软件安装

yum search bind
yum install bind-chroot.x86_64 bind.x86_64

本机 IP: 192.168.142.130

DNS: /etc/resolv.conf

```
# Generated by NetworkManager
search sogou-inc.com localdomain
nameserver 10.129.181.221
nameserver 10.129.181.222
nameserver 192.168.142.2
```

配置

vim /etc/named.conf

最后加入一行

```
include "/etc/named.jack.zones";
```


vim /etc/named.jack.zones

添加内容如下：

```
zone "dddjack.com" IN {
        type master;
        file "dddjack.com.zone";
        allow-query { any; };
        #allow-update { none; };
};
```


vim /var/named/dddjack.com.zone

内容如下：

$TTL 1D			
@	IN SOA	@ qtj.ddddjack.com. (	
2016113003		;	serial
1D		;	refresh
1H		;	retry
1W		;	expire
3H)	; minimum		
;	NS	@	
;	A	127.0.0.1	
;	AAAA	::1	
@	IN	NS	dns1.dddjack.com.
dns1	IN	A	192.168.142.122
ab	IN	A	192.168.142.150
	IN	A	192.168.142.151
	IN	A	192.168.200.152

注意上图 dns1 域名和 ip 行设置关系，否则会报错。

chgrp named xxx

修改如下文件权限

```
root@jackqin002 /var/named $ll /etc/named*
-rw-r-----. 1 root named 1708 Nov 30 17:22 /etc/named.conf
-rw-r-----. 1 root root  1558 Nov 30 17:20 /etc/named.conf.bak
-rw-r--r--. 1 root named 2389 Sep 28 21:14 /etc/named.iscdlv.key
-rw-r-----. 1 root named  265 Nov 30 19:58 /etc/named.jack.zones
-rw-r-----. 1 root named  931 Jun 21  2007 /etc/named.rfc1912.zones
-rw-r--r--. 1 root named  487 Jul 19  2010 /etc/named.root.key

/etc/named:
total 0
root@jackqin002 /var/named $ll dddjack.com.zone
-rw-r-----. 1 named named 287 Nov 30 20:07 dddjack.com.zone
root@jackqin002 /var/named $
```

systemctl restart named

重启

systemctl enable named

开机启动

systemctl status named

```
root@jackqin002 /var/named $systemctl status named
● named.service - Berkeley Internet Name Domain (DNS)
   Loaded: loaded (/usr/lib/systemd/system/named.service; enabled; vendor preset: disabled)
   Active: active (running) since Wed 2016-11-30 20:10:49 CST; 6min ago
  Process: 14717 ExecStop=/bin/sh -c /usr/sbin/rndc stop > /dev/null 2>&1 || /bin/kill -TERM $MAINPID (code=exited, status=0/SUCCESS)
  Process: 14732 ExecStart=/usr/sbin/named -u named $OPTIONS (code=exited, status=0/SUCCESS)
  Process: 14728 ExecStartPre=/bin/bash -c if [ ! "$DISABLE_ZONE_CHECKING" == "yes" ]; then /usr/sbin/named-checkconf -z /etc/named.conf;
 Main PID: 14736 (named)
   CGroup: /system.slice/named.service
           └─14736 /usr/sbin/named -u named

Nov 30 20:10:49 jackqin002 named[14736]: zone 0.in-addr.arpa/IN: loaded serial 0
Nov 30 20:10:49 jackqin002 named[14736]: zone 1.0.0.127.in-addr.arpa/IN: loaded serial 0
Nov 30 20:10:49 jackqin002 named[14736]: zone 1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.ip6.arpa/IN: loaded serial 0
Nov 30 20:10:49 jackqin002 named[14736]: zone localhost.localdomain/IN: loaded serial 0
Nov 30 20:10:49 jackqin002 named[14736]: zone dddjack.com/IN: loaded serial 2016113003
Nov 30 20:10:49 jackqin002 named[14736]: zone localhost/IN: loaded serial 0
Nov 30 20:10:49 jackqin002 named[14736]: all zones loaded
Nov 30 20:10:49 jackqin002 named[14736]: running
Nov 30 20:10:49 jackqin002 named[14736]: zone dddjack.com/IN: sending notifies (serial 2016113003)
Nov 30 20:10:49 jackqin002 systemd[1]: Started Berkeley Internet Name Domain (DNS).
root@jackqin002 /var/named $
```

firewall-cmd   --add-port=53/udp –permanent

firewall-cmd   --add-port=53/tcp –permanent

firewall-cmd --reload

firewall-cmd --list-all

设置防火墙并生效并检查

```
root@jackqin002 /var/named $firewall-cmd --list-all
public (default, active)
  interfaces: eno16777736 eno50332208
  sources:
  services: dhcpv6-client ssh
  ports: 53/udp 53/tcp
  masquerade: no
  forward-ports:
  icmp-blocks:
  rich rules:
```

校验

netstat -anotlp |grep :53

确认 DNS 服务启动

```
root@jackqin002 /var/named $netstat -anotlp |grep :53
tcp        0      0 192.168.122.1:53        0.0.0.0:*               LISTEN      14736/named         off (0.00/0/0)
tcp        0      0 192.168.142.130:53      0.0.0.0:*               LISTEN      14736/named         off (0.00/0/0)
tcp        0      0 10.129.149.89:53        0.0.0.0:*               LISTEN      14736/named         off (0.00/0/0)
tcp        0      0 127.0.0.1:53            0.0.0.0:*               LISTEN      14736/named         off (0.00/0/0)
tcp6       0      0 :::53                   :::*                    LISTEN      14736/named         off (0.00/0/0)
root@jackqin002 /var/named $
```

dig www.baidu.com

dig @192.168.142.130 www.baidu.com

dig @192.168.142.130 www.baidu.com +trace

dig @192.168.142.130 abc.dddjack.com

dig @192.168.142.130 ab.dddjack.com

```
root@jackqin002 /var/named $dig @192.168.142.130 abc.dddjack.com

; <<>> DiG 9.9.4-RedHat-9.9.4-29.el7_2.4 <<>> @192.168.142.130 abc.dddjack.com
; (1 server found)
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NXDOMAIN, id: 36045
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

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

;; AUTHORITY SECTION:
dddjack.com.            10800   IN      SOA     dddjack.com. qtj.ddddjack.com. 2016113003 86400 3600 604800 10800

;; Query time: 0 msec
;; SERVER: 192.168.142.130#53(192.168.142.130)
;; WHEN: Wed Nov 30 20:23:24 CST 2016
;; MSG SIZE  rcvd: 93

root@jackqin002 /var/named $dig @192.168.142.130 ab.dddjack.com

; <<>> DiG 9.9.4-RedHat-9.9.4-29.el7_2.4 <<>> @192.168.142.130 ab.dddjack.com
; (1 server found)
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 26681
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 1, ADDITIONAL: 2

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

;; ANSWER SECTION:
ab.dddjack.com.         86400   IN      A       192.168.142.150
ab.dddjack.com.         86400   IN      A       192.168.142.151
ab.dddjack.com.         86400   IN      A       192.168.200.152

;; AUTHORITY SECTION:
dddjack.com.            86400   IN      NS      dns1.dddjack.com.

;; ADDITIONAL SECTION:
dns1.dddjack.com.       86400   IN      A       192.168.142.122

;; Query time: 0 msec
;; SERVER: 192.168.142.130#53(192.168.142.130)
;; WHEN: Wed Nov 30 20:23:30 CST 2016
;; MSG SIZE  rcvd: 126

root@jackqin002 /var/named $
```

其他

修改 dddjack.com.zone，并 systemctl restart named，重新 dig 可以看到更新的 DNS 配置。