

DEBIAN – SERVEUR DNS EN PLUS DU SERVEUR DHCP PRECEDANT

rappel

```
root@SRV-CYRIL:/etc# hostname
SRV-CYRIL
root@SRV-CYRIL:/etc#
```

PARTI DU DEBIAN SERVEUR DHCP PRECEDANT

```
root@SRV-CYRIL:/etc# nano hosts_
```

```
GNU nano 2.2.6 Fichier : hosts
127.0.0.1 localhost
127.0.0.1 SRV-CYRIL
172.20.21.250 SRV-CYRIL
```

```
root@SRV-CYRIL:/etc/network# nano interfaces_
```

```
GNU nano 2.2.6 Fichier : interfaces
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see ifconfig(8).

source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
allow-hotplug eth0
iface eth0 inet static
    address 172.20.21.250
    netmask 255.255.255.0
    network 172.20.21.0
    broadcast 172.20.21.255
    gateway 172.20.21.254
    # dns-* options are implemented by the resolvconf package
    dns-nameservers 172.20.21.254
    dns-search DNS-SRV-CYRIL
```

```
root@SRV-CYRIL:/etc# nano resolv.conf_
```

```
GNU nano 2.2.6 Fichier : resolv.conf
domain = DNS-SRV-CYRIL
search DNS-SRV-CYRIL
nameserver 172.20.21.250
```

SUR LE SERVEUR DHCP : MODIFS

```
root@SRV-CYRIL:/etc/dhcp# nano dhcpd.conf_
```

nouveau

```
GNU nano 2.2.6 Fichier
ddns-update-style none;
# option definitions common to all supported
option domain-name "DNS-SRV-CYRIL";
option domain-name-servers 172.20.21.250;
default-lease-time 600;
max-lease-time 7200;
# If this DHCP server is the official DHCP s
# network, the authoritative directive shou
#authoritative;
# Use this to send dhcp log messages to a d
# have to hack syslog.conf to complete the r
log-facility local7;
# No service will be given on this subnet, b
# DHCP server to understand the network top
subnet 172.20.21.0 netmask 255.255.255.0 {
range 172.20.21.1 172.20.21.9;
option routers 172.21.20.254;
default-lease-time 600;
max-lease-time 7200;
}
```

Ancien

```
GNU nano 2.2.6 Fichier : dh
ddns-update-style none;
# option definitions common to all supported ne
option domain-name "DNS";
option domain-name-servers 172.20.21.254, 8.8.8
default-lease-time 600;
max-lease-time 7200;
# If this DHCP server is the official DHCP serv
# network, the authoritative directive should b
#authoritative;
# Use this to send dhcp log messages to a diffe
# have to hack syslog.conf to complete the redi
log-facility local7;
# No service will be given on this subnet, but
# DHCP server to understand the network topolog
subnet 172.20.21.0 netmask 255.255.255.0 {
range 172.20.21.1 172.20.21.9;
option routers 172.21.20.254;
default-lease-time 600;
max-lease-time 7200;
}
```

Relancer

disable

```
root@SRV-CYRIL:/etc/bind# systemctl disable isc-dhcp-server.service
Synchronizing state for isc-dhcp-server.service with SysVinit using update-rc.d...
Executing /usr/sbin/update-rc.d isc-dhcp-server defaults
Executing /usr/sbin/update-rc.d isc-dhcp-server disable
insserv: warning: current start runlevel(s) (empty) of script `isc-dhcp-server' overrides LSB default
s (2 3 4 5).
insserv: warning: current stop runlevel(s) (0 1 2 3 4 5 6) of script `isc-dhcp-server' overrides LSB
defaults (0 1 6).
root@SRV-CYRIL:/etc/bind#
```

enable

```
root@SRV-CYRIL:/etc/bind# systemctl enable isc-dhcp-server.service
Synchronizing state for isc-dhcp-server.service with SysVinit using update-rc.d...
Executing /usr/sbin/update-rc.d isc-dhcp-server defaults
insserv: warning: current start runlevel(s) (empty) of script `isc-dhcp-server' overrides LSB default
s (2 3 4 5).
insserv: warning: current stop runlevel(s) (0 1 2 3 4 5 6) of script `isc-dhcp-server' overrides LSB
defaults (0 1 6).
Executing /usr/sbin/update-rc.d isc-dhcp-server enable
root@SRV-CYRIL:/etc/bind# _
```

statut

```
root@SRV-CYRIL:/etc/bind# systemctl status isc-dhcp-server.service
• isc-dhcp-server.service - LSB: DHCP server
  Loaded: loaded (/etc/init.d/isc-dhcp-server)
  Active: active (running) since mer. 2018-05-16 17:38:29 CEST; 49min ago
  CGroup: /system.slice/isc-dhcp-server.service
          └─633 /usr/sbin/dhcpd -q -cf /etc/dhcp/dhcpd.conf -pf /var/run/dhcpd.pid eth0

mai 16 18:12:03 SRV-CYRIL dhcpd[633]: DHCPINFORM from 172.20.21.1 via eth0: not authoritative...21.0
mai 16 18:12:06 SRV-CYRIL dhcpd[633]: DHCPINFORM from 172.20.21.1 via eth0: not authoritative...21.0
mai 16 18:13:17 SRV-CYRIL dhcpd[633]: DHCPINFORM from 172.20.21.1 via eth0: not authoritative...21.0
mai 16 18:13:21 SRV-CYRIL dhcpd[633]: DHCPINFORM from 172.20.21.1 via eth0: not authoritative...21.0
mai 16 18:14:30 SRV-CYRIL dhcpd[633]: DHCPREQUEST for 172.20.21.1 from 00:0c:29:b0:dd:97 (WIN...eth0
mai 16 18:14:30 SRV-CYRIL dhcpd[633]: DHCPACK on 172.20.21.1 to 00:0c:29:b0:dd:97 (WIN7-1-CYR...eth0
mai 16 18:19:30 SRV-CYRIL dhcpd[633]: DHCPREQUEST for 172.20.21.1 from 00:0c:29:b0:dd:97 (WIN...eth0
mai 16 18:19:30 SRV-CYRIL dhcpd[633]: DHCPACK on 172.20.21.1 to 00:0c:29:b0:dd:97 (WIN7-1-CYR...eth0
mai 16 18:24:30 SRV-CYRIL dhcpd[633]: DHCPREQUEST for 172.20.21.1 from 00:0c:29:b0:dd:97 (WIN...eth0
mai 16 18:24:30 SRV-CYRIL dhcpd[633]: DHCPACK on 172.20.21.1 to 00:0c:29:b0:dd:97 (WIN7-1-CYR...eth0
Hint: Some lines were ellipsized, use -l to show in full.
root@SRV-CYRIL:/etc/bind# _
```

Install bind9

```
root@SRV-CYRIL:/etc/network# apt-get install bind9
```

(si pb voir update / upgrade et fichier sources.list)

Après installation

```
root@SRV-CYRIL:/etc/network# nano named.conf.local
```

```
GNU nano 2.2.6 Fichier : named.conf.local

//
// Do any local configuration here
//

// Consider adding the 1918 zones here, if they are not used
// organization
//include "/etc/bind/zones.rfc1918";

zone "DNS-SRV-CYRIL" {
    type master;
    file "/etc/bind/db.SRV-CYRIL";
};

zone "21.20.172.in-addr.arpa" {
    type master;
    file "/etc/bind/db.21.20.172.in-addr.arpa";
};
```

```
root@SRV-CYRIL:/etc/network# nano db.SRV-CYRIL_
```

```
GNU nano 2.2.6 Fichier : db.SRV-CYRIL

$TTL 10800
$ORIGIN DNS-SRV-CYRIL.
@ IN SOA DNS-SRV-CYRIL. root.SRV.CYRIL. (
    20160505;
    3h;
    1h;
    1w;
    1h);
@ IN NS SRV-CYRIL.
SRV-CYRIL IN A 172.20.21.250
```

```
root@SRV-CYRIL:/etc/network# nano db.21.20.172.in-addr.arpa_
```

```
GNU nano 2.2.6 Fichier : db.21.20.172.in-addr.arpa

$TTL 10800
$ORIGIN 21.20.172.in-addr.arpa.
@ IN SOA DNS-SRV-CYRIL. root.SRV-CYRIL. (
    20160505;
    3h;
    1h;
    1w;
    1h);
@ IN NS DNS-SRV-CYRIL.
250 IN PTR DNS-SRV-CYRIL.
```

```
root@SRV-CYRIL:/etc/network# service bind9 restart_
```

```
root@SRV-CYRIL:/etc/network# named-checkconf -z_
```

Pour utilitaire « dig » (test sous linux)

```
root@SRV-CYRIL:/etc/bind# apt-get install dnsutils
```

Tests sous un client windows du serveur dhcp et de ce serveur DNS

```
C:\Windows\system32>ipconfig

Configuration IP de Windows

Carte Ethernet Connexion au réseau local :

    Suffixe DNS propre à la connexion. . . : DNS-SRV-CYRIL
    Adresse IPv4. . . . . : 172.20.21.1
    Masque de sous-réseau. . . . . : 255.255.255.0
    Passerelle par défaut. . . . . : 172.21.20.254
```

```
C:\Windows\system32>ipconfig /all

Configuration IP de Windows

    Nom de l'hôte . . . . . : WIN7-1-CYRIL
    Suffixe DNS principal . . . . . :
    Type de noeud . . . . . : Hybride
    Routage IP activé . . . . . : Non
    Proxy WINS activé . . . . . : Non
    Liste de recherche du suffixe DNS.: DNS-SRV-CYRIL

Carte Ethernet Connexion au réseau local :

    Suffixe DNS propre à la connexion. . . : DNS-SRV-CYRIL
    Description. . . . . : Connexion réseau Intel(R) PRO/1000 MT-CT
    Adresse physique . . . . . :
    DHCP activé. . . . . : Oui
    Configuration automatique activée. . . : Oui
    Adresse IPv4. . . . . : 172.20.21.1(préfééré)
    Masque de sous-réseau. . . . . : 255.255.255.0
    Bail obtenu. . . . . : mercredi 16 mai 2018 17:41:01
    Bail expirant. . . . . : mercredi 16 mai 2018 17:49:11
    Passerelle par défaut. . . . . : 172.21.20.254
    Serveur DHCP . . . . . : 172.20.21.250
    Serveurs DNS. . . . . : 172.20.21.250
    NetBIOS sur Tcpip. . . . . : Activé
```

```
C:\Windows\system32>nslookup
Serveur par défaut : DNS-SRV-CYRIL
Address: 172.20.21.250
```

```
C:\Windows\system32>ping 172.20.21.254

Envoi d'une requête 'Ping' 172.20.21.254 avec 32 octets de données :
Réponse de 172.20.21.254 : octets=32 temps<1ms TTL=128
```

```
C:\Windows\system32>ping 172.20.21.250

Envoi d'une requête 'Ping' 172.20.21.250 avec 32 octets de données :
Réponse de 172.20.21.250 : octets=32 temps<1ms TTL=64
```

```
C:\Windows\system32>ping SRV-CYRIL

Envoi d'une requête 'ping' sur SRV-CYRIL.DNS-SRV-CYRIL [172.20.21.250] :
Réponse de 172.20.21.250 : octets=32 temps<1ms TTL=64
```