

Aluno: Cássio de Albuquerque

Curso: Técnico em Redes de Computadores

Trabalho: SA2- Instalação e configuração de servidor DHCP

Configuração DHCP Debian Linux

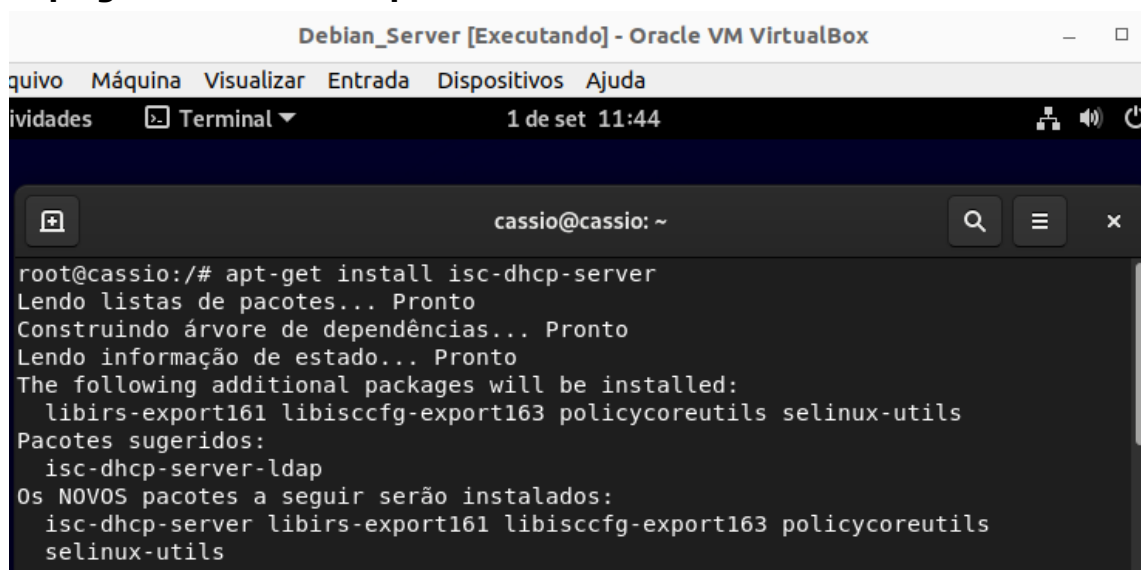
Configuração de DNS com Debian 11

1- Instalação do Bind9

#apt update

#apt upgrade

#apt-get install isc-dhcp-server



```
Debian_Server [Executando] - Oracle VM VirtualBox
Arquivo  Máquina  Visualizar  Entrada  Dispositivos  Ajuda
atividades  Terminal  1 de set 11:44

cassio@cassio: ~
root@cassio:/# apt-get install isc-dhcp-server
Lendo listas de pacotes... Pronto
Construindo árvore de dependências... Pronto
Lendo informação de estado... Pronto
The following additional packages will be installed:
  libirs-export161 libiscfg-export163 policycoreutils selinux-utils
Pacotes sugeridos:
  isc-dhcp-server-ldap
Os NOVOS pacotes a seguir serão instalados:
  isc-dhcp-server libirs-export161 libiscfg-export163 policycoreutils
  selinux-utils
```

```
cassio@cassio: ~
go
  Docs: man:systemd-sysv-generator(8)
  Process: 1904 ExecStart=/etc/init.d/isc-dhcp-server start (code=exited, status=1/FAILURE)
  CPU: 20ms

set 02 10:11:28 cassio dhcpd[1918]: before submitting a bug. These pages explain the proper
set 02 10:11:28 cassio isc-dhcp-server[1918]: before submitting a bug. These pages explain the proper
set 02 10:11:28 cassio dhcpd[1918]: process and the information we find helpful for debugging.
set 02 10:11:28 cassio isc-dhcp-server[1918]: process and the information we find helpful for debugging.
set 02 10:11:28 cassio dhcpd[1918]:
set 02 10:11:28 cassio dhcpd[1918]: exiting.
set 02 10:11:28 cassio isc-dhcp-server[1918]: exiting.
set 02 10:11:28 cassio systemd[1]: isc-dhcp-server.service: Control process exited, code=exited, status=1/FAILURE
set 02 10:11:28 cassio systemd[1]: isc-dhcp-server.service: Failed with result 'exit-code'.
set 02 10:11:28 cassio systemd[1]: Failed to start LSB: DHCP server.
A processar 'triggers' para man-db (2.9.4-2) ...
root@cassio:/#
```

2-Configurar arquivo dhcpd.conf

#nano /etc/dhcp/dhcpd.conf

No início se já tivermos um servidor DNS podemos inseri-lo conforme fiz.

```
GNU nano 5.4 /etc/dhcp/dhcpd.conf
1 dhcpd.conf
2 #
3 # Sample configuration file for ISC dhcpd
4 #
5
6 # option definitions common to all supported networks...
7 option domain-name "senai.org";
8 option domain-name-servers 10.0.2.15, 8.8.8.8;
9
10 default-lease-time 600;
11 max-lease-time 7200;
12
13 # The ddns-updates-style parameter controls whether or not the server will
14 # attempt to do a DNS update when a lease is confirmed. We default to the
15 # behavior of the version 2 packages ('none', since DHCP v2 didn't
16 # have support for DDNS.)
17 ddns-update-style none;
18
19 # If this DHCP server is the official DHCP server for the local
20 # network, the authoritative directive should be uncommented.
[ 107 linhas lidas ]
```

```
cassio@cassio: ~
GNU nano 5.4 /etc/dhcp/dhcpd.conf
13 # The ddns-updates-style parameter controls whether or not the server will
14 # attempt to do a DNS update when a lease is confirmed. We default to the
15 # behavior of the version 2 packages ('none', since DHCP v2 didn't
16 # have support for DDNS.)
17 ddns-update-style none;
18
19 # If this DHCP server is the official DHCP server for the local
20 # network, the authoritative directive should be uncommented.
21 authoritative;
22
23 # Use this to send dhcp log messages to a different log file (you also
24 # have to hack syslog.conf to complete the redirection).
25 log-facility local7;
26
27 # No service will be given on this subnet, but declaring it helps the
28 # DHCP server to understand the network topology.
29
30 #subnet 10.152.187.0 netmask 255.255.255.0 {
31 #}
32
```

Devemos descomentar algumas linhas no arquivo, principalmente authoritative.

Ao final adicionamos os dados de nossa rede, inserindo a rede, mascara de sub-rede e intervalo da quantidade de hosts. Depois informamos nossa

```
cassio@cassio: ~
GNU nano 5.4 /etc/dhcp/dhcpd.conf
30 #subnet 10.152.187.0 netmask 255.255.255.0 {
31 #}
32
33 # This is a very basic subnet declaration.
34
35 subnet 10.0.2.0 netmask 255.255.255.0 {
36     range 10.0.2.1 10.0.2.20;
37 }
38
39
40 # This declaration allows BOOTP clients to get dynamic addresses,
41 # which we don't really recommend.
42
43 #subnet 10.254.239.32 netmask 255.255.255.224 {
44 #     range dynamic-bootp 10.254.239.40 10.254.239.60;
45 #     option broadcast-address 10.254.239.31;
46 #     option routers rtr-239-32-1.example.org;
47 #}
48
49 # A slightly different configuration for an internal subnet.
```

rede, gateway se tivermos, intervalo da rede (range), endereço de broadcast e máscara de subrede.

3- Indicamos a interface que será utilizada pelo servidor no documento interfaces no diretório network. No caso enp0s3

nano /etc/default/isc-dhcp-server (no meu caso enp0s3)



```
GNU nano 5.4 /etc/default/isc-dhcp-server
# Defaults for isc-dhcp-server (sourced by /etc/init.d/isc-dhcp-server)

# Path to dhcpd's config file (default: /etc/dhcp/dhcpd.conf).
#DHCPDv4_CONF=/etc/dhcp/dhcpd.conf
#DHCPDv6_CONF=/etc/dhcp/dhcpd6.conf

# Path to dhcpd's PID file (default: /var/run/dhcpd.pid).
#DHCPDv4_PID=/var/run/dhcpd.pid
#DHCPDv6_PID=/var/run/dhcpd6.pid

# Additional options to start dhcpd with.
# Don't use options -cf or -pf here; use DHCPD_CONF/ DHCPD_PID instead
#OPTIONS=""

# On what interfaces should the DHCP server (dhcpd) serve DHCP requests?
# Separate multiple interfaces with spaces, e.g. "eth0 eth1".
INTERFACESv4="enp0s3"
INTERFACESv6=""

[ 18 linhas lidas ]
```

4- Reiniciamos o serviço com os seguintes comandos.

etc/init.d/isc-dhcp-server restart

5- Verificamos o status do servidor. No caso ativo e funcionando.

```
cassio@cassio: ~
root@cassio:/# nano /etc/default/isc-dhcp-server
root@cassio:/# systemctl status isc-dhcp-server.service
● isc-dhcp-server.service - LSB: DHCP server
   Loaded: loaded (/etc/init.d/isc-dhcp-server; generated)
   Active: active (running) since Sat 2022-09-03 18:54:45 -03; 2min 59s ago
     Docs: man:systemd-sysv-generator(8)
  Process: 575 ExecStart=/etc/init.d/isc-dhcp-server start (code=exited, stat>
    Tasks: 4 (limit: 2324)
   Memory: 9.3M
        CPU: 53ms
    CGroup: /system.slice/isc-dhcp-server.service
            └─596 /usr/sbin/dhcpd -4 -q -cf /etc/dhcp/dhcpd.conf enp0s3

set 03 18:54:43 cassio dhcpd[585]: All rights reserved.
set 03 18:54:43 cassio dhcpd[585]: For info, please visit https://www.isc.org/s>
set 03 18:54:43 cassio dhcpd[596]: Internet Systems Consortium DHCP Server 4.4.1
set 03 18:54:43 cassio dhcpd[596]: Copyright 2004-2018 Internet Systems Consort>
set 03 18:54:43 cassio dhcpd[596]: All rights reserved.
set 03 18:54:43 cassio dhcpd[596]: For info, please visit https://www.isc.org/s>
set 03 18:54:43 cassio dhcpd[596]: Wrote 0 leases to leases file.
set 03 18:54:43 cassio dhcpd[596]: Server starting service.
set 03 18:54:45 cassio isc-dhcp-server[575]: Starting ISC DHCPv4 server: dhcpd.
```