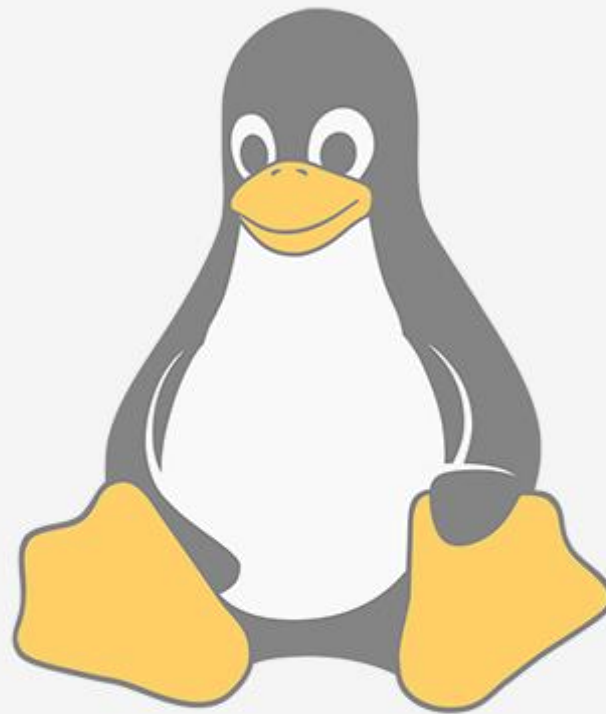




Serviços de Rede Local

Prof: Jefferson Brandão



Linux™

DHCP no
Debian

DHCP no Debian

Acesse o sistema com seu login.

```
Debian GNU/Linux 9 debian tty1

debian login: aluno
Password:
Last login: Wed May 19 13:25:49 -03 2021 on tty1
Linux debian 4.9.0-15-amd64 #1 SMP Debian 4.9.258-1 (2021-03-08) x86_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
aluno@debian:~$
```

DHCP no Debian

Para realizar a configuração, vamos alterar para o usuário root.

aluno@debian:~\$ su

```
Debian GNU/Linux 9 debian tty1
debian login: aluno
Password:
Last login: Wed May 19 13:25:49 -03 2021 on tty1
Linux debian 4.9.0-15-amd64 #1 SMP Debian 4.9.258-1 (2021-03-08) x86_64

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permitted by applicable law.
aluno@debian:~$ su
Senha:
root@debian:/home/aluno# _
```

DHCP no Debian

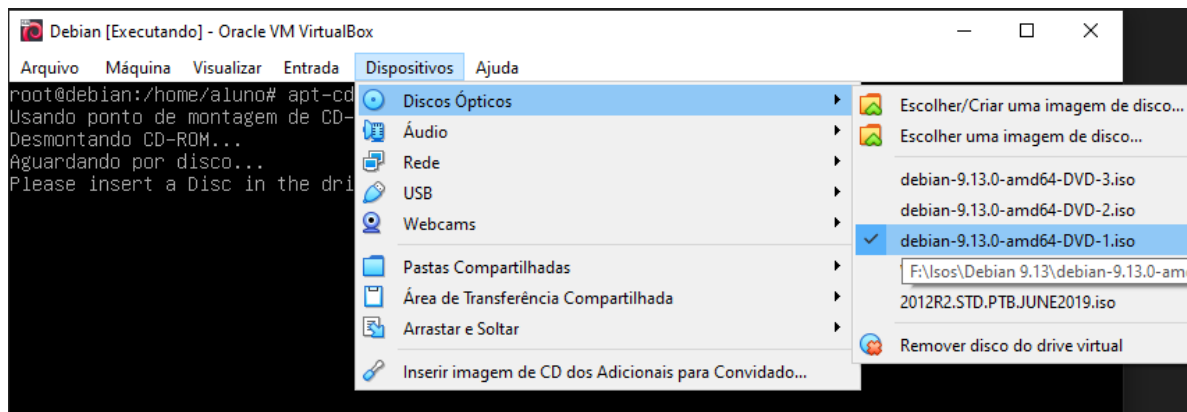
Como não temos acesso à rede externa, vamos configurar os demais DVDs como repositórios.

root@debian: \$ **apt-cdrom add**

```
root@debian:/home/aluno# apt-cdrom add
Usando ponto de montagem de CD-ROM /media/cdrom/
Desmontando CD-ROM...
Aguardando por disco...
Please insert a Disc in the drive and press [Enter] _
```

DHCP no Debian

O sistema irá pedir o DVD, insira-o no drive virtual e pressione <ENTER>.



DHCP no Debian

Repita o comando para inserir os DVDs de número 2 e 3.

```
root@debian:/home/aluno# apt-cdrom add
Usando ponto de montagem de CD-ROM /media/cdrom/
Desmontando CD-ROM...
Aguardando por disco...
Please insert a Disc in the drive and press [Enter]
Montando CD-ROM...
Identificando... [3499991a1c974d34b1f07cea4df324ac-2]
Procurando por arquivos de índice no disco...
Encontrado(s) 2 índice(s) de pacote(s), 0 índice(s) de fonte(s), 4 índice(s) de traduções e 0 assinatura(s)
Esse disco é chamado:
'Debian GNU/Linux 9.13.0 _Stretch_ - Official amd64 DVD Binary-1 20200718-11:07'
Reading Package Indexes... Pronto
Reading Translation Indexes... Pronto
Gravando nova lista de fontes
Entradas na lista de fontes para este disco são:
deb cdrom:[Debian GNU/Linux 9.13.0 _Stretch_ - Official amd64 DVD Binary-1 20200718-11:07]/ stretch
contrib main
Desmontando CD-ROM...
Repita este processo para o restante dos CDs em seu conjunto.
root@debian:/home/aluno#
```

DHCP no Debian

Siga com os comandos:

```
root@debian:/home/aluno#apt update
```

```
root@debian:/home/aluno#apt upgrade
```

Verifique seu arquivo de fontes de repositório com o comando:

```
root@debian:/home/aluno#nano  
/etc/apt/sources.list
```


DHCP no Debian

Ele deve estar assim:

```
GNU nano 2.7.4           Arquivo: /etc/apt/sources.list

#
# deb cdrom:[Debian GNU/Linux 9.13.0 _Stretch_ - Official amd64 DVD Binary-1 20200718-11:07]/ stretch$
deb cdrom:[Debian GNU/Linux 9.13.0 _Stretch_ - Official amd64 DVD Binary-3 20200718-11:07]/ stretch$
deb cdrom:[Debian GNU/Linux 9.13.0 _Stretch_ - Official amd64 DVD Binary-2 20200718-11:07]/ stretch$
deb cdrom:[Debian GNU/Linux 9.13.0 _Stretch_ - Official amd64 DVD Binary-1 20200718-11:07]/ stretch$

# Line commented out by installer because it failed to verify:
#deb http://security.debian.org/debian-security stretch/updates main contrib
# Line commented out by installer because it failed to verify:
#deb-src http://security.debian.org/debian-security stretch/updates main contrib

# stretch-updates, previously known as 'volatile'
# A network mirror was not selected during install. The following entries
# are provided as examples, but you should amend them as appropriate
# for your mirror of choice.
#
# deb http://deb.debian.org/debian/ stretch-updates main contrib
# deb-src http://deb.debian.org/debian/ stretch-updates main contrib
```

DHCP no Debian

Siga com o comando:

```
root@debian:home/aluno#apt install isc-dhcp-server
```

Siga os comandos na tela até que o sistema peça a inserção do disco 2 do Debian. Insira-o e pressione <ENTER>.

DHCP no Debian

Ao final da instalação é comum apresentar erro, pois o servidor não está configurado.

```
Configurando libisccc-export140:amd64 (1:9.10.3.dfsg.P4-12.3+deb9u6) ...
Configurando selinux-utils (2.6-3+b3) ...
A processar 'triggers' para libc-bin (2.24-11+deb9u4) ...
A processar 'triggers' para systemd (232-25+deb9u12) ...
A processar 'triggers' para man-db (2.7.6.1-2) ...
Configurando libiscfg-export140 (1:9.10.3.dfsg.P4-12.3+deb9u6) ...
Configurando policycoreutils (2.6-3) ...
selinux-autorelabel-mark.service is a disabled or a static unit, not starting it.
Configurando libirs-export141 (1:9.10.3.dfsg.P4-12.3+deb9u6) ...
Configurando isc-dhcp-server (4.3.5-3+deb9u1) ...
Generating /etc/default/isc-dhcp-server...
Job for isc-dhcp-server.service failed because the control process exited with error code.
See "systemctl status isc-dhcp-server.service" and "journalctl -xe" for details.
invoke-rc.d: initscript isc-dhcp-server, action "start" failed.
• isc-dhcp-server.service - LSB: DHCP server
   Loaded: loaded (/etc/init.d/isc-dhcp-server; generated; vendor preset: enabled)
   Active: failed (Result: exit-code) since Sun 2021-05-23 16:49:16 -03; 6ms ago
     Docs: man:systemd-sysv-generator(8)
   Process: 1249 ExecStart=/etc/init.d/isc-dhcp-server start (code=exited, status=1/FAILURE)

mai 23 16:49:14 debian dhcpcd[1260]: If you think you have received this message due to a bug rather
mai 23 16:49:14 debian dhcpcd[1260]: than a configuration issue please read the section on submitting
mai 23 16:49:14 debian dhcpcd[1260]: bugs on either our web page at www.isc.org or in the README fi
mai 23 16:49:14 debian dhcpcd[1260]: before submitting a bug. These pages explain the proper
mai 23 16:49:16 debian isc-dhcp-server[1249]: Starting ISC DHCPv4 server: dhcpcdcheck syslog fo...ile
mai 23 16:49:16 debian isc-dhcp-server[1249]: failed!
mai 23 16:49:16 debian systemd[1]: isc-dhcp-server.service: Control process exited, code=exit...atus
mai 23 16:49:16 debian systemd[1]: Failed to start LSB: DHCP server.
mai 23 16:49:16 debian systemd[1]: isc-dhcp-server.service: Unit entered failed state.
mai 23 16:49:16 debian systemd[1]: isc-dhcp-server.service: Failed with result 'exit-code'.
Hint: Some lines were ellipsized, use -l to show in full.
A processar 'triggers' para libc-bin (2.24-11+deb9u4) ...
A processar 'triggers' para systemd (232-25+deb9u12) ...
root@debian:/home/aluno# _
```

DHCP no Debian

Vamos iniciar a configuração:

```
root@debian:/home/aluno#nano /etc/default/isc-dhcp-server
```

Edite o arquivo, adicionando nossa interface de rede a distribuição de IPv4.

DHCP no Debian

O resultado deve ser este:

```
GNU nano 2.7.4      Arquivo: /etc/default/isc-dhcp-server      Modificado
# 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=""
```

Salve o arquivo e saia do editor.

DHCP no Debian

Vamos agora configurar o serviço DHCP:

```
root@debian:/home/aluno#nano  
/etc/dhcp/dhcpd.conf
```

Altere o arquivo conforme o slide a seguir.

DHCP no Debian

```
# If this DHCP server is the official DHCP server for the local
# network, the authoritative directive should be uncommented.
#authoritative;

# Use this to send dhcp log messages to a different log file (you also
# have to hack syslog.conf to complete the redirection).
#log-facility local7;

# No service will be given on this subnet, but declaring it helps the
# DHCP server to understand the network topology.

#subnet 10.152.187.0 netmask 255.255.255.0 {
#}

# This is a very basic subnet declaration.
subnet 192.168.0.0 netmask 255.255.255.0 {
    range 192.168.0.10 192.168.0.99;
    option routers 192.168.0.100;
}

# This declaration allows BOOTP clients to get dynamic addresses,
# which we don't really recommend.

#subnet 10.254.239.32 netmask 255.255.255.224 {
#    range dynamic-bootp 10.254.239.40 10.254.239.60;
#    option broadcast-address 10.254.239.31;
#    option routers rtr-239-32-1.example.org;
#}

# A slightly different configuration for an internal subnet.
```

⌘ G Ajuda ⌘ O Gravar ⌘ W Onde está? ⌘ K Recort txt ⌘ J Justificar ⌘ C Pos atual ⌘ Y Pág anter
⌘ X Sair ⌘ R Ler o arq ⌘ \ Substituir ⌘ U Colar txt ⌘ T VerifOrtog ⌘ _ Ir p/ linha ⌘ V Próx pág

DHCP no Debian

Reinicie o serviço DHCP:

root@debian:/home/aluno# /etc/init.d/isc-dhcp-server restart

Se tudo der certo, a mensagem a seguir será exibida:

```
root@debian:/home/aluno# /etc/init.d/isc-dhcp-server restart
[ ok ] Restarting isc-dhcp-server (via systemctl): isc-dhcp-server.service.
root@debian:/home/aluno# _
```


DHCP no Debian

Inicie uma máquina cliente e verifique se ela receberá as configurações de rede através do seu servidor DHCP Linux.

