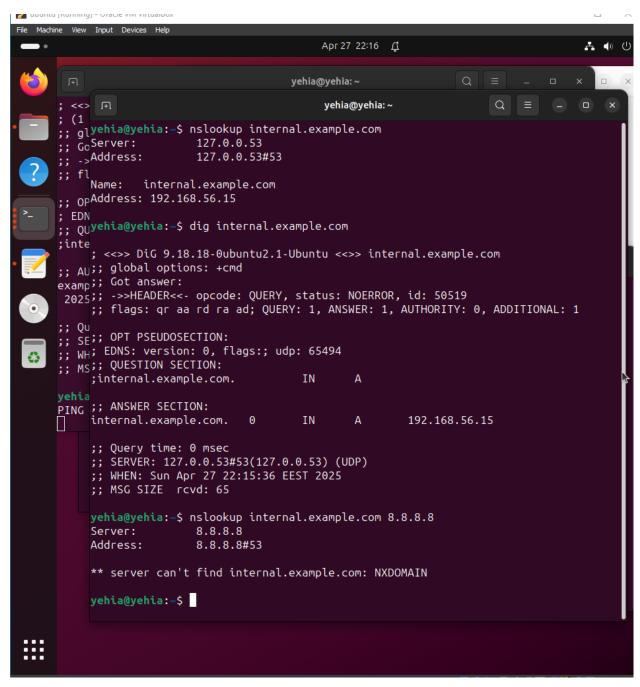
1. Verify DNS Resolution:

Check what IP internal.example.com resolves.



2. Diagnose Service Reachability:

```
yehia@yehia: ~
yehia@yehia:~$ curl -I http://192.168.56.15
curl: (28) Failed to connect to 192.168.56.15 port 80 after 134677 ms: Couldn't
connect to server
yehia@yehia:~$ curl -I http://192.168.56.15
curl: (28) Failed to connect to 192.168.56.15 port 80 after 133853 ms: Couldn't
connect to server
yehia@yehia:~$ telnet 10.1.2.3 80
Trying 10.1.2.3...
telnet: Unable to connect to remote host: Connection timed out
yehia@yehia:~$
                                    yehia@yehia: ~
/ehia@yehia:~$ curl -v http://internal.example.com
 processing: http://internal.example.com
   Trying 192.168.56.15:80...
 connect to 192.168.56.15 port 80 failed: Connection timed out
 Failed to connect to internal.example.com port 80 after 133460 ms: Couldn't co
nnect to server
 Closing connection
curl: (28) Failed to connect to internal.example.com port 80 after 133460 ms: Co
uldn't connect to server
yehia@yehia:~$
```

Test if the service port is open for port 80 (HTTP) using

- telnet 10.1.2.3 80
- and curl to actually hit the service:
- curl -v http://internal.example.com

telent fails, so it's a network or firewall problem. Also curl fails, so it can be web server misconfiguration



There is NO service listening on port 80 (HTTP).

A. DNS Misconfiguration

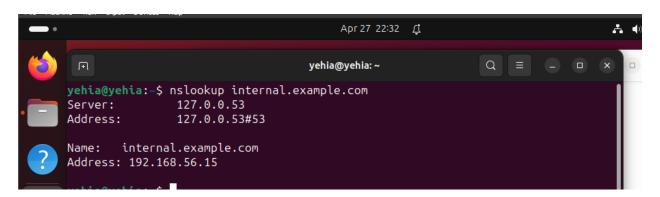
nslookup internal.example.com

If I get

- no answer
- Wrong IP

Then DNS misconfiguration is the cause.

But from what I get, DNS is working correctly so this means DNS misconfiguration is not the root cause.



B. Firewall Blocking Ports

```
yehia@yehia:~ Q = - □
yehia@yehia:~$ nc -zv 192.168.56.15 80
Connection to 192.168.56.15 80 port [tcp/http] succeeded!
yehia@yehia:~$
```

If I get:

- Connection refused
- Timed out

Then the firewall is likely blocking the ports. But in my case, firewall is not the root problem.

If firewall was the problem, I would fix it by allowing incoming connections. By using

- Sudo ufw allow <port number>
- Sufo ufw reload