

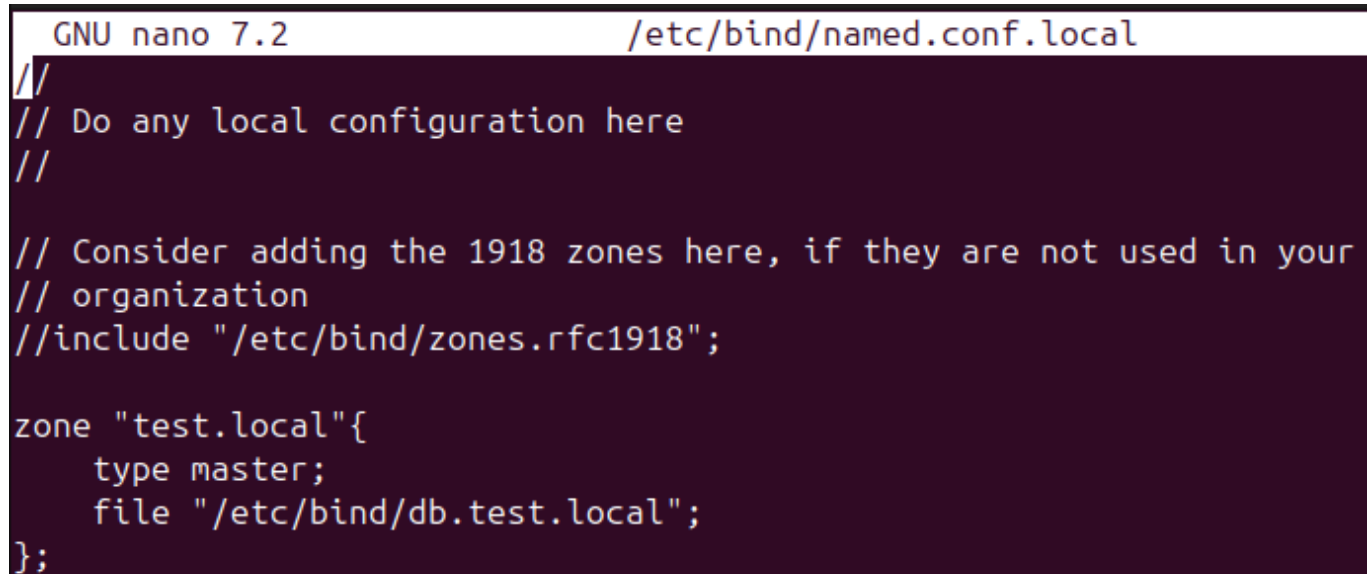
1. Instalare BIND9

```
sudo apt update
```

```
sudo apt install bind9 bind9utils bind9-doc
```

2. Configurare zona directa in BIND9

```
sudo nano /etc/bind/named.conf.local
```



```
GNU nano 7.2 /etc/bind/named.conf.local
//
// Do any local configuration here
//

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

zone "test.local"{
    type master;
    file "/etc/bind/db.test.local";
};
```

Adaugat:

```
zone "test.local" {
    type master;
    file "/etc/bind/db.test.local";
};
```

3. Creare fisier de zona:

```
sudo cp /etc/bind/db.local /etc/bind/db.test.local
```

```
sudo nano /etc/bind/db.test.local
```

```
GNU nano 7.2 /etc/bind/db.test.local
;
; BIND data file for local loopback interface
;
$TTL      604800
@         IN      SOA      localhost. root.localhost. (
                        2      ; Serial
                        604800  ; Refresh
                        86400   ; Retry
                        2419200 ; Expire
                        604800 ) ; Negative Cache TTL
;
@         IN      NS       ns.test.local.
ns        IN      A        192.168.0.10
www       IN      A        192.168.0.10
```

4. Verificari si restart BIND9

```
sudo named-checkzone test.local /etc/bind/db.test.local
```

```
sudo systemctl restart bind9
```

```
robert@robert-VirtualBox:~$ sudo named-checkzone test.local /etc/bind/db.test.local
zone test.local/IN: loaded serial 2
OK
robert@robert-VirtualBox:~$ sudo systemctl status bind9
● named.service - BIND Domain Name Server
   Loaded: loaded (/usr/lib/systemd/system/named.service; enabled; preset: en>
   Active: active (running) since Wed 2025-05-21 16:32:23 EEST; 8min ago
     Docs: man:named(8)
  Main PID: 3856 (named)
    Status: "running"
     Tasks: 8 (limit: 2271)
    Memory: 7.3M (peak: 7.7M)
       CPU: 54ms
    CGroup: /system.slice/named.service
            └─3856 /usr/sbin/named -f -u bind
```

```
robert@robert-VirtualBox:~$ sudo systemctl restart bind9
```

5. Configurare firewall (UFW)

```
sudo ufw allow 53
```

```
sudo ufw reload
```

```
sudo ufw status
```

```
robert@robert-VirtualBox:~$ sudo ufw allow 53
Rule added
Rule added (v6)
robert@robert-VirtualBox:~$ sudo ufw reload
Firewall reloaded
```

```
robert@robert-VirtualBox:~$ sudo ufw status
Status: active
```

To	Action	From
--	-----	----
22/tcp	ALLOW	Anywhere
21	ALLOW	Anywhere
53	ALLOW	Anywhere
22/tcp (v6)	ALLOW	Anywhere (v6)
21 (v6)	ALLOW	Anywhere (v6)
53 (v6)	ALLOW	Anywhere (v6)

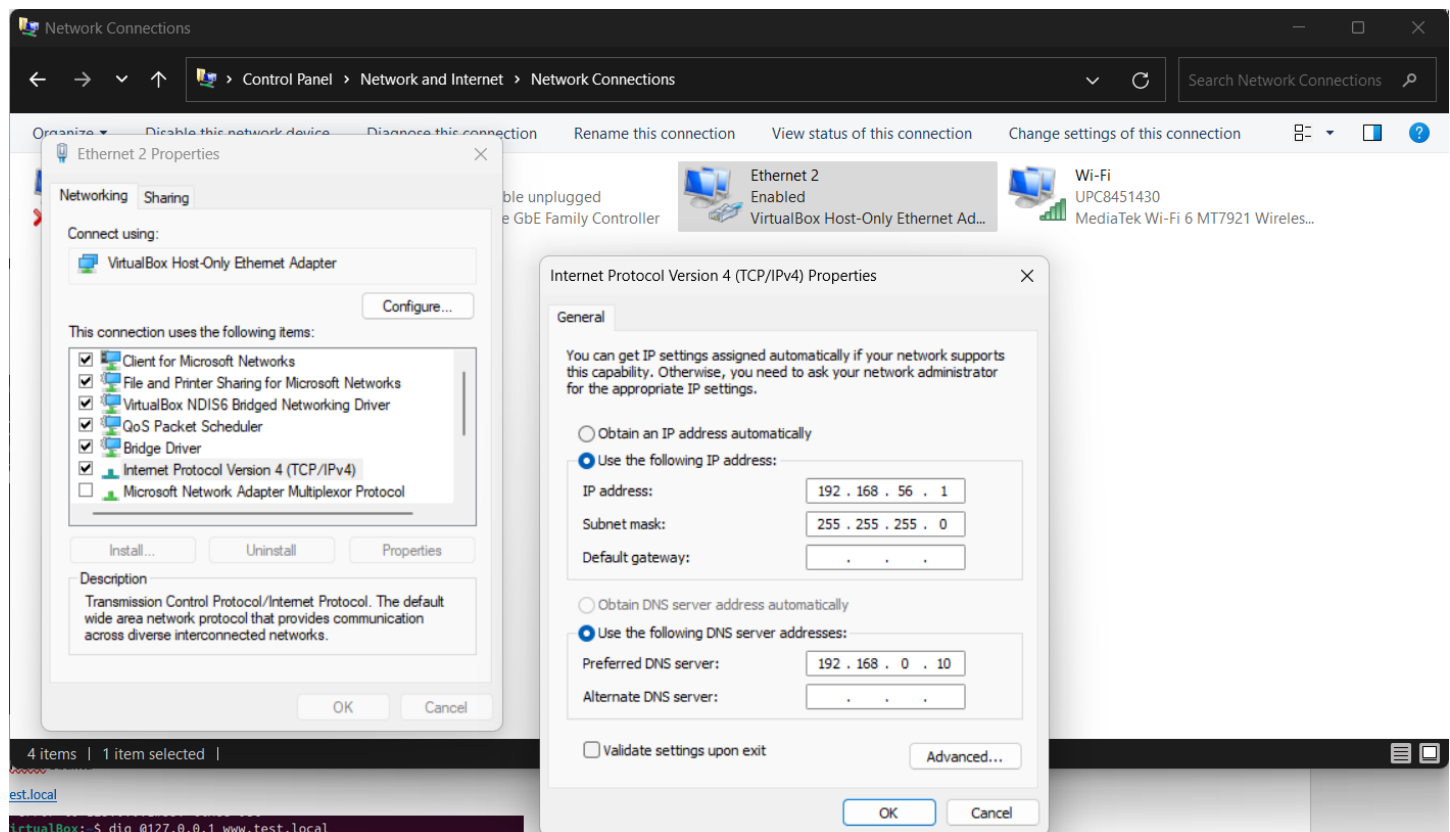
6. Testare locala pe serverul Ubuntu

```
dig @127.0.0.1 www.test.local
```

```
^C
robert@robert-VirtualBox:~$ dig @127.0.0.1 www.test.local

; <<>> DiG 9.18.30-0ubuntu0.24.04.2-Ubuntu <<>> @127.0.0.1 www.test.local
; (1 server found)
;; global options: +cmd
;; Got answer:
;; WARNING: .local is reserved for Multicast DNS
;; You are currently testing what happens when an mDNS query is leaked to DNS
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 51825
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1
```

7. Configurare client Windows



8. Testare de pe client Windows

nslookup www.test.local

