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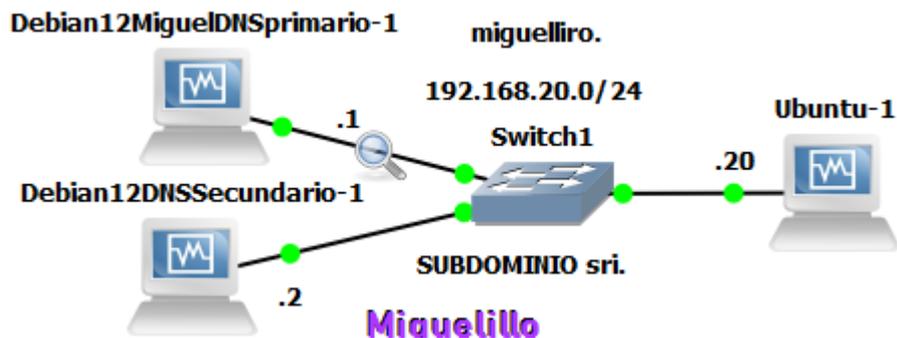
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Ejercicio 1

a) Creación de subdominios y delegación de subdominios

Solución:

Escenario:



Configuramos el named.conf.options en el servidor primario

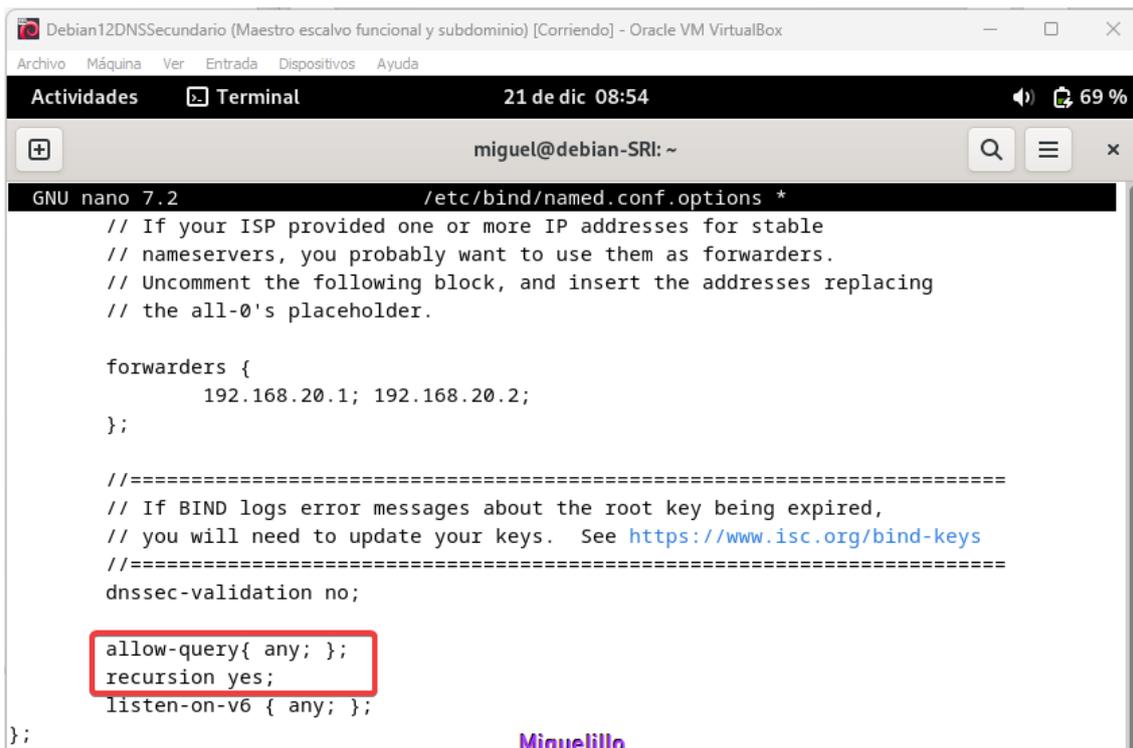
```
GNU nano 7.2 /etc/bind/named.conf.options *
      8.8.8.8;
};

//=====
// If BIND logs error messages about the root key being expi
// you will need to update your keys.  See https://www.isc.o
//=====
dnssec-validation no;

allow-query{ any; };
recursion yes;
listen-on-v6 { any; };
};
```

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Configuramos el named.conf.options en el servidor secundario



```
Debian12DNSSecundario (Maestro escalvo funcional y subdominio) [Corriendo] - Oracle VM VirtualBox
Actividades Terminal 21 de dic 08:54 69 %
miguel@debian-SRI: ~
GNU nano 7.2 /etc/bind/named.conf.options *
// If your ISP provided one or more IP addresses for stable
// nameservers, you probably want to use them as forwarders.
// Uncomment the following block, and insert the addresses replacing
// the all-0's placeholder.

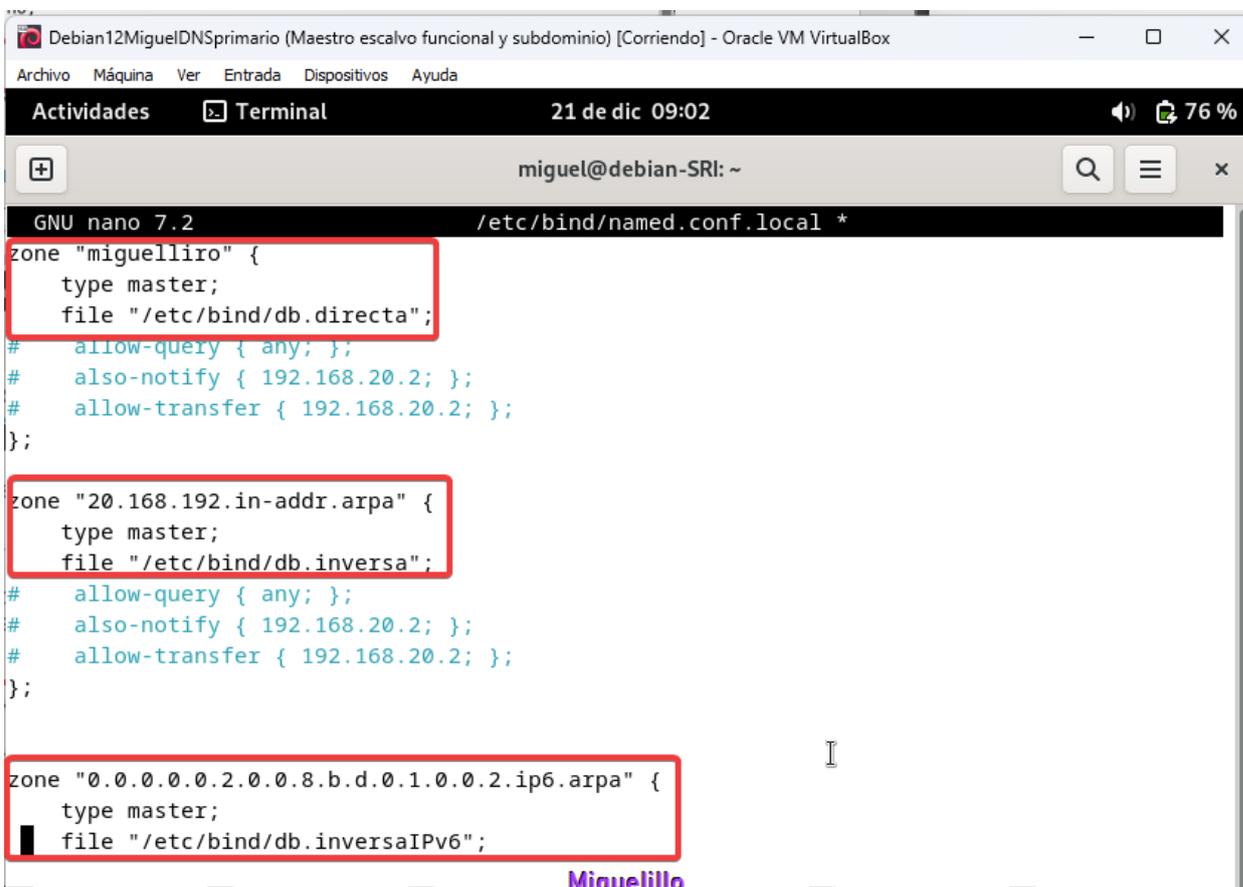
forwarders {
    192.168.20.1; 192.168.20.2;
};

//=====
// If BIND logs error messages about the root key being expired,
// you will need to update your keys. See https://www.isc.org/bind-keys
//=====
dnssec-validation no;

allow-query{ any; };
recursion yes;
listen-on-v6 { any; };
};
```

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Vamos al servidor principal



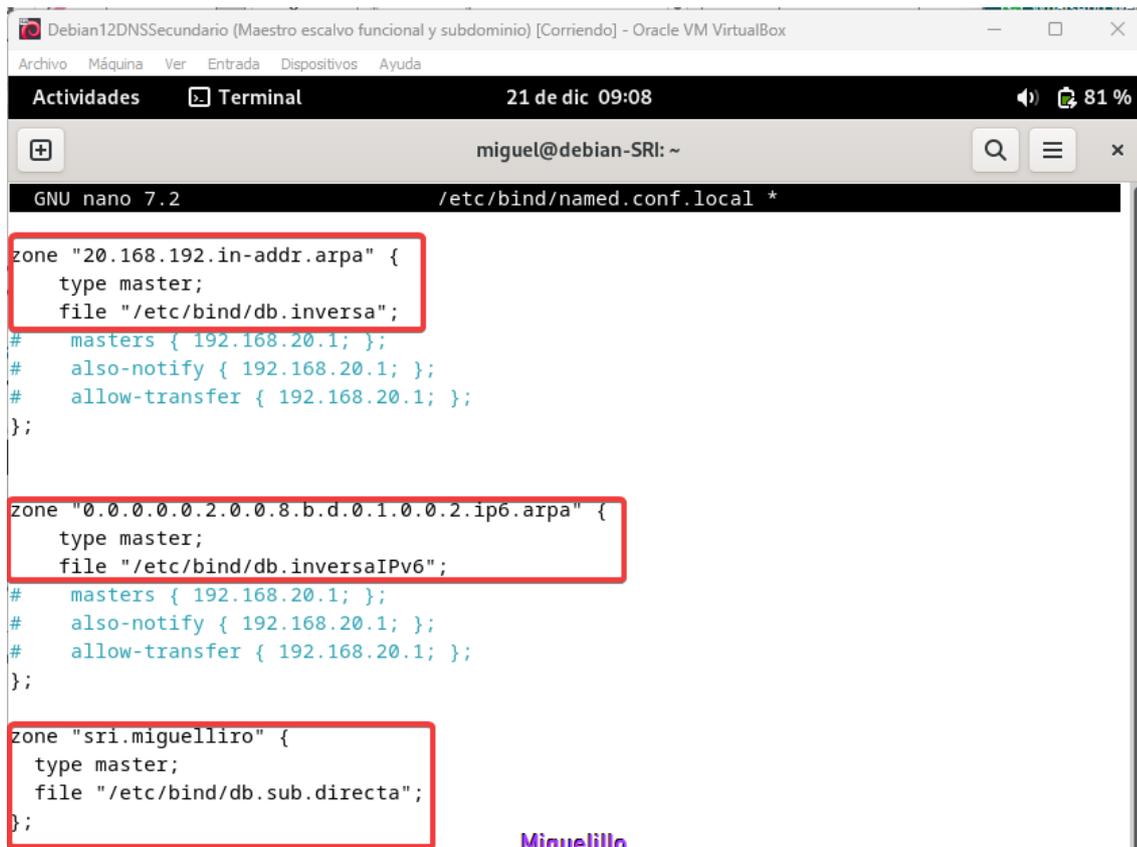
```
Debian12MiguelDNSprimario (Maestro escalvo funcional y subdominio) [Corriendo] - Oracle VM VirtualBox
Actividades Terminal 21 de dic 09:02 76 %
miguel@debian-SRI: ~
GNU nano 7.2 /etc/bind/named.conf.local *
zone "miguelliro" {
    type master;
    file "/etc/bind/db.directa";
#   allow-query { any; };
#   also-notify { 192.168.20.2; };
#   allow-transfer { 192.168.20.2; };
};

zone "20.168.192.in-addr.arpa" {
    type master;
    file "/etc/bind/db.inversa";
#   allow-query { any; };
#   also-notify { 192.168.20.2; };
#   allow-transfer { 192.168.20.2; };
};

zone "0.0.0.0.2.0.0.8.b.d.0.1.0.0.2.ip6.arpa" {
    type master;
    file "/etc/bind/db.inversaIPv6";
};
```

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Configuramos en el servidor secundario la configuración de la delegación



```

GNU nano 7.2 /etc/bind/named.conf.local *

zone "20.168.192.in-addr.arpa" {
    type master;
    file "/etc/bind/db.inversa";
#   masters { 192.168.20.1; };
#   also-notify { 192.168.20.1; };
#   allow-transfer { 192.168.20.1; };
};

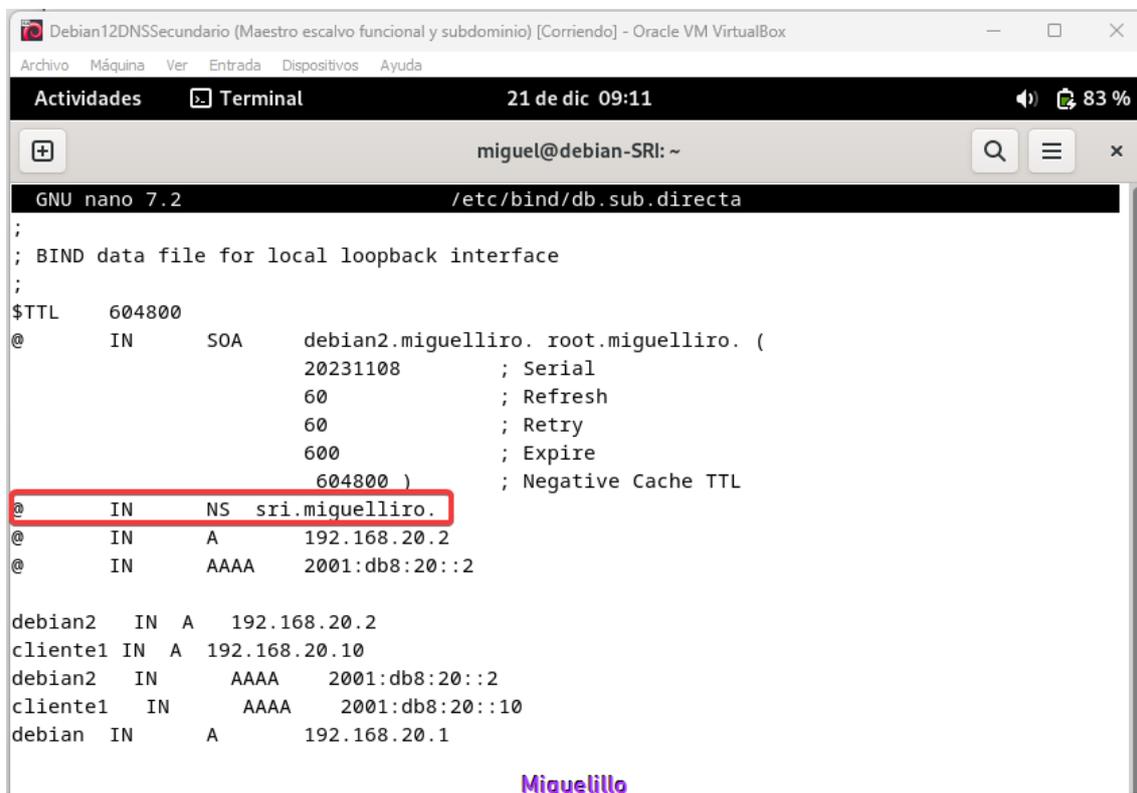
zone "0.0.0.0.2.0.0.8.b.d.0.1.0.0.2.ip6.arpa" {
    type master;
    file "/etc/bind/db.inversaIPv6";
#   masters { 192.168.20.1; };
#   also-notify { 192.168.20.1; };
#   allow-transfer { 192.168.20.1; };
};

zone "sri.miguelliro" {
    type master;
    file "/etc/bind/db.sub.directa";
};

```

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Configuramos zona directa del subdominio



```

GNU nano 7.2 /etc/bind/db.sub.directa

;
; BIND data file for local loopback interface
;
$TTL      604800
@         IN      SOA      debian2.miguelliro. root.miguelliro. (
                20231108      ; Serial
                60             ; Refresh
                60             ; Retry
                600            ; Expire
                604800 )      ; Negative Cache TTL
@         IN      NS       sri.miguelliro.
@         IN      A        192.168.20.2
@         IN      AAAA     2001:db8:20::2

debian2  IN      A        192.168.20.2
cliente1 IN      A        192.168.20.10
debian2  IN      AAAA     2001:db8:20::2
cliente1 IN      AAAA     2001:db8:20::10
debian  IN      A        192.168.20.1

```

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Configuramos la zona inversa del servidor secundario



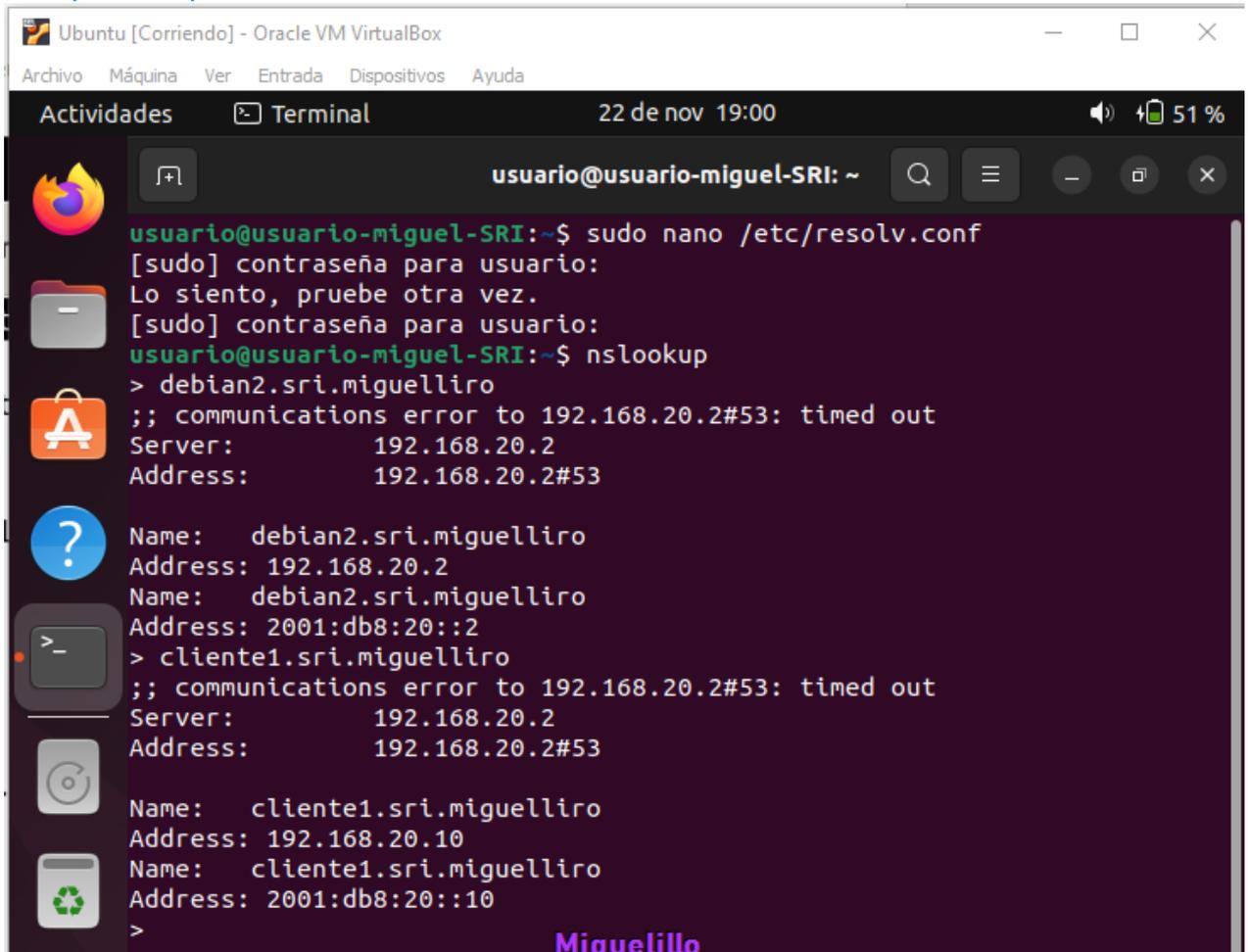
```

GNU nano 7.2 /etc/bind/db.inversa
;
; BIND reverse data file for local loopback interface
;
$TTL 60400
@      IN      SOA     debian2.miguelliro. root.miguelliro. (
        20231108    ; Serial
        60         ; Refresh
        60         ; Retry
        600        ; Expire
        604800    ) ; Minimum TTL

@      in     NS      debian2.sri.miguelliro.
2      IN     PTR     debian2
10     TN     PTR     cliente1
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```

Compruebo que funcione



```

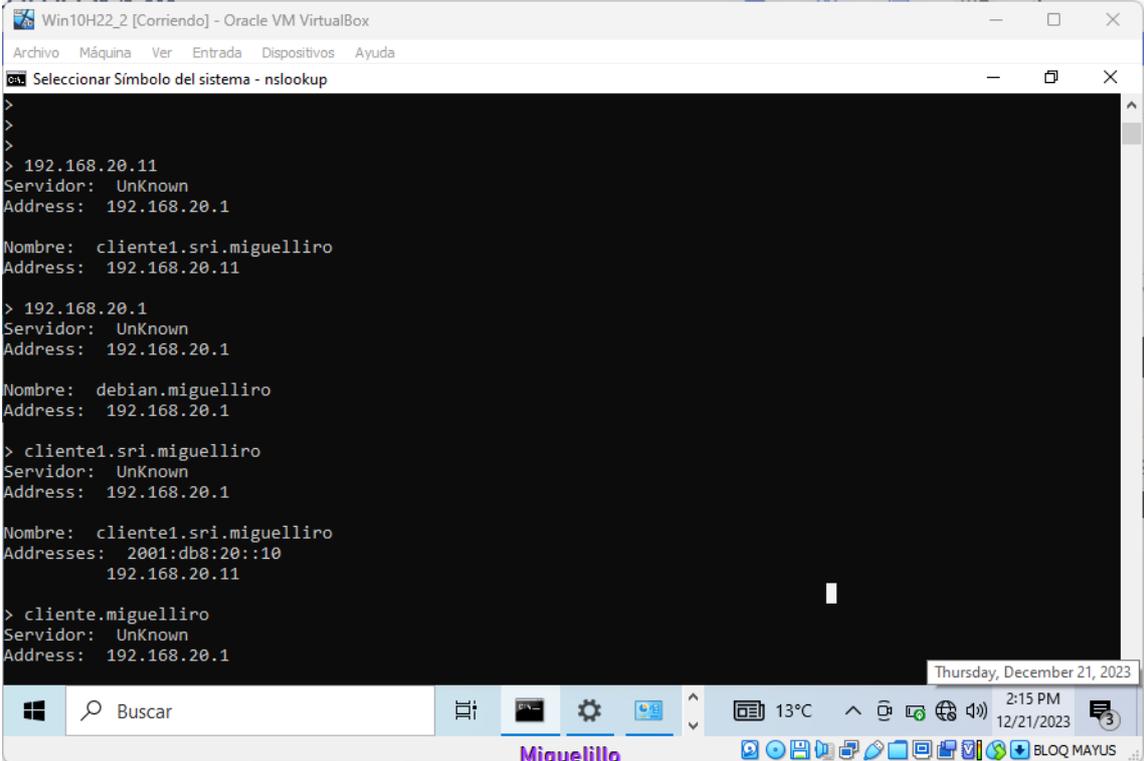
usuario@usuario-miguel-SRI:~$ sudo nano /etc/resolv.conf
[sudo] contraseña para usuario:
Lo siento, pruebe otra vez.
[sudo] contraseña para usuario:
usuario@usuario-miguel-SRI:~$ nslookup
> debian2.sri.miguelliro
;; communications error to 192.168.20.2#53: timed out
Server:         192.168.20.2
Address:        192.168.20.2#53

Name:   debian2.sri.miguelliro
Address: 192.168.20.2
Name:   debian2.sri.miguelliro
Address: 2001:db8:20::2
> cliente1.sri.miguelliro
;; communications error to 192.168.20.2#53: timed out
Server:         192.168.20.2
Address:        192.168.20.2#53

Name:   cliente1.sri.miguelliro
Address: 192.168.20.10
Name:   cliente1.sri.miguelliro
Address: 2001:db8:20::10
>
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```

Funciona tanto poniendo en el resolv el servidor principal o el secundario



```
Win10H22_2 [Corriendo] - Oracle VM VirtualBox
Archivo Máquina Ver Entrada Dispositivos Ayuda
Selecciónar Símbolo del sistema - nslookup
>
>
>
> 192.168.20.11
Servidor: UnKnown
Address: 192.168.20.1

Nombre: cliente1.sri.miguelliro
Address: 192.168.20.11

> 192.168.20.1
Servidor: UnKnown
Address: 192.168.20.1

Nombre: debian.miguelliro
Address: 192.168.20.1

> cliente1.sri.miguelliro
Servidor: UnKnown
Address: 192.168.20.1

Nombre: cliente1.sri.miguelliro
Addresses: 2001:db8:20::10
           192.168.20.11

> cliente.miguelliro
Servidor: UnKnown
Address: 192.168.20.1

Thursday, December 21, 2023
13°C 2:15 PM 12/21/2023
Miguelillo BLOQ MAYUS
```