

INSTALLATION SERVEUR DHCP

Le protocole DHCP permet la gestion simplifiée de la configuration IP hôtes. il gère l'allocation dynamique des @ IP de votre réseau.

Votre serveur DHCP gèrera l'attribution et la libération des données de configuration IP en louant la configuration d'@ IP au client de votre réseau.

I. Installation du serveur DHCP

✚ Installer les mises à jours du système : **apt-get update & apt-get upgrade**

✚ Verifier que le paquetage existe bien : **apt-cache search isc-dhcp-server**

```
[11]~ Fini apt-get update
root@srv1:/home/nb# apt-cache search isc-dhcp-server
isc-dhcp-server - serveur DHCP ISC pour l'affectation automatique d'adresse IP
isc-dhcp-server-ldap - DHCP server that uses LDAP as its backend
root@srv1:/home/nb#
```

✚ Installer avec la commande : **apt-get install isc-dhcp-server**

✚ Vérifier si tous les fichiers sont bien installer : **cd /etc/dhcp puis ls**

```
0 mis à jour, 0 nouvellement installés, 0 à enlever et 15 non mis à jour.
root@srv1:/home/nb# cd /etc/dhcp
root@srv1:/etc/dhcp# ls
ddns-keys debug dhclient.conf dhclient-enter-hooks.d dhclient-exit-hooks.d dhcpd.conf
root@srv1:/etc/dhcp# _
```

✚ Sauvegarde du fichier /etc/dhcp/dhcpd.conf :

II. Configurations du serveur DHCP

✚ Choisir quelle interface votre serveur DHCP doit utiliser : **nano /etc/default/isc-dhcp-server**

```
GNU nano 2.5.3          Fichier : /etc/default/isc-dhcp-server          Modifié
# Defaults for isc-dhcp-server initscript
# sourced by /etc/init.d/isc-dhcp-server
# installed at /etc/default/isc-dhcp-server by the maintainer scripts
#
# This is a POSIX shell fragment
#
# Path to dhcpd's config file (default: /etc/dhcp/dhcpd.conf).
#DHCPD_CONF=/etc/dhcp/dhcpd.conf
# Path to dhcpd's PID file (default: /var/run/dhcpd.pid).
#DHCPD_PID=/var/run/dhcpd.pid
# Additional options to start dhcpd with.
# Don't use options -cf or -pf here; use DHCPD_CONF/ DHCPD_PID instead
#OPTIONS=""
# On what interfaces should the DHCP server (dhcpd) serve DHCP requests?
# Separate multiple interfaces with spaces, e.g. "eth0 eth1".
INTERFACES="ens38"
```

✚ Editer le fichier /etc/network/interfaces : puis redémarrer le service

```
GNU nano 2.5.3          Fichier : /etc/network/interfaces          Modifié
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
auto ens33
iface ens33 inet dhcp

auto ens38
iface ens38 inet static
address 172.25.205.254
netmask 255.255.255.0
dns-nameservers 172.25.205.250
```

✚ Editer le fichier dhcpd.conf : nano /etc/dhcp/dhcpd.conf

```
#
# Sample configuration file for ISC dhcpd for Debian
#
# Attention: If /etc/ltsp/dhcpd.conf exists, that will be used as
# configuration file instead of this file.
#
#
# The ddns-update-style parameter controls whether or not the server will
# attempt to do a DNS update when a lease is confirmed. We default to the
# behavior of the version 2 packages ('none', since DHCP v2 didn't
# have support for DDNS.)
ddns-update-style none;

# option definitions common to all supported networks...
option domain-name "bouryt.lan";
option domain-name-servers srv.bouryt.lan;

default-lease-time 600;
max-lease-time 7200;

# If this DHCP server is the official DHCP server for the local
# network, the authoritative directive should be uncommented.
#authoritative;

# Use this to send dhcp log messages to a different log file (you also
# have to hack syslog.conf to complete the redirection).
log-facility local7;
```

```
default-lease-time 600;
max-lease-time 7200;

# If this DHCP server is the official DHCP server for the local
# network, the authoritative directive should be uncommented.
#authoritative;

# Use this to send dhcp log messages to a different log file (you also
# have to hack syslog.conf to complete the redirection).
log-facility local7;

# No service will be given on this subnet, but declaring it helps the
# DHCP server to understand the network topology.

subnet 172.25.205.0 netmask 255.255.255.0 {
    range 172.25.205.10 172.25.205.20;
    option broadcast-address 172.25.205.255;
    option routers 172.25.205.250;
}

# This is a very basic subnet declaration.

#subnet 10.254.239.0 netmask 255.255.255.224 {
#    range 10.254.239.10 10.254.239.20;
#    option routers rtr-239-0-1.example.org, rtr-239-0-2.example.org;
#}

# This declaration allows BOOTP clients to get dynamic addresses,
# which we don't really recommend.

#subnet 10.254.239.32 netmask 255.255.255.224 {
```

- ✚ Redémarrer le service DHCP avec la commande : **service isc-dhcp-server start**
- ✚ Vérifier que le serveur est opérationnel : **ps -ef | grep dhcpd**

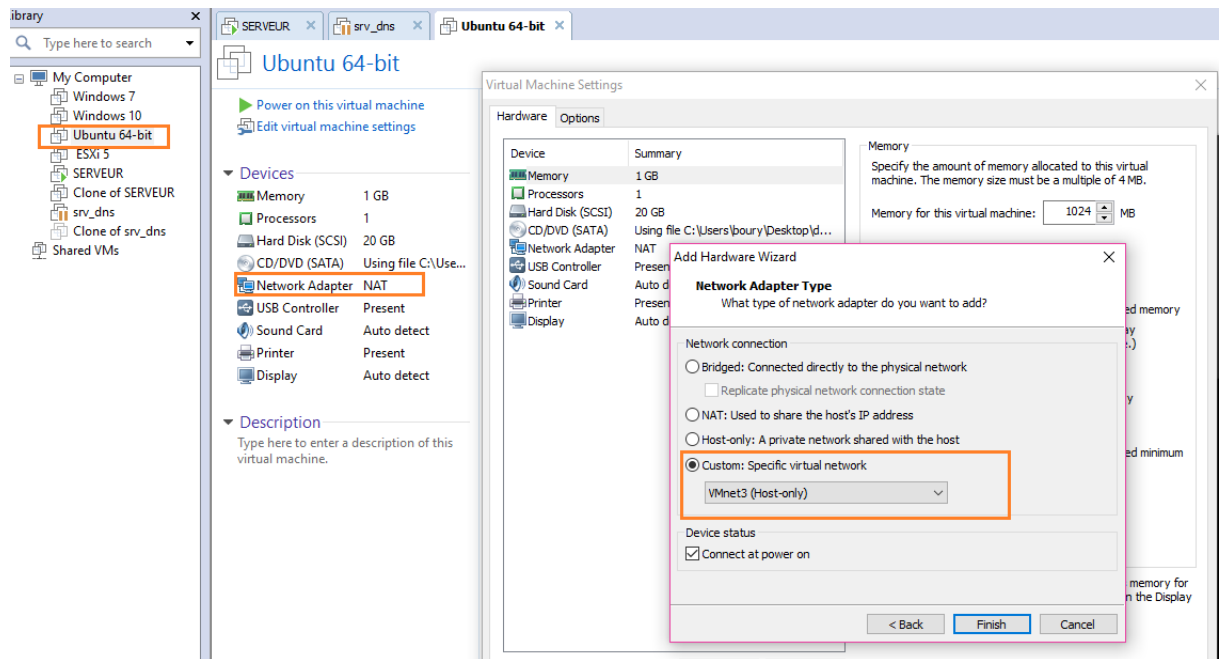
```
May 17 16:35:27 srv1 dhcpd[2589]: Server starting service.
root@srv1:/etc/dhcp# ps -ef | grep dhcpd
dhcpd    2589    1  0 16:35 ?        00:00:00 dhcpd -user dhcpd -group dhcpd -f -4 -pf /run/dhcp
-server/dhcpd.pid -cf /etc/dhcp/dhcpd.conf ens38
root     2599   1582  0 16:43 tty1    00:00:00 grep --color=auto dhcpd
root@srv1:/etc/dhcp# _
```

- ✚ En cas de problème de configuration ou erreur consulter le syslog : **cat /var/log/syslog** ou **nano /var/log/syslog**.

```
May 17 16:34:36 srv1 named[1323]: configuring command channel from '/etc/bind/rndc.key'
May 17 16:34:36 srv1 named[1323]: configuring command channel from '/etc/bind/rndc.key'
May 17 16:34:36 srv1 named[1323]: reloading configuration succeeded
May 17 16:34:36 srv1 named[1323]: any newly configured zones are now loaded
May 17 16:34:36 srv1 named[1323]: managed-keys-zone: Unable to fetch DNSKEY set '.': operation canceled
May 17 16:34:36 srv1 systemd[1]: Started Raise network interfaces.
May 17 16:34:43 srv1 ntpdate[2372]: adjust time server 91.189.89.198 offset -0.005164 sec
May 17 16:35:26 srv1 systemd[1]: Started ISC DHCP IPv4 server.
May 17 16:35:26 srv1 dhcpd[2589]: Internet Systems Consortium DHCP Server 4.3.3
May 17 16:35:26 srv1 sh[2589]: Internet Systems Consortium DHCP Server 4.3.3
May 17 16:35:26 srv1 dhcpd[2589]: Copyright 2004-2015 Internet Systems Consortium.
May 17 16:35:26 srv1 sh[2589]: Copyright 2004-2015 Internet Systems Consortium.
May 17 16:35:26 srv1 dhcpd[2589]: All rights reserved.
May 17 16:35:26 srv1 sh[2589]: All rights reserved.
May 17 16:35:26 srv1 dhcpd[2589]: For info, please visit https://www.isc.org/software/dhcp/
May 17 16:35:26 srv1 sh[2589]: For info, please visit https://www.isc.org/software/dhcp/
May 17 16:35:27 srv1 dhcpd[2589]: Config file: /etc/dhcp/dhcpd.conf
May 17 16:35:27 srv1 sh[2589]: Config file: /etc/dhcp/dhcpd.conf
May 17 16:35:27 srv1 dhcpd[2589]: Database file: /var/lib/dhcp/dhcpd.leases
May 17 16:35:27 srv1 sh[2589]: Database file: /var/lib/dhcp/dhcpd.leases
May 17 16:35:27 srv1 dhcpd[2589]: PID file: /run/dhcp-server/dhcpd.pid
May 17 16:35:27 srv1 sh[2589]: PID file: /run/dhcp-server/dhcpd.pid
May 17 16:35:27 srv1 dhcpd[2589]: Internet Systems Consortium DHCP Server 4.3.3
May 17 16:35:27 srv1 dhcpd[2589]: Copyright 2004-2015 Internet Systems Consortium.
May 17 16:35:27 srv1 dhcpd[2589]: All rights reserved.
May 17 16:35:27 srv1 dhcpd[2589]: For info, please visit https://www.isc.org/software/dhcp/
May 17 16:35:27 srv1 dhcpd[2589]: Wrote 0 leases to leases file.
May 17 16:35:27 srv1 sh[2589]: Wrote 0 leases to leases file.
May 17 16:35:27 srv1 dhcpd[2589]: Listening on LPF/ens38/00:0c:29:2f:f2:01/172.25.205.0/24
May 17 16:35:27 srv1 sh[2589]: Listening on LPF/ens38/00:0c:29:2f:f2:01/172.25.205.0/24
May 17 16:35:27 srv1 dhcpd[2589]: Sending on LPF/ens38/00:0c:29:2f:f2:01/172.25.205.0/24
May 17 16:35:27 srv1 sh[2589]: Sending on LPF/ens38/00:0c:29:2f:f2:01/172.25.205.0/24
May 17 16:35:27 srv1 dhcpd[2589]: Sending on Socket/fallback/fallback-net
May 17 16:35:27 srv1 sh[2589]: Sending on Socket/fallback/fallback-net
May 17 16:35:27 srv1 dhcpd[2589]: Server starting service.
root@srv1:/etc/dhcp#
```

III. Configuration des postes clients

- ✚ Sur Ubuntu



Sur Windows

