	Institut Antoni Ballester Sistemes Microinformàtics i Xarxes. M7- Serveis de Xarxa	MP07 UF1 NF2 A2.1 Pràctica 1 DNS	Unai O. Pujol	Curs: 24-25
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Entrega una captura del resultat de la comanda `ip a` (on també es vegi el prompt modificat de la màquina)

```

Thu Oct 10 11:39:34 pujolu@hades:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:c1:89:19 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 metric 100 brd 10.0.2.255 scope global dynamic enp0s3
        valid_lft 86359sec preferred_lft 86359sec
    inet6 fd00::a00:27ff:fecl:8919/64 scope global dynamic mngtmpaddr noprefixroute
        valid_lft 86360sec preferred_lft 14360sec
    inet6 fe80::a00:27ff:fecl:8919/64 scope link
        valid_lft forever preferred_lft forever
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:86:56:6f brd ff:ff:ff:ff:ff:ff
    inet 172.30.1.2/24 brd 172.30.1.255 scope global enp0s8
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fe86:566f/64 scope link
        valid_lft forever preferred_lft forever
4: enp0s9: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:d9:d8:af brd ff:ff:ff:ff:ff:ff
    inet 192.168.56.103/24 metric 100 brd 192.168.56.255 scope global dynamic enp0s9
        valid_lft 559sec preferred_lft 559sec
    inet6 fe80::a00:27ff:fed9:d8af/64 scope link
        valid_lft forever preferred_lft forever

```

Entrega una captura del resultat de la comanda anterior ( `sudo systemctl status bind9`) al servidor




```
Thu Oct 10 11:43:02 pujolu@hades:~$ sudo systemctl status bind9
• named.service - BIND Domain Name Server
  Loaded: loaded (/lib/systemd/system/named.service; enabled; vendor preset: enabled)
  Active: active (running) since Thu 2024-10-10 11:42:49 UTC; 25s ago
  Docs: man:named(8)
  Process: 1498 ExecStart=/usr/sbin/named $OPTIONS (code=exited, status=0/SUCCESS)
  Main PID: 1499 (named)
  Tasks: 8 (limit: 4556)
  Memory: 8.1M
  CPU: 53ms
  CGroup: /system.slice/named.service
          └─1499 /usr/sbin/named -u bind

Oct 10 11:42:49 hades named[1499]: managed-keys-zone: loaded serial 0
Oct 10 11:42:49 hades named[1499]: zone 0.in-addr.arpa/IN: loaded serial 1
Oct 10 11:42:49 hades named[1499]: zone 127.in-addr.arpa/IN: loaded serial 1
Oct 10 11:42:49 hades named[1499]: zone 255.in-addr.arpa/IN: loaded serial 1
Oct 10 11:42:49 hades named[1499]: zone localhost/IN: loaded serial 2
Oct 10 11:42:49 hades named[1499]: all zones loaded
Oct 10 11:42:49 hades named[1499]: running
Oct 10 11:42:49 hades systemd[1]: Started BIND Domain Name Server.
Oct 10 11:42:59 hades named[1499]: managed-keys-zone: Unable to fetch DNSKEY set '': timed out
Oct 10 11:42:59 hades named[1499]: resolver priming query complete: timed out
Thu Oct 10 11:43:15 pujolu@hades:~$
```

Entrega una captura on mostris que has trobat els arxius anteriors ( `ls -la` de la carpeta)

```
Thu Oct 10 11:44:54 pujolu@hades:~$ cd /etc/bind
Thu Oct 10 11:44:58 pujolu@hades:/etc/bind$ ls -la
total 56
drwxr-sr-x  2 root bind 4096 Oct 10 11:42 .
drwxr-xr-x 99 root root 4096 Oct 10 11:42 ..
-rw-r--r--  1 root root 2403 Jul 16 18:16 bind.keys
-rw-r--r--  1 root root  237 Apr 11 21:11 db.0
-rw-r--r--  1 root root  271 Apr  9  2024 db.127
-rw-r--r--  1 root root  237 Apr  9  2024 db.255
-rw-r--r--  1 root root  353 Apr  9  2024 db.empty
-rw-r--r--  1 root root  270 Apr  9  2024 db.local
-rw-r--r--  1 root bind  463 Apr 11 21:11 named.conf
-rw-r--r--  1 root bind  498 Apr  9  2024 named.conf.default-zones
-rw-r--r--  1 root bind  165 Apr  9  2024 named.conf.local
-rw-r--r--  1 root bind  846 Apr  9  2024 named.conf.options
-rw-r-----  1 bind bind  100 Oct 10 11:42 rndc.key
-rw-r--r--  1 root root 1317 Apr  9  2024 zones.rfc1918
Thu Oct 10 11:45:00 pujolu@hades:/etc/bind$
```

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Entrega una captura on mostris el resultat de la comanda anterior `sudo named-checkconf` (idealment no mostra res).

```
Thu Oct 10 11:47:34 pujolu@hades:~$ sudo named-checkconf
Thu Oct 10 11:47:48 pujolu@hades:~$
```

Entrega una captura on mostris el resultat de la comanda anterior `nslookup google.com localhost`


```
Thu Oct 10 11:49:54 pujolu@hades:~$ nslookup google.com localhost
Server:          localhost
Address:         127.0.0.1#53

Non-authoritative answer:
Name:   google.com
Address: 142.250.200.206
Name:   google.com
Address: 2a00:1450:4003:80d::200e

Thu Oct 10 11:50:02 pujolu@hades:~$
```

Entrega una captura on mostris el netplan del client i la seva aplicació amb `ip a`

```
Tue Sep 24 12:56:40 pujolu@PC1:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:2a:ad:8f brd ff:ff:ff:ff:ff:ff
    inet 172.30.1.49/24 brd 172.30.1.255 scope global enp0s3
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fe2a:ad8f/64 scope link
        valid_lft forever preferred_lft forever
Tue Sep 24 12:56:42 pujolu@PC1:~$
```

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Entrega una captura on mostris la execució de `ip a` i després la execució de `sudo resolvectl status` (al client)

```
Tue Sep 24 12:56:42 pujolu@PC1:~$ resolvectl status
Global
    Protocols: -LLMNR -mDNS -DNSOverTLS DNSSEC=no/unsupported
    resolv.conf mode: stub

Link 2 (enp0s3)
    Current Scopes: DNS
        Protocols: +DefaultRoute +LLMNR -mDNS -DNSOverTLS DNSSEC=no/unsupported
    Current DNS Server: 172.30.1.2
    DNS Servers: 172.30.1.1 172.30.1.2
    DNS Domain: unai-o-pujol.test
Tue Sep 24 12:58:02 pujolu@PC1:~$
```

Entrega una captura del resultat de la comanda `nslookup www.google.es`

```
Tue Sep 24 12:58:53 pujolu@PC1:~$ nslookup google.com
Server:      127.0.0.53
Address:     127.0.0.53#53

Non-authoritative answer:
Name:   google.com
Address: 142.250.200.110
Name:   google.com
Address: 2a00:1450:4003:806::200e
Tue Sep 24 12:59:03 pujolu@PC1:~$ _
```