TP DNS

Diagouraga   **TS1SIO**
Ibrahim

Tâche A : Préparation

2. Préparez les informations dont vous aurez besoin :
- **Nom de domaine : Btssio.local**
- **Adresse IP du serveur DNS :**
- **Nom du serveur DNS :**

```
  GNU nano 3.2                                    /etc/hostname

serveur_dns_ibrahim
```
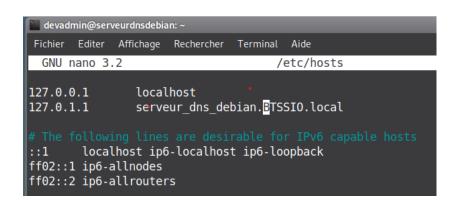
3. Vérifiez que votre serveur a une adresse ip statique

```
  GNU nano 3.2                          /etc/network/interfaces

# This file describes the network interfaces available
# and how to activate them. For more information, see

source /etc/network/interfaces.d/*

# The loopback network interface
auto ens33
iface ens33 inet static
address 172.20.50.50
netmask 255.255.255.0
gateway 172.20.50.254
```

```
devadmin@serveurdnsdebian: ~
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  GNU nano 3.2                          /etc/hosts

127.0.0.1       localhost
127.0.1.1       serveur_dns_debian.BTSSIO.local

# The following lines are desirable for IPv6 capable hosts
::1     localhost ip6-localhost ip6-loopback
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

```
  GNU nano 3.2                          /etc/hostname

serveur_dns_ibrahim
```

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```
root@serveurdnsdebian:/home/devadmin# apt install -y bind9-doc dnsutils
Lecture des listes de paquets... Fait
Construction de l'arbre des dépendances
Lecture des informations d'état... Fait
bind9-doc est déjà la version la plus récente (1:9.11.5.P4+dfsg-5.1+deb10u7).
dnsutils est déjà la version la plus récente (1:9.11.5.P4+dfsg-5.1+deb10u7).
0 mis à jour, 0 nouvellement installés, 0 à enlever et 8 non mis à jour.
root@serveurdnsdebian:/home/devadmin#
```

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```
  GNU nano 3.2              /etc/bind/named.conf.local              Modifié

zone "server_dns_debian.BTSSIO.local" IN { //Domain name
type master; //Primary DNS
file "/etc/bind/forward.server_dns_debian.BTSSIO.local"; //Forward lookup file
allow-update { none; }; // Since this is the primary DNS, it should be none.
};
```

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```
zone "1.168.192.in-addr.arpa" IN {
type master;
file "/etc/bind/reverse.server_dns_debian.BTSSIO.local";
allow-update { none; };
};
```

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```
root@serveurdnsdebian:/home/devadmin# systemctl status bind9
● bind9.service - BIND Domain Name Server
   Loaded: loaded (/lib/systemd/system/bind9.service; enabled; vendor preset: en
   Active: active (running) since Wed 2023-03-22 11:28:10 CET; 23min ago
     Docs: man:named(8)
  Process: 585 ExecStart=/usr/sbin/named $OPTIONS (code=exited, status=0/SUCCESS
 Main PID: 594 (named)
    Tasks: 4 (limit: 2315)
   Memory: 15.0M
   CGroup: /system.slice/bind9.service
           └─594 /usr/sbin/named -u bind

mars 22 11:28:10 serveurdnsdebian named[594]: network unreachable resolving './D
mars 22 11:28:10 serveurdnsdebian named[594]: network unreachable resolving './N
mars 22 11:28:10 serveurdnsdebian named[594]: network unreachable resolving './D
mars 22 11:28:10 serveurdnsdebian named[594]: network unreachable resolving './N
mars 22 11:28:10 serveurdnsdebian named[594]: network unreachable resolving './D
mars 22 11:28:10 serveurdnsdebian named[594]: network unreachable resolving './N
mars 22 11:28:10 serveurdnsdebian named[594]: network unreachable resolving './D
mars 22 11:28:10 serveurdnsdebian named[594]: network unreachable resolving './N
mars 22 11:28:20 serveurdnsdebian named[594]: managed-keys-zone: Unable to fetch
mars 22 11:28:20 serveurdnsdebian named[594]: resolver priming query complete
lines 1-21/21 (END)
```

```
devadmin@serveurdnsdebian: ~                                    _ □ X

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  GNU nano 3.2              /etc/bind/forward.monlab.local.db          Modifié

;
; BIND data file for local loopback interface
;
$TTL    604800
@       IN      SOA     ns1.server_dns_debian_BTSSIO.local. root.server_dns_debia$
                        2               ; Serial
                    604800              ; Refresh
                     86400              ; Retry
                   2419200              ; Expire
                    604800 )            ; Negative Cache TTL
;
; Comment out below three lines
;@      IN      NS      localhost.
;@      IN      A       127.0.0.1
;@      IN      AAAA    ::1
;Name Server Information
@       IN      NS      ns1.server_dns_debian_BTSSIO.local
;IP address of Name Server
ns1     IN      A       192.168.0.10
```

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```
root@serveurdnsdebian:/home/devadmin# dig @172.20.50.50

; <<>> DiG 9.11.5-P4-5.1+deb10u7-Debian <<>> @172.20.50.50
; (1 server found)
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: SERVFAIL, id: 9328
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4096
; COOKIE: 957f46e5de0f5b1af9a06c8c641ae3e3dbcd176426f61304 (good)
;; QUESTION SECTION:
;.                              IN      NS

;; Query time: 2 msec
;; SERVER: 172.20.50.50#53(172.20.50.50)
;; WHEN: mer. mars 22 12:17:55 CET 2023
;; MSG SIZE  rcvd: 56
```