

Mise en place du Serveur DNS

Création du conteneur

Edit: Network Device (veth)

Name:	eth0	IPv4:	☒ Static ☐ DHCP
MAC address:	BC:24:11:03:57:36	IPv4/CIDR:	172.16.10.12/24
Bridge:	vmbr333	Gateway (IPv4):	255.255.255.0
VLAN Tag:	no VLAN	IPv6:	☒ Static ☐ DHCP ☐ SLAAC
Firewall:	☒	IPv6/CIDR:	None
		Gateway (IPv6):	

Disconnect:	☐	Rate limit (MB/s):	unlimited
MTU:	Same as bridge		

Help

Advanced ☒

OK

Installer le service DNS (Bind)

```
apt update && apt upgrade
apt -y install bind9 dnsutils
```

Configuration du résolveur DNS (resolv.conf)

Il faut éditer le fichier en ajoutant : `nano /etc/resolv.conf`

```
search johannesburg.cub.fr nameserver 172.16.10.12
```

Définir les options globales

Il faut modifier le fichier `/etc/bind/named.conf.options` en ajoutant : `nano /etc/bind/named.conf.options`

```
options {
    directory "/var/cache/bind";
    listen-on port 53 { 127.0.0.1; 172.16.8.10; };
    // If there is a firewall between you and nameservers you want
```

```

// to talk to, you may need to fix the firewall to allow multiple
// ports to talk. See http://www.kb.cert.org/vuls/id/800113

// If your ISP provided one or more IP addresses for stable
// nameservers, you probably want to use them as forwarders.
// Uncomment the following block, and insert the addresses replacing
// the all-0's placeholder.

//=====
// 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;
recursion no;
version none;

allow-query {
    192.168.10.0/24;
    172.16.30.0/24;
};

};

```

Modification du fichier de configuration principal de zone DNS

Modifier le fichier /etc/bind/named.conf.local : `nano /etc/bind/named.conf.local`

```

zone "johannesburg.cub.fr" {
    type master;
    file "/etc/bind/db.johannesburg.cub.fr";
};

```

Créer le fichier de zone

`nano /etc/bind/db.johannesburg.cub.fr`

```

$TTL 1D
johannesburg.cub.fr.      IN      SOA      ns0.johannesburg.cub.fr.
root.johannesburg.cub.fr. (
    2006031201          ; serial
    1D                  ; refresh

```

```
1H          ; retry
1W          ; expire
3H)         ; Negative Cache TTL
```

```
johannesburg.cub.fr. IN      NS      ns0.johannesburg.cub.fr.
@            IN      A      192.168.10.0
dns0        IN      A      192.168.8.23
ns0         IN      A      172.16.10.10
dhcp        IN      A      172.16.30.100
```

Puis redémarrer le service DHCP :

```
systemctl restart bind9
```

Test du serveur DNS

Commande pour test la configuration : **named-checkconf -z**

```
root@ns0:/root# named-checkconf -z
zone johannesburg.cub.fr/IN: loaded serial 1
/etc/bind/_msdcs.agence.cub.fr:2: ignoring out-of-zone data (agence.cub.fr)
/etc/bind/_msdcs.agence.cub.fr:9: ignoring out-of-zone data (agence.cub.fr)
zone _msdcs.johannesburg.cub.fr/IN: has 0 SOA records
zone _msdcs.johannesburg.cub.fr/IN: has no NS records
zone _msdcs.johannesburg.cub.fr/IN: not loaded due to errors.
_default/_msdcs.johannesburg.cub.fr/IN: bad zone
zone localhost/IN: loaded serial 2
zone 127.in-addr.arpa/IN: loaded serial 1
zone 0.in-addr.arpa/IN: loaded serial 1
zone 255.in-addr.arpa/IN: loaded serial 1
```

Commande pour un autre test : hostname

```
root@ns0:/root# hostname
ns0
```