Actividad evaluada 3

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- agrimed.cl

$ dig ns agrimed.cl   -> Se obtienen errores de "timed out" por mala configuración de la DNS

```
pss@debian12:~/Redes/AE_3$ dig ns agrimed.cl @a.nic.cl
;; communications error to 190.124.27.10#53: timed out
;; communications error to 190.124.27.10#53: timed out
;; communications error to 190.124.27.10#53: timed out
;; UDP setup with 2001:1398:121:0:190:124:27:10#53(2001:1398:121:0:190:124:27:10
) for agrimed.cl failed: network unreachable.
;; no servers could be reached
```

$ dig ns agrimed.cl

```
pss@debian12:~/Redes/AE_3$ dig ns agrimed.cl

; <<>> DiG 9.18.33-1~deb12u2-Debian <<>> ns agrimed.cl
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 48274
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1280
;; QUESTION SECTION:
;agrimed.cl.                    IN      NS

;; ANSWER SECTION:
agrimed.cl.            3600    IN      NS      secundario.nic.cl.
agrimed.cl.            3600    IN      NS      renare.uchile.cl.

;; Query time: 2321 msec
;; SERVER: 192.168.246.133#53(192.168.246.133) (UDP)
;; WHEN: Mon Apr 14 22:21:00 -04 2025
;; MSG SIZE  rcvd: 96
```

Probando nuevamente se obtienen time outs:

```
pss@debian12:~/Redes/AE_3$ dig ns agrimed.cl @secundario.nic.cl
;; communications error to 200.7.5.7#53: timed out
;; communications error to 200.7.5.7#53: timed out
;; communications error to 200.7.5.7#53: timed out
;; UDP setup with 2001:1398:276:0:200:7:5:7#53(2001:1398:276:0:200:7:5:7) for agrimed.
cl failed: network unreachable.
;; no servers could be reached
pss@debian12:~/Redes/AE_3$ dig ns agrimed.cl @renare.uchile.cl
;; communications error to 200.89.72.24#53: timed out
;; communications error to 200.89.72.24#53: timed out
;; communications error to 200.89.72.24#53: timed out

; <<>> DiG 9.18.33-1~deb12u2-Debian <<>> ns agrimed.cl @renare.uchile.cl
;; global options: +cmd
;; no servers could be reached
```

Probando con secundario -> $ dig ns agrimed.cl secundario.nic.cl

Se obtiene que no hay una flag para "AUTHORITY" para el dominio y esto puede ser la causa del error

```
pss@debian12:~/Redes/AE_3$ dig ns agrimed.cl secundario.nic.cl

; <<>> DiG 9.18.33-1~deb12u2-Debian <<>> ns agrimed.cl secundario.nic.cl
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 484
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1280
;; QUESTION SECTION:
;agrimed.cl.                    IN      NS

;; ANSWER SECTION:
agrimed.cl.             3547    IN      NS      secundario.nic.cl.
agrimed.cl.             3547    IN      NS      renare.uchile.cl.

;; Query time: 112 msec
;; SERVER: 192.168.246.133#53(192.168.246.133) (UDP)
;; WHEN: Mon Apr 14 22:21:53 -04 2025
;; MSG SIZE  rcvd: 96

;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 45415
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1
```

Probando con renare -> $ dig ns agrimed.cl renare.uchile.cl

```
pss@debian12:~/Redes/AE_3$ dig ns agrimed.cl renare.uchile.cl

; <<>> DiG 9.18.33-1~deb12u2-Debian <<>> ns agrimed.cl renare.uchile.cl
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 9689
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1280
;; QUESTION SECTION:
;agrimed.cl.                    IN      NS

;; ANSWER SECTION:
agrimed.cl.             3519    IN      NS      secundario.nic.cl.
agrimed.cl.             3519    IN      NS      renare.uchile.cl.

;; Query time: 40 msec
;; SERVER: 192.168.246.133#53(192.168.246.133) (UDP)
;; WHEN: Mon Apr 14 22:22:21 -04 2025
;; MSG SIZE  rcvd: 96

;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 16379
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 2

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1280
;; QUESTION SECTION:
;renare.uchile.cl.              IN      NS
```

$ dig ns srcei.cl @a.nic.cl

```
pss@debian12:~/Redes/AE_3$ dig ns srcei.cl @a.nic.cl
;; communications error to 190.124.27.10#53: timed out
;; communications error to 190.124.27.10#53: timed out
;; communications error to 190.124.27.10#53: timed out
;; UDP setup with 2001:1398:121:0:190:124:27:10#53(2001:1398:121:0:190:124:27:10) for
srcei.cl failed: network unreachable.
;; no servers could be reached
```

$ dig ns srcei.cl

Aquí nuevamente se puede ver que no hay flags para "AUTHORITY"

```
pss@debian12:~/Redes/AE_3$ dig ns srcei.cl

; <<>> DiG 9.18.33-1~deb12u2-Debian <<>> ns srcei.cl
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 29697
;; flags: qr rd ra; QUERY: 1, ANSWER: 4, AUTHORITY: 0, ADDITIONAL: 5

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1280
;; QUESTION SECTION:
;srcei.cl.                      IN      NS

;; ANSWER SECTION:
srcei.cl.               28365   IN      NS      ns.sed.srcei.cl.
srcei.cl.               28365   IN      NS      secundario.nic.cl.
srcei.cl.               28365   IN      NS      infoblox01.srcei.cl.
srcei.cl.               28365   IN      NS      ns.srcei.cl.

;; ADDITIONAL SECTION:
ns.sed.srcei.cl.        2697    IN      A       119.8.144.219
ns.srcei.cl.            3311    IN      A       163.247.64.130
infoblox01.srcei.cl.    2697    IN      A       163.247.64.130
infoblox01.srcei.cl.    2697    IN      A       164.96.64.58

;; Query time: 47 msec
;; SERVER: 192.168.246.133#53(192.168.246.133) (UDP)
;; WHEN: Mon Apr 14 22:38:07 -04 2025
;; MSG SIZE  rcvd: 193
```

$ dig ns udi.cl @a.nic.cl

```
pss@debian12:~/Redes/AE_3$ dig ns udi.cl @a.nic.cl
;; communications error to 190.124.27.10#53: timed out
;; communications error to 190.124.27.10#53: timed out
;; communications error to 190.124.27.10#53: timed out
;; UDP setup with 2001:1398:121:0:190:124:27:10#53(2001:1398:121:0:190:124:27:10) for
udi.cl failed: network unreachable.
;; no servers could be reached
```

$ dig ns udi.cl

Nuevamente, no hay flags de "AUTHORITY"

```
pss@debian12:~/Redes/AE_3$ dig ns udi.cl

; <<>> DiG 9.18.33-1~deb12u2-Debian <<>> ns udi.cl
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 38220
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1280
;; QUESTION SECTION:
;udi.cl.                              IN      NS

;; ANSWER SECTION:
udi.cl.                 3600    IN      NS      ns1.maxtel.cl.

;; Query time: 964 msec
;; SERVER: 192.168.246.133#53(192.168.246.133) (UDP)
;; WHEN: Mon Apr 14 22:41:00 -04 2025
;; MSG SIZE  rcvd: 60
```

La importancia de esta flag es que el dominio buscado tiene otros delegados, que si no tienen autoridad para el dominio principal, entonces fallara cuando se busca (en este caso mediante nic) provocando una delegación incorrecta.