

# Instalação SQUID

▼ Disciplina

Laboratório de Redes

```
root@debian:/home/leidy# gedit /etc/network/interfaces
```

**Obs: Onde tem XX → coloque o número do seu RA**

```
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

source /etc/network/interfaces.d/*
allow-hotplug enp0s3
allow-hotplug enp0s8

# The loopback network interface
auto lo
iface lo inet loopback

iface enp0s3 inet dhcp

#auto enp0s3

iface enp0s8 inet static
address 192.168.XX.1
netmask 255.255.255.0
network 192.168.XX.0
gateway 192.168.XX.1
broadcast 192.168.XX.255
```

```
root@debian:/home/leidy# apt install squid
```

Para funcionar o squid, precisa configurar, onde tem XX é a config do IP, coloque o número do RA da fatec

Verifica se a rede está funcionando: ip da google

```
root@debian:/home/leidy# ping 8.8.8.8
```

```
leidy@debian: ~  
root@debian:/home/leidy# ping 8.8.8.8  
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.  
64 bytes from 8.8.8.8: icmp_seq=1 ttl=50 time=20.6 ms  
64 bytes from 8.8.8.8: icmp_seq=2 ttl=50 time=20.9 ms  
64 bytes from 8.8.8.8: icmp_seq=3 ttl=50 time=20.5 ms  
64 bytes from 8.8.8.8: icmp_seq=4 ttl=50 time=20.4 ms
```

Verificar se está funcionando o Squid

```
root@debian:/home/leidy# systemctl status squid
```

```
leidy@debian: ~  
root@debian:/home/leidy# systemctl status squid  
● squid.service - Squid Web Proxy Server  
   Loaded: loaded (/lib/systemd/system/squid.service; enabled; vendor preset: en>  
   Active: active (running) since Fri 2023-11-17 19:37:41 -03; 16min ago  
     Docs: man:squid(8)  
  Process: 640 ExecStartPre=/usr/sbin/squid --foreground -z (code=exited, sta>  
 Main PID: 1022 (squid)  
    Tasks: 4 (limit: 12600)  
   Memory: 27.6M  
      CPU: 716ms  
   CGroup: /system.slice/squid.service  
           └─1022 /usr/sbin/squid --foreground -sYC  
             └─1028 (squid-1) --kid squid-1 --foreground -sYC  
               └─1145 (logfile-daemon) /var/log/squid/access.log  
                 └─1227 (pinger)  
  
nov 17 19:37:41 debian squid[1028]: Using Least Load store dir selection  
nov 17 19:37:41 debian squid[1028]: Set Current Directory to /var/spool/squid  
nov 17 19:37:41 debian squid[1028]: Finished loading MIME types and icons.  
nov 17 19:37:41 debian squid[1028]: HTCP Disabled.  
nov 17 19:37:41 debian squid[1028]: Pinger socket opened on FD 14  
nov 17 19:37:41 debian squid[1028]: Squid plugin modules loaded: 0
```

**Importante: Fazer backup antes de mexer no Conf**

```
root@debian:/home/leidy# cp -v /etc/squid/squid.conf /etc/squid/squid.conf.BACKUP
'/etc/squid/squid.conf' -> '/etc/squid/squid.conf.BACKUP'
root@debian:/home/leidy#
```

```
root@debian:/home/leidy# rm -v /etc/squid/squid.conf
removido '/etc/squid/squid.conf'
root@debian:/home/leidy# █
```

```
#Alterar servidor - faça backup
root@debian:/home/leidy# gedit /etc/squid/squid.conf
root@debian:/home/leidy# cp -v /etc/squid/squid.conf /etc/squid/squid.conf.BACKUP

'/etc/squid/squid.conf' -> '/etc/squid/squid.conf.BACKUP'

root@debian:/home/leidy#
root@debian:/home/leidy# rm -v /etc/squid/squid.conf

removido '/etc/squid/squid.conf'

root@debian:/home/leidy#
root@debian:/home/leidy# gedit /etc/squid/squid.conf
```

## Adicionar no Conf

Novamente: Onde tem a palavra XX coloque seu número do RA.

```
http_port 192.168.XX.1:3128
http_port 192.168.XX.1:3129 intercept

cache_mem 256 MB
cache_swap_low 90
cache_swap_high 95

access_log /var/log/squid/access.log squid
cache_log /var/log/squid/cache.log
cache_store_log /var/log/squid/store.log

mime_table /usr/share/squid/mime.conf

memory_pools off

diskd_program /usr/lib/squid/diskd
unlinkd_program /usr/lib/squid/unlinkd
quick_abort_max 16 KB
quick_abort_pct 95
quick_abort_min 16 KB
request_header_max_size 20 KB
reply_header_max_size 20 KB
request_body_max_size 0 KB
```

```

acl RedeFatec src 192.168.XX.0/24
# Representa a sua rede e respectiva mascara de sub-rede

acl SSL_ports port 443 563
acl Safe_ports port 80 # http
acl Safe_ports port 21 # ftp
acl Safe_ports port 443 563 1863 # https
acl Safe_ports port 70 # gopher
acl Safe_ports port 210 # wais
acl Safe_ports port 1025-65535 # unregistered ports
acl Safe_ports port 280 # http-mgmt
acl Safe_ports port 488 # gss-http
acl Safe_ports port 591 # filemaker
acl Safe_ports port 777 # multiling http
acl CONNECT method CONNECT

# IP Negado
#acl ip_negado src "/etc/squid/ip_negado"
#http_access deny ip_negado

# Regras de bloqueio de site (por palavras)
#acl palavra url_regex -i "/etc/squid/palavra_negada"
#http_access deny palavra

http_access allow manager localhost
http_access deny manager
http_access deny !Safe_ports
http_access deny CONNECT !SSL_ports
http_access allow RedeFatec

cache_mgr webmaster
mail_program mail
cache_effective_user proxy
cache_effective_group proxy
httpd_suppress_version_string off
visible_hostname Fatec.org

error_directory /usr/share/squid/errors/Portuguese/

```

```

root@debian:/home/leidy# systemctl restart squid
root@debian:/home/leidy# systemctl status squid

```

```
leidy@debian: ~
root@debian:/home/leidy# systemctl restart squid
root@debian:/home/leidy# systemctl status squid
● squid.service - Squid Web Proxy Server
   Loaded: loaded (/lib/systemd/system/squid.service; enabled; vendor preset: en
   Active: active (running) since Fri 2023-11-17 20:26:11 -03; 15s ago
     Docs: man:squid(8)
   Process: 3694 ExecStartPre=/usr/sbin/squid --foreground -z (code=exited, statu
 Main PID: 3698 (squid)
    Tasks: 3 (limit: 12600)
   Memory: 15.5M
      CPU: 258ms
   CGroup: /system.slice/squid.service
           └─3698 /usr/sbin/squid --foreground -sYC
             └─3700 (squid-1) --kid squid-1 --foreground -sYC
               └─3701 (pinger)

nov 17 20:26:11 debian squid[3700]: Current Directory is /
nov 17 20:26:11 debian squid[3700]: Finished loading MIME types and icons.
nov 17 20:26:11 debian squid[3700]: HTCP Disabled.
nov 17 20:26:11 debian squid[3700]: Pinger socket opened on FD 15
nov 17 20:26:11 debian squid[3700]: Squid plugin modules loaded: 0
nov 17 20:26:11 debian squid[3700]: Adaptation support is off.
nov 17 20:26:11 debian systemd[1]: Started Squid Web Proxy Server.
nov 17 20:26:11 debian squid[3700]: Accepting HTTP Socket connections at local=192
```

## Exemplos para bloquear

Digamos que quero bloquear o mec, vou bloquear o http

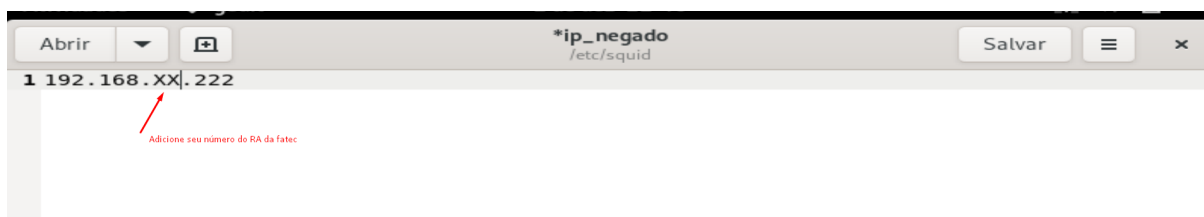
```
root@debian:/home/leidy# gedit /etc/squid/squid.conf
```

IP que não quero acessar. Tira o #

```
40
41 # IP Negado
42 acl ip_negado src "/etc/squid/ip_negado"
43 http_access deny ip_negado
44
45 # Regras de bloqueio de site (por palavras)
46 #acl palavra url_regex -i "/etc/squid/palavra_neg
47 #http_access deny palavra
48
49 http_access allow manager localhost
```

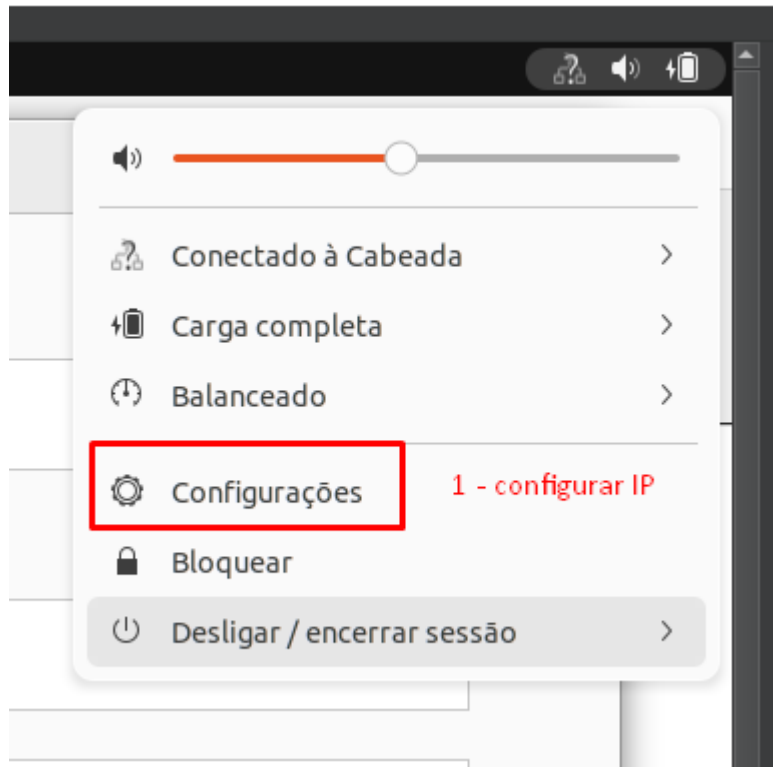
```
root@debian:/home/leidy# gedit /etc/squid/ip_negado
```

Após colocar o IP do cliente, precisa dar um resatart no squid



```
root@debian:/home/leidy# systemctl restart squid
```

**Configurações do Cliente, entre na sua outra máquina virtual, não é a do servidor.**



Cancelar Com fio Aplicar

Detalhes Identidade **IPv4** IPv6 Segurança

**Método IPv4** ☐ Automático (DHCP) ☐ Apenas conexão local  
☒ **Manual** ☐ Desabilitar  
☐ Compartilhada com outros computadores

**Endereços**

Endereço	Máscara de rede	Gateway	
192.168.222	255.255.255.0	192.168.1.1	

O ip do servidor é 192.168.1.1 Número do RA

**DNS** Automático ☒

8.8.8.8

Separe os endereços IP com vírgulas

Conseguimos ver o log no servidor

```
leidy@debian:~$ su
Senha:
root@debian:/home/leidy# tail -f /var/log/squid/access.log
```

## Agora por palavra negada

Comenta a linha 42 e 43 e tira o comentário # da linha 46 e 47

```
root@debian:/home/leidy# gedit /etc/squid/squid.conf
```

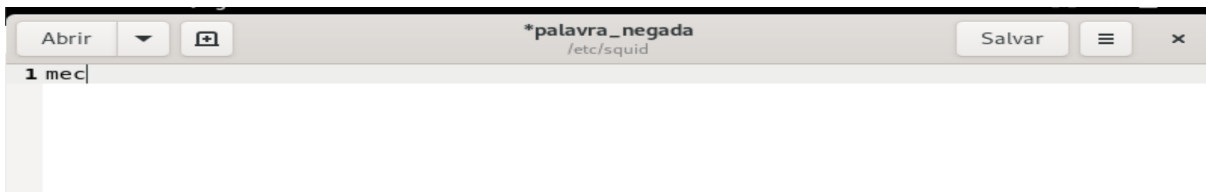
```

40
41 # IP Negado
42 #acl ip_negado src "/etc/squid/ip_negado"
43 #http_access deny ip_negado
44
45 # Regras de bloqueio de site (por palavras)
46 acl palavra url_regex -i "/etc/squid/palavra_negada"
47 http_access deny palavra
48
49 http_access allow manager localhost
50 http_access deny manager
51 http_access deny !Safe_ports
52 http_access deny CONNECT !SSL_ports
53 http_access allow RedeFatec

```

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```
root@debian:/home/leidy# gedit /etc/squid/palavra_negada
```



```
root@debian:/home/leidy# systemctl restart squid
```

Consequimos ver o log no servidor

```
root@debian:/home/leidy# tail -f /var/log/squid/access.log
```

## Agora por pode colocar qualquer link para bloquear

```

leidy@debian:~$ su
Senha:
root@debian:/home/leidy# gedit /etc/squid/bloquei.https.txt
root@debian:/home/leidy# sudo iptables -L
root@debian:/home/leidy# sudo iptables -t nat -L

```





Precisa entrar no cliente e entrar em algum site http

```
root@debian:/home/leidy# tail -f /var/log/squid/access.log
```

Conseguimos ver o log no servidor