

ACTIVIDAD 05 – CONFIGURACIÓN DNS II

(Definición de fichero
RR directo)

- cat del fichero de configuración del registro de recursos para la resolución directa del dominio “aula-X.org”

```
jgarcia@s2-jgarcia:/etc/bind$ sudo cat db.aula-5.org
[sudo] password for jgarcia:
;
; BIND data file for local loopback interface
;
$TTL      604800
$ORIGIN   aula-5.org
@         IN      SOA      dns2.aula-5.org. jgarcia.aula-5.org. (
                        2023112202      ; Serial
                        604800           ; Refresh
                        86400            ; Retry
                        2419200          ; Expire
                        604800 )         ; Negative Cache TTL
;
; Registro NS
@         IN      NS       dns1.aula-5.org.
@         IN      NS       dns2.aula-5.org.
;
; Registro A
dns1      IN      A        172.16.5.1
dns2      IN      A        172.16.5.2
c1-jgarcia IN      A        172.16.5.10
;
; Alias
ns1.aula-5.org.      IN      CNAME    dns1.aula-5.org.
dhcp.aula-5.org.     IN      CNAME    dns1.aula-5.org.
ns2.aula-5.org.      IN      CNAME    dns2.aula-5.org.
www.aula-5.org.      IN      CNAME    dns2.aula-5.org.
jgarcia.aula-5.org.  IN      CNAME    c1-jgarcia.aula-5.org.
host1-jgarcia.aula-5.org. IN      CNAME    c1-jgarcia.aula-5.org.
jgarcia@s2-jgarcia:/etc/bind$ _
```

- Comando lanzado desde la terminal de client1-alias para resolver los siguientes nombres de dominio (CADA UNO CON UN COMANDO DISTINTO):

- dns1.aula-X.org:

```
jgarcia@client1:~$ host dns1.aula-5.org
dns1.aula-5.org has address 172.16.5.1
jgarcia@client1:~$
```

- dns2.aula-X.org:

```
jgarcia@client1:~$ dig dns2.aula-5.org

; <<>> DiG 9.18.18-0ubuntu0.22.04.1-Ubuntu <<>> dns2.aula-5.org
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 14082
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 65494
;; QUESTION SECTION:
;dns2.aula-5.org.                IN      A

;; ANSWER SECTION:
dns2.aula-5.org.                604800  IN      A      172.16.5.2

;; Query time: 0 msec
;; SERVER: 127.0.0.53#53(127.0.0.53) (UDP)
;; WHEN: Wed Nov 22 12:53:19 CET 2023
;; MSG SIZE rcvd: 60

jgarcia@client1:~$
```

- c1-alias.aula-X.org:

```
jgarcia@client1:~$ nslookup c1-jgarcia.aula-5.org
Server:                127.0.0.53
Address:               127.0.0.53#53

Non-authoritative answer:
Name:   c1-jgarcia.aula-5.org
Address: 172.16.5.10

jgarcia@client1:~$
```

- Comando lanzado desde la terminal de client1-alias para resolver los siguientes nombres de dominio (CADA UNO CON UN COMANDO DISTINTO Y FORZANDO LA CONSULTA AL SERVIDOR S2):

- ns1. aula-X.org:

```
jgarcia@client1:~$ host ns1.aula-5.org 172.16.5.2
Using domain server:
Name: 172.16.5.2
Address: 172.16.5.2#53
Aliases:

ns1.aula-5.org is an alias for dns1.aula-5.org.
dns1.aula-5.org has address 172.16.5.1
jgarcia@client1:~$
```

- ns2. aula-X.org:

```
jgarcia@client1:~$ dig ns2.aula-5.org @172.16.5.2

; <<>> DiG 9.18.18-0ubuntu0.22.04.1-Ubuntu <<>> ns2.aula-5.org @172.16.5.2
;; global options: +cmd
;; Got answer:
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 27737
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4096
; COOKIE: a7b0f7c06cde3b4601000000655decc7167f0d797d070ec8 (good)
;; QUESTION SECTION:
;ns2.aula-5.org.                IN      A

;; ANSWER SECTION:
ns2.aula-5.org.                604800  IN      CNAME   dns2.aula-5.org.
dns2.aula-5.org.                604800  IN      A       172.16.5.2

;; Query time: 0 msec
;; SERVER: 172.16.5.2#53(172.16.5.2) (UDP)
;; WHEN: Wed Nov 22 12:57:59 CET 2023
;; MSG SIZE rcvd: 106

jgarcia@client1:~$
```

- host1-alias. aula-X.org:

```
jgarcia@client1:~$ nslookup host1-jgarcia.aula-5.org 172.16.5.2
Server:                172.16.5.2
Address:                172.16.5.2#53

host1-jgarcia.aula-5.org    canonical name = c1-jgarcia.aula-5.org.
Name:      c1-jgarcia.aula-5.org
Address: 172.16.5.10

jgarcia@client1:~$
```