

BIND DNS

DNS IP IP DNS

[illegible]

DNS

nameserver 53 nameserver

DNS

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Linux

- Linux
- Linux
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- RHEL

DNS DNS

- DNS DNS
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- DNS DNS

DNS IP

DNS IP DNS IP IP

DNS DNS

DNS

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- `www.example.com` ISP
- IP DNS TLD
- **TLD.com.net**
- IP
- ISP IP
- IP IP

[IT

IP IP

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DNS

BIND

Linux DNS

IP

```
[root@servera ~] # yum install bind
```

BIND|named||/etc/named||/etc/named.conf|

DNS

/etc/named.conf

DNS

```
[root@servera ~] # vim /etc/named.conf  
listen-on port 53 { 127.0.0.1; 192.168.25.132; };  
allow-query { localhost; any; };
```

- **192.168.25.132** - DNS
- - IP

```
/etc/named.conf || /etc/named.rfc1912.zones || /etc/named.rfc1912.zones
```

```
[root@servera ~] # vim /etc/named.rfc1912.zones  
zone "example.com" IN { type master;  
file "example.forward.zone";  
allow-update { none; };  
};  
  
zone "25.168.192.in-addr.arpa" IN {  
type master;  
file "example.reverse.zone";  
allow-update { none; };  
};
```

```
/var/named
```

```
named.conf || /var/named | named.localhost || named.loopback
```

```
[root@servera ~] # vim /var/named/example.forward.zone
```

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```
[root@servera ~] # vim /var/named/example.reverse.zone
```

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nameserver IP /etc/resolv.conf

```
NetworkManager [ /etc/resolv.conf || /etc/resolv.conf || 90-dns-none.conf |  
/etc/NetworkManager/conf.d/ ]
```

```
[ main]  
dns=none
```

NetworkManager

```
# systemctl reload NetworkManager
```

NetworkManager/etc/resolv.conf

named/etc/resolv.conf

```
[root@servera ~] # vim /etc/resolv.conf
# Generated by NetworkManager
search localdomain example.com
nameserver 192.168.25.132
```

DNS

/

named

```
[root@servera ~] # systemctl status named.service

[root@servera ~] # systemctl start named.service

[root@servera ~] # systemctl enable named.service

[root@servera ~] # systemctl restart named.service
```

DNS

named nslookup dig DNS

- nslookup
- dig DNS DNS nameserver

nslookup

```
[root@servera ~] # nslookup servera.example.com
Server: 192.168.25.132
Address: 192.168.25.132#53
Name: servera.example.com
```

Address: 192.168.25.132

```
[root@servera ~] # nslookup 192.168.25.132
132.25.168.192.in-addr.arpa name = servera.example.com.
```

192.168.25.132 IP for servera.example.com

```
[root@servera ~] # dig servera.example.com
...output truncated...

;; ANSWER SECTION:
servera.example.com. 86400 IN A 192.168.25.132

;; AUTHORITY SECTION:
example.com. 86400 IN NS servera.example.com.

...output truncated...
```

servera.example.com 192.168.25.132

```
[root@servera ~] # dig -x 192.168.25.132
...output truncated...

;; ANSWER SECTION:
132.25.168.192.in-addr.arpa. 86400 IN PTR servera.example.com.

;; AUTHORITY SECTION:
25.168.192.in-addr.arpa. 86400 IN NS servera.example.com.

;; ADDITIONAL SECTION:
servera.example.com. 86400 IN A 192.168.25.132

...output truncated...
```


D|named||nslookup||dig|

DNS

BIND

DNS

Revision #3

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