

Installation des services réseau sur Linux (DNS, DHCP, DHCP Relay, Web, HAProxy)

1. Pré-requis :

- Système : Debian/Ubuntu
- Accès root ou sudo
- Réseau configuré

2. Installation DNS (Bind9) :

```
sudo apt update && sudo apt install bind9 -y
```

Fichier de zone :

```
sudo nano /etc/bind/named.conf.local
```

Ajouter :

```
zone "monsite.local" {  
    type master;  
    file "/etc/bind/db.monsite.local";  
};
```

Créer le fichier :

```
sudo cp /etc/bind/db.local /etc/bind/db.monsite.local
```

```
sudo nano /etc/bind/db.monsite.local
```

Redémarrer :

```
sudo systemctl restart bind9
```

3. Installation DHCP (isc-dhcp-server) :

```
sudo apt install isc-dhcp-server -y
```

Configurer :

```
sudo nano /etc/dhcp/dhcpd.conf
```

Exemple :

```
subnet 192.168.1.0 netmask 255.255.255.0 {  
    range 192.168.1.100 192.168.1.200;  
    option routers 192.168.1.1;  
    option domain-name-servers 192.168.1.1;  
}
```

Activer interface :

```
sudo nano /etc/default/isc-dhcp-server
```

Redémarrer :

```
sudo systemctl restart isc-dhcp-server
```

4. Configuration DHCP Relay (isc-dhcp-relay) :

```
sudo apt install isc-dhcp-relay -y
```

Configurer :

```
sudo nano /etc/default/isc-dhcp-relay
```

Modifier :

```
SERVERS="192.168.1.1"
```

```
INTERFACES="eth0 eth1"
```

```
OPTIONS=""
```

Redémarrer :

```
sudo systemctl restart isc-dhcp-relay
```

5. Installation serveur Web (Apache2) :

```
sudo apt install apache2 -y
```

Placer les fichiers web dans :

```
/var/www/html/
```

Vérifier avec :

```
http://localhost
```

6. Installation HAProxy :

```
sudo apt install haproxy -y
```

Configurer :

```
sudo nano /etc/haproxy/haproxy.cfg
```

Exemple simple :

```
frontend http-in
```

```
    bind *:80
```

```
    default_backend webservers
```

```
backend webservers
```

balance roundrobin

server web1 192.168.1.10:80 check

server web2 192.168.1.11:80 check

Redémarrer :

sudo systemctl restart haproxy