



Bharatiya Vidya Bhavan's
Sardar Patel Institute of Technology
Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
(Autonomous College Affiliated to University of Mumbai)

Information Technology Department

Academic Year: 2021-2022

Class: S.Y.B.Tech Sem.: IV Course: IT207 Computer Communications and Networks

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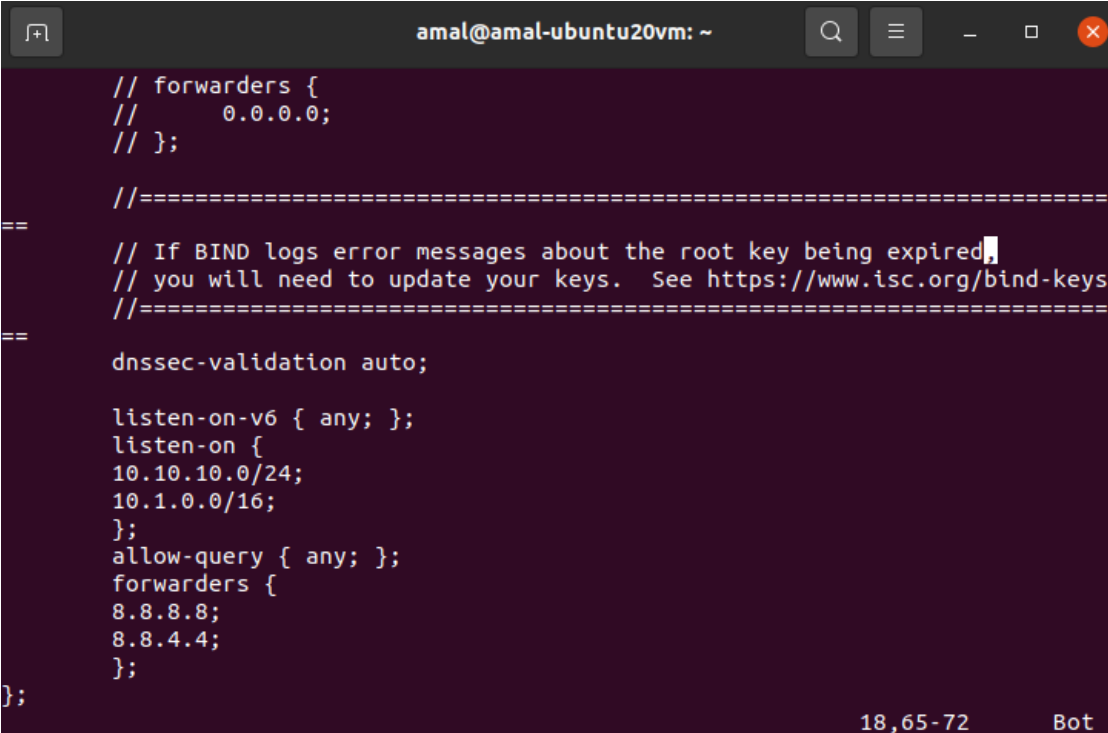
Class: IT (Batch-D)

Experiment No.: 9

Aim: Configuration on DNS Server.

Screenshots:

Configuration of local DNS Server



```
amal@amal-ubuntu20vm: ~  
// forwarders {  
//     0.0.0.0;  
// };  
  
//=====
```

```
==  
// If BIND logs error messages about the root key being expired,  
// you will need to update your keys. See https://www.isc.org/bind-keys  
//=====
```

```
==  
dnssec-validation auto;  
  
listen-on-v6 { any; };  
listen-on {  
    10.10.10.0/24;  
    10.1.0.0/16;  
};  
allow-query { any; };  
forwarders {  
    8.8.8.8;  
    8.8.4.4;  
};  
};  
  
18,65-72 Bot
```



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Before configuring local DNS Server

```
amal@amal-ubuntu20vm:~$ dig primary.linuxtechi.local

; <<>> DiG 9.16.1-Ubuntu <<>> primary.linuxtechi.local
;; global options: +cmd
;; Got answer:
;; WARNING: .local is reserved for Multicast DNS
;; You are currently testing what happens when an mDNS query is leaked to DNS
;; ->>HEADER<<- opcode: QUERY, status: NXDOMAIN, id: 7213
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags:; udp: 65494
;; QUESTION SECTION:
;primary.linuxtechi.local.      IN      A

;; Query time: 11 msec
;; SERVER: 127.0.0.53#53(127.0.0.53)
;; WHEN: Mon Apr 11 15:17:46 IST 2022
;; MSG SIZE rcvd: 53
```

After configuring local DNS Server

```
; <<>> DiG 9.10.3-P4-Ubuntu <<>> primary.linuxtechi.local
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 57362
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags:; udp: 4096
;; QUESTION SECTION:
;primary.linuxtechi.local.      IN      A

;; ANSWER SECTION:
primary.linuxtechi.local. 604800 IN      A      192.168.0.40
;; AUTHORITY SECTION:
linuxtechi.local.        604800 IN      NS      primary.linuxtechi.local.

;; Query time: 0 msec
;; SERVER: 192.168.0.40#53(192.168.0.40)
;; WHEN: Sat Nov 18 14:03:10 IST 2017
;; MSG SIZE rcvd: 83
```