



Assignment

System Administration

DNS MASTER AND SLAVE

Configuration on CentOS Version 8 Running on Vmware Workstation Pro.

```
rpm -qi bind
```

```
yum install bind* -y
```

Firewall rules

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

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

```
firewall-cmd --reload
```

```
systemctl start bind
```

```
systemctl enable bind
```

```
systemctl status bind
```

Config file

```
vim /etc/named.conf
```

Add to options

-

```
allow-transfer { 192.168.83.137; };
```

```
allow-notify { 192.168.83.137; };
```

```
notify yes;
```

-

```
zone "nibm.lk" IN{
    type master;
    file "for.nibm.lk";
};
```

```
zone "83.168.192.in-addr.arpa" IN {
    type master;
    file "rev.nibm.lk";
};
```

Forward lookup for.nibm.lk

\$TTL 86400

```
@    IN    SOA    server.nibm.lk. root.nibm.lk. (
        25052020 ; Serial
        3600 ; Refresh
        1800 ; Retry
        86400 ; Expire
        86400 ; Minimum TTL
    )
```

;Nameservers-----

```
@    IN    NS     server.nibm.lk.
@    IN    NS     server2.nibm.lk.
```

;Server IP-----

server IN A 192.168.83.136

server2 IN A 192.168.83.13

;DNS Records-----

client IN A 192.168.1.30

client2 IN A 192.168.1.40

client3 IN A 192.168.1.50

client4 IN A 192.168.83.138

Reverse lookup zone (rev.nibm.lk)

\$TTL 86400

@ IN SOA server.nibm.lk. root.nibm.lk. (

25052080 ; Serial

3600 ; Refresh

1800 ; Retry

86400 ; Expire

86400 ; Minimul TTL

)

;Nameservers-----

@ IN NS server.nibm.lk. @ IN NS server2.nibm.lk.

;Server IP-----

server IN A 192.168.1.10 server2 IN A 192.168.1.20

;DNS Records-----

10 IN PTR server.nibm.lk. 20 IN PTR server2.nibm.lk. 30 IN PTR
client.nibm.lk. 40 IN PTR client2.nibm.lk. 50 IN PTR client3.nibm.lk.

APACHE WEB SERVER

```
<VirtualHost 192.168.83.136:80>
```

```
    ServerAdmin webmaster@hndne.nibm.lk
```

```
    DocumentRoot "/var/www/html"
```

```
    ServerName hndne.nibm.lk
```

```
<Directory /var/www/html/>
```

```
<RequireAll>
```

```
    Require all granted
```

```
    Require not ip 192.168.83.136
```

```
</RequireAll>
```

```
</Directory>
```

```
<Directory /var/www/html/hndir/>
```

```
<RequireAll>
```

```
    Require ip 192.168.83.136
```

```
</RequireAll>
```

```
</Directory>
```

```
</VirtualHost>
```