2024/03/08 14:03 1/7 mission3

DNS

Duplication Template

Dans un premier nous allons dupliquer le container Template et configurer le nouveau container pour cela nous utiliserons les commande ci-dessous :

```
lxc-copy -n template -N dns1 #dupliquer et renommer
lxc-start dns1 #démmarer le nouveau container
lxc-attach dns1 #rentrer dans le container
```

```
nano /etc/network/interfaces #modifier la configuration de l'ip auto lo iface lo inet loopback

auto eth0 iface eth0 inet static address 10.31.80.53/20 gateway 10.31.80.254 dns-nameserver 8.8.8.8
```

Sortir du nano avec ctrl o enter puis ctrl x ensuite il faut sortir du container et le redémarrer puis vérifier si la configuration est bonne.

Pour sortir faire un ctrl d puis utiliser les commandes :

```
lxc-stop dns1
lxc-start dns1
lxc-info dns1
```

```
root@srv-g5:~# lxc-start templat
lxc-start: templat: tools/lxc_start.c: main: 268 No container config specified
root@srv-g5:~# lxc-start template
root@srv-g5:~# lxc-info template
                        template
RUNNING
State:
                                      10.31.80.2
                                      vethUvSEBw
   TX bytes:
 RX bytes: 2.39 KiB
Total bytes: 2.96 KiB
root@srv-g5:-# lxc-stop
root@srv-gs:-# lxc-stop
lxc-stop: No container name specified
root@srv-g5:-# lxc-stop template
root@srv-g5:-# lxc-copy -n template -N dns1
root@srv-g5:-# lxc-star dns1
-bash: lxc-star: commande introuvable
root@srv-g5:-# lxc-start dns1
root@srv-g5:-# lxc-info dns1
                              dns1
RUNNING
 State:
                                      10.31.80.2
Link:
                                      vethX05ZiJ
                                     586 bytes
   TX bytes:
 TX bytes: 2.29 KiB
Total bytes: 2.86 KiB
root@srv-g5:-# lxc-attach dns1
root@dns1:-#
```

Nous pouvons maintenant installer les outils nécessaire pour la création du DNS.

Création du DNS Master

Une fois le container configuré nous pouvons installer bind9 avec ses outils. pour cela nous utiliserons apt install.

```
apt install bind9
apt install bind9utils
apt install dnsutils
```

```
The state of the s
```

Une fois les installation terminer nous pouvons déclarer la zone à gérer dans named.conf.local avec le type « master »

```
zone "m2l.org" IN {
          type master;
          file "/etc/bind/db.m2l.org";
};
```

2024/03/08 14:03 3/7 mission3

Il faut également modifier le fichier named.conf.options

```
options {
         directory "/var/cache/bind";
         dnssec-validation no;
        allow-query { any; };
        recursion yes;
        forwarders { 8.8.8.8; 8.8.4.4; };
        forward only;
};
```

```
ONU name 5.4

// Do any local configuration here

// One say local configuration here

// Consider adding the 1918 comes here, if they are not used in year

// consider adding the 1918 comes here, if they are not used in year

// consider adding the 1918 comes here, if they are not used in year

// consider adding the 1918 comes here, if they are not used in year

// consider adding the 1918 comes here, if they are not used in year

// consider adding the 1918 comes in they are not used in year

// consider adding the 1918 comes in they are not used in year

// consider adding the 1918 comes in they are not used in year

// consider adding the 1918 comes in they are not used in year

// consider adding the 1918 comes in they are not used in year

// consider adding the 1918 comes in they are not used in year

// consider adding the 1918 comes here, if they are not used in year

// consider adding the 1918 comes here, if they are not used in year

// consider adding the 1918 comes here, if they are not used in year

// consider adding the 1918 comes here, if they are not used in year

// consider adding the 1918 comes here, if they are not used in year

// consider adding the 1918 comes here, if they are not used in year

// consider adding the 1918 comes here, if they are not used in year

// consider adding the 1918 comes here, if they are not used in year

// consider adding the 1918 comes here, if they are not used in year

// consider adding the 1918 comes here, if they are not used in year

// consider adding the 1918 comes here, if they are not used in year

// consider adding the 1918 comes here, if they are not used in year

// consider adding the 1918 comes here

// consider adding the 19
```

Nous allons pouvoir configurer le fichier zone

```
GNU range 5.2

2 N 200 massel.arg. root.e2l.org (
200 massel.a
```

verif

DNS slave

création DNS Slave

Pour créer le DNS Slave nous allons dupliquer le container template puis modifier l'adresse ip du nouveau container tout de suite.

Pour la duplication du container template se référer a la première section de cette page en modifiant les information nécessaire. l'adresse IP dun DNS Slave sera 10.31.80.54

```
auto lo
iface lo inet loopback
auto eth0
iface eth0 inet static
address 10.31.80.54/20
gateway 10.31.80.254
dns-nameservers 10.31.80.53
```

```
root@srv-g5:~# lxc-stop dns2
root@srv-g5:~# lxc-start dns2
root@srv-g5:~# lxc-info dns2
               dns2
Name:
State:
               RUNNING
PID:
               160772
IP:
               10.31.80.54
Link:
               vethCJ9wo1
TX bytes: 1.28 KiB
RX bytes: 3.96 KiB
Total bytes: 5.24 KiB
```

une fois l'adresse IP changer et le container redémarrer nous pouvons configurer le DNS Slave, nous pouvons faire sa configuration.

Pour cela nous allons modifier les fichiers suivant.

2024/03/08 14:03 5/7 mission3

```
GNU mano 5.4 /etc/bind/named.conf.local

//
// Oo any local configuration here
//
// Consider adding the 1918 zones here, if they are not used in your
// organization
//include "/etc/bind/zones.rfc1918";

zone "m2l.org" IN {
    type slave;
    file "/var/lib/bind/db.m2l.org";
    masters {10.31.80.53;};
};
```

```
nano /etc/bind/named.conf.options
options {
         directory "/var/cache/bind";
         allow-query { any;};
         recursion yes;
         forwarders {
             8.8.8.8; 8.8.4.4;
         };
         forward only;
         dnssec-validation no;
};
```

```
GNU name 5.4 /etc/bind/named.conf.options

ptions {
    directory "/var/cache/bind";

    // 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.
    allow-query { any;};
    recursion yes;
    forwarders {
        8.8.8.8; 8.8.4.4;
    };

    forward only;

// // 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 no;
};
```

Modification du DNS Master

Après avoir configurer le DNS Slave il faut apporter des modification au DNS Master afin qu'il autorise le DNS Slave a récupérer le fichier db.m2l.org.

Pour cela il faut modifier le fichier /etc/bind/named.conf.local

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

zone "m2l.org" IN {
         type master;
         file "/etc/bind/db.m2l.org";
         allow-transfer {localhost; 10.31.80.53;};
         notify yes
         # cette ligne permet de notifier le DNS Slave lorsqu'une
         # modifictaion est effectué sur le DNS Master
};
```

```
GNU nano 5.4 /etc/bind/named.conf.local *

//
// Do any local configuration here
//
// Consider adding the 1918 zones here, if they are not used in your
// organization
//include "/etc/bind/zones.rfc1918";
zone "m2l.org" IN {
    type master;
    file "/etc/bind/db.m2l.org";
    allow-transfer {localhost; 10.31.80.53;};
    notify yes

};
```

Et modifier le fichier /etc/bind/db.m2l.org

```
$TTL
        604800
@ IN SOA ns1.m2l.org. root.m2l.org (
        2023012702
        604800
        86400
        2419200
        604800)
@ IN A 10.31.80.80
; DNS Server
@ IN NS ns1.m2l.org.
ns1 IN A 10.31.80.80
@ IN NS ns2.m2l.org.
ns2 IN A 10.31.80.54
; Machines
www IN A 10.31.80.80
; Aliases
console IN CNAME www
```

2024/03/08 14:03 7/7 mission3

From:

https://sisr2.beaupeyrat.com/ - Documentations SIO2 option SISR

Permanent link:

https://sisr2.beaupeyrat.com/doku.php?id=sisr1-g5:mission3

Last update: 2024/03/08 14:03

