

SERVER

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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

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

5. modify /etc/resolv.conf [Linux -> 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 -> DNS QUERY ->????=====

#FORWARD ZONE (Forward lookup)

localhost -> 127.0.0.1

#Reverse Zone (Reverse Lookup)

127.0.0.1 -> localhost

=====Configuration=====

/etc/bind/db.local - forward zone

/etc/bind/db.127 -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

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=====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

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apt install apache2 curl -y

index.html -> welcome to cdac

curl cdac.local

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CLIENT VERIFICATION

sudo apt install bind9-dnsutils curl

nslookup

ping

curl