

## AULA 4B- ROTEIRO DE EXECUÇÃO CENÁRIO 01

### Procedimentos:

1. **[DENVER]** Vamos fazer a instalação do DNS para que possamos navegar pelo nome dos sites:

```
root@SRVWEB-DENVER:~# apt install bind9 bind9-doc dnsutils -y_
```

- a. Verifique se o diretório de trabalho do bind9 foi criado corretamente:

```
root@SRVWEB-DENVER:~# ls /etc/bind/
bind.keys  db.127  db.empty  named.conf  named.conf.local  rndc.key
db.0       db.255  db.local  named.conf.default-zones  named.conf.options  zones.rfc1918
```

- b. Vamos alterar o arquivo named.conf.local, conforme detalhado abaixo:

```
root@SRVWEB-DENVER:~# vi /etc/bind/named.conf.local
```

```
1 //
2 // Do any local configuration here
3 //
4 //
5
6 zone "projeto.lin.br" {
7     type master;
8     file "/etc/bind/db.projeto.lin.br";
9 };
10
11
12 zone "0.31.172.in-addr.arpa" {
13     type master;
14     file "/etc/bind/db.0.31.172";
15 };
16
17
18 // Consider adding the 1918 zones here, if they are not used in your
19 // organization
20 //include "/etc/bind/zones.rfc1918";
21
```

- c. Vamos verificar a sintaxe dos arquivos alterados com o comando:

```
root@SRVWEB-DENVER:~# named-checkconf
root@SRVWEB-DENVER:~#
```

- d. Como não apareceu nenhuma mensagem de erro vamos continuar com a configuração criando a zona direta identificada como “**projetos.lin.br**” e a zona reversa “**db.0.31.172**”, conforme comandos abaixo.

```
root@SRVWEB-DENVER:~# cp -vbf /etc/bind/db.local /etc/bind/projetos.lin.br
'/etc/bind/db.local' -> '/etc/bind/projetos.lin.br'
root@SRVWEB-DENVER:~#

root@debian:~# cp -vbf /etc/bind/db.127 /etc/bind/db.0.31.172
'/etc/bind/db.127' -> '/etc/bind/db.0.31.172' (cópia de segurança: '/etc/bind/db.0.31.172~')
root@debian:~# _
```

- e. Arquivos criados, vamos alterar para nossa rede interna, primeiro a zona direta:

```
1 BIND reverse data file for empty rfc1918 zone
2 ;
3 ; DO NOT EDIT THIS FILE - it is used for multiple zones.
4 ; Instead, copy it, edit named.conf, and use that copy.
5 ;
6 $TTL      86400
7 @        IN      SOA      projetos.lin.br. root.projetos.lin.br. (
8                                     1           ; Serial
9                                     604800      ; Refresh
10                                    86400        ; Retry
11                                    2419200     ; Expire
12                                    86400       ) ; Negative Cache TTL
13 ;
14 @        IN      NS       srvweb-denver.projetos.lin.br.
15 @        IN      A        172.31.0.253
16 srvweb-denver IN    A      172.31.0.253
17 web      IN      CNAME    srvweb-denver
18 dns      IN      CNAME    srvweb-denver
19 www      IN      CNAME    srvweb-denver
20 mail     IN      CNAME    srvweb-denver
21 email    IN      CNAME    srvweb-denver
22 imap     IN      CNAME    srvweb-denver
23 pop      IN      CNAME    srvweb-denver
24 smtp     IN      CNAME    srvweb-denver
25 ftp      IN      CNAME    srvweb-denver
26 srvdc-nairobi IN    A      172.31.0.252
```

- f. Depois a zona reversa:

```
1 BIND reverse data file for empty rfc1918 zone
2 ;
3 ; DO NOT EDIT THIS FILE - it is used for multiple zones.
4 ; Instead, copy it, edit named.conf, and use that copy.
5 ;
6 $TTL      86400
7 @        IN      SOA      projetos.lin.br. root.projetos.lin.br. (
8                                     1           ; Serial
9                                     604800      ; Refresh
10                                    86400        ; Retry
11                                    2419200     ; Expire
12                                    86400       ) ; Negative Cache TTL
13 ;
14 @        IN      NS       srvweb-denver.projetos.lin.br.
15 @        IN      A        172.31.0.253
16 253      IN      PTR      srvweb-denver.projetos.lin.br.
17 252      IN      PTR      srvdc-nairobi.projetos.lin.br.
18 251      IN      PTR      srvmon-moscou.projetos.lin.br.
```

- g. Precisamos alterar o arquivo `/etc/bind/named.conf.options`, onde vamos atualizar com informações conforme abaixo, depois verificar seu funcionamento e vamos reiniciar o serviço do bind9:

```
1 acl goodclients {
2     10.10.0.0/29;
3     172.31.0.0/24;
4     localhost;
5 };
6
```

```
17 // the all-0's placeholder.
18 recursion yes;
19 allow-query { goodclients; };
20 forwarders {
21     192.168.1.41;
22     192.168.1.33;
23     8.8.8.8;
24 };
25
26 //=====
27 // If BIND logs error messages about the root key being expired,
28 // you will need to update your keys. See https://www.isc.org/bind-keys
29 //=====
30 forward only;
31 dnssec-enable yes;
32 dnssec-validation yes;
33 auth-nxdomain no;
34
35 listen-on-v6 { any; };
36
```

```

root@SRVWEB-DENVER:~# systemctl restart bind9.service
root@SRVWEB-DENVER:~# systemctl status bind9.service
● bind9.service - BIND Domain Name Service
   Loaded: loaded (/lib/systemd/system/bind9.service; enabled; vendor preset: enabled)
   Active: active (running) since Fri 2021-07-23 16:13:36 -03; 7s ago
     Docs: man:named(8)
   Process: 20928 ExecStart=/usr/sbin/named $OPTIONS (code=exited, status=0/SUCCESS)
   Main PID: 20929 (named)
    Tasks: 4 (limit: 1149)
   Memory: 11.9M
   CGroup: /system.slice/bind9.service
           └─20929 /usr/sbin/named -u bind

Jul 23 16:13:36 SRVWEB-DENVER named[20929]: network unreachable resolving './DNSKEY/IN': 2001:500:
Jul 23 16:13:36 SRVWEB-DENVER named[20929]: network unreachable resolving './NS/IN': 2001:500:1:1:5
Jul 23 16:13:36 SRVWEB-DENVER named[20929]: network unreachable resolving './DNSKEY/IN': 2001:500:
Jul 23 16:13:36 SRVWEB-DENVER named[20929]: network unreachable resolving './NS/IN': 2001:500:2:1:5
Jul 23 16:13:36 SRVWEB-DENVER named[20929]: network unreachable resolving './DNSKEY/IN': 2001:7fd:1:1:5
Jul 23 16:13:36 SRVWEB-DENVER named[20929]: network unreachable resolving './NS/IN': 2001:7fd:1:1:5
Jul 23 16:13:36 SRVWEB-DENVER named[20929]: network unreachable resolving './DNSKEY/IN': 2001:dc3:35#
Jul 23 16:13:37 SRVWEB-DENVER named[20929]: managed-keys-zone: Key 20326 for zone . acceptance tim
Jul 23 16:13:37 SRVWEB-DENVER named[20929]: resolver priming query complete

```

- h. Temos que fazer a alteração no nosso arquivo resolv.conf, conforme abaixo:

```
root@SRVWEB-DENVER:~# vi /etc/resolv.conf
```

```

1 domain projetos.lin.br
2 search projetos.lin.br
3 nameserver 172.31.0.253

```

2. **[DENVER]** Próximo passo, fazer os testes no próprio servidor de DNS, depois na estação de trabalho WINXPCLI pela linha de comando e pelo seu navegador:

```

root@SRVWEB-DENVER:~# nslookup srvweb-denver
Server:          172.31.0.253
Address:         172.31.0.253#53

Name:   SRVWEB-DENVER.projetos.lin.br
Address: 172.31.0.253

root@SRVWEB-DENVER:~# nslookup srvfw-berlim
Server:          172.31.0.253
Address:         172.31.0.253#53

Name:   SRVFW-BERLIM.projetos.lin.br
Address: 172.31.0.254

root@SRVWEB-DENVER:~# _

```

```

C:\Documents and Settings\Administrator>nslookup srvweb-denver
0.31.172.in-addr.arpa
  primary name server = projetos.lin.br
  responsible mail addr = root.projetos.lin.br
  serial = 4
  refresh = 604800 (7 days)
  retry = 86400 (1 day)
  expire = 2419200 (28 days)
  default ttl = 604800 (7 days)
*** Can't find server name for address 172.31.0.253: No information
*** Default servers are not available
Server: Unknown
Address: 172.31.0.253

*** Unknown can't find srvweb-denver: Query refused
C:\Documents and Settings\Administrator>_

```

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http://projetos.lin.br/

projetos.lin.br

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