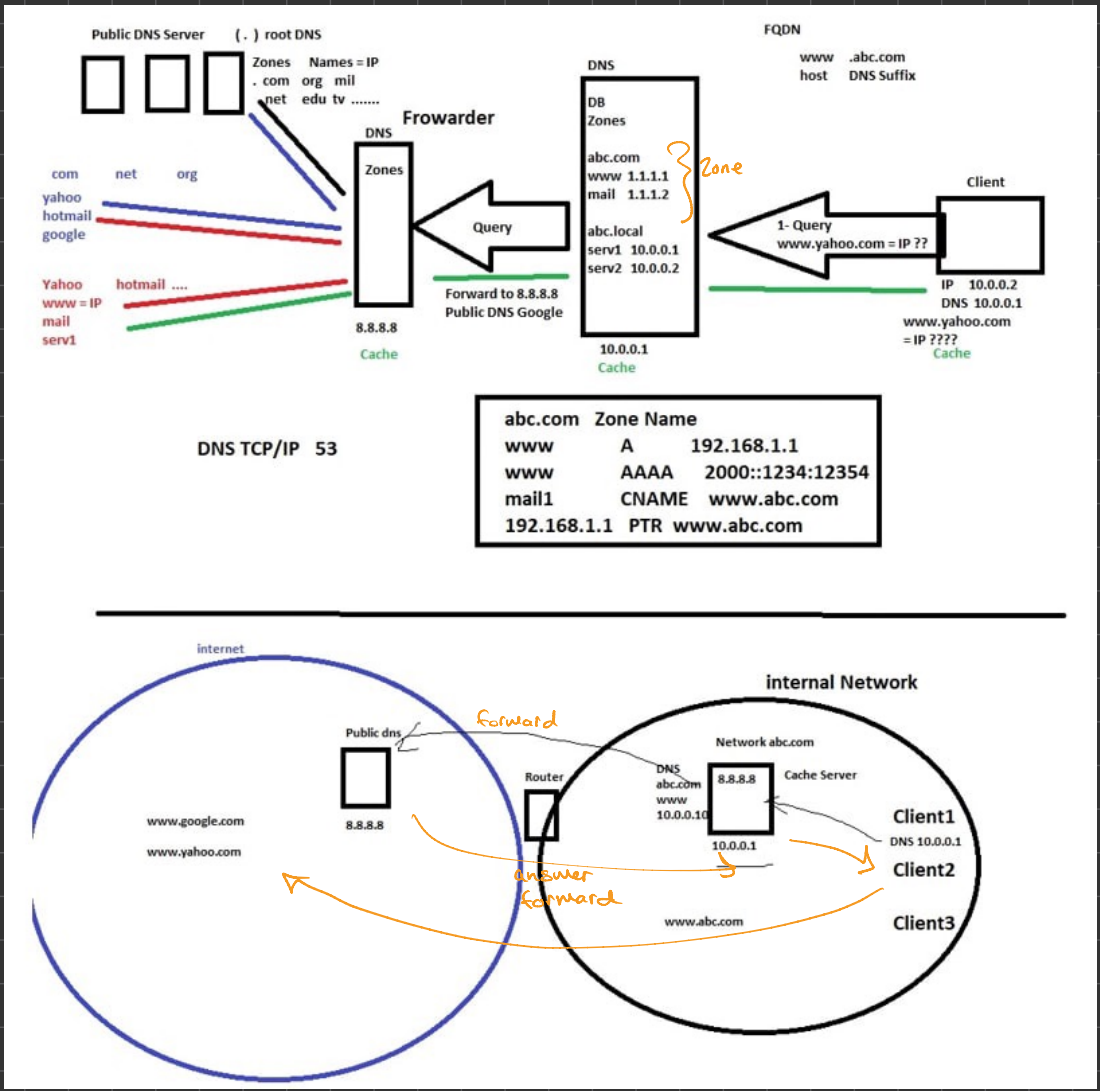
DNS

simple DN is pointing to difficult DN



System admin
Network engineer

Jobs

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Configure DNS Server
DNS Domain Name System ( Service Locator )
Mapping Computer To IP

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How DNS Works ?
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Package bind    ( Bekely Internet Naming Domain )   .rpm
Configuration Files   /etc/named.conf   dns configuration
Data Files            /var              dns zone files records
service  systemctl enable | start | status              named.service
Firewall Configuration to allow traffic
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DNS Server Configuration

# yum install bind*
# vim /etc/named.conf   Edit the folowing Lines
listen-on port 53 { 127.0.0.1; any; };                          allow traffic from any NIC interface for DNS Server
allow-query     { localhost; any; };                            allow queries from any client   10.0.0.0/8; 192.168.1.0/24 ; any
forwarders      { 8.8.8.8; };

zone "abc.com" IN {
        type master;
        file "abc.com.db";
};

# named-checkconf

# cp /var/named/named.empty /var/named/abc.com.db               copy sample file
# chgrp named /var/named/abc.com.db                             change group ownership to named
```

```
# vim /var/named/abc.com.db
$TTL 3H
@       IN SOA  abc.com. rname.invalid. (
                                        0       ; serial
                                        1D      ; refresh
                                        1H      ; retry
                                        1W      ; expire
                                        3H )    ; minimum
        NS      DNS1.abc.com.
        A       127.0.0.1
        AAAA    ::1
DNS1    IN      A       10.0.0.1
Web1    IN      A       10.0.0.2
www     IN      CNAME   web1.abc.com
mail    IN      A       10.0.0.3

Enable and Start DNS  Service :-
# systemctl enable named.service
# systemctl start named.service
# systemctl status named.service

allow firewall traffic :-
# firewall-cmd --add-service=dns --permanent
# firewall-cmd --reload
# firewall-cmd --list-services
--------------------------------------------------------------------------------
Configure DNS Client
# vim /etc/resolv.conf
nameserver 10.0.0.1

# nslookup www.abc.com
# nslookup mail.abc.com
# nslookup DNS1.abc.com
```