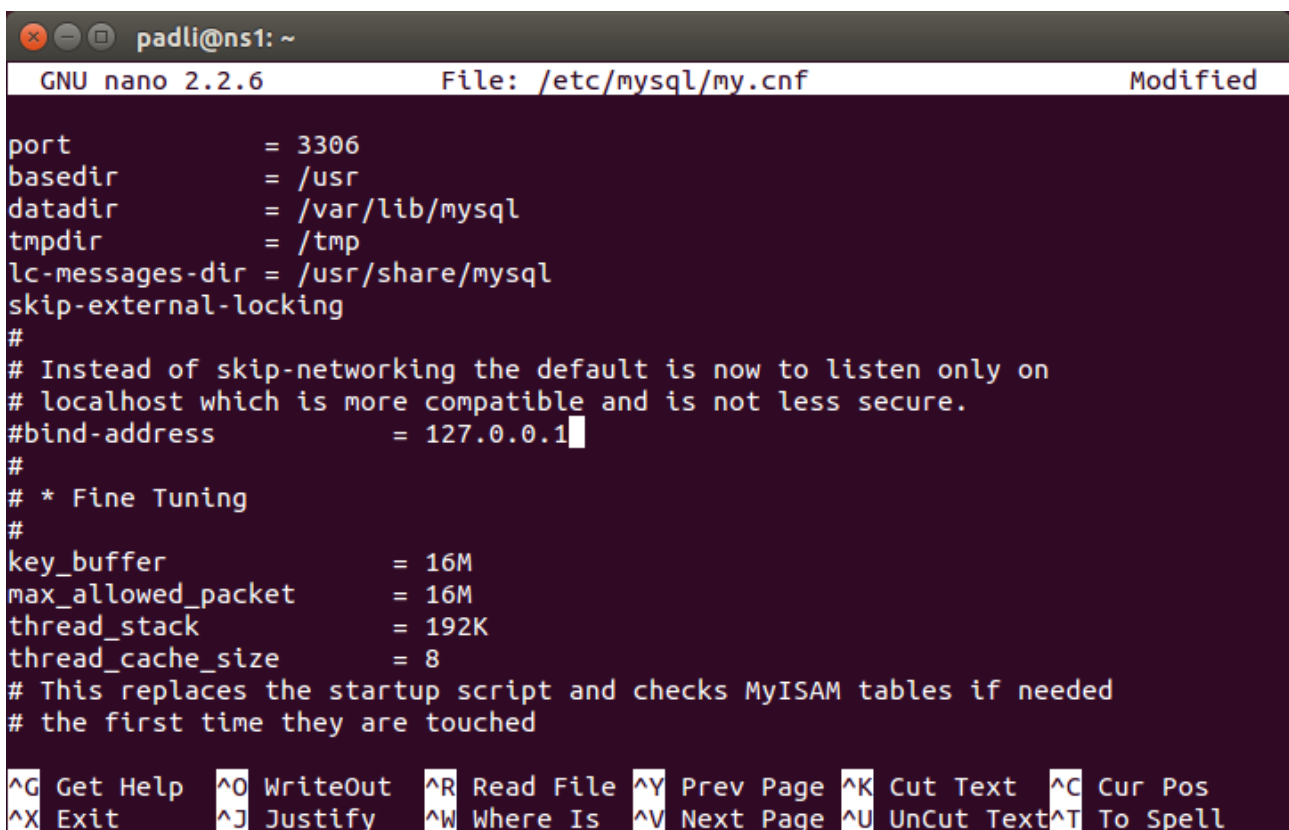
New password for the MySQL "root" user:

<Ok>

7. konfirmasi passwd root.



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



9. restart.

```
padli@ns1: ~  
padli@ns1:~$ sudo reboot
```

10. install nmap.

```
padli@ns1: ~  
padli@ns1:~$ sudo apt-get install nmap
```

11. cek port yg aktif.

```
padli@ns1: ~  
padli@ns1:~$ sudo nmap localhost  
  
Starting Nmap 6.40 ( http://nmap.org ) at 2015-08-19 15:13 WIB  
Nmap scan report for localhost (127.0.0.1)  
Host is up (0.000017s latency).  
Other addresses for localhost (not scanned): 127.0.0.1  
Not shown: 998 closed ports  
PORT      STATE SERVICE  
22/tcp    open  ssh  
3306/tcp   open  mysql  
  
Nmap done: 1 IP address (1 host up) scanned in 89.43 seconds  
padli@ns1:~$
```

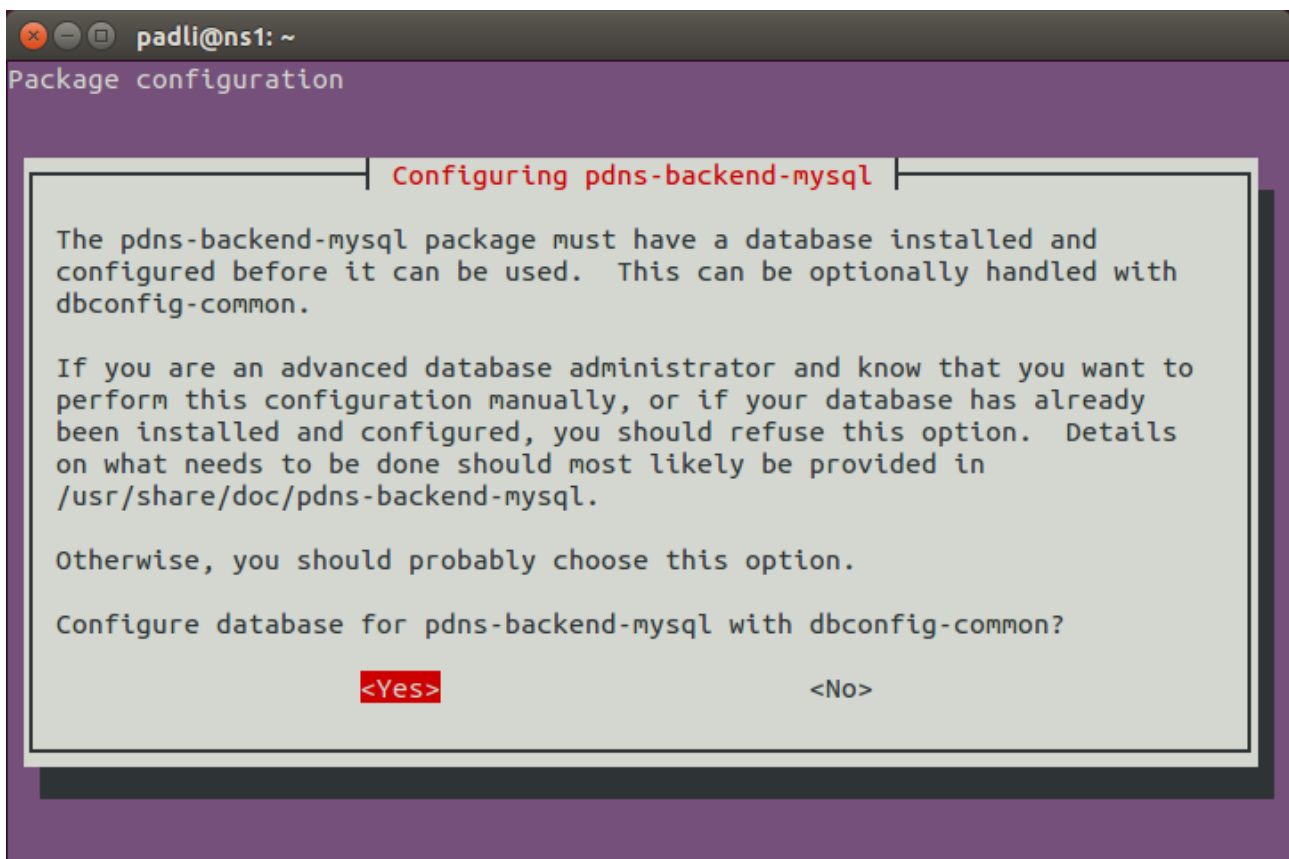
12. cek mysql.

```
padli@ns1: ~  
padli@ns1:~$ mysql -u root -p  
Enter password:  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 36  
Server version: 5.5.44-0ubuntu0.14.04.1 (Ubuntu)  
  
Copyright (c) 2000, 2015, Oracle and/or its affiliates. All rights reserved.  
  
Oracle is a registered trademark of Oracle Corporation and/or its  
affiliates. Other names may be trademarks of their respective  
owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
  
mysql> show databases;  
+-----+  
| Database |  
+-----+  
| information_schema |  
| mysql |  
| performance_schema |  
+-----+  
3 rows in set (0.03 sec)  
  
mysql> 
```

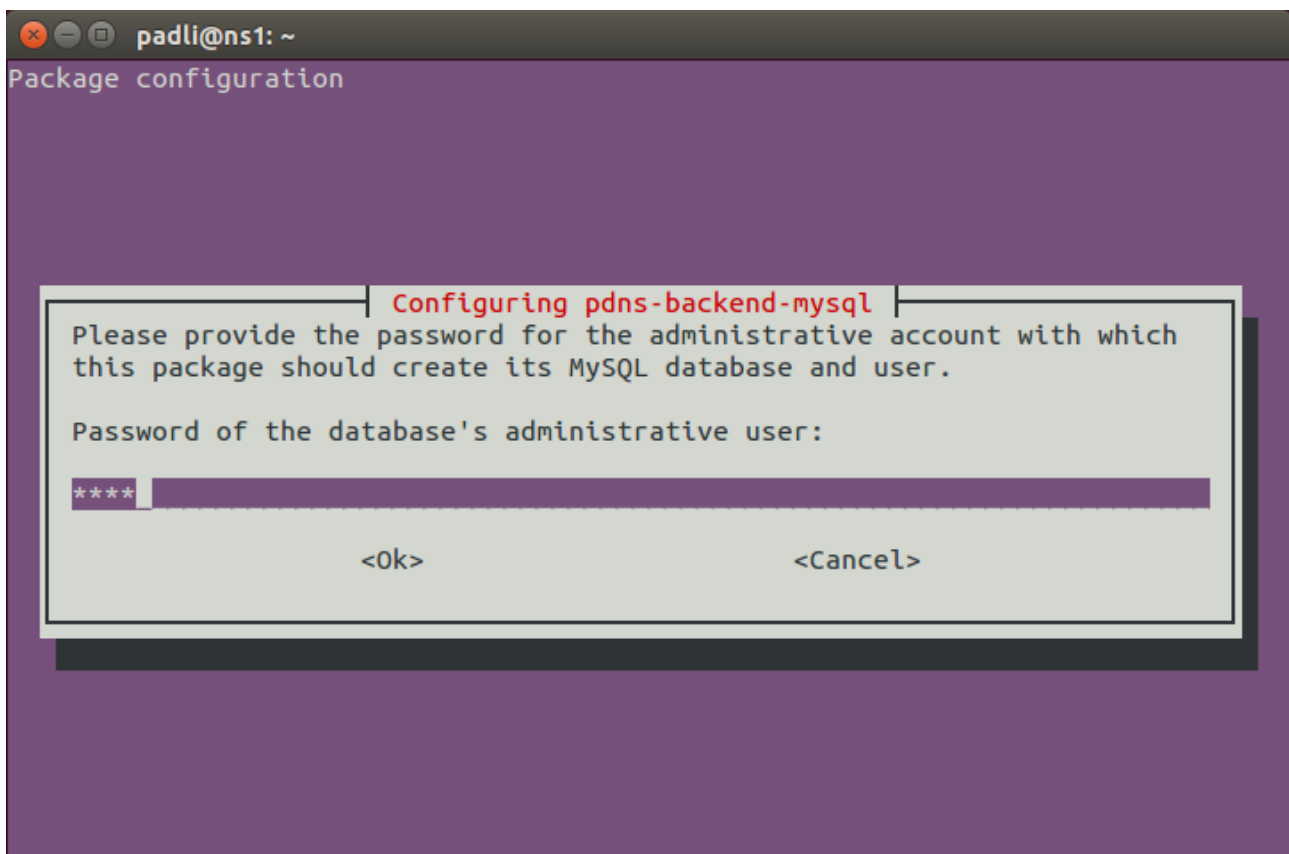
13. install powerdns.

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

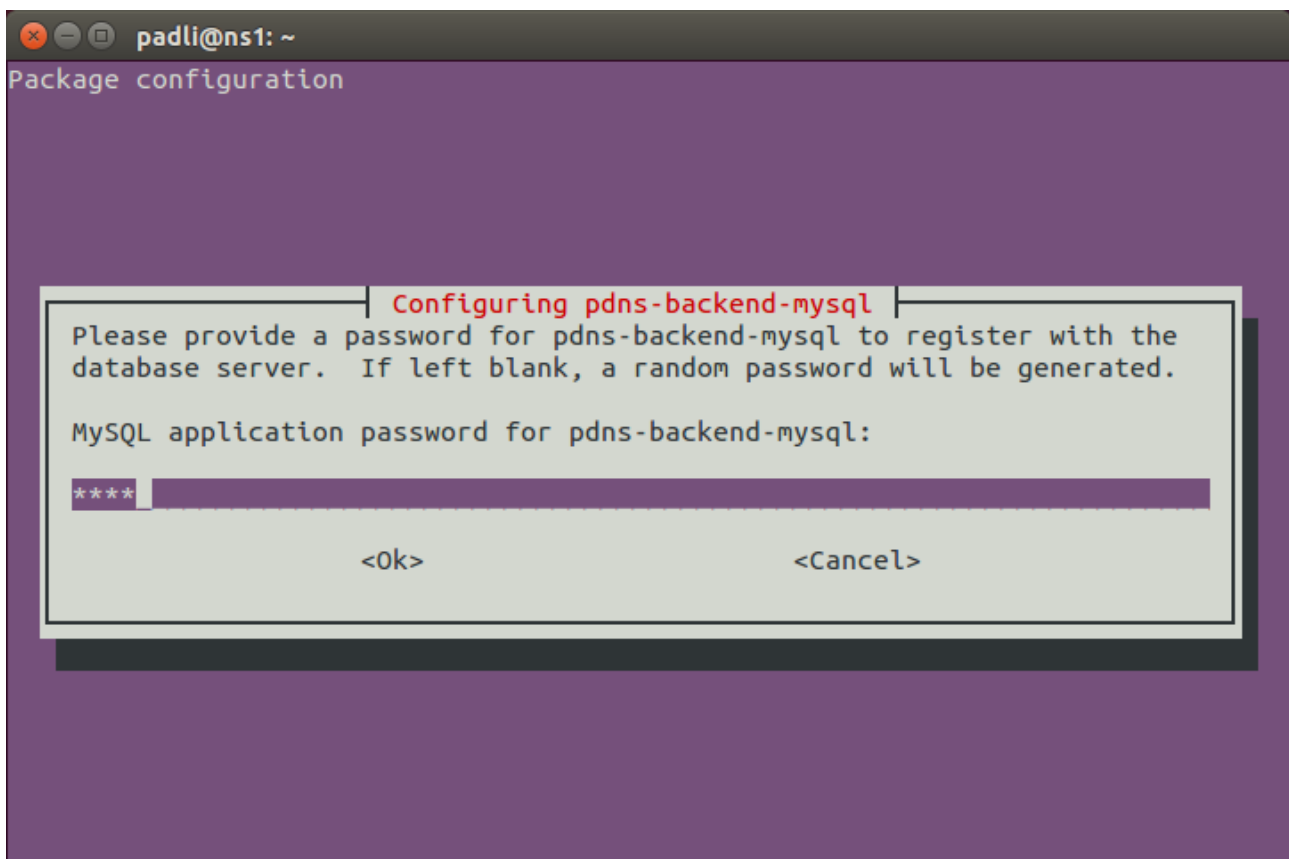
14. set yes.



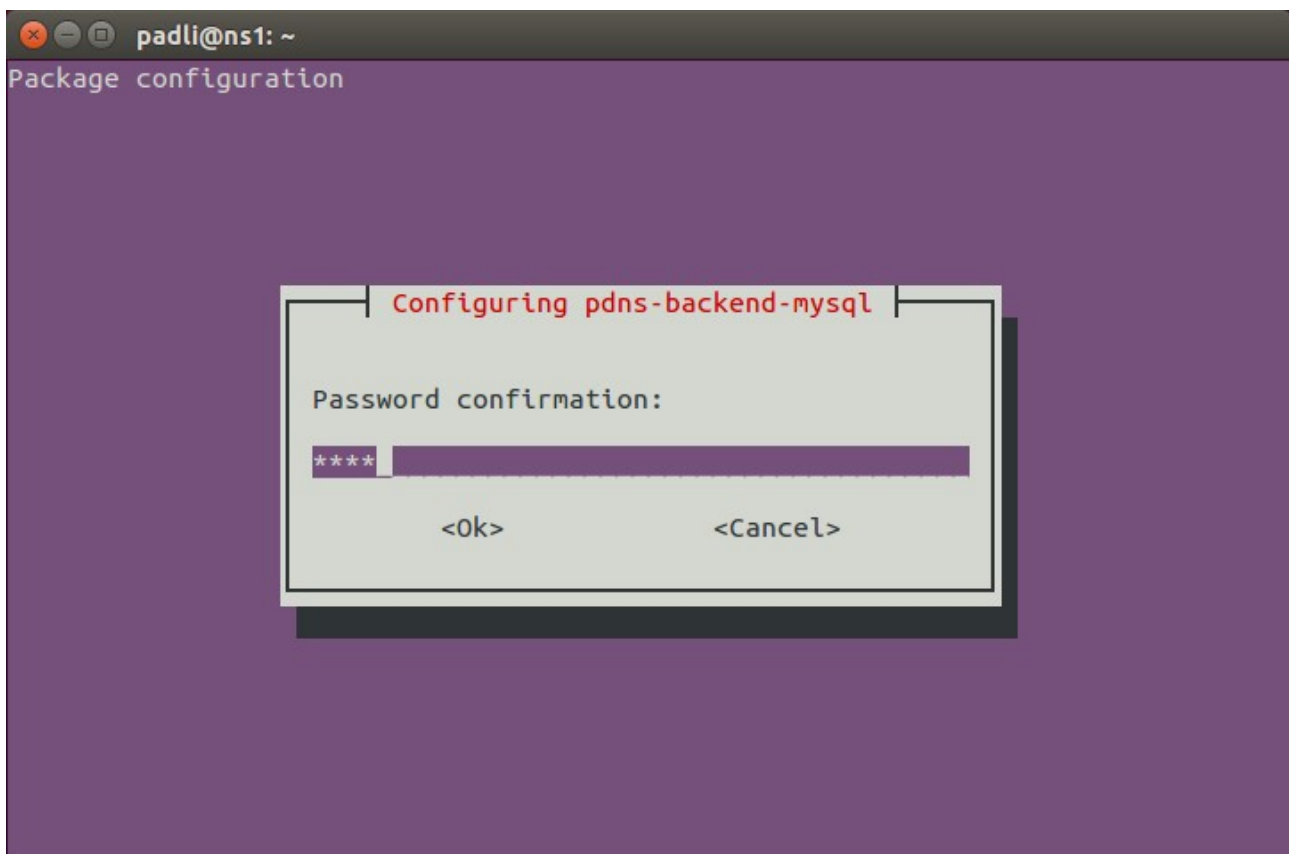
15. input root passwd mysql.



16. set passwd untuk powerdns backend mysql.



17. konfirmasi passwd.



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

```
padli@ns1: ~  
padli@ns1:~$ mysql -u root -p  
Enter password:  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 46  
Server version: 5.5.44-0ubuntu0.14.04.1 (Ubuntu)  
  
Copyright (c) 2000, 2015, Oracle and/or its affiliates. All rights reserved.  
  
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affiliates. Other names may be trademarks of their respective  
owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
  
mysql> CREATE DATABASE powerdns;  
Query OK, 1 row affected (0.00 sec)  
  
mysql> GRANT ALL ON powerdns.* TO 'poweruser'@'%' IDENTIFIED BY 'root';  
Query OK, 0 rows affected (0.00 sec)  
  
mysql> FLUSH PRIVILEGES;  
Query OK, 0 rows affected (0.00 sec)  
  
mysql> quit;
```

19. login user poweruser, buat tabel domains.

```
padli@ns1: ~  
padli@ns1:~$ mysql -u poweruser -p  
Enter password:  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 47  
Server version: 5.5.44-0ubuntu0.14.04.1 (Ubuntu)  
  
Copyright (c) 2000, 2015, Oracle and/or its affiliates. All rights reserved.  
  
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affiliates. Other names may be trademarks of their respective  
owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
  
mysql> USE powerdns;  
Database changed  
mysql> CREATE TABLE domains (  
-> id INT auto_increment,  
-> name VARCHAR(255) NOT NULL,  
-> master VARCHAR(128) DEFAULT NULL,  
-> last_check INT DEFAULT NULL,  
-> type VARCHAR(6) NOT NULL,  
-> notified_serial INT DEFAULT NULL,  
-> account VARCHAR(40) DEFAULT NULL,  
-> primary key (id)  
-> );  
Query OK, 0 rows affected (0.04 sec)  
  
mysql> CREATE UNIQUE INDEX name_index ON domains(name);  
Query OK, 0 rows affected (0.08 sec)  
Records: 0  Duplicates: 0  Warnings: 0  
  
mysql> 
```

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.

```
padli@ns1: ~  
padli@ns1:~$ sudo rm /etc/powerdns/pdns.d/*.*
```

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

```
padli@ns1: ~  
GNU nano 2.2.6 File: /etc/powerdns/pdns.d/pdns.local.gmysql.conf Modified  
  
# MySQL Configuration  
#  
# Launch gmysql backend  
launch=gmysql  
  
# gmysql parameters  
gmysql-host=localhost  
gmysql-dbname=powerdns  
gmysql-user=poweruser  
gmysql-password=root  
  
^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
```

24. restart servis powerdns.

```
padli@ns1: ~  
padli@ns1:~$ sudo /etc/init.d/pdns restart  
* Restarting PowerDNS Authoritative Name Server pdns [ OK ]  
padli@ns1:~$ sudo netstat -tap | grep pdns  
tcp        0      0 *:domain          *:*               LISTEN      3113  
/pdns_server-in  
padli@ns1:~$
```

25. set "nano /etc/powerdns/pdns.conf" izinkan recursor oleh semua ip.

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

# Autogenerated configuration file template
#####
# allow-axfr-ips      If enabled, restrict zonetransfers to originate from these
#                    IP addresses
#
# allow-axfr-ips=

#####
# allow-recursion      List of netmasks that are allowed to recurse
#
allow-recursion=0.0.0.0/0

#####
# allow-recursion-override  Local data even about hosts that don't exist will
#                          override the internet. (on/off)
#
# allow-recursion-override=

^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
```

26. set recursor ke ip google (dns forwarding ke ip google).

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

# receiver-threads=1

#####
# recursive-cache-ttl  Seconds to store packets in the PacketCache
#
# recursive-cache-ttl=10

#####
# recursor      If recursion is desired, IP address of a recursing nameserver
#
recursor=8.8.8.8

#####
# setgid      If set, change group id to this gid for more security
#
setgid=pdns

^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
```

27. restart servis powerdns.

```
padli@ns1: ~  
padli@ns1:~$ sudo /etc/init.d/pdns restart  
* Restarting PowerDNS Authoritative Name Server pdns [ OK ]  
padli@ns1:~$ sudo netstat -tap | grep pdns  
tcp        0      0 *:domain          *:*               LISTEN      3177  
/pdns_server-in  
padli@ns1:~$
```

28. set nameserver ke ip ns1.

```
GNU nano 2.2.6      File: /etc/network/interfaces      Modified  
  
# This file describes the network interfaces available on your system  
# and how to activate them. For more information, see interfaces(5).  
  
# The loopback network interface  
auto lo  
iface lo inet loopback  
  
auto eth0  
iface eth0 inet static  
    address 192.168.100.51  
    netmask 255.255.255.0  
    network 192.168.100.0  
    broadcast 192.168.100.255  
    gateway 192.168.100.1  
    dns-nameserver 192.168.100.51  
  
^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
```

29. restart.

```
padli@ns1: ~  
padli@ns1:~$ sudo reboot
```

30. pastikan ns ke ns1, tes dns forwarding ping ke google.co.id (karena ip google tidak ada di ns1.raisa.net maka di forward ke ns google 8.8.8.8).

```
padli@ns1: ~  
padli@ns1:~$ more /etc/resolv.conf  
# Dynamic resolv.conf(5) file for glibc resolver(3) generated by resolvconf(8)  
#      DO NOT EDIT THIS FILE BY HAND -- YOUR CHANGES WILL BE OVERWRITTEN  
nameserver 192.168.100.51  
padli@ns1:~$ ping google.co.id  
PING google.co.id (173.194.126.88) 56(84) bytes of data.  
64 bytes from kul06s05-in-f24.1e100.net (173.194.126.88): icmp_seq=1 ttl=53 time=116 ms  
64 bytes from kul06s05-in-f24.1e100.net (173.194.126.88): icmp_seq=2 ttl=53 time=104 ms  
64 bytes from kul06s05-in-f24.1e100.net (173.194.126.88): icmp_seq=3 ttl=53 time=181 ms  
64 bytes from kul06s05-in-f24.1e100.net (173.194.126.88): icmp_seq=4 ttl=53 time=316 ms  
64 bytes from kul06s05-in-f24.1e100.net (173.194.126.88): icmp_seq=5 ttl=53 time=364 ms  
^C  
--- google.co.id ping statistics ---  
5 packets transmitted, 5 received, 0% packet loss, time 4005ms  
rtt min/avg/max/mdev = 104.062/216.749/364.745/105.495 ms  
padli@ns1:~$
```

31. 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-xmllrpc php5-mhash php5-mcrypt wget
```

32. install modul pear db (1).

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

33. install modul pear db (2).

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

34. enable modul php5-mcrypt.

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

35. 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
```

36. 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
```

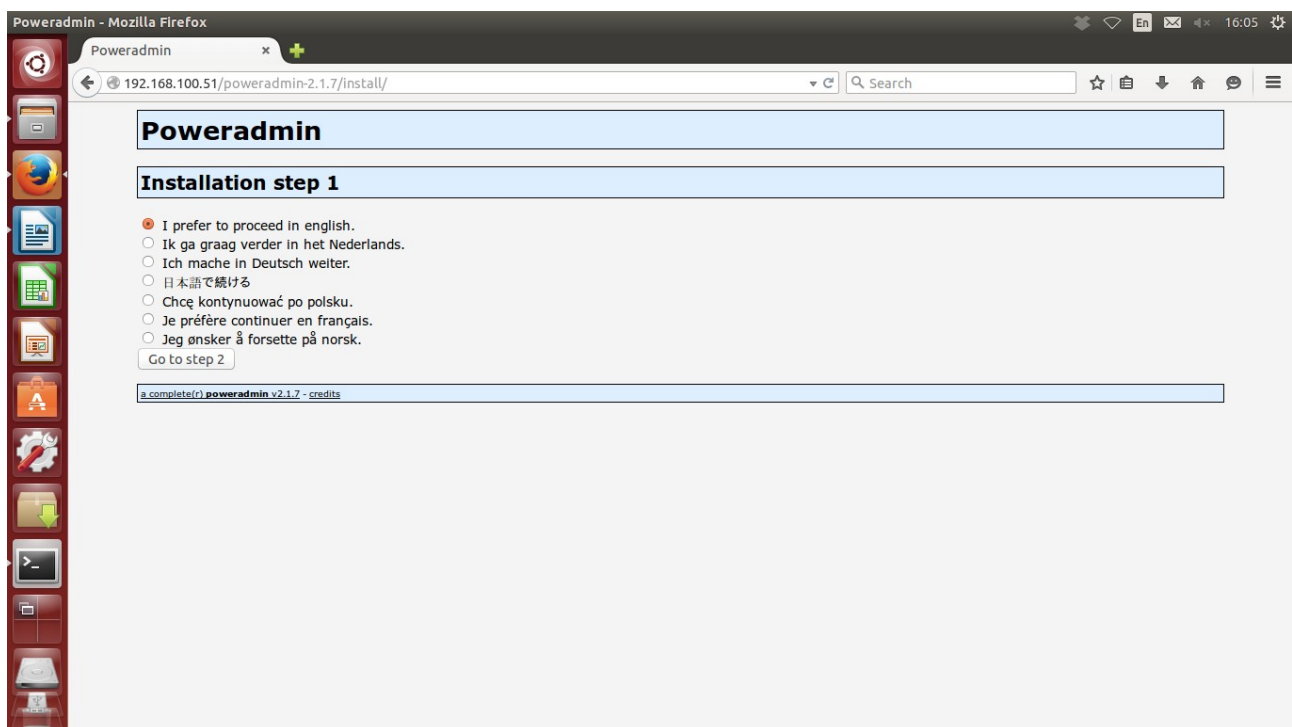
37. extract poweradmin.

```
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
```

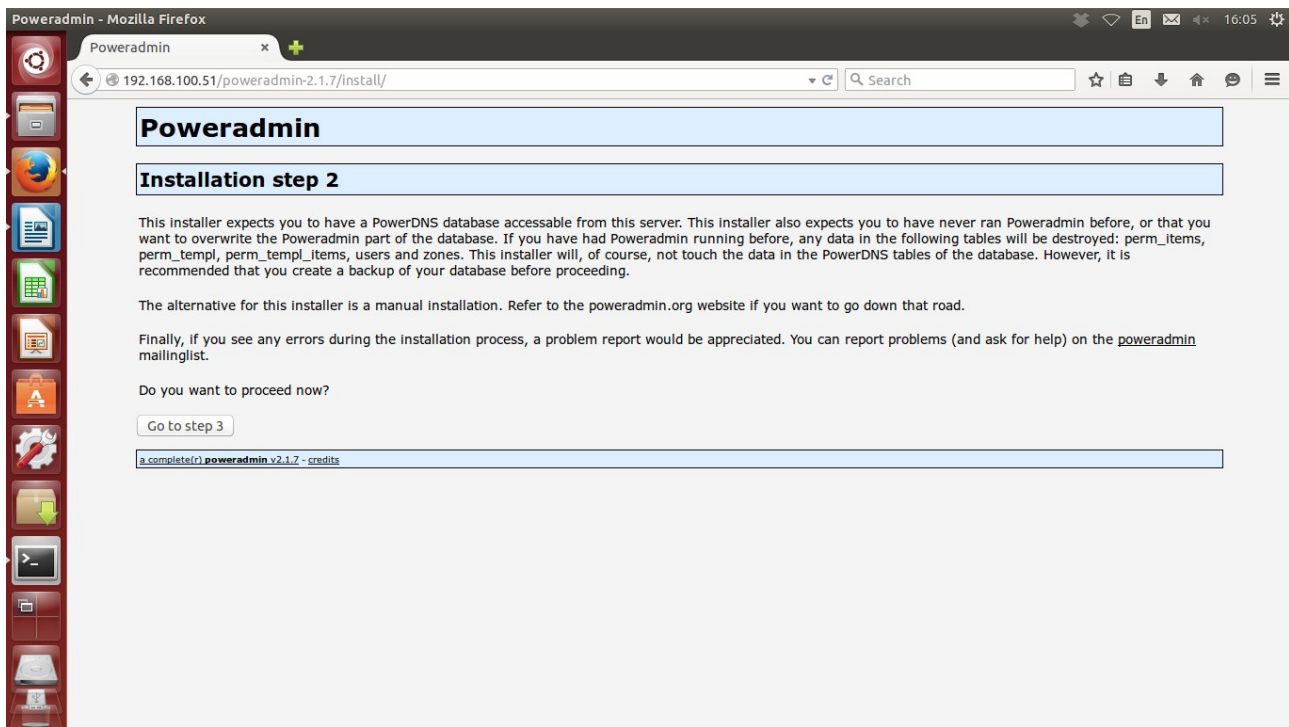
38. ubah kepemilikan dir poweradmin, restart servis apache2.

```
padli@ns1: /var/www/html
padli@ns1:/var/www/html$ ls
poweradmin-2.1.7 poweradmin-2.1.7.tgz
padli@ns1:/var/www/html$ sudo chown -R www-data:www-data /var/www/html/poweradmin-2.1.7
padli@ns1:/var/www/html$ ls -al
total 304
drwxr-xr-x  3 root    root      4096 Agu 19 15:59 .
drwxr-xr-x  3 root    root      4096 Agu 19 15:51 ..
drwxrwxr-x 10 www-data www-data 4096 Jul  5 2014 poweradmin-2.1.7
-rw-r--r--  1 root    root     296469 Jul 10 2014 poweradmin-2.1.7.tgz
padli@ns1:/var/www/html$ sudo /etc/init.d/apache2 restart
* Restarting web server apache2
padli@ns1:/var/www/html$
```

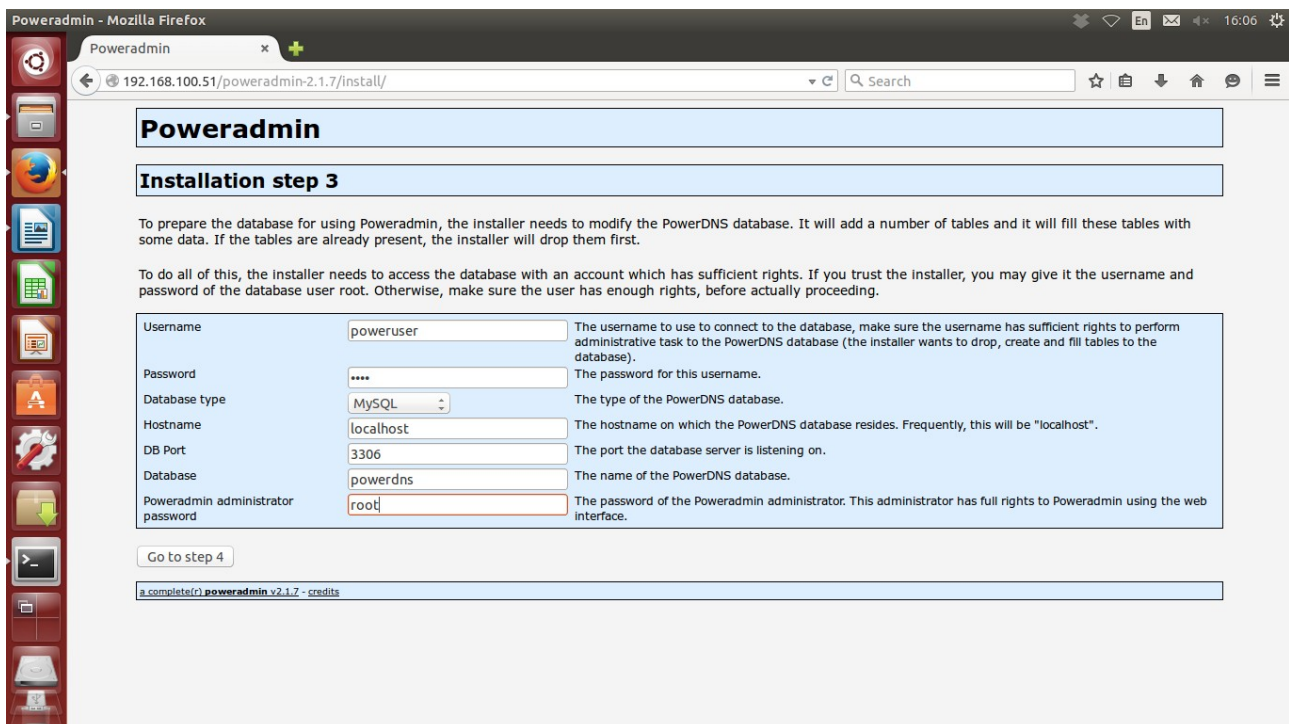
39. login poweradmin [http://ipserver/poweradmin\\$\\$\\$/install](http://ipserver/poweradmin$$$/install), next.



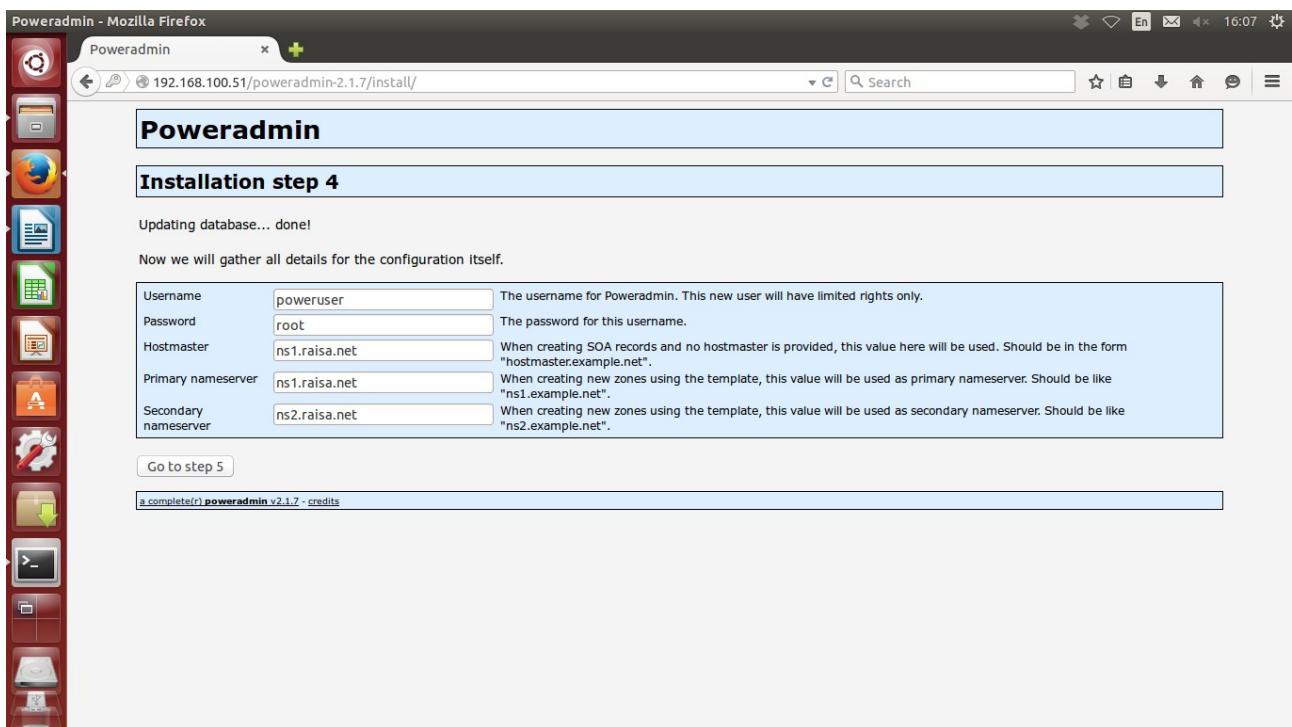
40. next.



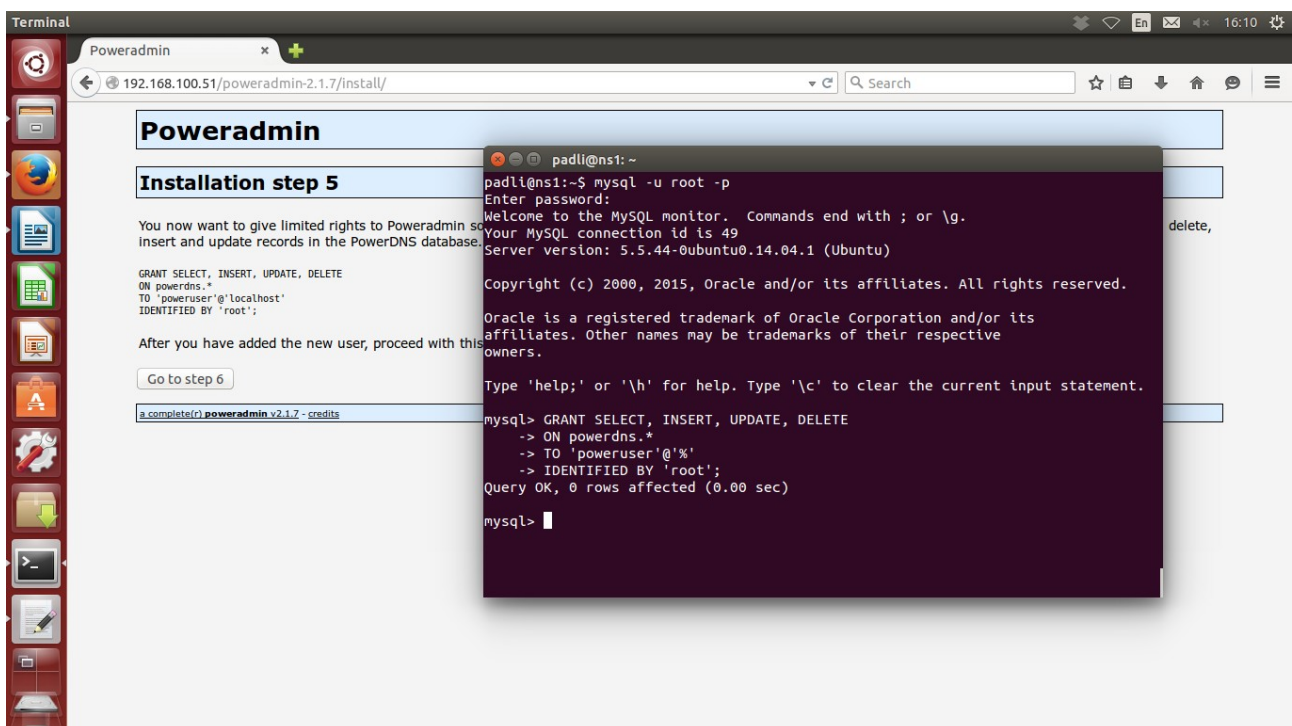
41. isikan config db mysql, sesuaikan dengan config db mysql, next.



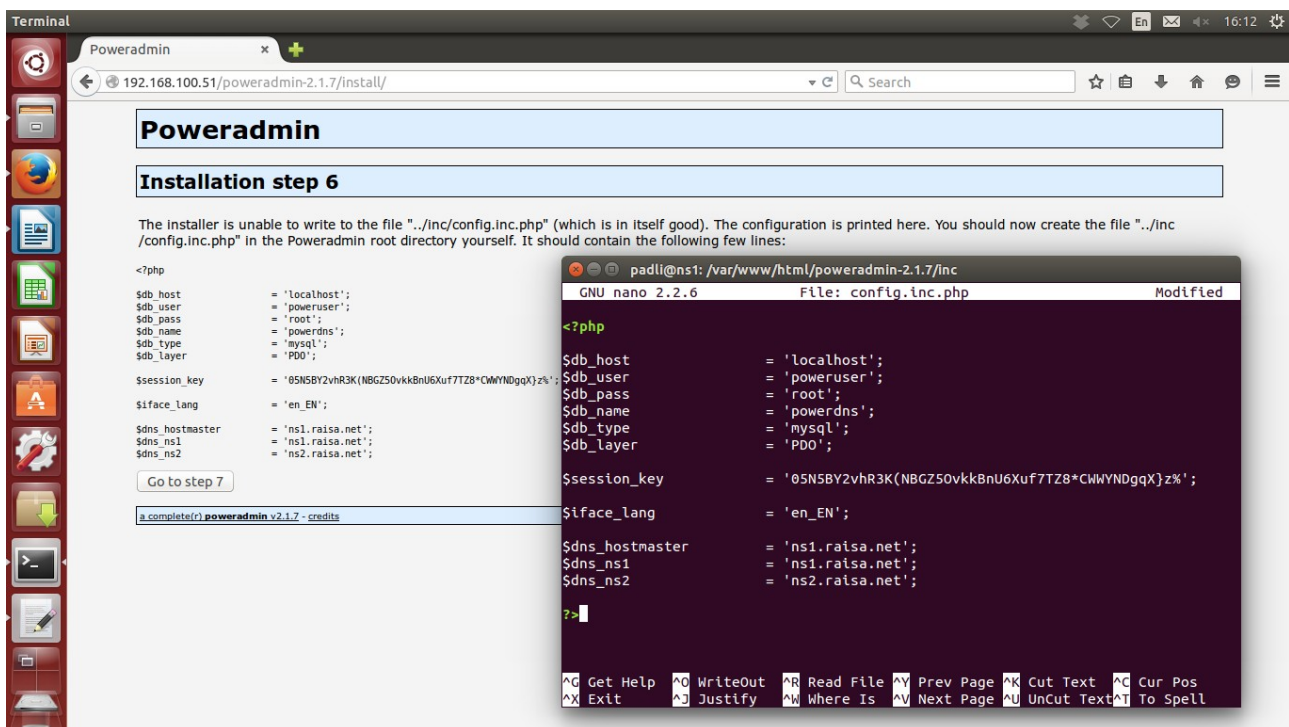
42. config user baru untuk poweradmin.



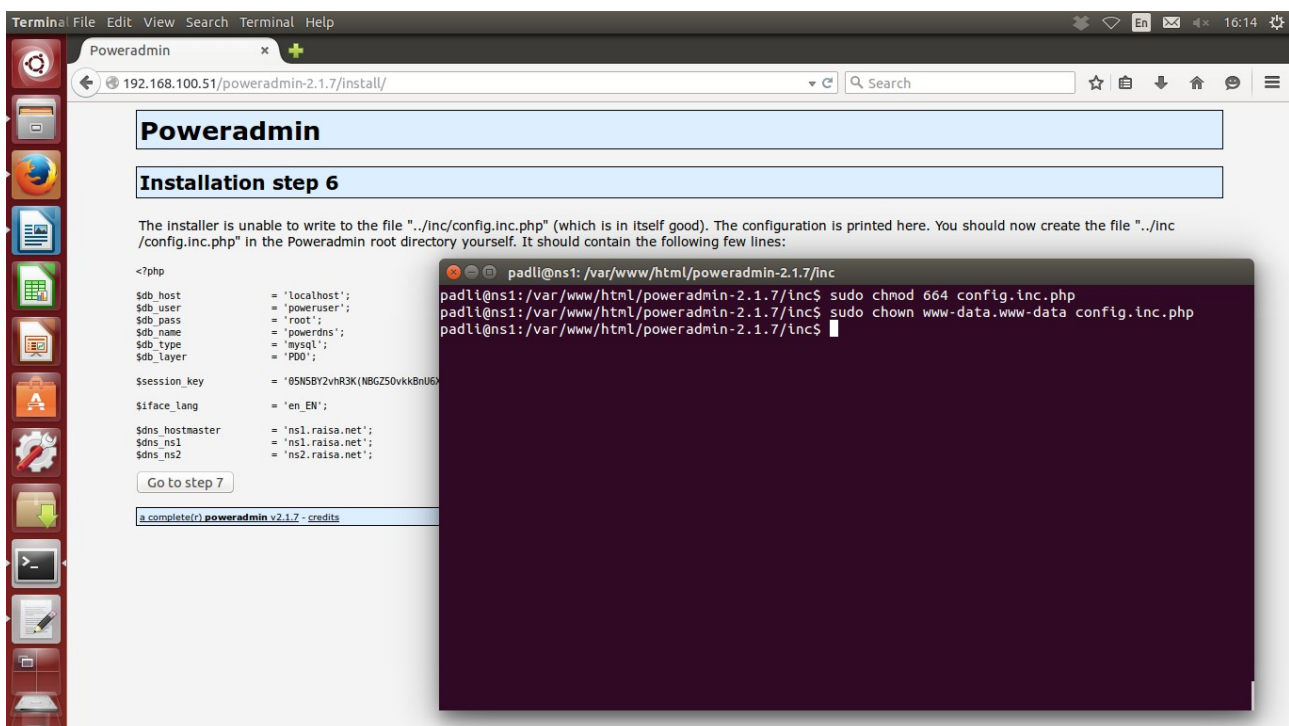
43. ubah 'localhost' ke '%' agar db dapat di akses dari mana saja, next.



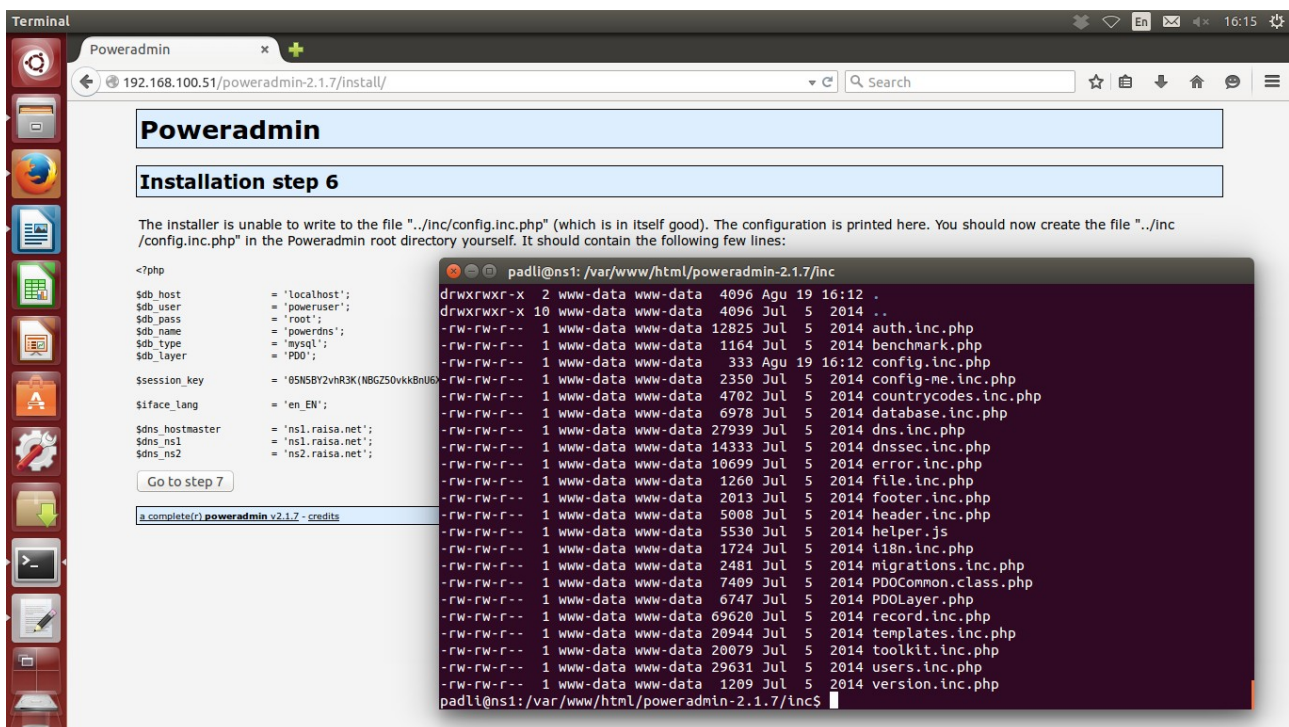
44. copy script ke file /var/www/html/poweradmin\$\$\$/inc/config.inc.php.



45. ubah hak akses & kepemilikan file.



46. cek file, next.



The screenshot shows a web browser window with the URL `192.168.100.51/poweradmin-2.1.7/install/`. The page title is "Poweradmin" and the section is "Installation step 6". The text on the page states: "The installer is unable to write to the file `../inc/config.inc.php` (which is in itself good). The configuration is printed here. You should now create the file `../inc/config.inc.php` in the Poweradmin root directory yourself. It should contain the following few lines:

```
<?php
$db_host      = 'localhost';
$db_user      = 'poweruser';
$db_pass      = 'root';
$db_name      = 'powerdns';
$db_type      = 'mysql';
$db_layer     = 'PDO';

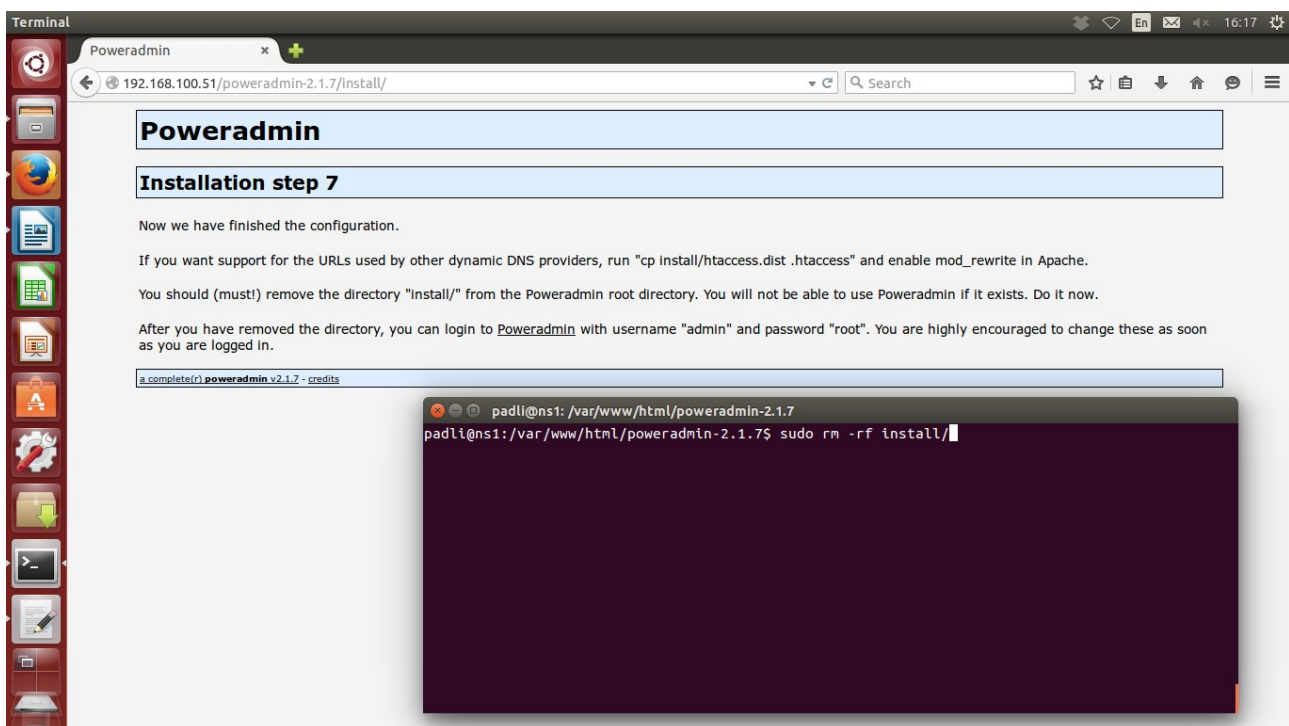
$session_key  = '85N5BY2vR3K(NBG250vkk8nU5';
$iface_lang   = 'en_EN';

$dns_hostmaster = 'ns1.raisa.net';
$dns_ns1        = 'ns1.raisa.net';
$dns_ns2        = 'ns2.raisa.net';
```

Below the configuration is a "Go to step 7" button and a link "a complete(r) poweradmin v2.1.7 - credits".

Overlaid on the browser window is a terminal window showing the output of a file listing command in the directory `/var/www/html/poweradmin-2.1.7/inc`. The output shows a list of files and their permissions, including `auth.inc.php`, `benchmark.php`, `config.inc.php`, `config-me.inc.php`, `countrycodes.inc.php`, `database.inc.php`, `dns.inc.php`, `dnssec.inc.php`, `error.inc.php`, `file.inc.php`, `footer.inc.php`, `header.inc.php`, `helper.js`, `i18n.inc.php`, `migrations.inc.php`, `PDOLayer.php`, `record.inc.php`, `templates.inc.php`, `toolkit.inc.php`, `users.inc.php`, and `version.inc.php`.

47. hapus dir instalasi, login poweradmin.

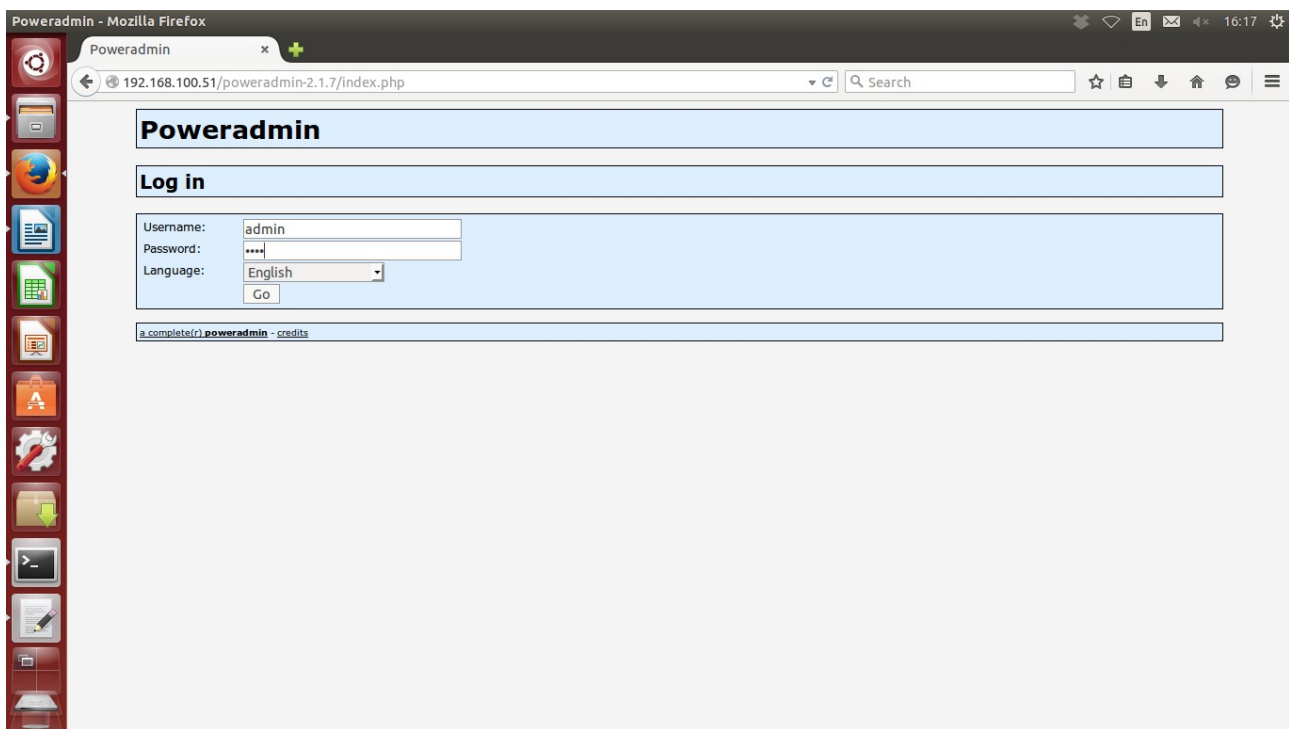


The screenshot shows a web browser window with the URL `192.168.100.51/poweradmin-2.1.7/install/`. The page title is "Poweradmin" and the section is "Installation step 7". The text on the page states: "Now we have finished the configuration. If you want support for the URLs used by other dynamic DNS providers, run `cp install/htaccess.dist .htaccess` and enable `mod_rewrite` in Apache. You should (must!) remove the directory `install/` from the Poweradmin root directory. You will not be able to use Poweradmin if it exists. Do it now. After you have removed the directory, you can login to Poweradmin with username `admin` and password `root`. You are highly encouraged to change these as soon as you are logged in."

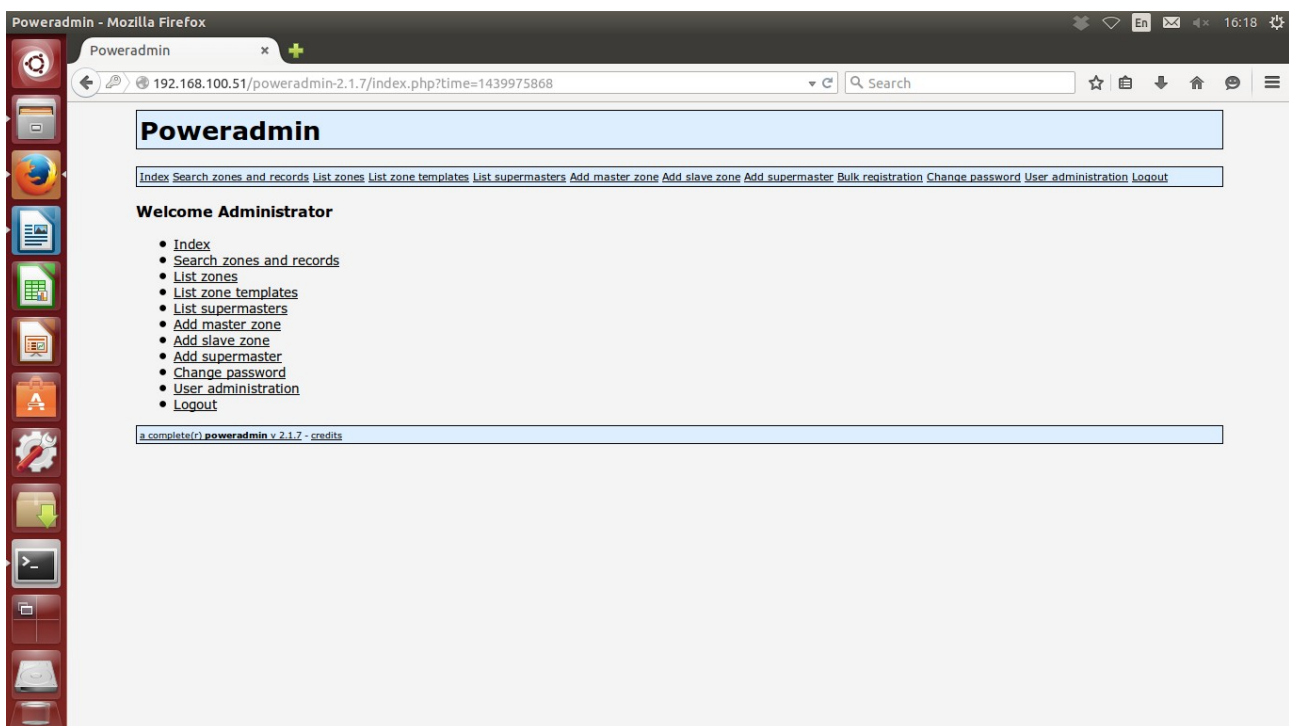
Below the text is a link "a complete(r) poweradmin v2.1.7 - credits".

Overlaid on the browser window is a terminal window showing the command `sudo rm -rf install/` being executed in the directory `/var/www/html/poweradmin-2.1.7`.

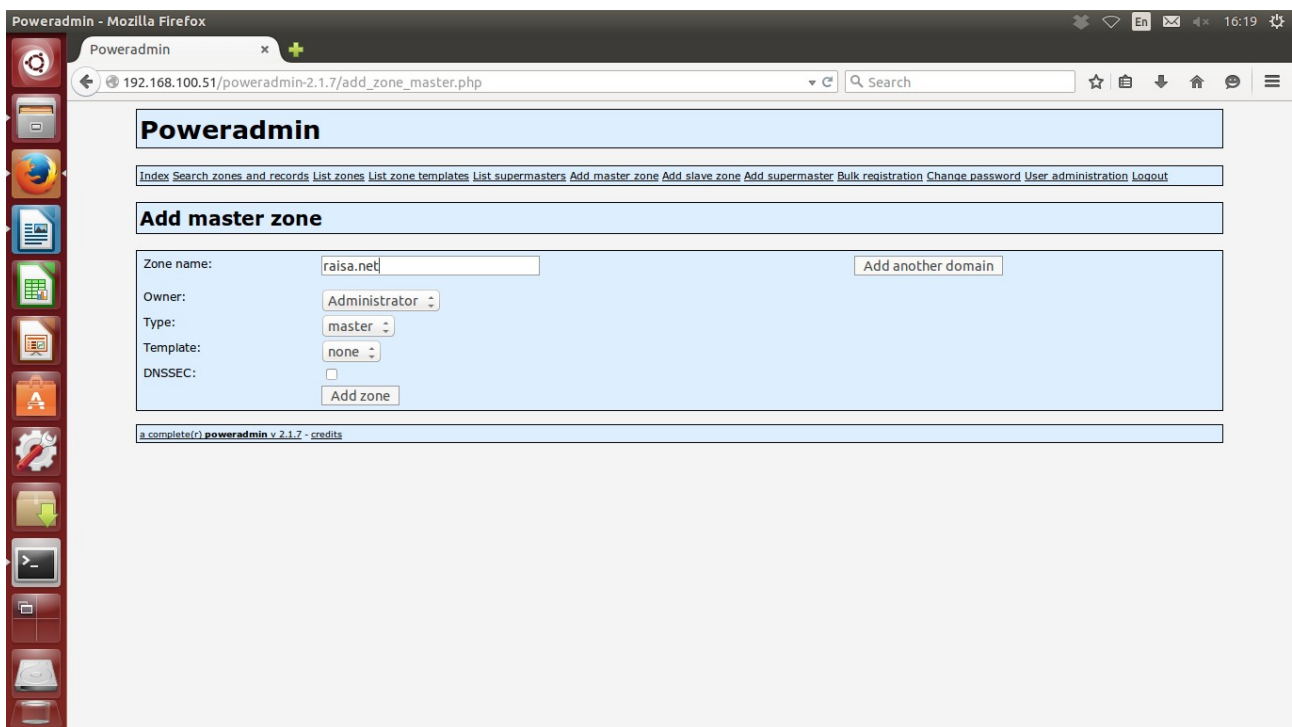
48. login admin & passwd root sesuai config.



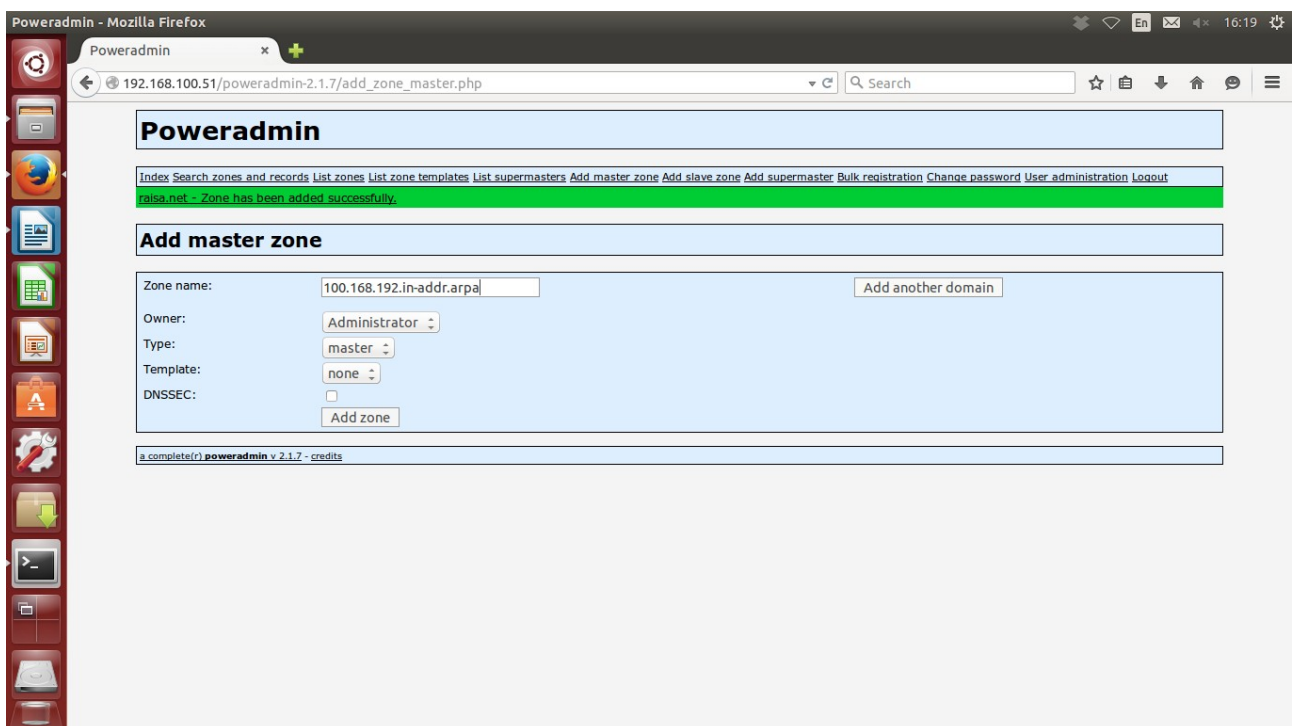
49. halaman index poweradmin.



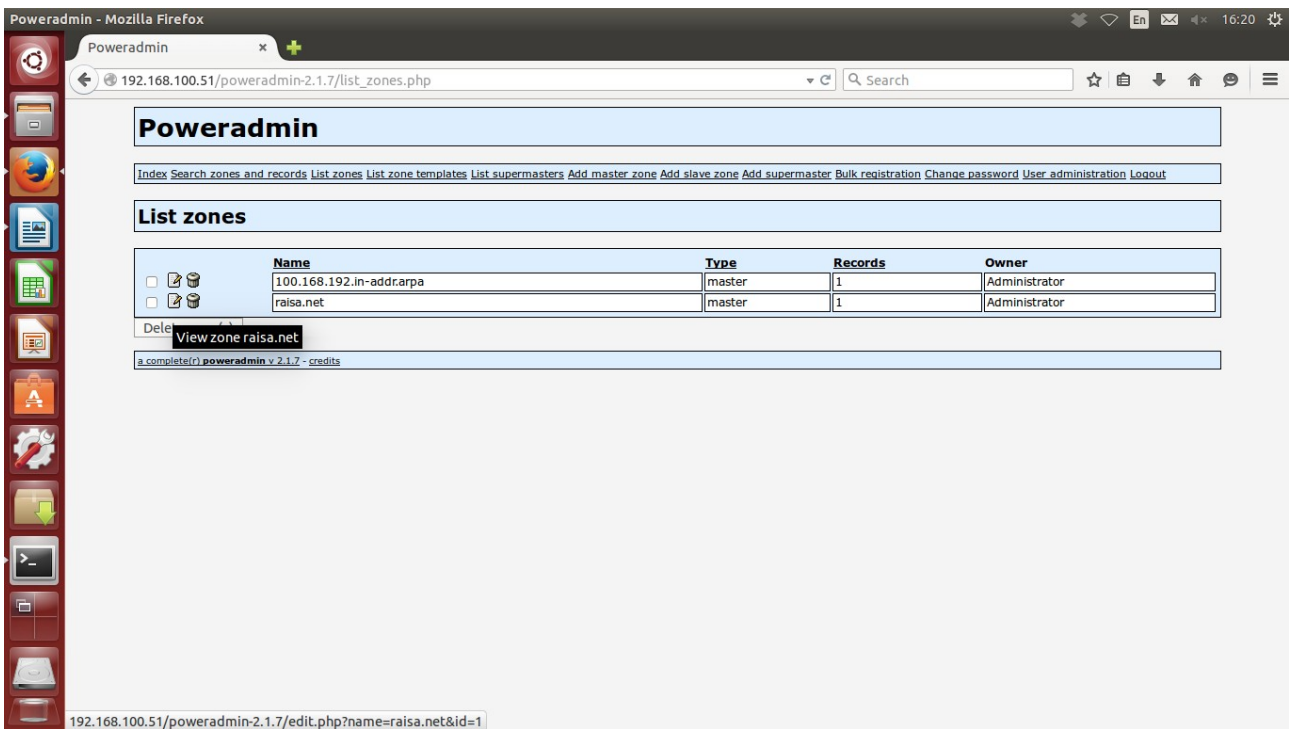
50. tambahkan master zone raisa.net.



51. tambahkan master zone reverse 100.168.192.in-addr.arpa.



52. cek list zones, edit master zone raisa.net.



Poweradmin - Mozilla Firefox

Poweradmin

192.168.100.51/poweradmin-2.1.7/list_zones.php

Poweradmin

[Index](#) [Search zones and records](#) [List zones](#) [List zone templates](#) [List supermasters](#) [Add master zone](#) [Add slave zone](#) [Add supermaster](#) [Bulk registration](#) [Change password](#) [User administration](#) [Logout](#)

List zones

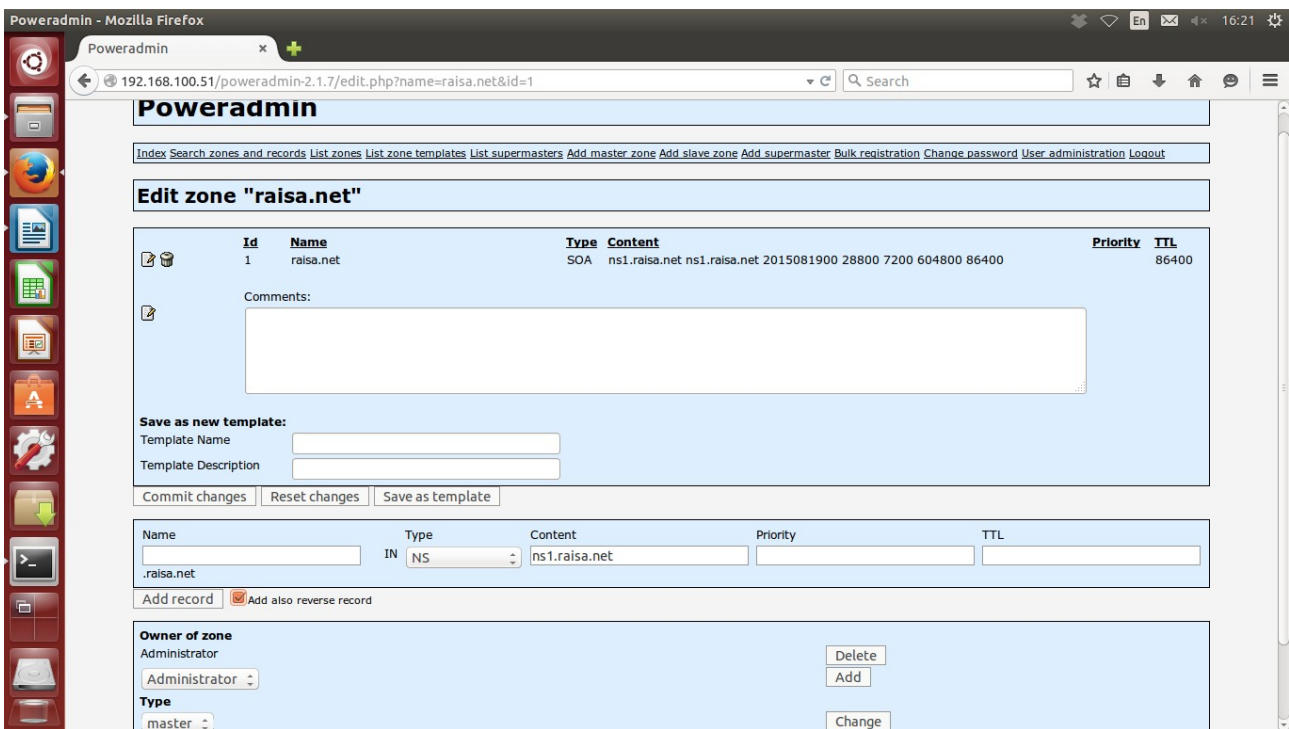
	Name	Type	Records	Owner
☐	100.168.192.in-addr.arpa	master	1	Administrator
☐	raisa.net	master	1	Administrator

[Delete](#) [View zone raisa.net](#)

[a complete\(r\) poweradmin v 2.1.7 - credits](#)

192.168.100.51/poweradmin-2.1.7/edit.php?name=raisa.net&id=1

53. tambahkan record NS (nameserver), ceklist add also reverse record.



Poweradmin - Mozilla Firefox

Poweradmin

192.168.100.51/poweradmin-2.1.7/edit.php?name=raisa.net&id=1

Poweradmin

[Index](#) [Search zones and records](#) [List zones](#) [List zone templates](#) [List supermasters](#) [Add master zone](#) [Add slave zone](#) [Add supermaster](#) [Bulk registration](#) [Change password](#) [User administration](#) [Logout](#)

Edit zone "raisa.net"

	Id	Name	Type	Content	Priority	TTL
☐	1	raisa.net	NS	ns1.raisa.net	2015081900	28800 7200 604800 86400

Comments:

Save as new template:

Template Name:

Template Description:

[Commit changes](#) [Reset changes](#) [Save as template](#)

Name	Type	Content	Priority	TTL
.raisa.net	IN NS	ns1.raisa.net		

[Add record](#) ☒ Add also reverse record

Owner of zone: Administrator [Delete](#) [Add](#)

Type: master [Change](#)

54. tambahkan record A (address).

Poweradmin - Mozilla Firefox

Poweradmin

192.168.100.51/poweradmin-2.1.7/edit.php?id=1

Poweradmin

[Index](#) [Search zones and records](#) [List zones](#) [List zone templates](#) [List supermasters](#) [Add master zone](#) [Add slave zone](#) [Add supermaster](#) [Bulk registration](#) [Change password](#) [User administration](#) [Logout](#)

Edit zone "raisa.net"

	Id	Name	Type	Content	Priority	TTL
	1	raisa.net	SOA	ns1.raisa.net ns1.raisa.net 2015081901 28800 7200 604800 86400		86400
	3	raisa.net	NS	ns1.raisa.net	0	86400

Comments:

Save as new template:
Template Name:
Template Description:

Name	Type	Content	Priority	TTL
ns1	IN	A	192.168.100.51	
.raisa.net				

☒ Add also reverse record

Owner of zone
Administrator
Administrator

55. cek list record master zone raisa.net.

Poweradmin - Mozilla Firefox

Poweradmin

192.168.100.51/poweradmin-2.1.7/edit.php?id=1

Poweradmin

[Index](#) [Search zones and records](#) [List zones](#) [List zone templates](#) [List supermasters](#) [Add master zone](#) [Add slave zone](#) [Add supermaster](#) [Bulk registration](#) [Change password](#) [User administration](#) [Logout](#)

Edit zone "raisa.net"

	Id	Name	Type	Content	Priority	TTL
	1	raisa.net	SOA	ns1.raisa.net ns1.raisa.net 2015081902 28800 7200 604800 86400		86400
	3	raisa.net	NS	ns1.raisa.net	0	86400
	5	ns1.raisa.net	A	192.168.100.51	0	86400

Comments:

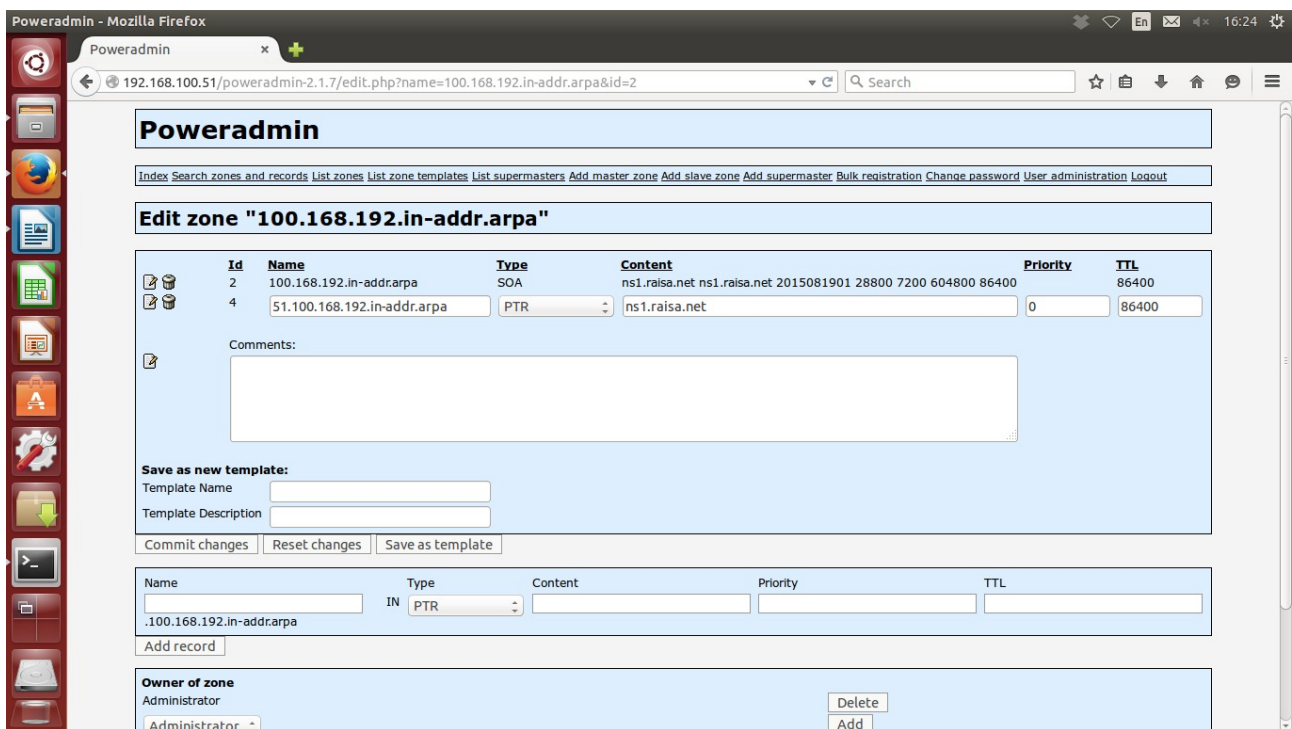
Save as new template:
Template Name:
Template Description:

Name	Type	Content	Priority	TTL
	IN	A		
.raisa.net				

☐ Add also reverse record

Owner of zone
Administrator

56. cek list record master zone reverse.



57. tes ping & lookup domain di mesin ns1.raisa.net.

```
padli@ns1: /
padli@ns1:/$ ping ns1.raisa.net
PING ns1.raisa.net (192.168.100.51) 56(84) bytes of data.
64 bytes from ns1.raisa.net (192.168.100.51): icmp_seq=1 ttl=64 time=0.011 ms
64 bytes from ns1.raisa.net (192.168.100.51): icmp_seq=2 ttl=64 time=0.027 ms
^C
--- ns1.raisa.net ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1000ms
rtt min/avg/max/mdev = 0.011/0.019/0.027/0.008 ms
padli@ns1:/$ nslookup ns1.raisa.net
Server:      192.168.100.51
Address:     192.168.100.51#53

Name:   ns1.raisa.net
Address: 192.168.100.51
padli@ns1:/$
```

58. tes dig domain ns1.raisa.net.

```
padli@ns1: /
padli@ns1:/$ dig ns1.raisa.net

; <<>> DiG 9.9.5-3ubuntu0.4-Ubuntu <<>> ns1.raisa.net
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 48881
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

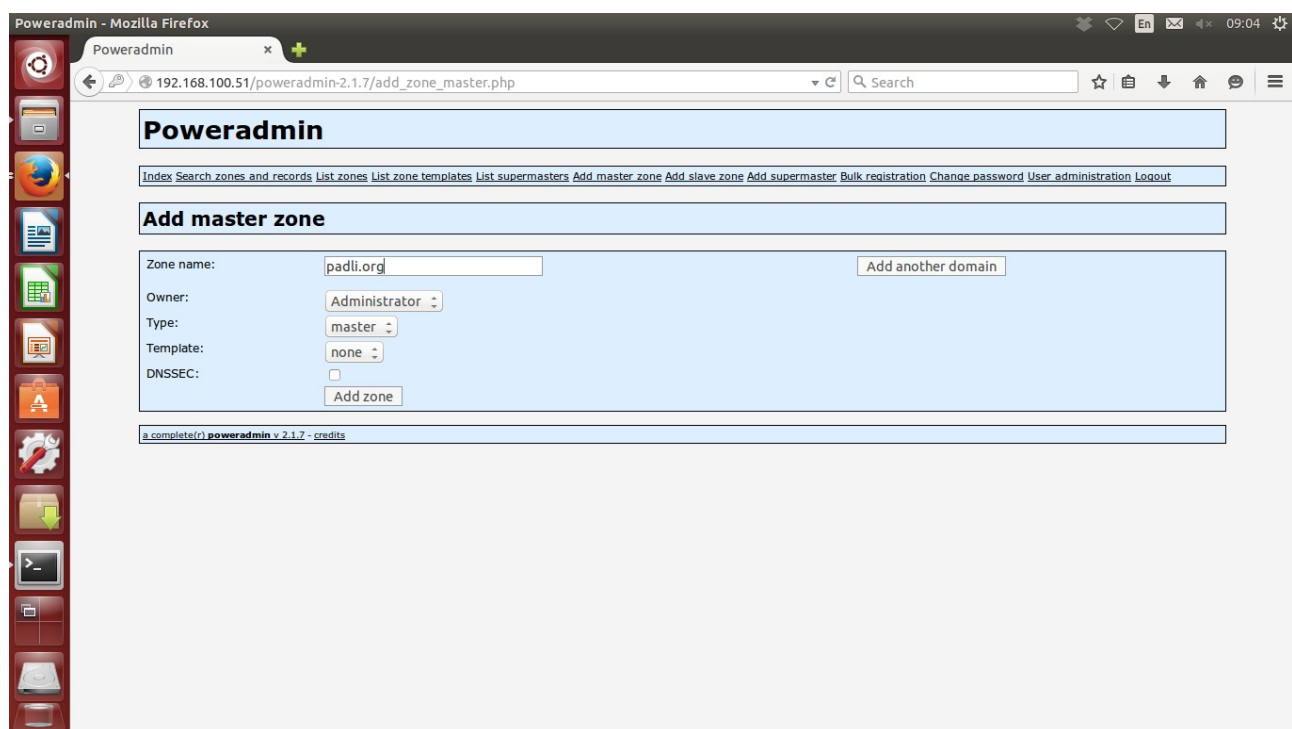
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags::; udp: 2800
;; QUESTION SECTION:
;ns1.raisa.net.                IN      A

;; ANSWER SECTION:
ns1.raisa.net.                86400   IN      A      192.168.100.51

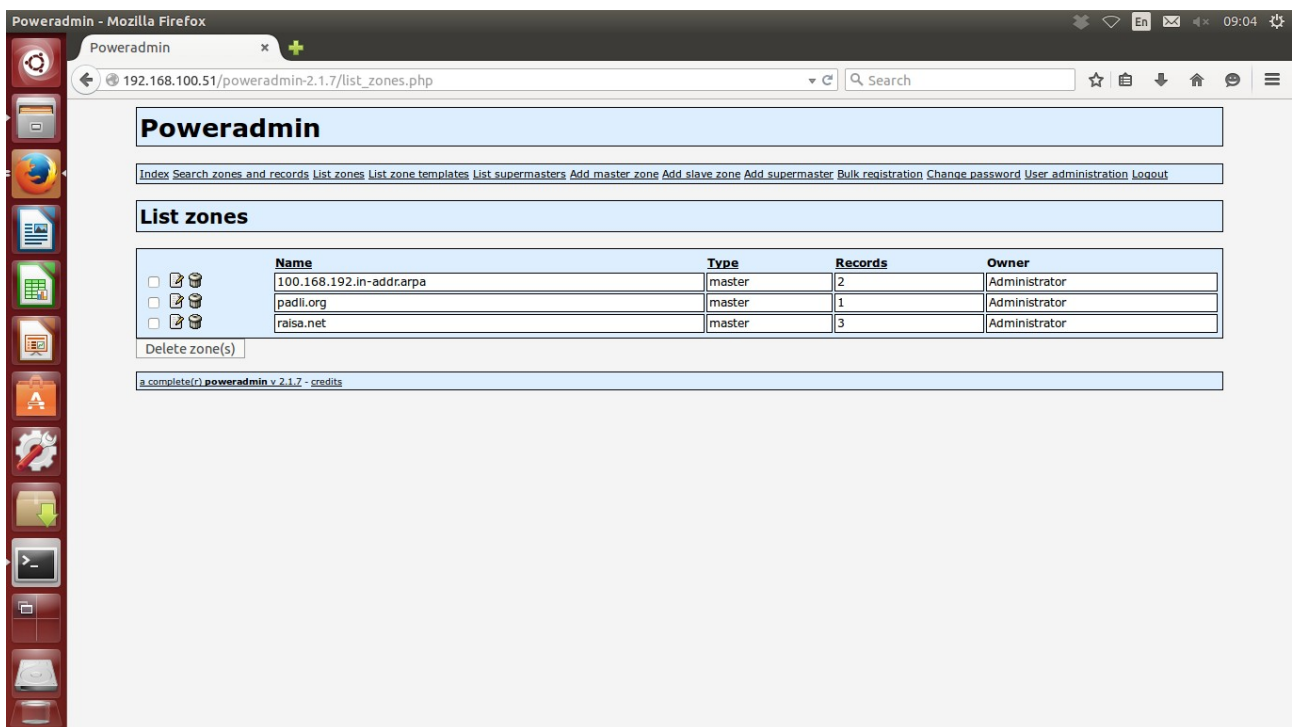
;; Query time: 3 msec
;; SERVER: 192.168.100.51#53(192.168.100.51)
;; WHEN: Wed Aug 19 16:26:36 WIB 2015
;; MSG SIZE rcvd: 58

padli@ns1:/$
```

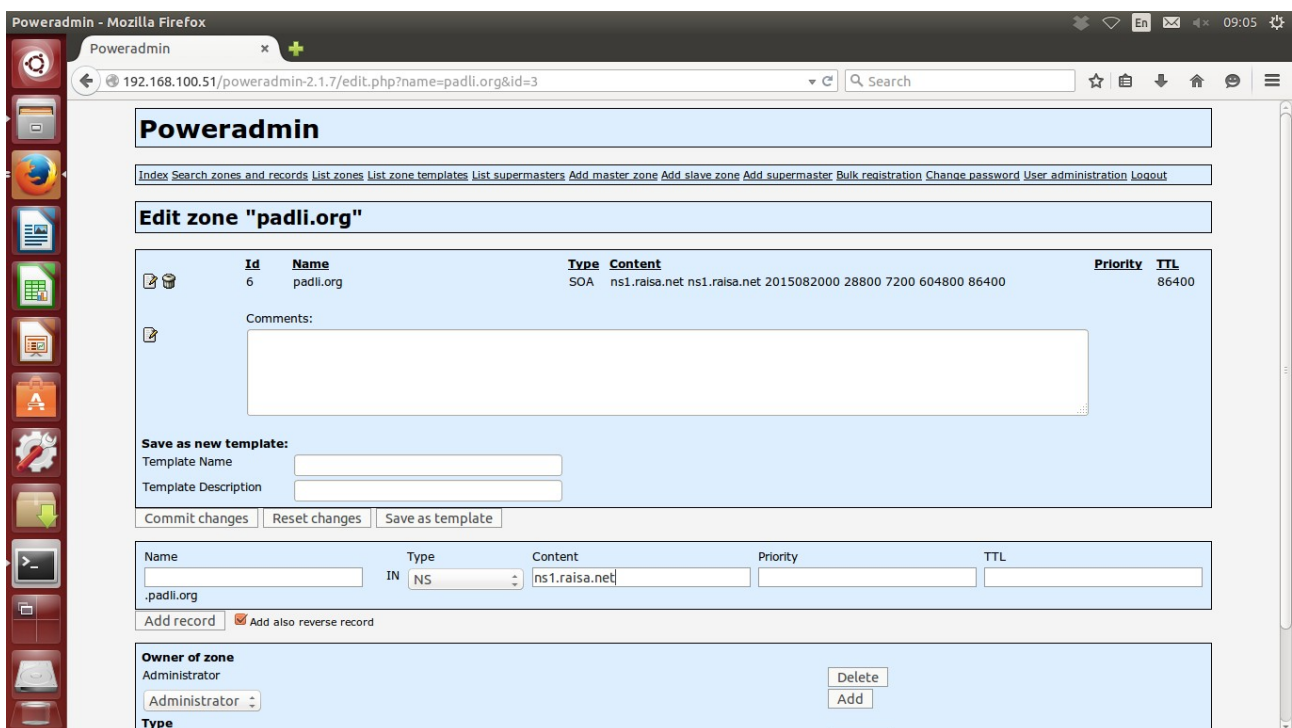
59. tambahkan master zone padli.org.



60. edit record master zone padli.org.



61. tambahkan record NS, cek list add also reverse record.



62. tambahkan record A.

Poweradmin - Mozilla Firefox

Poweradmin

192.168.100.51/poweradmin-2.1.7/edit.php?id=3

Poweradmin

[Index](#) [Search zones and records](#) [List zones](#) [List zone templates](#) [List supermasters](#) [Add master zone](#) [Add slave zone](#) [Add supermaster](#) [Bulk registration](#) [Change password](#) [User administration](#) [Logout](#)

Edit zone "padli.org"

	Id	Name	Type	Content	Priority	TTL
	6	padli.org	SOA	ns1.raisa.net ns1.raisa.net 2015082001 28800 7200 604800 86400		86400
	7	padli.org	NS	ns1.raisa.net	0	86400

Comments:

Save as new template:

Template Name

Template Description

Name	Type	Content	Priority	TTL
www	IN A	192.168.100.7		
padli.org				

☒ Add also reverse record

Owner of zone

Administrator

63. tambahkan record MX (mail exchange).

Poweradmin - Mozilla Firefox

Poweradmin

192.168.100.51/poweradmin-2.1.7/edit.php?id=3

Poweradmin

[Index](#) [Search zones and records](#) [List zones](#) [List zone templates](#) [List supermasters](#) [Add master zone](#) [Add slave zone](#) [Add supermaster](#) [Bulk registration](#) [Change password](#) [User administration](#) [Logout](#)

Edit zone "padli.org"

	Id	Name	Type	Content	Priority	TTL
	6	padli.org	SOA	ns1.raisa.net ns1.raisa.net 2015082002 28800 7200 604800 86400		86400
	7	padli.org	NS	ns1.raisa.net	0	86400
	9	www.padli.org	A	192.168.100.7	0	86400

Comments:

Save as new template:

Template Name

Template Description

Name	Type	Content	Priority	TTL
padli.org	IN MX	mail.padli.org		

☒ Add also reverse record

Owner of zone

Administrator

64. tambahkan record A untuk mail.

Poweradmin - Mozilla Firefox

Poweradmin

192.168.100.51/poweradmin-2.1.7/edit.php?id=3

Poweradmin

[Index](#) [Search zones and records](#) [List zones](#) [List zone templates](#) [List supermasters](#) [Add master zone](#) [Add slave zone](#) [Add supermaster](#) [Bulk registration](#) [Change password](#) [User administration](#) [Logout](#)

Edit zone "padli.org"

	Id	Name	Type	Content	Priority	TTL
	6	padli.org	SOA	ns1.raisa.net ns1.raisa.net 2015082003 28800 7200 604800 86400		86400
	7	padli.org	NS	ns1.raisa.net	0	86400
	10	padli.org	MX	mail.padli.org	10	86400
	9	www.padli.org	A	192.168.100.7	0	86400

Comments:

Save as new template:

Template Name

Template Description

Name	Type	Content	Priority	TTL
mail	IN	A	192.168.100.7	
.padli.org				

☒ Add also reverse record

65. cek list record master zone padli.org.

Poweradmin - Mozilla Firefox

Poweradmin

192.168.100.51/poweradmin-2.1.7/edit.php?id=3

Poweradmin

[Index](#) [Search zones and records](#) [List zones](#) [List zone templates](#) [List supermasters](#) [Add master zone](#) [Add slave zone](#) [Add supermaster](#) [Bulk registration](#) [Change password](#) [User administration](#) [Logout](#)

Edit zone "padli.org"

	Id	Name	Type	Content	Priority	TTL
	6	padli.org	SOA	ns1.raisa.net ns1.raisa.net 2015082004 28800 7200 604800 86400		86400
	7	padli.org	NS	ns1.raisa.net	0	86400
	12	mail.padli.org	A	192.168.100.7	0	86400
	10	padli.org	MX	mail.padli.org	10	86400
	9	www.padli.org	A	192.168.100.7	0	86400

Comments:

Save as new template:

Template Name

Template Description

Name	Type	Content	Priority	TTL
.padli.org	IN	A		

☐ Add also reverse record

66. cek list record master zone reverse.

Poweradmin - Mozilla Firefox

Poweradmin

192.168.100.51/poweradmin-2.1.7/edit.php?name=100.168.192.in-addr.arpa&id=2

Poweradmin

[Index](#) [Search zones and records](#) [List zones](#) [List zone templates](#) [List supermasters](#) [Add master zone](#) [Add slave zone](#) [Add supermaster](#) [Bulk registration](#) [Change password](#) [User administration](#) [Logout](#)

Edit zone "100.168.192.in-addr.arpa"

	Id	Name	Type	Content	Priority	TTL
	2	100.168.192.in-addr.arpa	SOA	ns1.raisa.net ns1.raisa.net 2015082001 28800 7200 604800 86400		86400
	8	7.100.168.192.in-addr.arpa	PTR	www.padli.org	0	86400
	11	7.100.168.192.in-addr.arpa	PTR	mail.padli.org	0	86400
	4	51.100.168.192.in-addr.arpa	PTR	ns1.raisa.net	0	86400

Comments:

Save as new template:

Template Name

Template Description

Name	Type	Content	Priority	TTL
100.168.192.in-addr.arpa	IN PTR			

Owner of zone

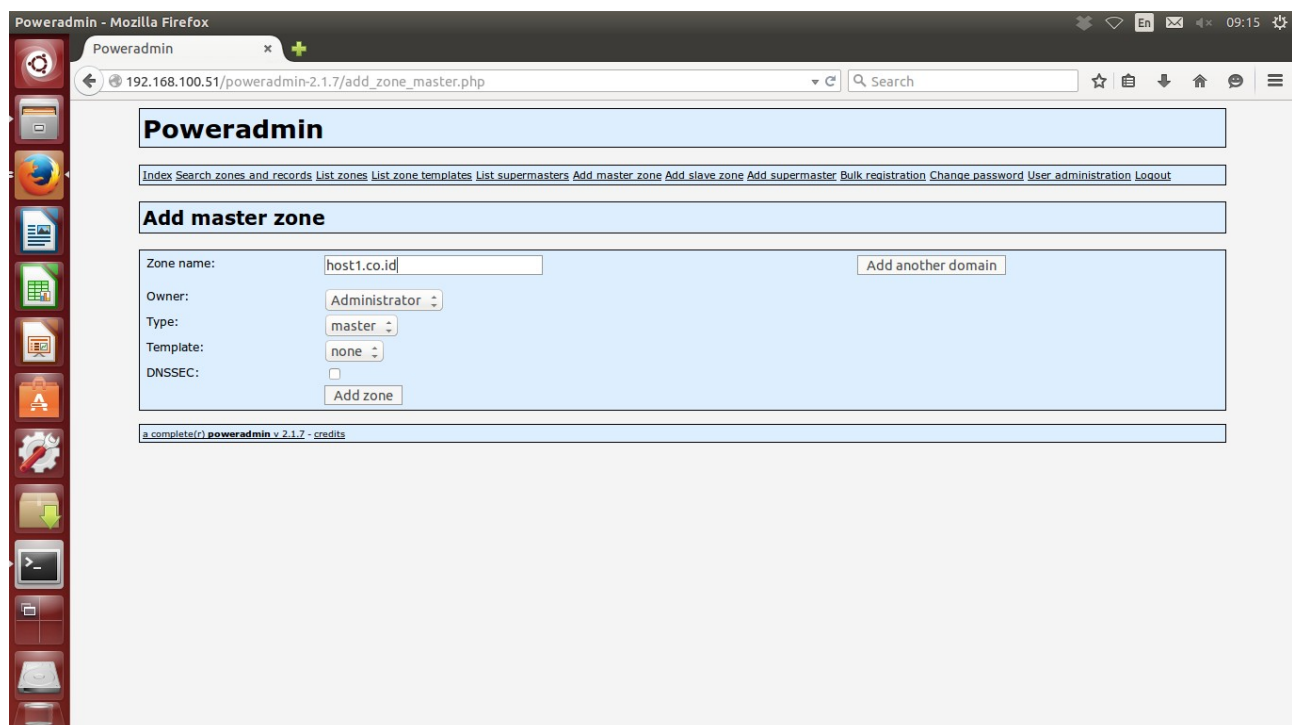
67. tes ping domain www.padli.org & mail.padli.org.

```
padli@ns1: ~
padli@ns1:~$ ping www.padli.org
PING www.padli.org (192.168.100.7) 56(84) bytes of data.
64 bytes from mail.padli.org (192.168.100.7): icmp_seq=1 ttl=64 time=0.371 ms
64 bytes from mail.padli.org (192.168.100.7): icmp_seq=2 ttl=64 time=0.541 ms
^C
--- www.padli.org ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 0.371/0.456/0.541/0.085 ms
padli@ns1:~$ ping mail.padli.org
PING mail.padli.org (192.168.100.7) 56(84) bytes of data.
64 bytes from mail.padli.org (192.168.100.7): icmp_seq=1 ttl=64 time=0.221 ms
64 bytes from mail.padli.org (192.168.100.7): icmp_seq=2 ttl=64 time=0.491 ms
^C
--- mail.padli.org ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 999ms
rtt min/avg/max/mdev = 0.221/0.356/0.491/0.135 ms
padli@ns1:~$
```

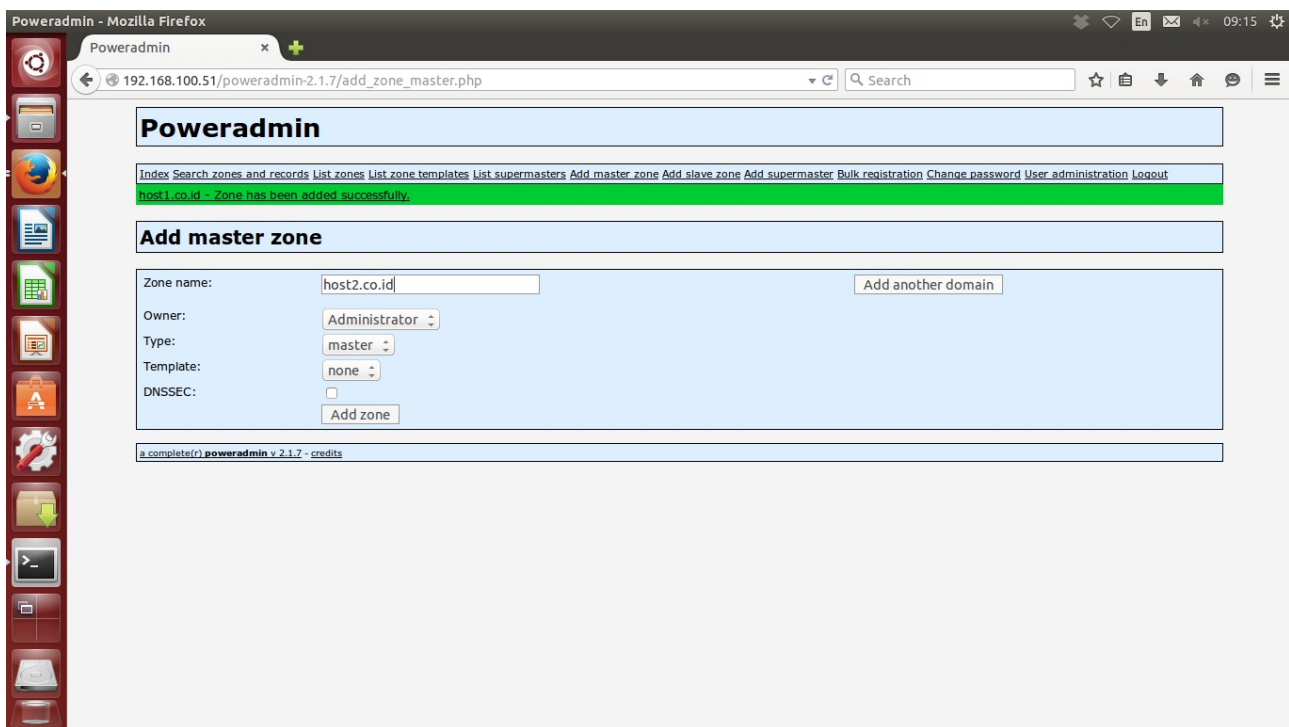
68. tes lookup.

```
padli@ns1: ~  
padli@ns1:~$ nslookup mail.padli.org  
Server:          192.168.100.51  
Address:         192.168.100.51#53  
  
Name:   mail.padli.org  
Address: 192.168.100.7  
  
padli@ns1:~$ nslookup www.padli.org  
Server:          192.168.100.51  
Address:         192.168.100.51#53  
  
Name:   www.padli.org  
Address: 192.168.100.7  
  
padli@ns1:~$ nslookup 192.168.100.7  
Server:          192.168.100.51  
Address:         192.168.100.51#53  
  
7.100.168.192.in-addr.arpa      name = www.padli.org.  
7.100.168.192.in-addr.arpa      name = mail.padli.org.  
  
padli@ns1:~$
```

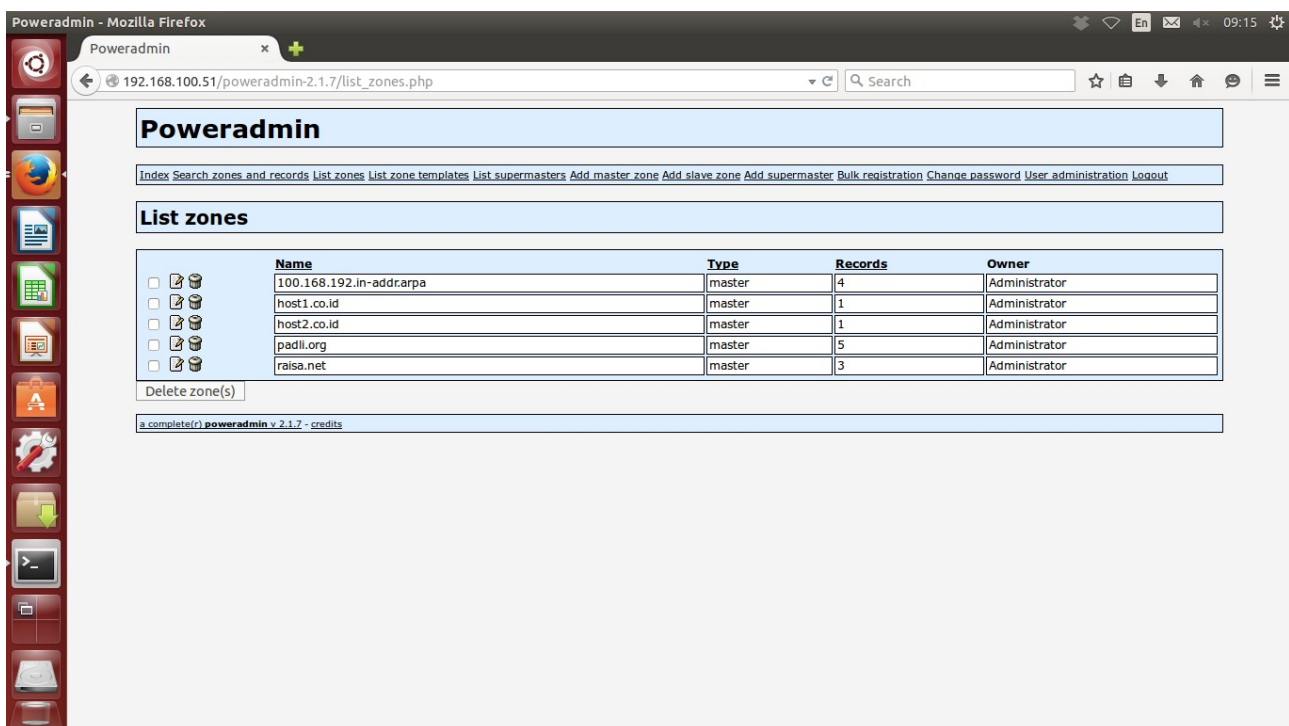
69. tambahkan master zone host1.co.id.



70. tambahkan master zone host2.co.id.



71. edit record master zone host1.co.id.



72. tambahkan record NS dan A pada master zone host1.co.id..

Poweradmin - Mozilla Firefox

Poweradmin

192.168.100.51/poweradmin-2.1.7/edit.php?id=4

Poweradmin

[Index](#) [Search zones and records](#) [List zones](#) [List zone templates](#) [List supermasters](#) [Add master zone](#) [Add slave zone](#) [Add supermaster](#) [Bulk registration](#) [Change password](#) [User administration](#) [Logout](#)

Edit zone "host1.co.id"

Id	Name	Type	Content	Priority	TTL
13	host1.co.id	SOA	ns1.raisa.net ns1.raisa.net 2015082004 28800 7200 604800 86400		86400
16	host1.co.id	NS	ns1.raisa.net	0	86400
18	www.host1.co.id	A	192.168.100.20	0	86400

Comments:

Save as new template:

Template Name:

Template Description:

Name	Type	Content	Priority	TTL
IN	A			
.host1.co.id				

☐ Add also reverse record

Owner of zone: Administrator

73. tambahkan record NS & A pada master zone host2.co.id.

Poweradmin - Mozilla Firefox

Poweradmin

192.168.100.51/poweradmin-2.1.7/edit.php?id=5

Poweradmin

[Index](#) [Search zones and records](#) [List zones](#) [List zone templates](#) [List supermasters](#) [Add master zone](#) [Add slave zone](#) [Add supermaster](#) [Bulk registration](#) [Change password](#) [User administration](#) [Logout](#)

Edit zone "host2.co.id"

Id	Name	Type	Content	Priority	TTL
14	host2.co.id	SOA	ns1.raisa.net ns1.raisa.net 2015082002 28800 7200 604800 86400		86400
19	host2.co.id	NS	ns1.raisa.net	0	86400
21	www.host2.co.id	A	192.168.100.20	0	86400

Comments:

Save as new template:

Template Name:

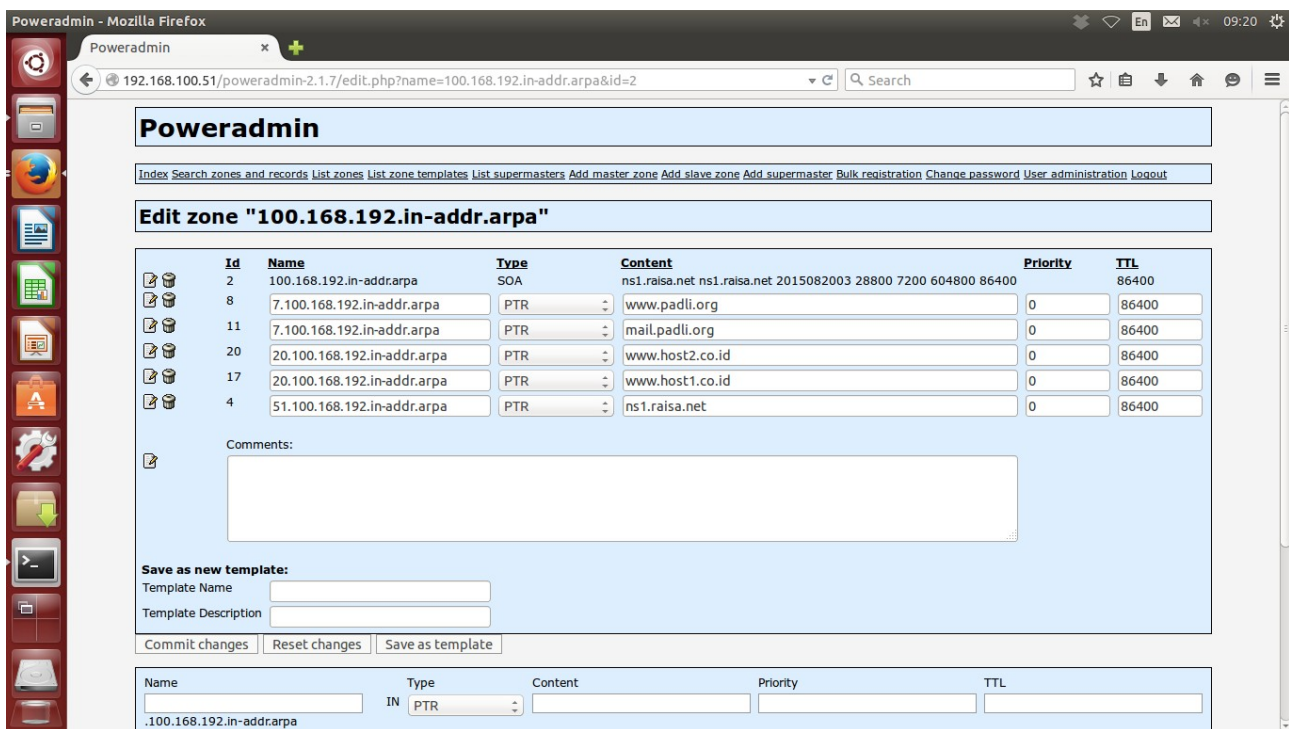
Template Description:

Name	Type	Content	Priority	TTL
IN	A			
.host2.co.id				

☐ Add also reverse record

Owner of zone: Administrator

74. cek list master record reverse.



75. tes lookup.

```
padli@ns1: ~  
padli@ns1:~$ nslookup www.host1.co.id  
Server:          192.168.100.51  
Address:         192.168.100.51#53  
  
Name:   www.host1.co.id  
Address: 192.168.100.20  
  
padli@ns1:~$ nslookup www.host2.co.id  
Server:          192.168.100.51  
Address:         192.168.100.51#53  
  
Name:   www.host2.co.id  
Address: 192.168.100.20  
  
padli@ns1:~$ nslookup 192.168.100.20  
Server:          192.168.100.51  
Address:         192.168.100.51#53  
  
20.100.168.192.in-addr.arpa    name = www.host1.co.id.  
20.100.168.192.in-addr.arpa    name = www.host2.co.id.  
  
padli@ns1:~$
```