Filière WM 2024
Module :

< Configuration d'un serveur DDNS sous Linux >

Réalisé par
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Date : **le 03/04/2024**
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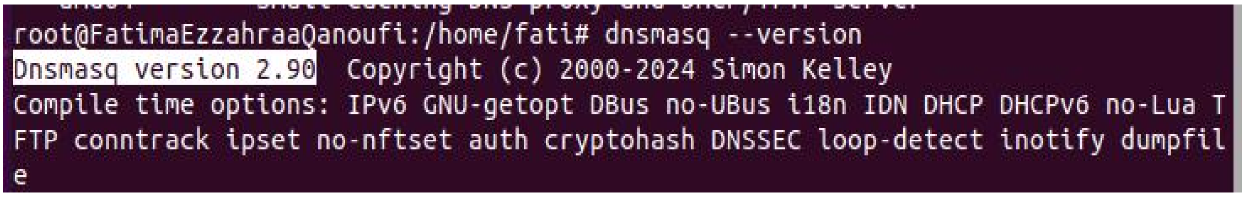
1. Installation de Dnsmasq :

Sur Ubuntu : sudo apt-get install dnsmasq

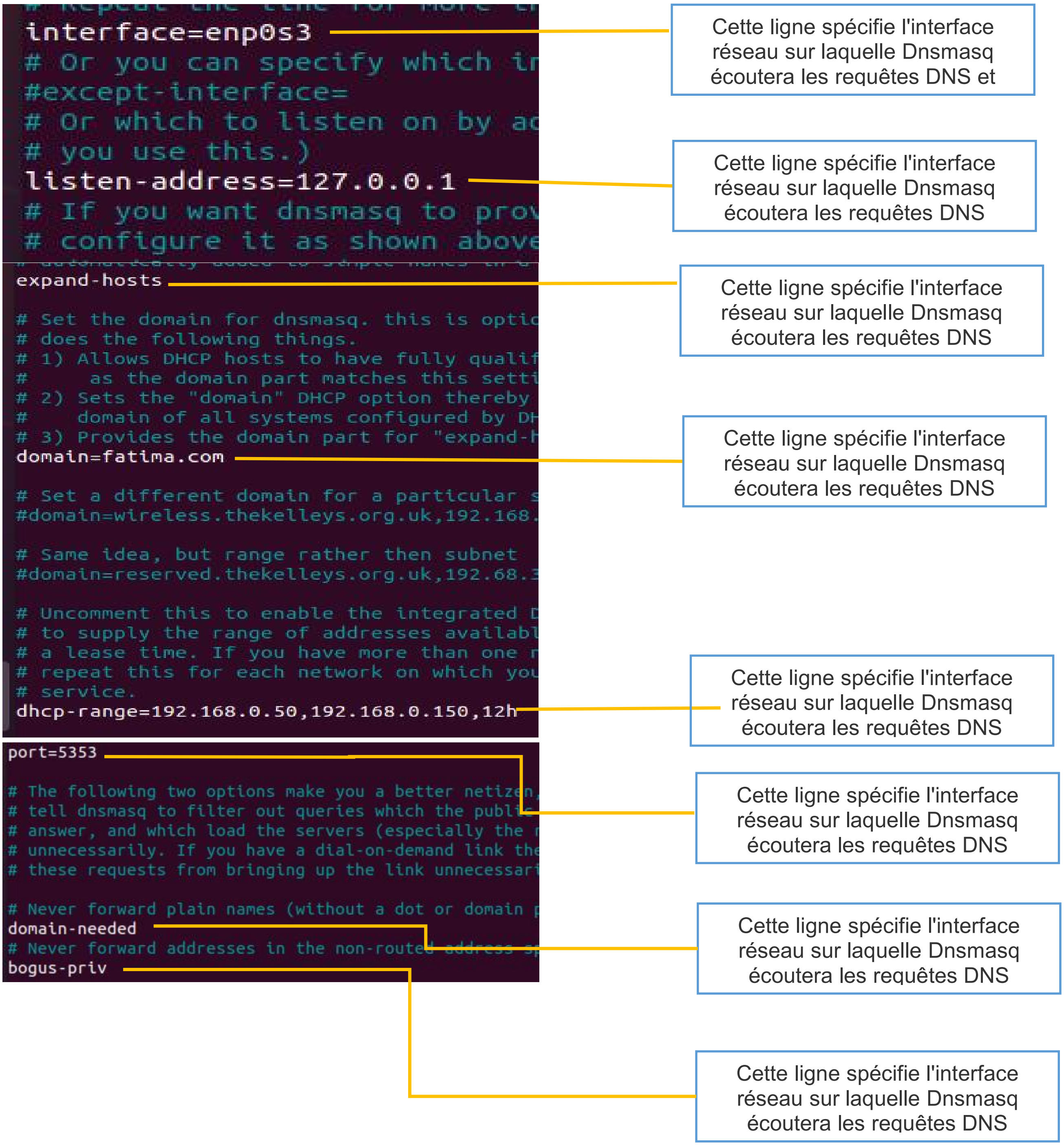
Verification de version de dnsmasq installe:



```
root@FatimaEzzahraaQanoufi:/home/fati# dnsmasq --version
Dnsmasq version 2.90  Copyright (c) 2000-2024 Simon Kelley
Compile time options: IPv6 GNU-getopt DBus no-UBus i18n IDN DHCP DHCPv6 no-Lua T
FTP conntrack ipset no-nftset auth cryptohash DNSSEC loop-detect inotify dumpfil
e
```

2. Configuration de Dnsmasq :

On va configurer le fichier principal dnsmasq.conf comme suit:



```
interface=enp0s3
# Or you can specify which ir
#except-interface=
# Or which to listen on by ac
# you use this.)
listen-address=127.0.0.1
# If you want dnsmasq to prov
# configure it as shown above
```

```
expand-hosts

# Set the domain for dnsmasq. this is optic
# does the following things.
# 1) Allows DHCP hosts to have fully qualif
#      as the domain part matches this setti
# 2) Sets the "domain" DHCP option thereby
#    domain of all systems configured by DH
# 3) Provides the domain part for "expand-h
domain=fatima.com

# Set a different domain for a particular s
#domain=wireless.thekelleys.org.uk,192.168.

# Same idea, but range rather then subnet
#domain=reserved.thekelleys.org.uk,192.68.3

# Uncomment this to enable the integrated D
# to supply the range of addresses availabl
# a lease time. If you have more than one n
# repeat this for each network on which you
# service.
dhcp-range=192.168.0.50,192.168.0.150,12h
```

```
port=5353

# The following two options make you a better netizen,
# tell dnsmasq to filter out queries which the public
# answer, and which load the servers (especially the r
# unnecessarily. If you have a dial-on-demand link the
# these requests from bringing up the link unnecessari

# Never forward plain names (without a dot or domain p
domain-needed
# Never forward addresses in the non-routed address sp
bogus-priv
```

Cette ligne spécifie l'interface réseau sur laquelle Dnsmasq écoutera les requêtes DNS et

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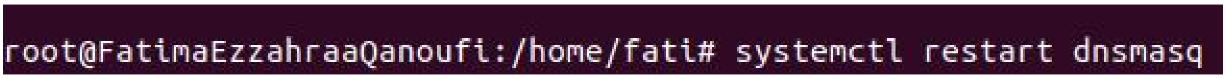
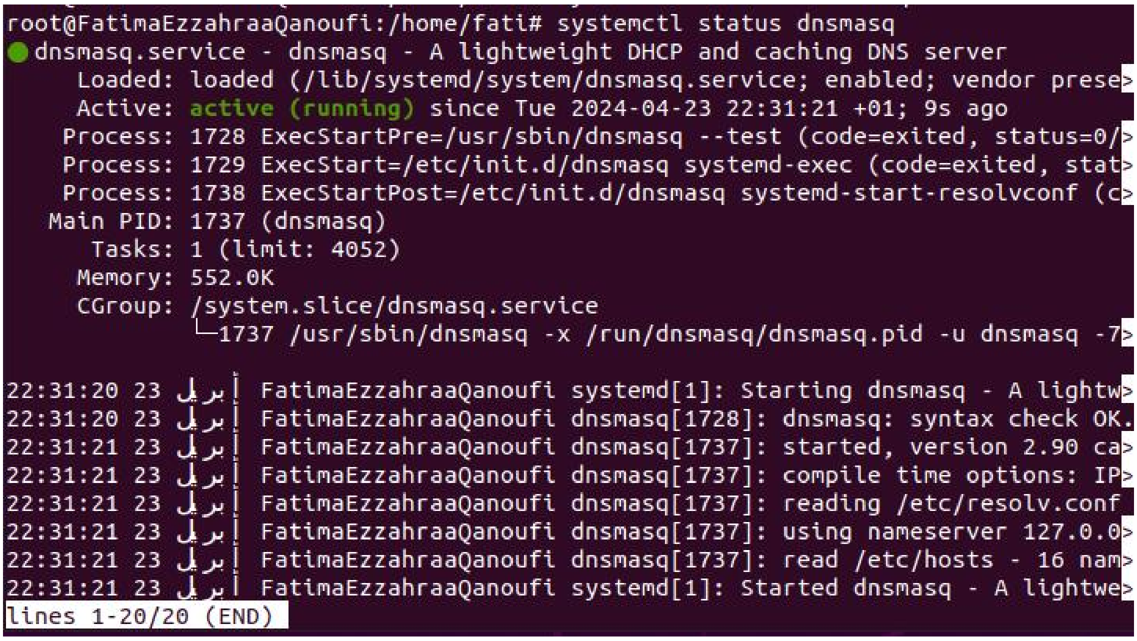
3. Redémarrage du service :



```
root@FatimaEzzahraaQanoufi:/home/fati# systemctl restart dnsmasq
```

Verification de l’etat de notre dns avec la commande systemctl status dnsmasq:



```
root@FatimaEzzahraaQanoufi:/home/fati# systemctl status dnsmasq
● dnsmasq.service - dnsmasq - A lightweight DHCP and caching DNS server
     Loaded: loaded (/lib/systemd/system/dnsmasq.service; enabled; vendor prese>
     Active: active (running) since Tue 2024-04-23 22:31:21 +01; 9s ago
    Process: 1728 ExecStartPre=/usr/sbin/dnsmasq --test (code=exited, status=0/>
    Process: 1729 ExecStart=/etc/init.d/dnsmasq systemd-exec (code=exited, stat>
    Process: 1738 ExecStartPost=/etc/init.d/dnsmasq systemd-start-resolvconf (c>
   Main PID: 1737 (dnsmasq)
      Tasks: 1 (limit: 4052)
     Memory: 552.0K
     CGroup: /system.slice/dnsmasq.service
             └─1737 /usr/sbin/dnsmasq -x /run/dnsmasq/dnsmasq.pid -u dnsmasq -7>

22:31:20 23 أبريل FatimaEzzahraaQanoufi systemd[1]: Starting dnsmasq - A lightw>
22:31:20 23 أبريل FatimaEzzahraaQanoufi dnsmasq[1728]: dnsmasq: syntax check OK.
22:31:21 23 أبريل FatimaEzzahraaQanoufi dnsmasq[1737]: started, version 2.90 ca>
22:31:21 23 أبريل FatimaEzzahraaQanoufi dnsmasq[1737]: compile time options: IP>
22:31:21 23 أبريل FatimaEzzahraaQanoufi dnsmasq[1737]: reading /etc/resolv.conf
22:31:21 23 أبريل FatimaEzzahraaQanoufi dnsmasq[1737]: using nameserver 127.0.0>
22:31:21 23 أبريل FatimaEzzahraaQanoufi dnsmasq[1737]: read /etc/hosts - 16 nam>
22:31:21 23 أبريل FatimaEzzahraaQanoufi systemd[1]: Started dnsmasq - A lightwe>
lines 1-20/20 (END)
```