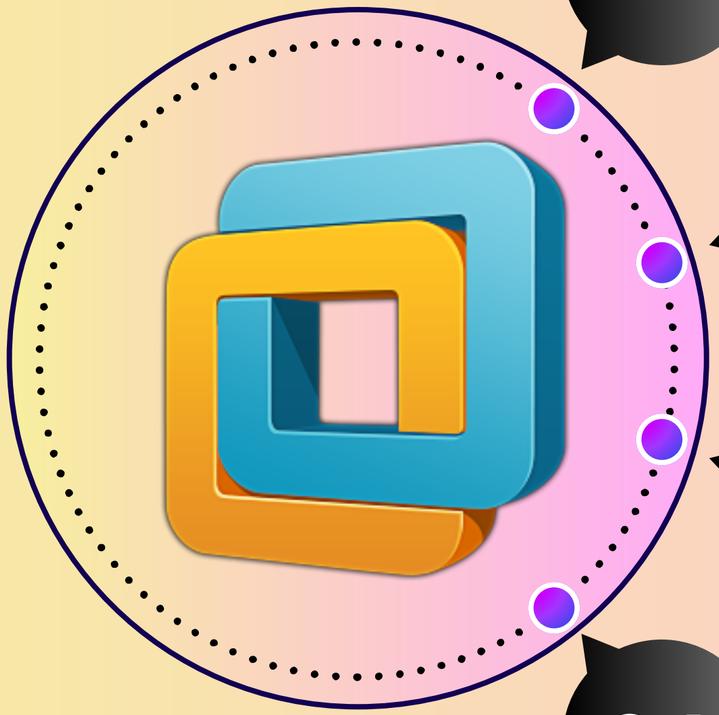
DHCP/DNS
FTP/SSH

Présenté par Malha Akroun, Loic Richard, Gianni Farina



01 DHCP

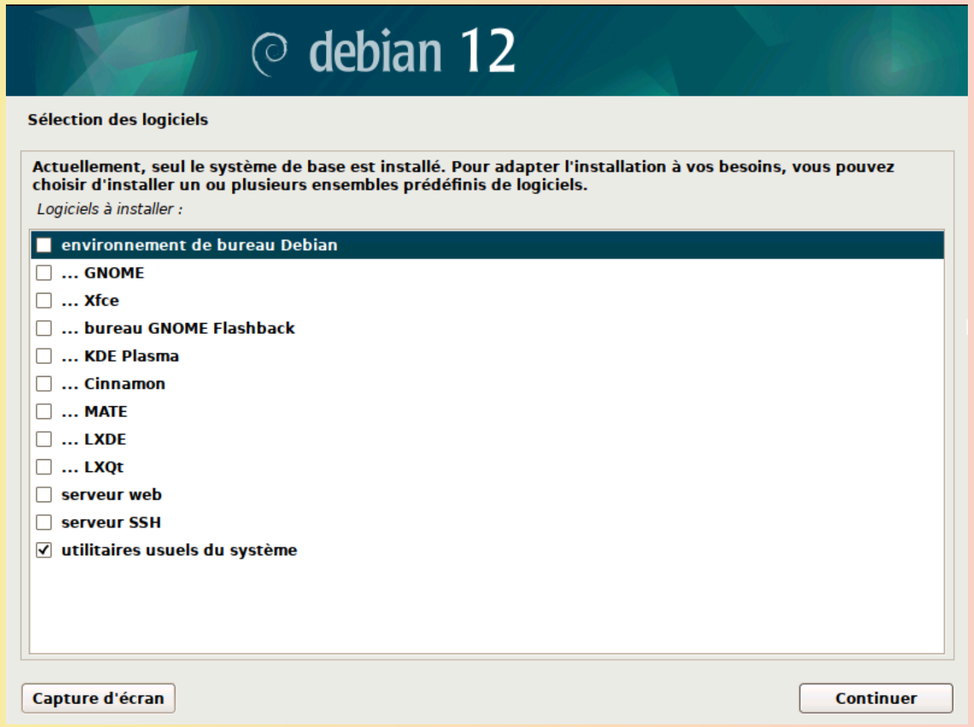
02 FTP

03 DNS

04 SSH

Installation sans interfaces graphiques + mises à jour des systèmes

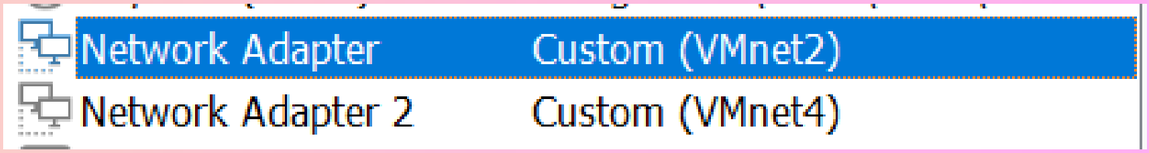
Job 1 & 2




```
sudo apt update && sudo apt upgrade
```

Serveur DHCP

Job 3




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

```
# On what interfaces should the DHCP server (dhcpd) serve DHCP requests?
#       Separate multiple interfaces with spaces, e.g. "eth0 eth1".
INTERFACESv4="ens37"
INTERFACESv6=""
```

/etc/default/isc-dhcp-server

Job 3

```
# option definitions common to all supported networks...
#option domain-name "example.org";
option domain-name-servers 8.8.8.8;
```

/etc/dhcp/dhcpd.conf

```
#Etendue LAN
subnet 172.16.0.0 netmask 255.255.0.0 {
 option routers 172.16.0.1;
 option domain-name-servers 8.8.8.8, 8.8.4.4;
 range 172.16.0.100 172.16.0.200;
}
```

/etc/network/interfaces

Job 3

```
auto ens37
iface ens37 inet static
        address 172.16.0.1
        netmask 255.255.0.0
```

“/etc/network/interfaces”

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

Serveur FTP

Job 4

```
sudo apt install proftpd && sudo apt install openssh
```

“/etc/proftpd/proftpd.conf”

```
MaxInstances 1
```

sudo adduser laplateforme

“laplateforme”

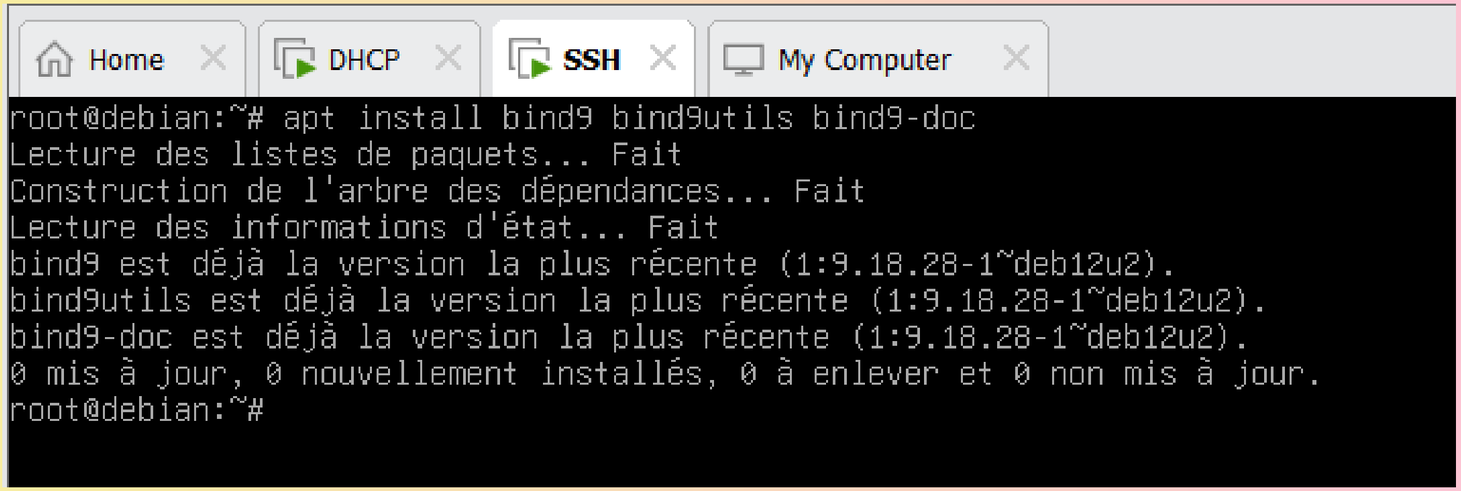
“Marseille13!”

```
root@debian:~# sftp laplateforme@192.168.6.129
laplateforme@192.168.6.129's password:
Connected to 192.168.6.129.
sftp> _
```

```
sudo systemctl enable proftpd && sudo systemctl enable ssh
sudo systemctl start proftpd && sudo systemctl start ssh
```

Instalation du Serveur DNS

Job 5



“/etc/bind/db.localhost”

“localhost” par “dns.ftp.com”

l’adresse IP au nom de domaine “dns.ftp.com”

```
@       IN      SOA     dns.ftp.com. root.dns.ftp.com. (
                        2025013001      ; Serial
                         604800         ; Refresh
                          86400         ; Retry
                        2419200         ; Expire
                         604800 )       ; Negative Cache TTL
;
@       IN      NS      dns.ftp.com.
@       IN      A       172.16.0.102;
dns.ftp.com.    IN      A       172.16.0.102;
```

Instalation du Serveur DNS

Job 5

“/etc/bind/named.conf.local”

```
// Do any local configuration here
//
zone "dns.ftp.com" {
        type master;
        file "/etc/bind/db.dns.ftp.com";
};
```

“/etc/bind/db.dns.ftp.com

“/etc/bind/named.conf.options”

```
forwarders {
                172.16.0.102;
                8.8.8.8;
        };
```

configuré les forwarders pour rediriger les requêtes DNS

```
sudo systemctl enable named.service
sudo systemctl restart bind9
```

Instalation du Serveur DNS

Job 5

```
// Do any local configuration here
//
zone "dns.ftp.com" {
        type master;
        file "/etc/bind/db.dns.ftp.com";
};
```

“/etc/bind/named.conf.local”

“/etc/bind/named.conf.options”

SSH | My Computer | DHCP

```
root@DHCP:~# nslookup dns.ftp.com
Server:         192.168.80.133
Address:        192.168.80.133#53

Name:   dns.ftp.com
Address: 192.168.80.133

root@DHCP:~# sftp malha@dns.ftp.com
malha@dns.ftp.com's password:
Connected to dns.ftp.com.
sftp> _
```

Test de connexion au serveur SFTP

Job 6

```
root@debian:~# sftp laplateforme@dns.ftp.com
ssh: Could not resolve hostname dns.ftp.com: Temporary failure in name resolution
Connection closed.
Connection closed
root@debian:~# _
```

“/etc/resolv.conf”.

```
domain localdomain
search localdomain
nameserver 172.16.0.1
```

sudo chattr +i /etc/resolv.conf

```
root@debian:~# sftp laplateforme@dns.ftp.com
The authenticity of host 'dns.ftp.com (192.168.80.132)' can't be established.
ED25519 key fingerprint is SHA256:su2HHDv+w3kLXu04JbS/IiTI2XR57Vk0GGy7eyy+sno.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'dns.ftp.com' (ED25519) to the list of known hosts.
laplateforme@dns.ftp.com's password:
Connected to dns.ftp.com.
sftp> _
```

Paramètres de Sécurité Additionnels

```
# override default of no subsystems
Subsystem sftp internal-sftp -p 6500

# Example of overriding settings on a per-user basis
#Match User anoncvs
#       X11Forwarding no
#       AllowTcpForwarding no
#       PermitTTY no
#       ForceCommand cvs server
Match User laplateforme
        ChrootDirectory /home/laplateforme
        PermitTTY no
        ForceCommand internal-sftp
        X11Forwarding no
        AllowTcpForwarding no
```

“/etc/ssh/sshd_config”

Paramètres de Sécurité Additionnels

```
debian@debian:~$ sftp debian@dns.ftp.com
debian@dns.ftp.com's password:
Connected to dns.ftp.com.
realpath .: Permission denied
Need cwd
debian@debian:~$ _
```

Port 6500

Home | DHCP | SSH | My Computer

```
root@debian:~# ss -tlnp | grep proftpd
LISTEN 0      128                *:21              *:*    users:(("proftpd",pid=2791,fd=0))
root@debian:~# _
```

```
debian@debian:~$ sftp laplateforme@dns.ftp.com
laplateforme@dns.ftp.com's password:
Connected to dns.ftp.com.
sftp>
```

Merci pour votre Ecoute

Questions