

BIND

Note : centOS 7.

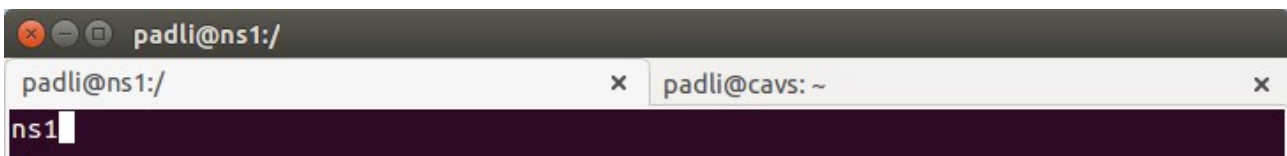
ns1 / 192.168.100.31

ns2 / 192.168.100.32

centos7 / 192.168.100.30

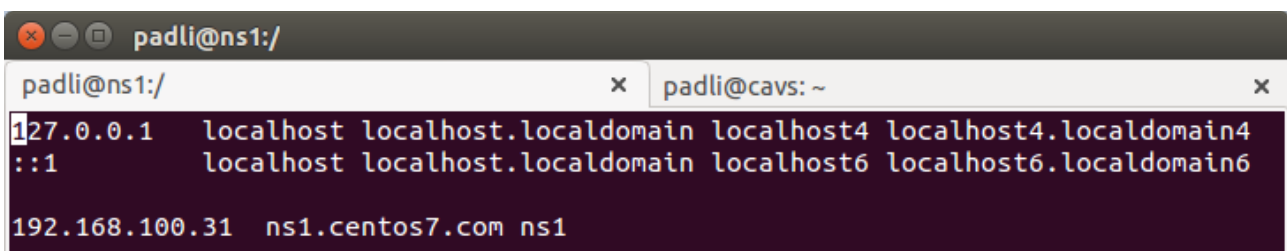
NS1

1. set "vi /etc/hostname".



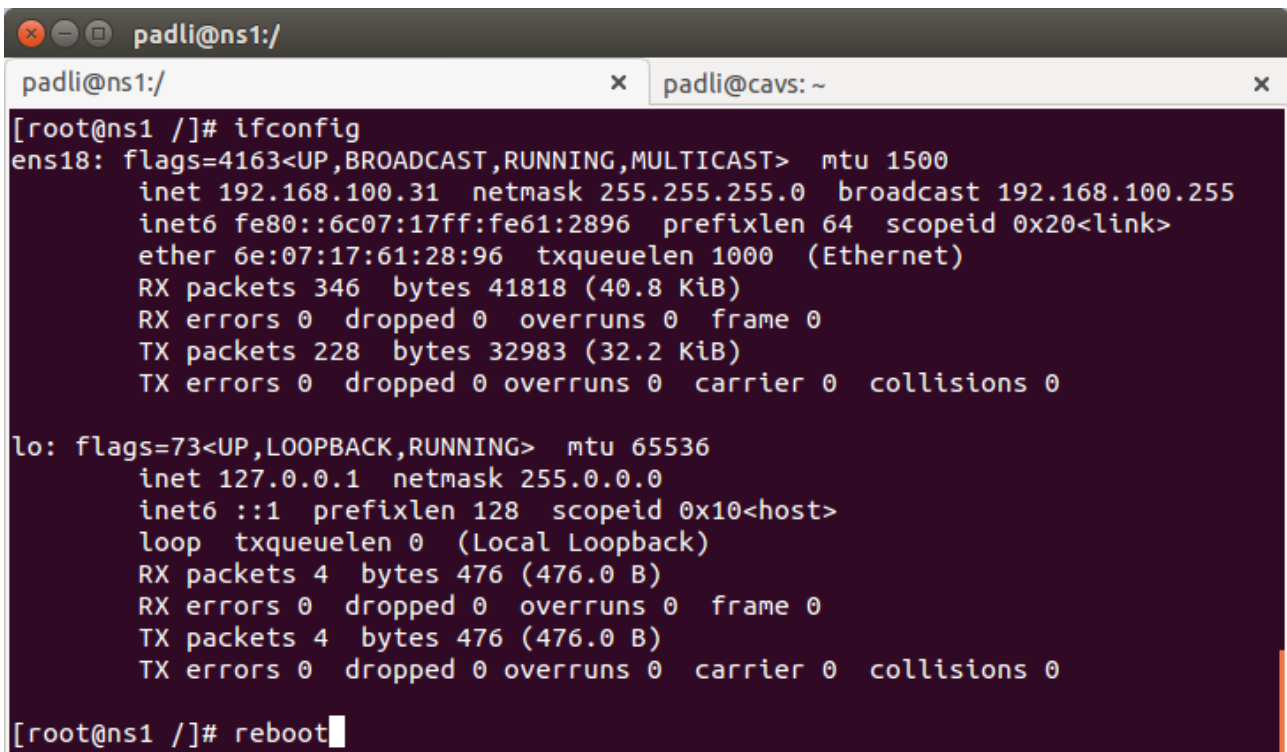
```
padli@ns1:/  
padli@ns1:/ x padli@cavs: ~ x  
ns1
```

2. set "vi /etc/hosts".



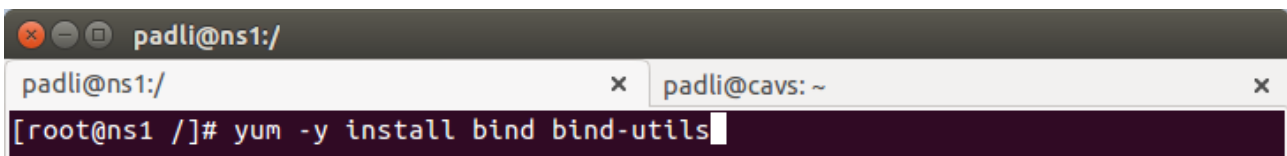
```
padli@ns1:/  
padli@ns1:/ x padli@cavs: ~ x  
127.0.0.1    localhost localhost.localdomain localhost4 localhost4.localdomain4  
::1         localhost localhost.localdomain localhost6 localhost6.localdomain6  
  
192.168.100.31 ns1.centos7.com ns1
```

3. set ip like this.



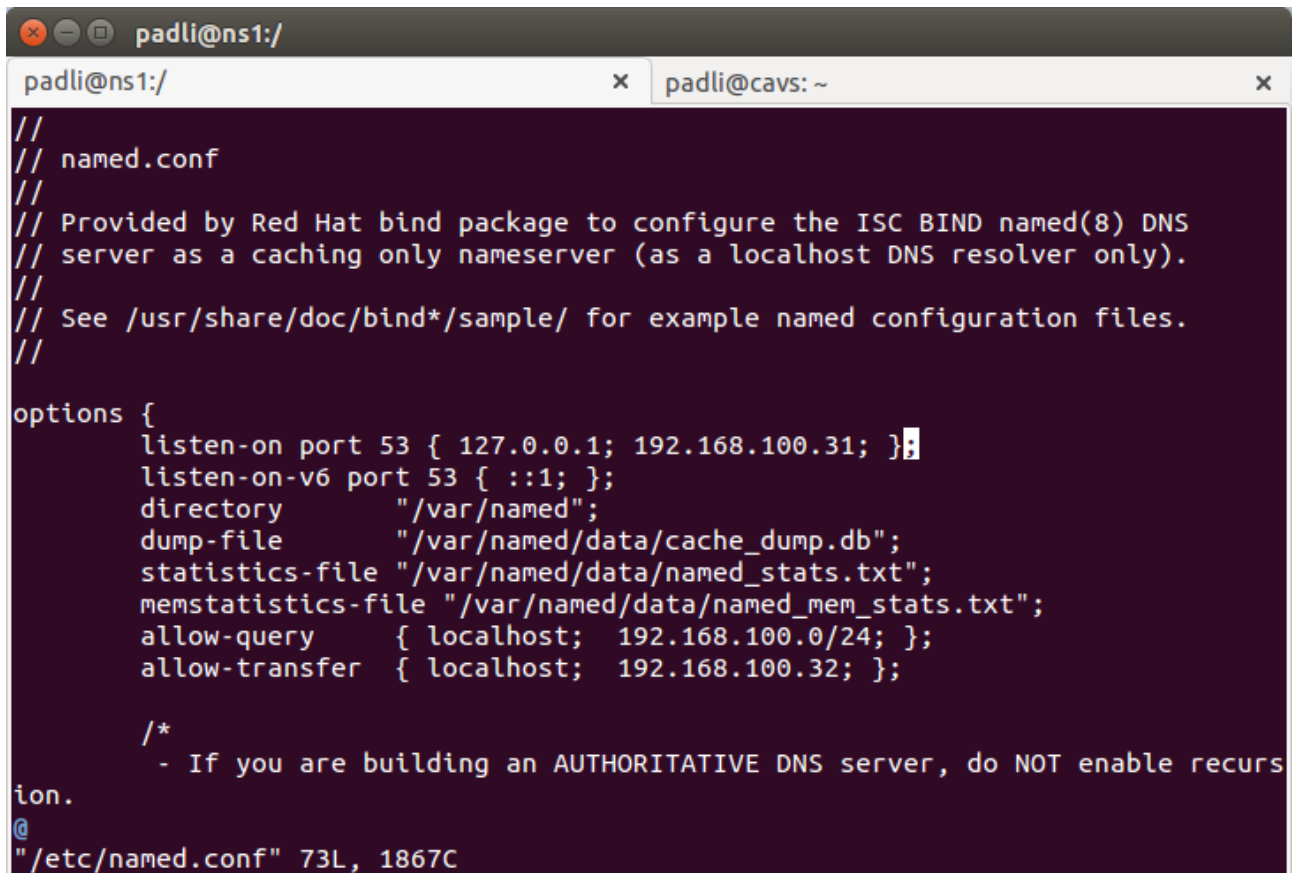
```
padli@ns1:/  
padli@ns1:/ x padli@cavs: ~  
[root@ns1 /]# ifconfig  
ens18: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500  
    inet 192.168.100.31 netmask 255.255.255.0 broadcast 192.168.100.255  
    inet6 fe80::6c07:17ff:fe61:2896 prefixlen 64 scopeid 0x20<link>  
    ether 6e:07:17:61:28:96 txqueuelen 1000 (Ethernet)  
    RX packets 346 bytes 41818 (40.8 KiB)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 228 bytes 32983 (32.2 KiB)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536  
    inet 127.0.0.1 netmask 255.0.0.0  
    inet6 ::1 prefixlen 128 scopeid 0x10<host>  
    loop txqueuelen 0 (Local Loopback)  
    RX packets 4 bytes 476 (476.0 B)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 4 bytes 476 (476.0 B)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
[root@ns1 /]# reboot
```

4. install bind.



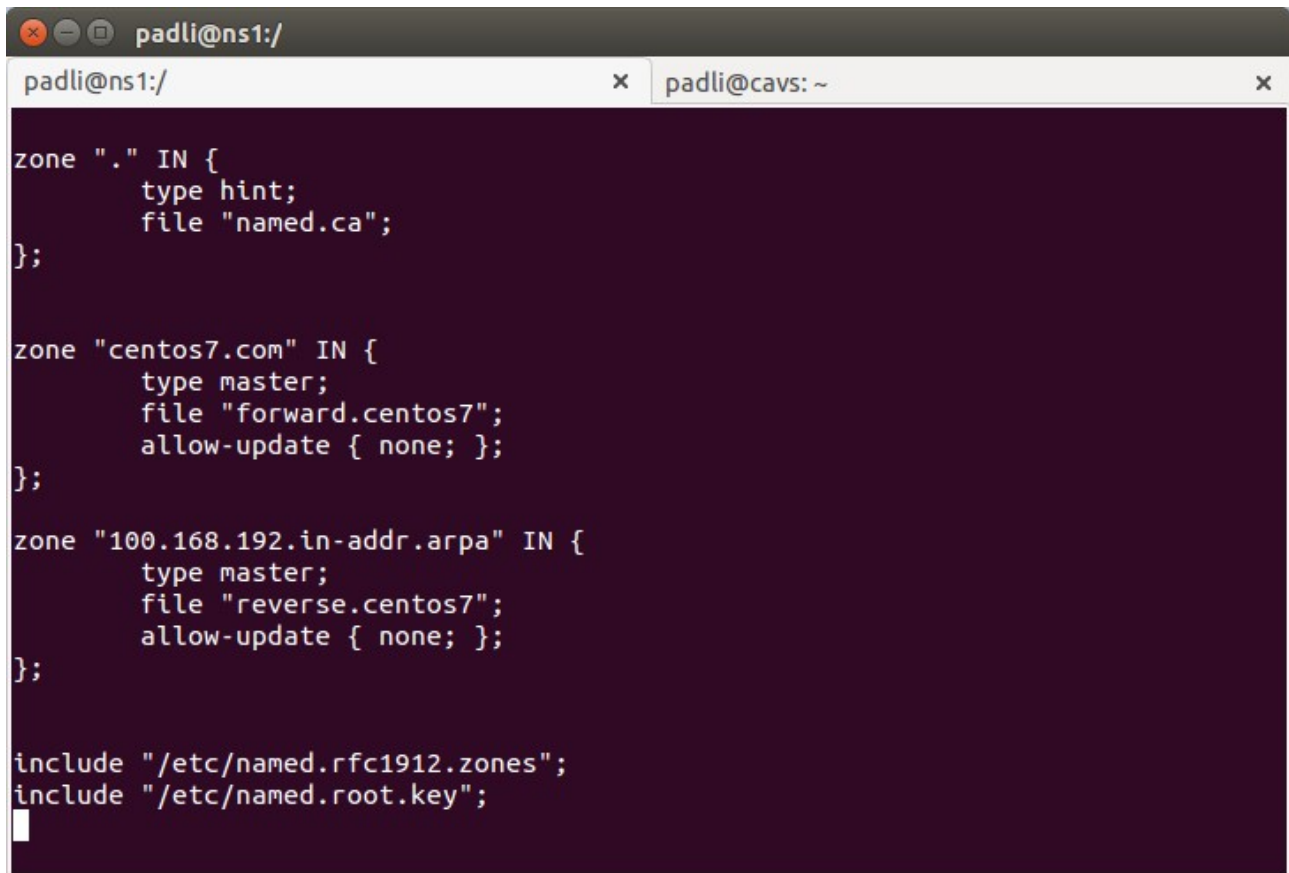
```
padli@ns1:/  
padli@ns1:/ x padli@cavs: ~  
[root@ns1 /]# yum -y install bind bind-utils
```

5. set "vi /etc/named.conf" (1).

A terminal window with a dark background and light text. The window title bar shows 'padli@ns1:/'. The terminal content displays the configuration for the ISC BIND named(8) DNS server. It includes comments about the package and a reference to sample files. The 'options' block is expanded, showing settings for listening on ports 53 and 53 over IPv6, the directory path, dump and statistics files, and query/transfer permissions. A comment at the bottom explains that recursion should not be enabled for authoritative servers. The cursor is at the end of the 'allow-transfer' line.

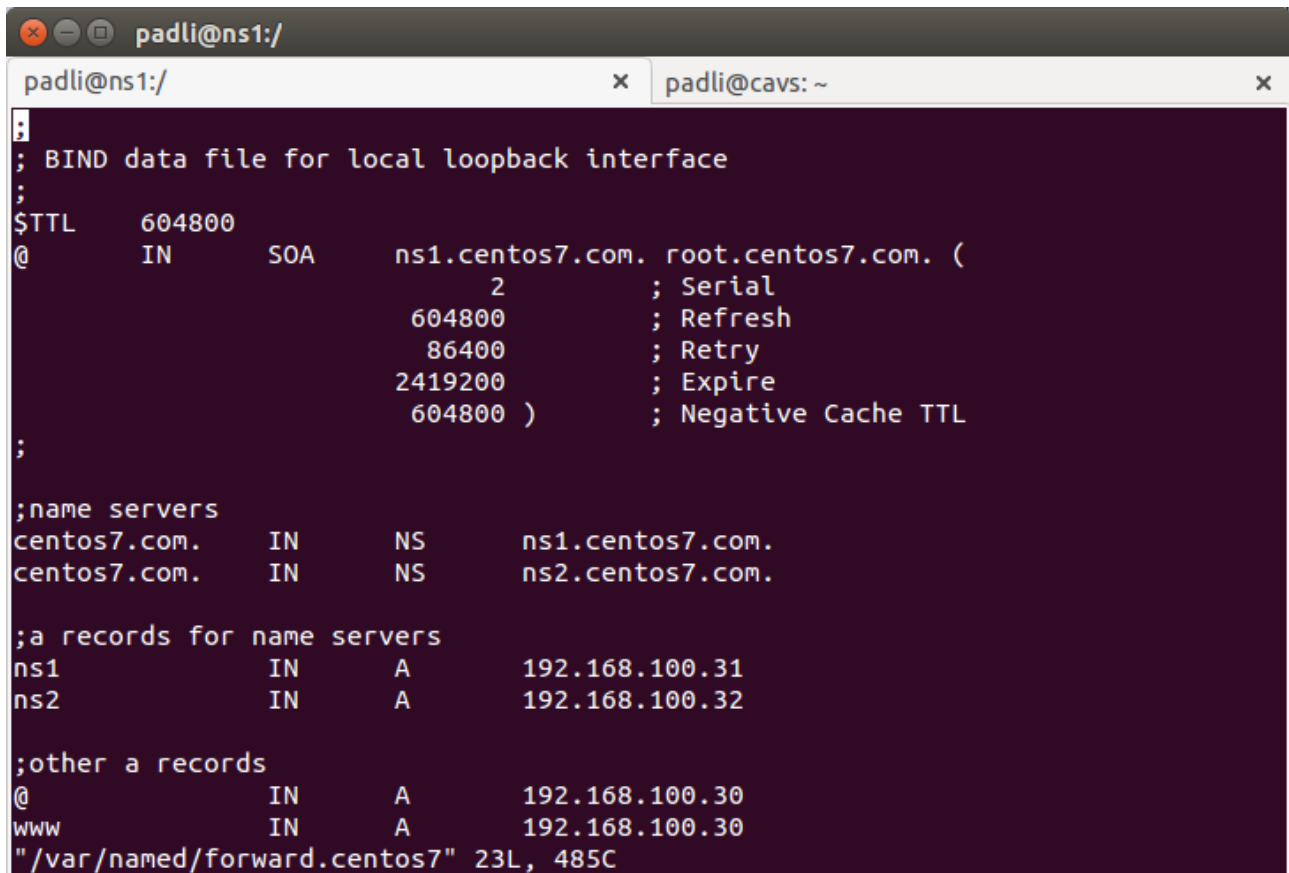
```
padli@ns1:/  
padli@ns1:/ x padli@cavs: ~ x  
//  
// named.conf  
//  
// Provided by Red Hat bind package to configure the ISC BIND named(8) DNS  
// server as a caching only nameserver (as a localhost DNS resolver only).  
//  
// See /usr/share/doc/bind*/sample/ for example named configuration files.  
//  
options {  
    listen-on port 53 { 127.0.0.1; 192.168.100.31; };  
    listen-on-v6 port 53 { ::1; };  
    directory "/var/named";  
    dump-file "/var/named/data/cache_dump.db";  
    statistics-file "/var/named/data/named_stats.txt";  
    memstatistics-file "/var/named/data/named_mem_stats.txt";  
    allow-query { localhost; 192.168.100.0/24; };  
    allow-transfer { localhost; 192.168.100.32; };  
  
    /*  
    - If you are building an AUTHORITATIVE DNS server, do NOT enable recurs  
ion.  
@  
"/etc/named.conf" 73L, 1867C
```

6. set "vi /etc/named.conf" (2).

A terminal window with a dark purple background and white text. The window title bar shows 'padli@ns1:/' and 'padli@cavs: ~'. The terminal content shows the configuration of the named.conf file, including zone definitions for the root, centos7.com, and reverse lookup, and include statements for RFC1912 zones and the root key.

```
padli@ns1:/  
zone "." IN {  
    type hint;  
    file "named.ca";  
};  
  
zone "centos7.com" IN {  
    type master;  
    file "forward.centos7";  
    allow-update { none; };  
};  
  
zone "100.168.192.in-addr.arpa" IN {  
    type master;  
    file "reverse.centos7";  
    allow-update { none; };  
};  
  
include "/etc/named.rfc1912.zones";  
include "/etc/named.root.key";  
█
```

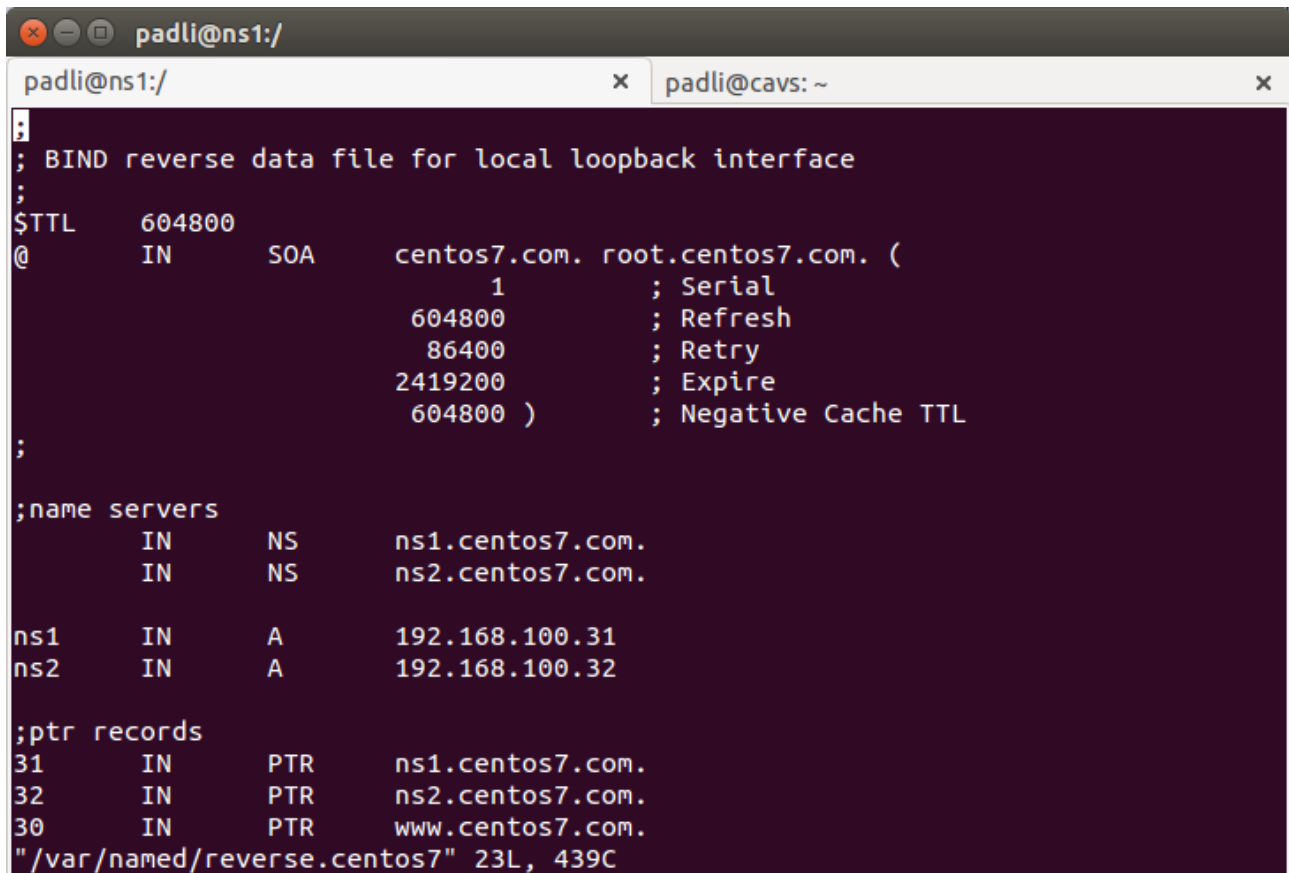
7. set "vi /var/named/forward.centos7".



A terminal window titled 'padli@ns1:/'. The window contains a BIND configuration file for 'forward.centos7'. The configuration includes a \$TTL of 604800, SOA records for ns1.centos7.com, name servers for centos7.com, and A records for ns1, ns2, and www. The file path is '/var/named/forward.centos7' with 23 lines and 485 characters.

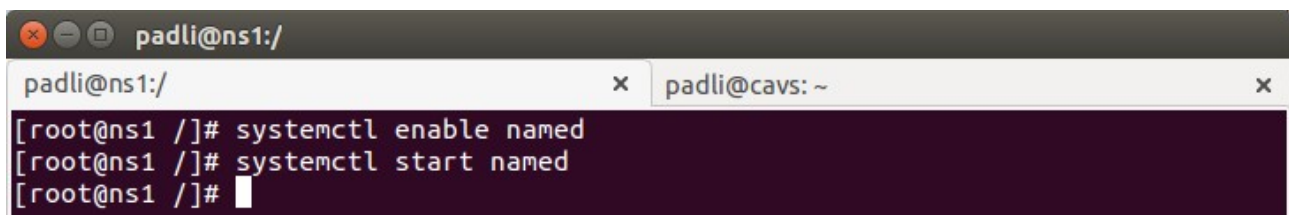
```
padli@ns1:/  
; BIND data file for local loopback interface  
;  
$TTL      604800  
@         IN      SOA      ns1.centos7.com. root.centos7.com. (  
                                2          ; Serial  
                                604800     ; Refresh  
                                86400      ; Retry  
                                2419200    ; Expire  
                                604800 )   ; Negative Cache TTL  
;  
;name servers  
centos7.com.      IN      NS      ns1.centos7.com.  
centos7.com.      IN      NS      ns2.centos7.com.  
;a records for name servers  
ns1               IN      A       192.168.100.31  
ns2               IN      A       192.168.100.32  
;other a records  
@                 IN      A       192.168.100.30  
www               IN      A       192.168.100.30  
"/var/named/forward.centos7" 23L, 485C
```

8. set "vi /var/named/reverse.centos7".



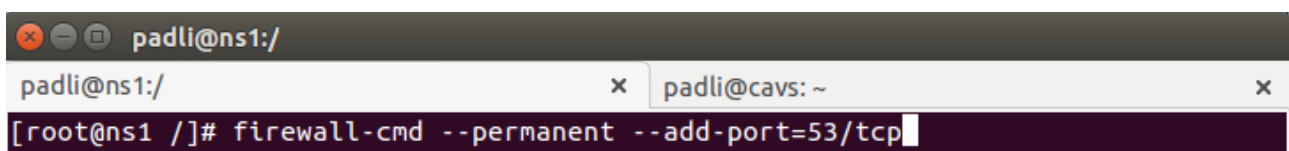
```
padli@ns1:/  
; BIND reverse data file for local loopback interface  
;  
$TTL      604800  
@         IN      SOA      centos7.com. root.centos7.com. (  
            1          ; Serial  
            604800     ; Refresh  
            86400     ; Retry  
            2419200    ; Expire  
            604800 )    ; Negative Cache TTL  
;  
;name servers  
            IN      NS      ns1.centos7.com.  
            IN      NS      ns2.centos7.com.  
  
ns1        IN      A        192.168.100.31  
ns2        IN      A        192.168.100.32  
  
;ptr records  
31         IN      PTR      ns1.centos7.com.  
32         IN      PTR      ns2.centos7.com.  
30         IN      PTR      www.centos7.com.  
"/var/named/reverse.centos7" 23L, 439C
```

9. enable & start bind.



```
padli@ns1:/  
[root@ns1 /]# systemctl enable named  
[root@ns1 /]# systemctl start named  
[root@ns1 /]#
```

10. allow domain port tcp.



```
padli@ns1:/  
[root@ns1 /]# firewall-cmd --permanent --add-port=53/tcp
```

11. allow domain port udp.

```
padli@ns1:/  
padli@ns1:/ x padli@cavs: ~ x  
[root@ns1 /]# firewall-cmd --permanent --add-port=53/udp
```

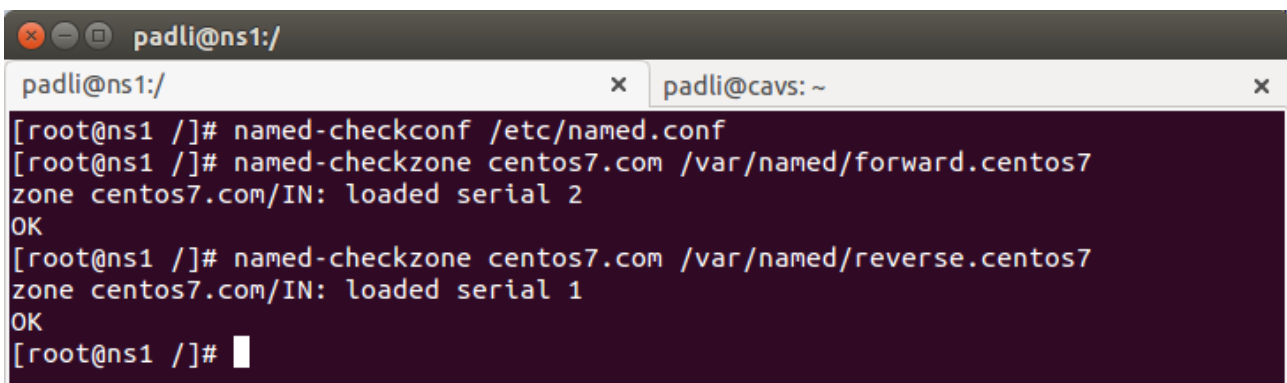
12. reload firewalld.

```
padli@ns1:/  
padli@ns1:/ x padli@cavs: ~ x  
[root@ns1 /]# firewall-cmd --reload
```

13. set own:group like this.

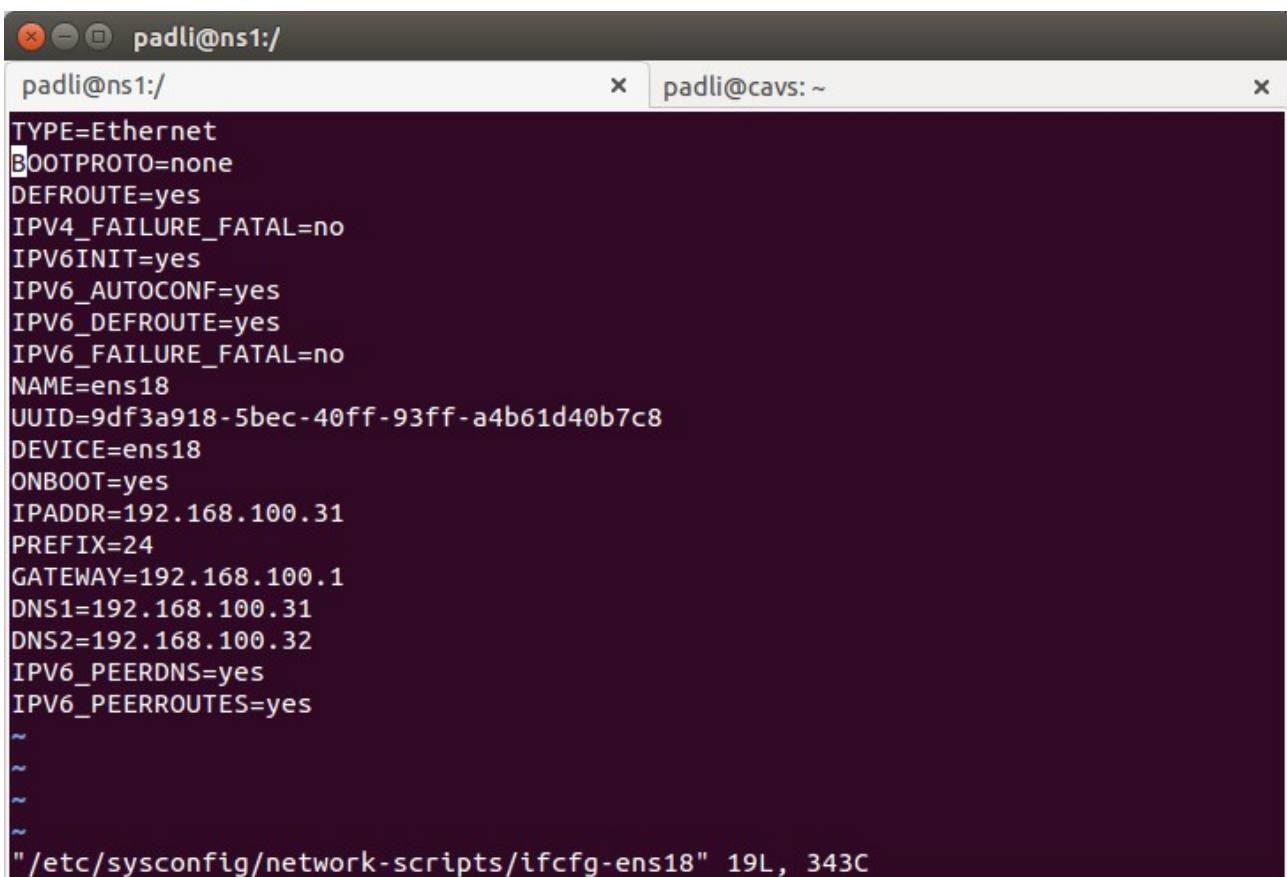
```
padli@ns1:/  
padli@ns1:/ x padli@cavs: ~ x  
[root@ns1 /]# ls -al /etc/named.conf  
-rw-r-----. 1 root named 1867 Jul 27 13:22 /etc/named.conf  
[root@ns1 /]# ls -al /var/named/  
total 32  
drwxr-x---. 5 root named 4096 Jul 28 08:58 .  
drwxr-xr-x. 21 root root 4096 Jul 28 08:50 ..  
drwxrwx---. 2 named named 22 Jul 27 11:51 data  
drwxrwx---. 2 named named 58 Jul 28 08:51 dynamic  
-rw-r--r--. 1 root named 485 Jul 27 13:43 forward.centos7  
-rw-r-----. 1 root named 2076 Jan 28 2013 named.ca  
-rw-r-----. 1 root named 152 Dec 15 2009 named.empty  
-rw-r-----. 1 root named 152 Jun 21 2007 named.localhost  
-rw-r-----. 1 root named 168 Dec 15 2009 named.loopback  
-rw-r--r--. 1 root named 439 Jul 27 13:45 reverse.centos7  
drwxrwx---. 2 named named 6 Jul 20 23:27 slaves  
[root@ns1 /]#
```

14. cek config.



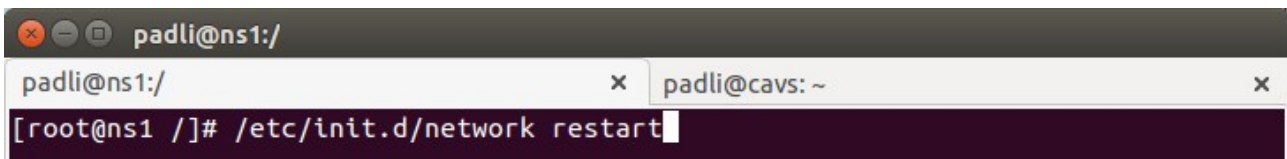
```
padli@ns1:/  
padli@ns1/ x padli@cavs: ~  
[root@ns1 /]# named-checkconf /etc/named.conf  
[root@ns1 /]# named-checkzone centos7.com /var/named/forward.centos7  
zone centos7.com/IN: loaded serial 2  
OK  
[root@ns1 /]# named-checkzone centos7.com /var/named/reverse.centos7  
zone centos7.com/IN: loaded serial 1  
OK  
[root@ns1 /]#
```

15. set dns1 & dns2.



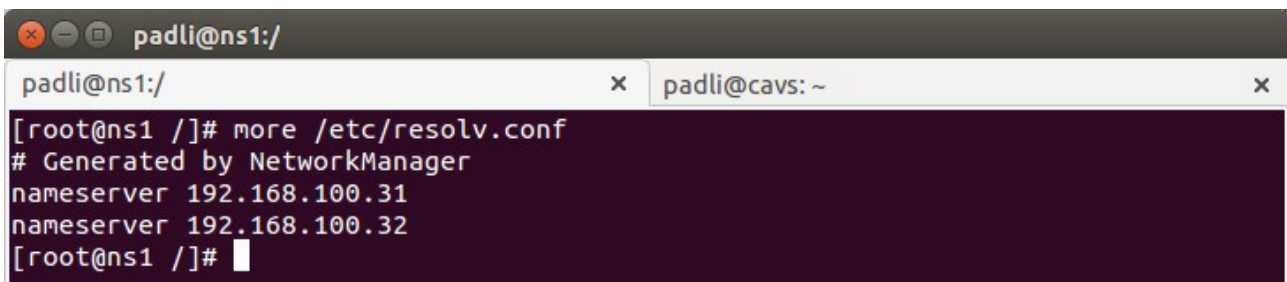
```
padli@ns1:/  
padli@ns1/ x padli@cavs: ~  
TYPE=Ethernet  
BOOTPROTO=none  
DEFROUTE=yes  
IPV4_FAILURE_FATAL=no  
IPV6INIT=yes  
IPV6_AUTOCONF=yes  
IPV6_DEFROUTE=yes  
IPV6_FAILURE_FATAL=no  
NAME=ens18  
UUID=9df3a918-5bec-40ff-93ff-a4b61d40b7c8  
DEVICE=ens18  
ONBOOT=yes  
IPADDR=192.168.100.31  
PREFIX=24  
GATEWAY=192.168.100.1  
DNS1=192.168.100.31  
DNS2=192.168.100.32  
IPV6_PEERDNS=yes  
IPV6_PEERROUTES=yes  
~  
~  
~  
~  
"/etc/sysconfig/network-scripts/ifcfg-ens18" 19L, 343C
```


16. restart network.

A terminal window titled 'padli@ns1:/' with two tabs: 'padli@ns1:/' and 'padli@cavs: ~'. The command prompt is '[root@ns1 /]# /etc/init.d/network restart' with a cursor at the end.

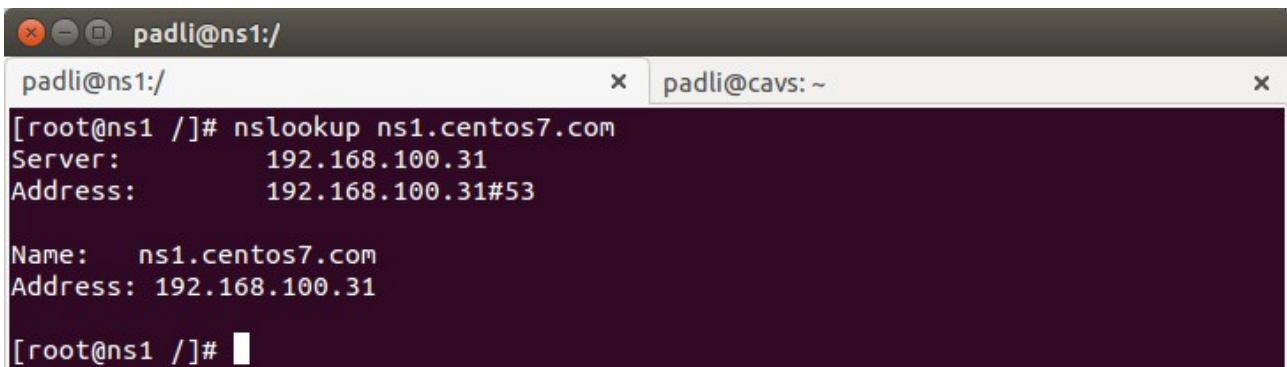
```
padli@ns1:/  
padli@ns1:/ x padli@cavs: ~ x  
[root@ns1 /]# /etc/init.d/network restart
```

17. cek ns.

A terminal window titled 'padli@ns1:/' with two tabs: 'padli@ns1:/' and 'padli@cavs: ~'. The command prompt is '[root@ns1 /]# more /etc/resolv.conf'. The output shows the contents of the file.

```
padli@ns1:/  
padli@ns1:/ x padli@cavs: ~ x  
[root@ns1 /]# more /etc/resolv.conf  
# Generated by NetworkManager  
nameserver 192.168.100.31  
nameserver 192.168.100.32  
[root@ns1 /]#
```

18. cek config ns1.

A terminal window titled 'padli@ns1:/' with two tabs: 'padli@ns1:/' and 'padli@cavs: ~'. The command prompt is '[root@ns1 /]# nslookup ns1.centos7.com'. The output shows DNS lookup information.

```
padli@ns1:/  
padli@ns1:/ x padli@cavs: ~ x  
[root@ns1 /]# nslookup ns1.centos7.com  
Server:          192.168.100.31  
Address:         192.168.100.31#53  
  
Name:   ns1.centos7.com  
Address: 192.168.100.31  
[root@ns1 /]#
```

19. cek config ns1.

```
padli@ns1:/  
padli@ns1:/ x padli@cavs: ~ x  
[root@ns1 /]# dig ns1.centos7.com  
  
; <<> DiG 9.9.4-RedHat-9.9.4-18.el7_1.2 <<> ns1.centos7.com  
;; global options: +cmd  
;; Got answer:  
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 15072  
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 2, ADDITIONAL: 2  
  
;; OPT PSEUDOSECTION:  
; EDNS: version: 0, flags:; udp: 4096  
;; QUESTION SECTION:  
ns1.centos7.com. IN A  
  
;; ANSWER SECTION:  
ns1.centos7.com. 604800 IN A 192.168.100.31  
  
;; AUTHORITY SECTION:  
centos7.com. 604800 IN NS ns1.centos7.com.  
centos7.com. 604800 IN NS ns2.centos7.com.  
  
;; ADDITIONAL SECTION:  
ns2.centos7.com. 604800 IN A 192.168.100.32  
  
;; Query time: 0 msec  
;; SERVER: 192.168.100.31#53(192.168.100.31)  
;; WHEN: Sat Jul 28 09:05:20 WIB 2015  
;; MSG SIZE rcvd: 108  
  
[root@ns1 /]#
```

NS2

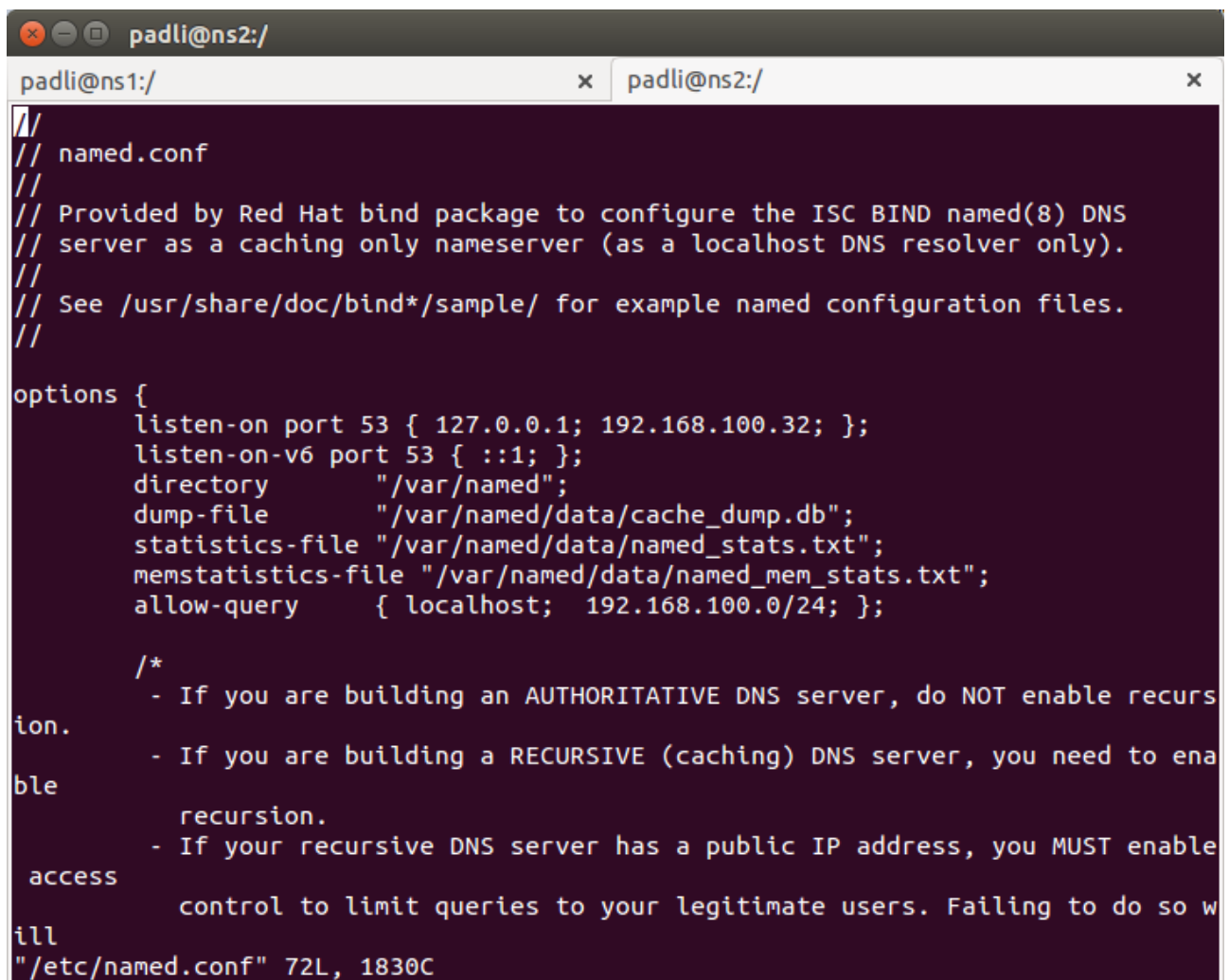
20. set like this.

```
padli@ns2:/  
padli@ns1:/ x padli@ns2:/ x  
[root@ns2 /]# more /etc/hostname  
ns2  
[root@ns2 /]# more /etc/hosts  
127.0.0.1 localhost localhost.localdomain localhost4 localhost4.localdomain4  
::1 localhost localhost.localdomain localhost6 localhost6.localdomain6  
  
192.168.100.32 ns2.centos7.com ns2  
[root@ns2 /]# ifconfig  
ens18: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500  
    inet 192.168.100.32 netmask 255.255.255.0 broadcast 192.168.100.255  
    inet6 fe80::e8b2:81ff:fede:86d6 prefixlen 64 scopeid 0x20<link>  
    ether ea:b2:81:de:86:d6 txqueuelen 1000 (Ethernet)  
    RX packets 284 bytes 32861 (32.0 KiB)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 116 bytes 13696 (13.3 KiB)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536  
    inet 127.0.0.1 netmask 255.0.0.0  
    inet6 ::1 prefixlen 128 scopeid 0x10<host>  
    loop txqueuelen 0 (Local Loopback)  
    RX packets 14 bytes 1626 (1.5 KiB)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 14 bytes 1626 (1.5 KiB)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
[root@ns2 /]#
```

21. install bind.

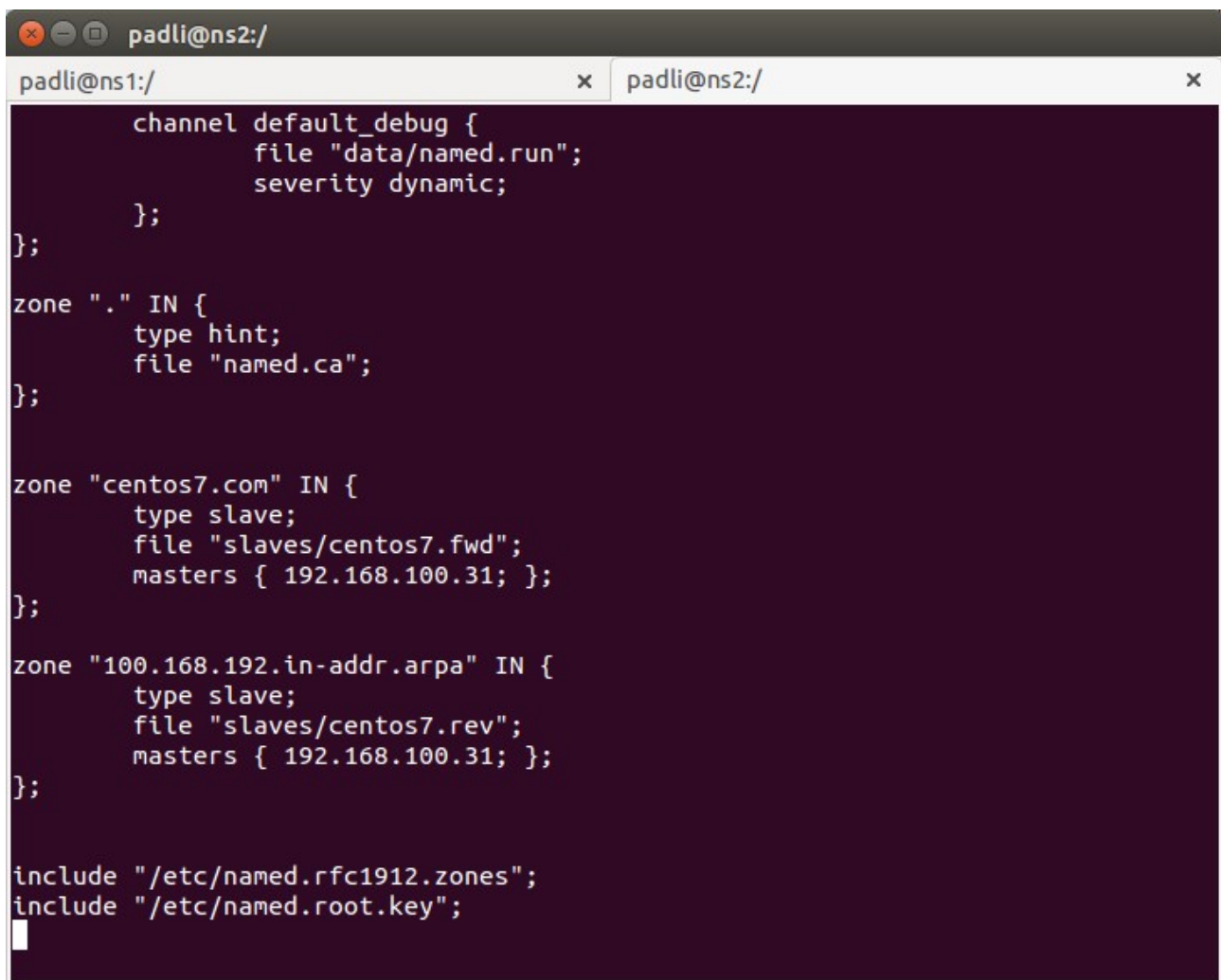
```
padli@ns2:/  
padli@ns1:/ x padli@ns2:/ x  
[root@ns2 /]# yum -y install bind bind-utils
```

22. set "vi /etc/named.conf" (1).

A terminal window with a dark purple background and white text. The window title bar shows 'padli@ns2:/' and two open tabs, 'padli@ns1:/' and 'padli@ns2:/' with close buttons. The terminal displays the contents of the /etc/named.conf file. The text includes comments about the Red Hat bind package, the listen-on and listen-on-v6 settings, and the options block which defines the directory, dump-file, statistics-file, memstatistics-file, and allow-query. It also contains a section for recursion with instructions on when to enable or disable it based on the server's role and IP address. The file ends with a line number and character count: 72L, 1830C.

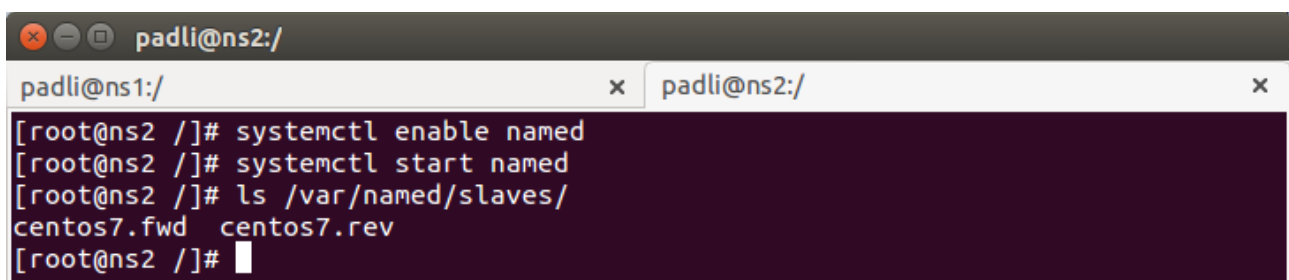
```
//  
// named.conf  
//  
// Provided by Red Hat bind package to configure the ISC BIND named(8) DNS  
// server as a caching only nameserver (as a localhost DNS resolver only).  
//  
// See /usr/share/doc/bind*/sample/ for example named configuration files.  
//  
options {  
    listen-on port 53 { 127.0.0.1; 192.168.100.32; };  
    listen-on-v6 port 53 { ::1; };  
    directory      "/var/named";  
    dump-file      "/var/named/data/cache_dump.db";  
    statistics-file "/var/named/data/named_stats.txt";  
    memstatistics-file "/var/named/data/named_mem_stats.txt";  
    allow-query    { localhost; 192.168.100.0/24; };  
  
    /*  
    - If you are building an AUTHORITATIVE DNS server, do NOT enable recurs  
ion.  
    - If you are building a RECURSIVE (caching) DNS server, you need to ena  
ble  
        recursion.  
    - If your recursive DNS server has a public IP address, you MUST enable  
access  
        control to limit queries to your legitimate users. Failing to do so w  
ill  
"/etc/named.conf" 72L, 1830C
```

23. set "vi /etc/named.conf" (2).



```
padli@ns2:/  
padli@ns1:/ x padli@ns2:/ x  
channel default_debug {  
    file "data/named.run";  
    severity dynamic;  
};  
zone "." IN {  
    type hint;  
    file "named.ca";  
};  
zone "centos7.com" IN {  
    type slave;  
    file "slaves/centos7.fwd";  
    masters { 192.168.100.31; };  
};  
zone "100.168.192.in-addr.arpa" IN {  
    type slave;  
    file "slaves/centos7.rev";  
    masters { 192.168.100.31; };  
};  
include "/etc/named.rfc1912.zones";  
include "/etc/named.root.key";  
█
```

24. enable, start bind.



```
padli@ns2:/  
padli@ns1:/ x padli@ns2:/ x  
[root@ns2 /]# systemctl enable named  
[root@ns2 /]# systemctl start named  
[root@ns2 /]# ls /var/named/slaves/  
centos7.fwd centos7.rev  
[root@ns2 /]# █
```

25. cek own, group, rwx.

```
padli@ns2:/  
padli@ns1:/ x padli@ns2:/ x  
[root@ns2 /]# ls -al /etc/named.conf  
-rw-r-----. 1 root named 1830 Jul 27 13:31 /etc/named.conf  
[root@ns2 /]# ls -al /var/named/  
total 24  
drwxr-x---. 5 root named 4096 Jul 27 13:31 .  
drwxr-xr-x. 21 root root 4096 Jul 28 08:51 ..  
drwxrwx---. 2 named named 22 Jul 27 11:51 data  
drwxrwx---. 2 named named 58 Jul 28 08:51 dynamic  
-rw-r-----. 1 root named 2076 Jan 28 2013 named.ca  
-rw-r-----. 1 root named 152 Dec 15 2009 named.empty  
-rw-r-----. 1 root named 152 Jun 21 2007 named.localhost  
-rw-r-----. 1 root named 168 Dec 15 2009 named.loopback  
drwxrwx---. 2 named named 42 Jul 27 13:32 slaves  
[root@ns2 /]#
```

26. set dns1 & dns2.

```
padli@ns2:/  
padli@ns1:/ x padli@ns2:/ x  
[root@ns2 /]# more /etc/sysconfig/network-scripts/ifcfg-ens18  
TYPE=Ethernet  
BOOTPROTO=none  
DEFROUTE=yes  
IPV4_FAILURE_FATAL=no  
IPV6INIT=yes  
IPV6_AUTOCONF=yes  
IPV6_DEFROUTE=yes  
IPV6_FAILURE_FATAL=no  
NAME=ens18  
UUID=9df3a918-5bec-40ff-93ff-a4b61d40b7c8  
DEVICE=ens18  
ONBOOT=yes  
IPADDR=192.168.100.32  
PREFIX=24  
GATEWAY=192.168.100.1  
DNS1=192.168.100.31  
DNS2=192.168.100.32  
IPV6_PEERDNS=yes  
IPV6_PEERROUTES=yes  
[root@ns2 /]#
```

27. restart network.

```
padli@ns2:/  
padli@ns1:/ x padli@ns2:/ x  
[root@ns2 /]# /etc/init.d/network restart
```

28. cek ns.

```
padli@ns2:/  
padli@ns1:/ x padli@ns2:/ x  
[root@ns2 /]# more /etc/resolv.conf  
# Generated by NetworkManager  
nameserver 192.168.100.31  
nameserver 192.168.100.32  
[root@ns2 /]#
```

29. allow tcp.

```
padli@ns2:/  
padli@ns1:/ x padli@ns2:/ x  
[root@ns2 /]# firewall-cmd --permanent --add-port=53/tcp
```

30. allow udp.

```
padli@ns2:/  
padli@ns1:/ x padli@ns2:/ x  
[root@ns2 /]# firewall-cmd --permanent --add-port=53/udp
```

31. reload firewalld.

```
padli@ns2:/  
padli@ns1:/ x padli@ns2:/ x  
[root@ns2 /]# firewall-cmd --reload
```


32. cek config ns2.

```
padli@ns2:/  
padli@ns1:/ x padli@ns2:/ x  
[root@ns2 /]# nslookup ns1.centos7.com  
Server:          192.168.100.31  
Address:         192.168.100.31#53  
  
Name:   ns1.centos7.com  
Address: 192.168.100.31  
  
[root@ns2 /]# nslookup ns2.centos7.com  
Server:          192.168.100.31  
Address:         192.168.100.31#53  
  
Name:   ns2.centos7.com  
Address: 192.168.100.32  
  
[root@ns2 /]#
```

33. cek config ns2.

```
padli@ns2:/  
padli@ns1:/ x padli@ns2:/ x  
[root@ns2 /]# dig ns1.centos7.com  
  
; <<>> DiG 9.9.4-RedHat-9.9.4-18.el7_1.2 <<>> ns1.centos7.com  
;; global options: +cmd  
;; Got answer:  
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 43411  
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 2, ADDITIONAL: 2  
  
;; OPT PSEUDOSECTION:  
; EDNS: version: 0, flags:;; udp: 4096  
;; QUESTION SECTION:  
ns1.centos7.com.      IN      A  
  
;; ANSWER SECTION:  
ns1.centos7.com.      604800  IN      A      192.168.100.31  
  
;; AUTHORITY SECTION:  
centos7.com.          604800  IN      NS      ns2.centos7.com.  
centos7.com.          604800  IN      NS      ns1.centos7.com.  
  
;; ADDITIONAL SECTION:  
ns2.centos7.com.      604800  IN      A      192.168.100.32  
  
;; Query time: 0 msec  
;; SERVER: 192.168.100.31#53(192.168.100.31)  
;; WHEN: Sat Jul 28 09:18:53 WIB 2015  
;; MSG SIZE rcvd: 108  
  
[root@ns2 /]#
```


34. cek config ns2.

```
padli@ns2:/
padli@ns1:/ x padli@ns2:/ x
[root@ns2 /]# dig ns2.centos7.com

; <<>> DiG 9.9.4-RedHat-9.9.4-18.el7_1.2 <<>> ns2.centos7.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 62282
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 2, ADDITIONAL: 2

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4096
;; QUESTION SECTION:
ns2.centos7.com.                IN      A

;; ANSWER SECTION:
ns2.centos7.com.                604800  IN      A      192.168.100.32

;; AUTHORITY SECTION:
centos7.com.                    604800  IN      NS      ns2.centos7.com.
centos7.com.                    604800  IN      NS      ns1.centos7.com.

;; ADDITIONAL SECTION:
ns1.centos7.com.                604800  IN      A      192.168.100.31

;; Query time: 0 msec
;; SERVER: 192.168.100.31#53(192.168.100.31)
;; WHEN: Sel Jul 28 09:19:05 WIB 2015
;; MSG SIZE rcvd: 108

[root@ns2 /]#
```

centOS7

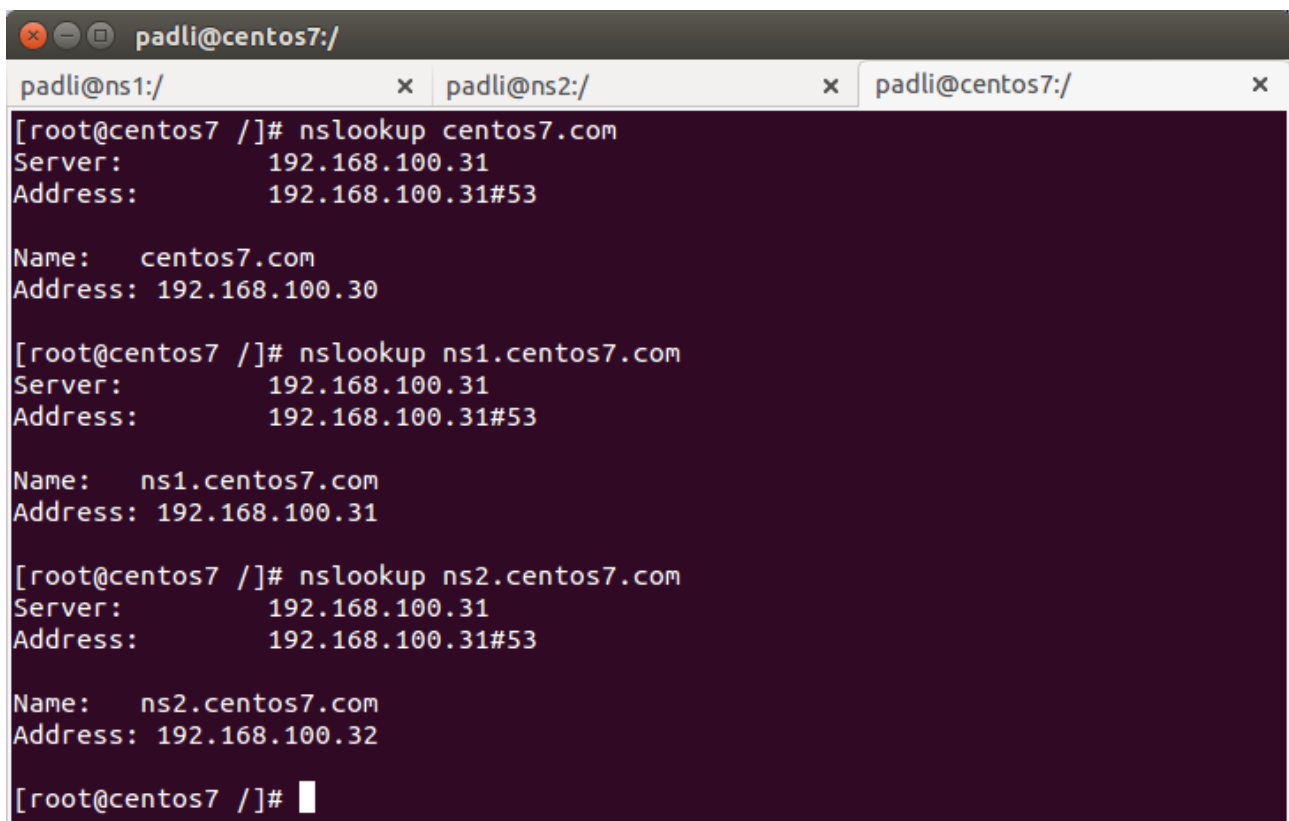
35. set like this.

```
padli@centos7:/  
padli@ns1:/ x padli@ns2:/ x padli@centos7:/ x  
[root@centos7 /]# more /etc/hostname  
centos7.com  
[root@centos7 /]# more /etc/hosts  
127.0.0.1    localhost localhost.localdomain localhost4 localhost4.localdomain4  
::1        localhost localhost.localdomain localhost6 localhost6.localdomain6  
  
192.168.100.30 www.centos7.com www  
[root@centos7 /]# ifconfig  
ens18: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500  
    inet 192.168.100.30  netmask 255.255.255.0  broadcast 192.168.100.255  
    inet6 fe80::2884:30ff:fe9c:b93e  prefixlen 64  scopeid 0x20<link>  
    ether 2a:84:30:fc:b9:3e  txqueuelen 1000  (Ethernet)  
    RX packets 190  bytes 19562 (19.1 KiB)  
    RX errors 0  dropped 0  overruns 0  frame 0  
    TX packets 122  bytes 14431 (14.0 KiB)  
    TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0  
  
lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536  
    inet 127.0.0.1  netmask 255.0.0.0  
    inet6 ::1  prefixlen 128  scopeid 0x10<host>  
    loop txqueuelen 0  (Local Loopback)  
    RX packets 0  bytes 0 (0.0 B)  
    RX errors 0  dropped 0  overruns 0  frame 0  
    TX packets 0  bytes 0 (0.0 B)  
    TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0  
  
[root@centos7 /]#
```

36. set like this.

```
padli@centos7:/  
padli@ns1:/ x padli@ns2:/ x padli@centos7:/ x  
[root@centos7 /]# more /etc/resolv.conf  
# Generated by NetworkManager  
search centos7.com  
nameserver 192.168.100.31  
nameserver 192.168.100.32  
[root@centos7 /]#
```

37. tes centos7.



```
padli@centos7:/  
padli@ns1:/ x padli@ns2:/ x padli@centos7:/ x  
[root@centos7 /]# nslookup centos7.com  
Server:          192.168.100.31  
Address:         192.168.100.31#53  
  
Name:   centos7.com  
Address: 192.168.100.30  
  
[root@centos7 /]# nslookup ns1.centos7.com  
Server:          192.168.100.31  
Address:         192.168.100.31#53  
  
Name:   ns1.centos7.com  
Address: 192.168.100.31  
  
[root@centos7 /]# nslookup ns2.centos7.com  
Server:          192.168.100.31  
Address:         192.168.100.31#53  
  
Name:   ns2.centos7.com  
Address: 192.168.100.32  
  
[root@centos7 /]#
```

38. tes centos7.

```
padli@centos7:/  
padli@ns1:/ x padli@ns2:/ x padli@centos7:/ x  
[root@centos7 /]# dig centos7.com  
  
; <<>> DiG 9.9.4-RedHat-9.9.4-18.el7_1.2 <<>> centos7.com  
;; global options: +cmd  
;; Got answer:  
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 63300  
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 2, ADDITIONAL: 3  
  
;; OPT PSEUDOSECTION:  
; EDNS: version: 0, flags:; udp: 4096  
;; QUESTION SECTION:  
;centos7.com. IN A  
  
;; ANSWER SECTION:  
centos7.com. 604800 IN A 192.168.100.30  
  
;; AUTHORITY SECTION:  
centos7.com. 604800 IN NS ns2.centos7.com.  
centos7.com. 604800 IN NS ns1.centos7.com.  
  
;; ADDITIONAL SECTION:  
ns1.centos7.com. 604800 IN A 192.168.100.31  
ns2.centos7.com. 604800 IN A 192.168.100.32  
  
;; Query time: 0 msec  
;; SERVER: 192.168.100.31#53(192.168.100.31)  
;; WHEN: Sat Jul 28 09:27:27 WIB 2015  
;; MSG SIZE rcvd: 124  
  
[root@centos7 /]#
```

39. tes centos7.

```
padli@centos7:/  
padli@ns1:/ x padli@ns2:/ x padli@centos7:/ x  
[root@centos7 /]# ping centos7.com  
PING centos7.com (192.168.100.30) 56(84) bytes of data.  
64 bytes from www.centos7.com (192.168.100.30): icmp_seq=1 ttl=64 time=0.025 ms  
64 bytes from www.centos7.com (192.168.100.30): icmp_seq=2 ttl=64 time=0.029 ms  
^C  
--- centos7.com ping statistics ---  
2 packets transmitted, 2 received, 0% packet loss, time 1000ms  
rtt min/avg/max/mdev = 0.025/0.027/0.029/0.002 ms  
[root@centos7 /]# ping ns1.centos7.com  
PING ns1.centos7.com (192.168.100.31) 56(84) bytes of data.  
64 bytes from ns1.centos7.com (192.168.100.31): icmp_seq=1 ttl=64 time=0.207 ms  
64 bytes from ns1.centos7.com (192.168.100.31): icmp_seq=2 ttl=64 time=0.333 ms  
^C  
--- ns1.centos7.com ping statistics ---  
2 packets transmitted, 2 received, 0% packet loss, time 1001ms  
rtt min/avg/max/mdev = 0.207/0.270/0.333/0.063 ms  
[root@centos7 /]# ping ns2.centos7.com  
PING ns2.centos7.com (192.168.100.32) 56(84) bytes of data.  
64 bytes from ns2.centos7.com (192.168.100.32): icmp_seq=1 ttl=64 time=0.422 ms  
64 bytes from ns2.centos7.com (192.168.100.32): icmp_seq=2 ttl=64 time=0.311 ms  
^C  
--- ns2.centos7.com ping statistics ---  
2 packets transmitted, 2 received, 0% packet loss, time 1001ms  
rtt min/avg/max/mdev = 0.311/0.366/0.422/0.058 ms  
[root@centos7 /]#
```

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