

```

[root@zoro Desktop]# cd
[root@zoro ~]# hostname
zoro.sm.com
[root@zoro ~]# cd /var/named
[root@zoro named]# ll
total 40
drwxr-x--- 7 root  named 4096 Jun 11 07:56 chroot
drwxrwx--- 2 named named 4096 Jun 11 08:18 data
drwxrwx--- 2 named named 4096 Jun 11 08:18 dynamic
-rw-r----- 1 root  named  190 Jun 11 08:38 example.fwd
-rw-r----- 1 root  named  243 Jun 11 08:48 example.rev
-rw-r----- 1 root  named 3171 Jan 11 2016 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 4096 Feb  8 2017 slaves
[root@zoro named]# c
bash: c: command not found
[root@zoro named]# cd
[root@zoro ~]# rm -rf /var/named
[root@zoro ~]# cd /var/named
bash: cd: /var/named: No such file or directory
[root@zoro ~]# rpm -qa bind*
bind-utils-9.8.2-0.62.rc1.el6.x86_64
bind-9.8.2-0.62.rc1.el6.x86_64
bind-chroot-9.8.2-0.62.rc1.el6.x86_64
bind-dyndb-ldap-2.3-8.el6.x86_64
bind-libs-9.8.2-0.62.rc1.el6.x86_64
[root@zoro ~]# yum remove bind* caching*
Loaded plugins: product-id, refresh-packagekit, search-disabled-repos, security,
                : subscription-manager
This system is not registered with an entitlement server. You can use subscription-
manager to register.
Setting up Remove Process
No Match for argument: caching*
localrepo | 4.1 kB 00:00 ...
Resolving Dependencies
--> Running transaction check
---> Package bind.x86_64 32:9.8.2-0.62.rc1.el6 will be erased
---> Package bind-chroot.x86_64 32:9.8.2-0.62.rc1.el6 will be erased
---> Package bind-dyndb-ldap.x86_64 0:2.3-8.el6 will be erased
---> Package bind-libs.x86_64 32:9.8.2-0.62.rc1.el6 will be erased
---> Package bind-utils.x86_64 32:9.8.2-0.62.rc1.el6 will be erased
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package                Arch      Version                                Repository      Size
=====
Removing:
bind                   x86_64    32:9.8.2-0.62.rc1.el6                 @localrepo     7.3 M
bind-chroot            x86_64    32:9.8.2-0.62.rc1.el6                 @localrepo      0.0
bind-dyndb-ldap        x86_64    2.3-8.el6                             @localrepo     178 k
bind-libs              x86_64    32:9.8.2-0.62.rc1.el6                 @localrepo     2.2 M
bind-utils             x86_64    32:9.8.2-0.62.rc1.el6                 @localrepo     440 k
=====

Transaction Summary

```

=====

Remove	5 Package(s)
--------	--------------

Installed size: 10 M

Is this ok [y/N]: **y**

Downloading Packages:

Running rpm_check_debug

Running Transaction Test

Transaction Test Succeeded

Running Transaction

Erasing	: 32:bind-chroot-9.8.2-0.62.rc1.el6.x86_64	1/5
---------	--	-----

warning: erase unlink of /var/named/chroot/var/tmp failed: No such file or directory

warning: erase unlink of /var/named/chroot/var/run/named failed: No such file or directory

warning: erase unlink of /var/named/chroot/var/run failed: No such file or directory

warning: erase unlink of /var/named/chroot/var/named failed: No such file or directory

warning: erase unlink of /var/named/chroot/var/log failed: No such file or directory

warning: erase unlink of /var/named/chroot/var failed: No such file or directory

warning: erase unlink of /var/named/chroot/usr/lib64/bind failed: No such file or directory

warning: erase unlink of /var/named/chroot/usr/lib64 failed: No such file or directory

warning: erase unlink of /var/named/chroot/usr failed: No such file or directory

warning: erase unlink of /var/named/chroot/lib64 failed: No such file or directory

warning: erase unlink of /var/named/chroot/etc/pki/dnssec-keys failed: No such file or directory

warning: erase unlink of /var/named/chroot/etc/pki failed: No such file or directory

warning: erase unlink of /var/named/chroot/etc/named failed: No such file or directory

warning: erase unlink of /var/named/chroot/etc failed: No such file or directory

warning: erase unlink of /var/named/chroot/dev failed: No such file or directory

warning: erase unlink of /var/named/chroot failed: No such file or directory

Erasing	: bind-dyndb-ldap-2.3-8.el6.x86_64	2/5
Erasing	: 32:bind-9.8.2-0.62.rc1.el6.x86_64	3/5

warning: erase unlink of /var/named/slaves failed: No such file or directory

warning: erase unlink of /var/named/named.loopback failed: No such file or directory

warning: erase unlink of /var/named/named.localhost failed: No such file or directory

warning: erase unlink of /var/named/named.empty failed: No such file or directory

warning: erase unlink of /var/named/named.ca failed: No such file or directory

warning: erase unlink of /var/named/dynamic failed: No such file or directory

warning: erase unlink of /var/named/data failed: No such file or directory

warning: erase unlink of /var/named failed: No such file or directory

warning: /etc/sysconfig/named saved as /etc/sysconfig/named.rpmsave

warning: /etc/named.rfc1912.zones saved as /etc/named.rfc1912.zones.rpmsave

warning: /etc/named.conf saved as /etc/named.conf.rpmsave

Erasing	: 32:bind-utils-9.8.2-0.62.rc1.el6.x86_64	4/5
Erasing	: 32:bind-libs-9.8.2-0.62.rc1.el6.x86_64	5/5
Verifying	: 32:bind-chroot-9.8.2-0.62.rc1.el6.x86_64	1/5
Verifying	: 32:bind-utils-9.8.2-0.62.rc1.el6.x86_64	2/5
Verifying	: 32:bind-libs-9.8.2-0.62.rc1.el6.x86_64	3/5
Verifying	: 32:bind-9.8.2-0.62.rc1.el6.x86_64	4/5
Verifying	: bind-dyndb-ldap-2.3-8.el6.x86_64	5/5

Removed:

bind.x86_64 32:9.8.2-0.62.rc1.el6

bind-chroot.x86_64 32:9.8.2-0.62.rc1.el6

bind-dyndb-ldap.x86_64 0:2.3-8.el6

```
bind-libs.x86_64 32:9.8.2-0.62.rc1.el6
bind-utils.x86_64 32:9.8.2-0.62.rc1.el6
```

Complete!

```
[root@zoro ~]# rpm -qa bind*
```

```
[root@zoro ~]# yum install bind* caching* -y
```

```
Loaded plugins: product-id, refresh-packagekit, search-disabled-repos, security,
               : subscription-manager
```

This system is not registered with an entitlement server. You can use subscription-manager to register.

Setting up Install Process

Resolving Dependencies

--> Running transaction check

---> Package bind.x86_64 32:9.8.2-0.62.rc1.el6 will be installed

---> Package bind-chroot.x86_64 32:9.8.2-0.62.rc1.el6 will be installed

---> Package bind-dyndb-ldap.x86_64 0:2.3-8.el6 will be installed

---> Package bind-libs.x86_64 32:9.8.2-0.62.rc1.el6 will be installed

---> Package bind-utils.x86_64 32:9.8.2-0.62.rc1.el6 will be installed

--> Finished Dependency Resolution

Dependencies Resolved

Package	Arch	Version	Repository	Size
Installing:				
bind	x86_64	32:9.8.2-0.62.rc1.el6	localrepo	4.0 M
bind-chroot	x86_64	32:9.8.2-0.62.rc1.el6	localrepo	77 k
bind-dyndb-ldap	x86_64	2.3-8.el6	localrepo	72 k
bind-libs	x86_64	32:9.8.2-0.62.rc1.el6	localrepo	891 k
bind-utils	x86_64	32:9.8.2-0.62.rc1.el6	localrepo	188 k

Transaction Summary

Install 5 Package(s)

Total download size: 5.2 M

Installed size: 10 M

Downloading Packages:

Total 59 MB/s | 5.2 MB 00:00

Running rpm_check_debug

Running Transaction Test

Transaction Test Succeeded

Running Transaction

Installing	: 32:bind-libs-9.8.2-0.62.rc1.el6.x86_64	1/5
Installing	: 32:bind-9.8.2-0.62.rc1.el6.x86_64	2/5
Installing	: 32:bind-chroot-9.8.2-0.62.rc1.el6.x86_64	3/5
Installing	: bind-dyndb-ldap-2.3-8.el6.x86_64	4/5
Installing	: 32:bind-utils-9.8.2-0.62.rc1.el6.x86_64	5/5
Verifying	: 32:bind-chroot-9.8.2-0.62.rc1.el6.x86_64	1/5
Verifying	: 32:bind-libs-9.8.2-0.62.rc1.el6.x86_64	2/5
Verifying	: 32:bind-utils-9.8.2-0.62.rc1.el6.x86_64	3/5
Verifying	: 32:bind-9.8.2-0.62.rc1.el6.x86_64	4/5
Verifying	: bind-dyndb-ldap-2.3-8.el6.x86_64	5/5

Installed:

```
bind.x86_64 32:9.8.2-0.62.rc1.el6
```

```
bind-chroot.x86_64 32:9.8.2-0.62.rc1.el6
bind-dyndb-ldap.x86_64 0:2.3-8.el6
bind-libs.x86_64 32:9.8.2-0.62.rc1.el6
bind-utils.x86_64 32:9.8.2-0.62.rc1.el6
```

Complete!

```
[root@zoro ~]# cd /var/named
```

```
[root@zoro named]# ll
```

```
total 32
drwxr-x--- 7 root  named 4096 Jun 13 03:37 chroot
drwxrwx--- 2 named named 4096 Feb  8 2017 data
drwxrwx--- 2 named named 4096 Feb  8 2017 dynamic
-rw-r----- 1 root  named 3171 Jan 11 2016 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 4096 Feb  8 2017 slaves
```

```
[root@zoro named]# cd
```

```
[root@zoro ~]# vi /etc/named.conf
```

```
options {
```

```
listen-on port 53 { 127.0.0.1; 192.168.30.130; };
```

```
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; 192.168.30.130; };
```

```
recursion yes;
```

```
dnssec-enable yes;
```

```
dnssec-validation yes;
```

```
[root@zoro ~]# vi /etc/named.rfc1912.zones
```

```
zone "localhost.localdomain" IN {
```

```
    type master;
```

```
    file "named.localhost";
```

```
    allow-update { none; };
```

```
};
```

```
zone "localhost" IN {
```

```
    type master;
```

```
    file "named.localhost";
```

```
    allow-update { none; };
```

```
};
```

```
zone "sm.com" IN {
```

```
    type master;
```

```
    file "sm.fwd";
```

```
    allow-update { none; };
```

```
};
```

```
zone "30.168.192.in-addr.arpa" IN {
```

```

        type master;
        file "sm.rev";
        allow-update { none; };
    };

```

```
[root@zoro ~]# cd /var/named
```

```
[root@zoro named]# ll
```

```

total 32
drwxr-x--- 7 root  named 4096 Jun 13 03:37 chroot
drwxrwx--- 2 named named 4096 Feb  8  2017 data
drwxrwx--- 2 named named 4096 Feb  8  2017 dynamic
-rw-r----- 1 root  named 3171 Jan 11  2016 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 4096 Feb  8  2017 slaves

```

```
[root@zoro named]# cp -p named.localhost sm.fwd
```

```
[root@zoro named]# ll
```

```

total 36
drwxr-x--- 7 root  named 4096 Jun 13 03:37 chroot
drwxrwx--- 2 named named 4096 Feb  8  2017 data
drwxrwx--- 2 named named 4096 Feb  8  2017 dynamic
-rw-r----- 1 root  named 3171 Jan 11  2016 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 4096 Feb  8  2017 slaves
-rw-r----- 1 root  named  152 Jun 21  2007 sm.fwd

```

```
[root@zoro named]# vim sm.fwd
```

```

$TTL 86400
@      IN SOA  zoro.sm.com.  root.sm.com.  (

```

```

1      ; serial
1      ; refresh
1      ; retry
1      ; expire
3 )    ; minimum

```

```

        NS      zoro.sm.com.
zoro    A      192.168.30.130
naruto  A      192.168.30.131

```

```
[root@zoro named]# named-checkzone sm.com /var/named/sm.fwd
```

```
zone sm.com/IN: loaded serial 1
```

```
OK
```

```
[root@zoro named]# cp -p named.localhost sm.rev
```

```
[root@zoro named]# ll
```

```

total 40
drwxr-x--- 7 root  named 4096 Jun 13 03:37 chroot
drwxrwx--- 2 named named 4096 Feb  8  2017 data
drwxrwx--- 2 named named 4096 Feb  8  2017 dynamic
-rw-r----- 1 root  named 3171 Jan 11  2016 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    152 Jun 21  2007 sm.rev
```

```
1      ; serial
2      ; refresh
1      ; retry
1      ; expire
3 )    ; minimum
```

zoro	A	192.168.30.130
------	---	----------------

```
[root@zoro named]# named-checkzone sm.com /var/named/sm.fwd
```

```
search sm.com
```

```
[root@zoro named]# dig zoro.sm.com
```

;zoro.sm.com. IN A

```
;; ANSWER SECTION:
zoro.sm.com.      86400 IN      A      192.168.30.130
```

```
;; AUTHORITY SECTION:
sm.com.      86400 IN      NS      zoro.sm.com.
```

```
;; Query time: 0 msec
;; SERVER: 192.168.30.130#53(192.168.30.130)
;; WHEN: Tue Jun 13 03:56:06 2023
;; MSG SIZE rcvd: 59
```

```
[root@zoro named]# dig -x 192.168.30.130
```

```
; <<>> DiG 9.8.2rc1-RedHat-9.8.2-0.62.rc1.el6 <<>> -x 192.168.30.130
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 60962
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1

;; QUESTION SECTION:
;130.30.168.192.in-addr.arpa.      IN      PTR

;; ANSWER SECTION:
130.30.168.192.in-addr.arpa. 86400 IN      PTR      zoro.sm.com.

;; AUTHORITY SECTION:
30.168.192.in-addr.arpa. 86400 IN      NS      zoro.sm.com.

;; ADDITIONAL SECTION:
zoro.sm.com.                86400 IN      A      192.168.30.130

;; Query time: 0 msec
;; SERVER: 192.168.30.130#53(192.168.30.130)
;; WHEN: Tue Jun 13 03:56:19 2023
;; MSG SIZE rcvd: 100
```

```
[root@zoro named]# cd
```

```
[root@zoro ~]# dig zoro.sm.com
```

```
; <<>> DiG 9.8.2rc1-RedHat-9.8.2-0.62.rc1.el6 <<>> zoro.sm.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 49759
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 0

;; QUESTION SECTION:
;zoro.sm.com.                  IN      A

;; ANSWER SECTION:
zoro.sm.com.                  86400 IN      A      192.168.30.130

;; AUTHORITY SECTION:
sm.com.                       86400 IN      NS      zoro.sm.com.

;; Query time: 0 msec
;; SERVER: 192.168.30.130#53(192.168.30.130)
;; WHEN: Tue Jun 13 03:56:33 2023
;; MSG SIZE rcvd: 59
```

```
[root@zoro ~]# dig -x 192.168.30.130
```

```
; <<>> DiG 9.8.2rc1-RedHat-9.8.2-0.62.rc1.el6 <<>> -x 192.168.30.130
;; global options: +cmd
;; Got answer:
```

```
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 24844
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1

;; QUESTION SECTION:
;130.30.168.192.in-addr.arpa.      IN      PTR

;; ANSWER SECTION:
130.30.168.192.in-addr.arpa. 86400 IN      PTR      zoro.sm.com.

;; AUTHORITY SECTION:
30.168.192.in-addr.arpa. 86400      IN      NS      zoro.sm.com.

;; ADDITIONAL SECTION:
zoro.sm.com.                86400 IN      A      192.168.30.130

;; Query time: 0 msec
;; SERVER: 192.168.30.130#53(192.168.30.130)
;; WHEN: Tue Jun 13 03:56:45 2023
;; MSG SIZE rcvd: 100
```

```
[root@zoro ~]# ping -c2 zoro
```

```
PING zoro.sm.com (192.168.30.130) 56(84) bytes of data.
64 bytes from zoro.sm.com (192.168.30.130): icmp_seq=1 ttl=64 time=0.013 ms
64 bytes from zoro.sm.com (192.168.30.130): icmp_seq=2 ttl=64 time=0.038 ms
```

```
--- zoro.sm.com ping statistics ---
```

```
2 packets transmitted, 2 received, 0% packet loss, time 1000ms
rtt min/avg/max/mdev = 0.013/0.025/0.038/0.013 ms
```

```
[root@zoro ~]# ping -c2 naruto
```

```
PING naruto.sm.com (192.168.30.131) 56(84) bytes of data.
From zoro.sm.com (192.168.30.130) icmp_seq=1 Destination Host Unreachable
From zoro.sm.com (192.168.30.130) icmp_seq=2 Destination Host Unreachable
```

```
--- naruto.sm.com ping statistics ---
```

```
2 packets transmitted, 0 received, +2 errors, 100% packet loss, time 3000ms
pipe 2
```

```
[root@zoro ~]# host naruto
```

```
naruto.sm.com has address 192.168.30.131
```

```
[root@zoro ~]# host zoro
```

```
zoro.sm.com has address 192.168.30.130
```

```
[root@zoro ~]# host 192.168.30.130
```

```
130.30.168.192.in-addr.arpa domain name pointer zoro.sm.com.
```

```
[root@zoro ~]# nslookup zoro
```

```
Server:          192.168.30.130
```

```
Address:         192.168.30.130#53
```

```
Name: zoro.sm.com
```

```
Address: 192.168.30.130
```

```
[root@zoro ~]# nslookup naruto
```

```
Server:          192.168.30.130
```

```
Address:         192.168.30.130#53
```

```
Name: naruto.sm.com
```

```
Address: 192.168.30.131
```

```
[root@zoro ~]#
```