

## SERVER

=====

1. update the package list

+ sudo apt update

2. Install bind9 in your server

+ sudo apt install bind9

3. Install bind9-dnsutils (to run nslookup)

+ sudo apt install bind9-dnsutils

4. OPTIONAL (if you want the documentation then install bind9-doc)

+ sudo apt install bind9-doc

[[[[[ sudo apt update && sudo apt install bind9 bind9-dnsutils bind9-doc  
]]]]

5. modify /etc/resolv.conf [ Linux -&gt; DNS settings for name resolution ]

nameserver SERVER\_IP

ex.

nameserver 192.168.25.100

nameserver 192.168.0.1

6. When we restart networking (resolv.conf changes automatically). so we want to make it immutable

+ sudo chattr +i /etc/resolv.conf

(in case if you want to remove the attribute - chattr -i /etc/resolv.conf)

=====SERVER -&gt; DNS QUERY -&gt;??? =====

#FORWARD ZONE (Forward lookup)

localhost -&gt; 127.0.0.1

#Reverse Zone (Reverse Lookup)

127.0.0.1 -&gt; localhost

=====Configuration=====

/etc/bind/db.local - forward zone

/etc/bind/db.127 -Reverse Zone

/etc/named.conf.local -&gt; zones create (forward as well as reverse)

=====Configuration Check=====

named-checkconf [Check Configuration File]

named-checkzone ZONENAME FILE [Check Zone files] Forward as well as reverse

=====Verify=====

nslookup

Check for forward and reverse lookup

```
=====
```

```
apt install apache2 curl -y
```

```
index.html -> welcome to cdac
```

```
+++++
+++
```

```
=====Configuration [ cdac.local
]
```

```
/etc/bind/db.cdac - forward zone
```

```
/etc/bind/db.reverse -Reverse Zone
```

```
/etc/named.conf.local -> zones create (forward as well as reverse)
```

```
=====Configuration Check=====
```

```
named-checkconf [Check Configuration File]
```

```
named-checkzone ZONENAME FILE [Check Zone files] Forward as well as reverse
```

```
=====Verify=====
```

```
nslookup
```

```
Check for forward and reverse lookup
```

```
=====
```

```
apt install apache2 curl -y
```

```
index.html -> welcome to cdac
```

```
curl cdac.local
```

```
=====
```

#### CLIENT VERIFICATION

```
sudo apt install bind9-dnsutils curl
```

```
nslookup
```

```
ping
```

```
curl
```