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Forward and Reverse zone files for primary DNS server


```
GNU nano 2.9.8                                    /etc/bind/db.cn
;
; BIND data file for local loopback interface
;
$TTL    604800
@       IN      SOA     localhost. root.localhost. (
                                2       ; Serial
                            604800      ; Refresh
                             86400      ; Retry
                           2419200      ; Expire
                            604800 )    ; Negative Cache TTL
;
@       IN      NS      localhost.
@       IN      A       127.0.0.1
@       IN      AAAA    ::1
R1      IN      A       10.10.10.3
R2      IN      A       10.10.10.2
Kali    IN      A       10.10.10.1
second  IN      NS      R1.cn.
```



```
GNU nano 2.9.8                                    /etc/bind/db.10.10.10
;
; BIND data file for local loopback interface
;
$TTL    604800
@       IN      SOA     localhost. root.localhost. (
                                2       ; Serial
                            604800      ; Refresh
                             86400      ; Retry
                           2419200      ; Expire
                            604800 )    ; Negative Cache TTL
;
@       IN      NS      localhost.
@       IN      A       127.0.0.1
@       IN      AAAA    ::1
10.10.10.3      IN      PTR     R1.cn.
10.10.10.2      IN      PTR     R2.cn.
10.10.10.1      IN      PTR     Kali.cn.
```

root@CN-R2: /home/student

File Edit Tabs Help

GNU nano 2.9.8   /etc/bind/db.second.cn

;
; BIND data file for local loopback interface
;
$TTL   604800
@   IN   SOA   localhost. root.localhost. (
                              2   ; Serial
                         604800   ; Refresh
                          86400   ; Retry
                        2419200   ; Expire
                         604800)   ; Negative Cache TTL
;
@   IN   NS   localhost.
@   IN   A   127.0.0.1
@   IN   AAAA   ::1
R2   IN   A   10.10.11.5
R3   IN   A   10.10.11.2
R4   IN   A   10.10.11.10
Ubuntu IN   A   10.10.11.18

root@CN-R2: /home/student

File Edit Tabs Help

GNU nano 2.9.8   /etc/bind/db.10.10.11

;
; BIND data file for local loopback interface
;
$TTL   604800
@   IN   SOA   localhost. root.localhost. (
                              2   ; Serial
                         604800   ; Refresh
                          86400   ; Retry
                        2419200   ; Expire
                         604800)   ; Negative Cache TTL
;
@   IN   NS   localhost.
@   IN   A   127.0.0.1
@   IN   AAAA   ::1
10.10.11.5   IN   PTR   R2.second.cn.
10.10.11.2   IN   PTR   R3.second.cn.
10.10.11.10   IN   PTR   R4.second.cn.
10.10.11.18   IN   PTR   Ubuntu.second.cn.

Host lookup by name using nslookup or dig.

```
Connected (encrypted) to: QEMU (2328_20_8)
root@CN-R2: /home/student                                    _ ☐ ×
File  Edit  Tabs  Help
root@CN-R2:/home/student# nslookup kali
Server:         10.10.10.2
Address:        10.10.10.2#53

Name:   Kali.cn
Address: 10.10.10.3

root@CN-R2:/home/student# nslookup ubuntu
Server:         10.10.10.2
Address:        10.10.10.2#53

Name:   Ubuntu.cn
Address: 10.10.11.18

root@CN-R2:/home/student# nslookup r1
Server:         10.10.10.2
Address:        10.10.10.2#53

Name:   R1.cn
Address: 10.10.10.1

root@CN-R2:/home/student# nslookup r3
Server:         10.10.10.2
Address:        10.10.10.2#53

Name:   R3.cn
Address: 10.10.11.2

root@CN-R2:/home/student# nslookup r4
Server:         10.10.10.2
Address:        10.10.10.2#53

Name:   R4.cn
Address: 10.10.11.10

root@CN-R2:/home/student#
```

Screenshots of R1 pinging R2 and Kali

R2 pinging R1

Kali pinging R1

Screenshots of R2 pinging R3, R4, and Ubuntu

root@CN-R2: /home/student

File Edit Tabs Help

```
root@CN-R2:/home/student# ping r3
PING R3.cn (10.10.11.2) 56(84) bytes of data.
64 bytes from 10.10.11.2 (10.10.11.2): icmp_seq=1 ttl=64 time=0.298 ms
64 bytes from 10.10.11.2 (10.10.11.2): icmp_seq=2 ttl=64 time=0.350 ms
64 bytes from 10.10.11.2 (10.10.11.2): icmp_seq=3 ttl=64 time=0.459 ms
64 bytes from 10.10.11.2 (10.10.11.2): icmp_seq=4 ttl=64 time=1.69 ms
64 bytes from 10.10.11.2 (10.10.11.2): icmp_seq=5 ttl=64 time=0.429 ms
^Z
[7]+  Stopped                 ping r3
root@CN-R2:/home/student#
```

root@CN-R2: /home/student

File Edit Tabs Help

```
root@CN-R2:/home/student# ping r4
PING R4.cn (10.10.11.10) 56(84) bytes of data.
64 bytes from 10.10.11.10 (10.10.11.10): icmp_seq=1 ttl=63 time=2.11 ms
64 bytes from 10.10.11.10 (10.10.11.10): icmp_seq=2 ttl=63 time=0.771 ms
64 bytes from 10.10.11.10 (10.10.11.10): icmp_seq=3 ttl=63 time=1.07 ms
64 bytes from 10.10.11.10 (10.10.11.10): icmp_seq=4 ttl=63 time=0.811 ms
64 bytes from 10.10.11.10 (10.10.11.10): icmp_seq=5 ttl=63 time=0.904 ms
64 bytes from 10.10.11.10 (10.10.11.10): icmp_seq=6 ttl=63 time=1.67 ms
^Z
[8]+  Stopped                 ping r4
root@CN-R2:/home/student#
```

R3 pinging R2

R4 pinging R2

Ubuntu pinging R2