

Linux

Ubuntu Server 14.04 LTS

Configuração do Proxy Transparente no Ubuntu Server

Professor:

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1 1-Configuração do Proxy Transparente no Servidor Linux

1.1- Configuração do servidor Proxy Transparente


```
root@ubuntu:/home/ubuntu# apt-get update_
```

1.1- Configuração do servidor Proxy Transparente

```
Hit http://br.archive.ubuntu.com trusty/main Sources
Hit http://br.archive.ubuntu.com trusty/restricted Sources
Hit http://br.archive.ubuntu.com trusty/universe Sources
Get:31 http://security.ubuntu.com trusty-security/main Translation-en [291 kB]
Hit http://br.archive.ubuntu.com trusty/multiverse Sources
Hit http://br.archive.ubuntu.com trusty/main amd64 Packages
Hit http://br.archive.ubuntu.com trusty/restricted amd64 Packages
Hit http://br.archive.ubuntu.com trusty/universe amd64 Packages
Hit http://br.archive.ubuntu.com trusty/multiverse amd64 Packages
Hit http://br.archive.ubuntu.com trusty/main i386 Packages
Hit http://br.archive.ubuntu.com trusty/restricted i386 Packages
Hit http://br.archive.ubuntu.com trusty/universe i386 Packages
Hit http://br.archive.ubuntu.com trusty/multiverse i386 Packages
Hit http://br.archive.ubuntu.com trusty/main Translation-en
Get:32 http://security.ubuntu.com trusty-security/multiverse Translation-en [2,570 B]
Hit http://br.archive.ubuntu.com trusty/multiverse Translation-en
Get:33 http://security.ubuntu.com trusty-security/restricted Translation-en [3,206 B]
Get:34 http://security.ubuntu.com trusty-security/universe Translation-en [82.0 kB]
Hit http://br.archive.ubuntu.com trusty/restricted Translation-en
Hit http://br.archive.ubuntu.com trusty/universe Translation-en
Ign http://br.archive.ubuntu.com trusty/main Translation-en_US
Ign http://br.archive.ubuntu.com trusty/multiverse Translation-en_US
Ign http://br.archive.ubuntu.com trusty/restricted Translation-en_US
Ign http://br.archive.ubuntu.com trusty/universe Translation-en_US
Fetched 5,775 kB in 22s (252 kB/s)
Reading package lists... Done
root@ubuntu:/home/ubuntu#
```

1.1- Configuração do servidor Proxy Transparente

```
root@ubuntu:/home/ubuntu# nano /etc/squid3/squid.conf
```

A terminal window with a black background and white text. The prompt is 'root@ubuntu:/home/ubuntu#'. The command entered is 'nano /etc/squid3/squid.conf'. The rest of the terminal area is empty.

1.1- Configuração do servidor Proxy Transparente

```
GNU nano 2.2.6      File: /etc/squid3/squid.conf      Modified

http_port 3128 transparent
visible_hostname ewerton
acl all src

#auth_param basic realm Squid
#auth_param basic program /usr/lib/squid3/basic_ncsa_auth /etc/squid3/squid_passwd
#acl autenticados proxy_auth REQUIRED

#http_access allow autenticados

http_access allow all

^G Get Help  ^O WriteOut  ^R Read File  ^Y Prev Page  ^K Cut Text   ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is   ^U Next Page  ^U UnCut Text ^T To Spell
```

1.1- Configuração do servidor Proxy Transparente

```
root@ubuntu:/home/ubuntu# squid3 -z
2016/09/26 08:56:59! Squid is already running! Process ID 1021
root@ubuntu:/home/ubuntu#
```

1.1- Configuração do servidor Proxy Transparente

```
root@ubuntu:/home/ubuntu# nano /etc/rc.local
```



1.1- Configuração do servidor Proxy Transparente

```
GNU nano 2.2.6          File: /etc/rc.local

#Habilita o NAT
modprobe iptable_nat

#Faz o encaminhamento dos pacotes para o compartilhamento
echo 1 > /proc/sys/net/ipv4/ip_forward

#Habilita a interface de Internet (eth0) para o compartilhamento
iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE

#Habilita navegacao nas maquinas clientes apenas com a configuracao do proxy
#iptables -t nat -A PREROUTING -i eth1 -p tcp --dport 80 -j DNAT --to-destinatio$

#iptables -t nat -A PREROUTING -i eth1 -p tcp --dport 443 -j DNAT --to-destinatio$

iptables -t -A PREROUTING -i eth1 -p tcp --dport 80 -j REDIRECT --to-port 3128

exit 0

[ Wrote 30 lines ]
^G Get Help  ^O WriteOut  ^R Read File  ^Y Prev Page  ^K Cut Text   ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is   ^U Next Page  ^U UnCut Text ^T To Spell
```

1.1- Configuração do servidor Proxy Transparente

```
root@ubuntu:/home/asoa# iptables -t nat -A PREROUTING -i eth1 -p tcp --dport 80 -j REDIRECT --to-port 3128
root@ubuntu:/home/asoa#
```

1.1- Configuração do servidor Proxy Transparente

```
root@ubuntu:/home/ubuntu# apt-get install apache2_
```

1.1- Configuração do servidor Proxy Transparente

```
root@ubuntu:/home/ubuntu# apt-get install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  apache2-bin apache2-data libaprutil1-dbd-sqlite3 libaprutil1-ldap
Suggested packages:
  apache2-doc apache2-suexec-pristine apache2-suexec-custom
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data libaprutil1-dbd-sqlite3 libaprutil1-ldap
0 upgraded, 5 newly installed, 0 to remove and 93 not upgraded.
Need to get 1,106 kB of archives.
After this operation, 4,714 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y_
```

1.1- Configuração do servidor Proxy Transparente

```
root@ubuntu:/home/ubuntu# nano /var/www/wpad.dat
```



1.1- Configuração do servidor Proxy Transparente

```
GNU nano 2.2.6      File: /var/www/wpad.dat      Modified
function FindProxyForURL(url, host)
{
return "PROXY 192.168.13.1:3128";
}

^G Get Help  ^O WriteOut  ^R Read File  ^Y Prev Page  ^K Cut Text   ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is   ^U Next Page  ^U UnCut Text ^T To Spell
```

1.1- Configuração do servidor Proxy Transparente

```
root@ubuntu:/home/ubuntu# service squid3 restart
squid3 stop/waiting
squid3 start/running, process 2185
root@ubuntu:/home/ubuntu#
```

1.1- Configuração do servidor Proxy Transparente

```
root@ubuntu:/# nano /etc/dhcp/dhcpd.conf _
```


1.1- Configuração do servidor Proxy Transparente

```
GNU nano 2.2.6      File: /etc/dhcp/dhcpd.conf      Modified

ddns-update-style none;
default-lease-time 600;
max-lease-time 7200;
authoritative;

subnet 192.168.13.0 netmask 255.255.255.0 {
range 192.168.13.2 192.168.13.254;
option routers 192.168.13.1;
option domain-name-servers 8.8.8.8,192.168.13.1;
option broadcast-address 192.168.13.255;
-
}

^G Get Help  ^O WriteOut  ^R Read File  ^Y Prev Page  ^K Cut Text   ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is   ^U Next Page  ^U UnCut Text ^T To Spell
```

1.1- Configuração do servidor Proxy Transparente

```
GNU nano 2.2.6      File: /etc/dhcp/dhcpd.conf

ddns-update-style none;
default-lease-time 600;
max-lease-time 7200;
authoritative;

option wpad-url code 252=text;

subnet 192.168.13.0 netmask 255.255.255.0 {
range 192.168.13.2 192.168.13.254;
option routers 192.168.13.1;
option domain-name-servers 8.8.8.8,192.168.13.1;
option broadcast-address 192.168.13.255;

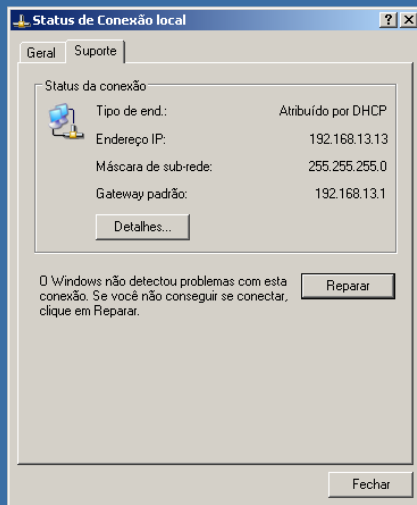
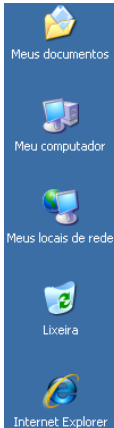
option wpad-url "http://192.168.13.1/wpad.dat\n";
}

[ Wrote 16 lines ]
^G Get Help      ^O WriteOut      ^R Read File     ^Y Prev Page     ^K Cut Text       ^C Cur Pos
^X Exit          ^J Justify       ^W Where Is      ^U Next Page     ^U UnCut Text    ^T To Spell
```

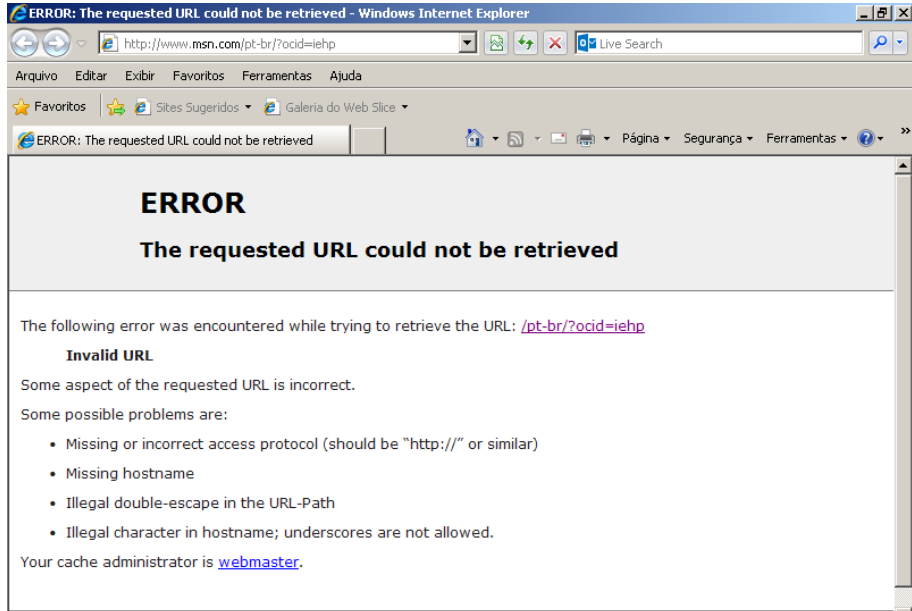
1.1- Configuração do servidor Proxy Transparente

```
root@ubuntu:/# service isc-dhcp-server restart
isc-dhcp-server stop/waiting
isc-dhcp-server start/running, process 1306
root@ubuntu:/#
```

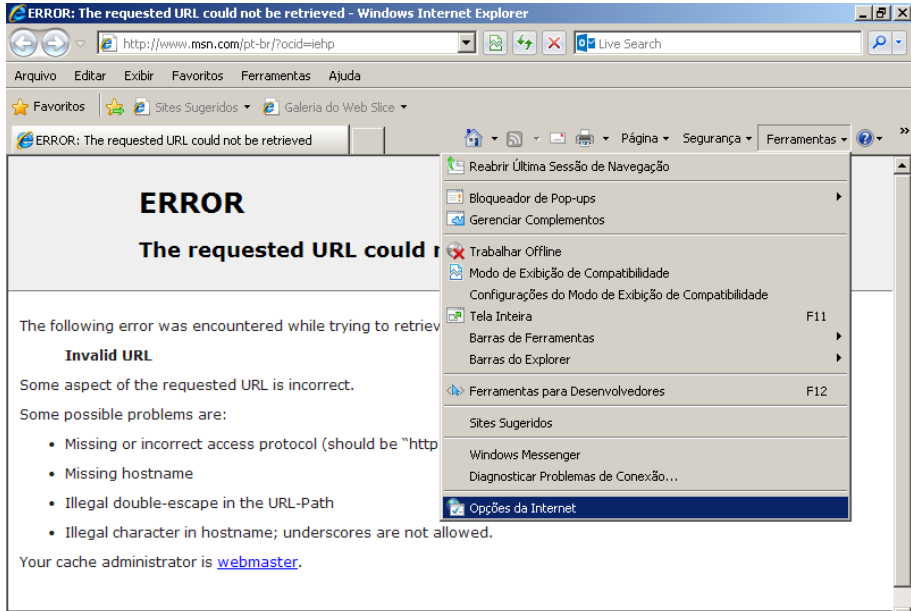
1.2- Teste de funcionamento



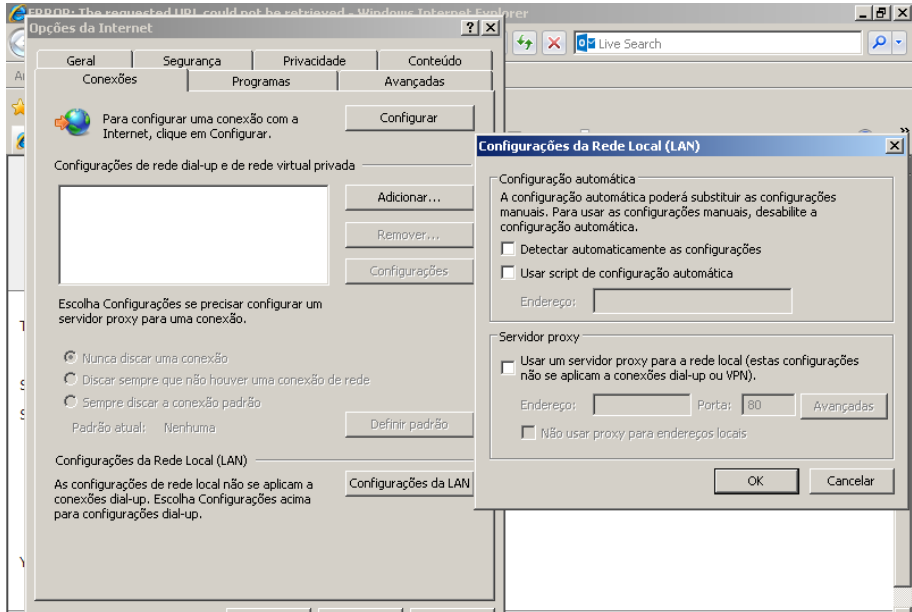
1.2- Teste de funcionamento



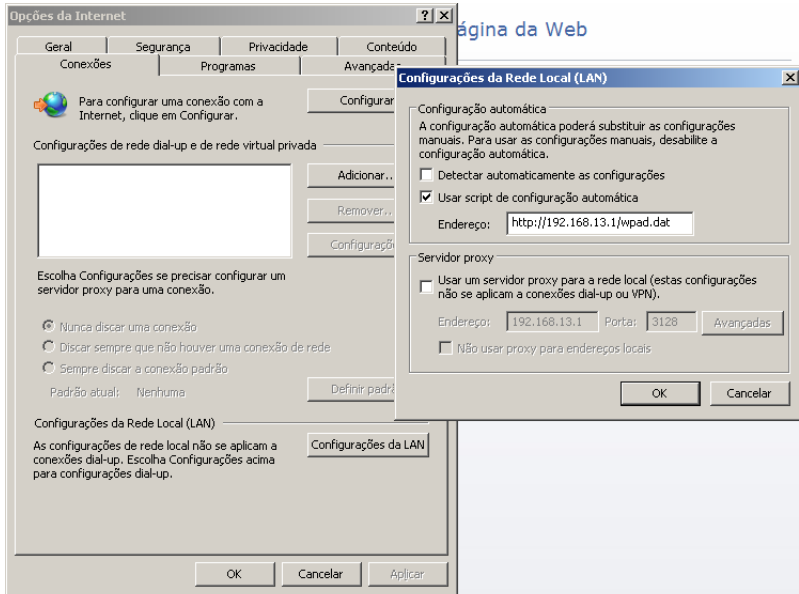
1.2- Teste de funcionamento



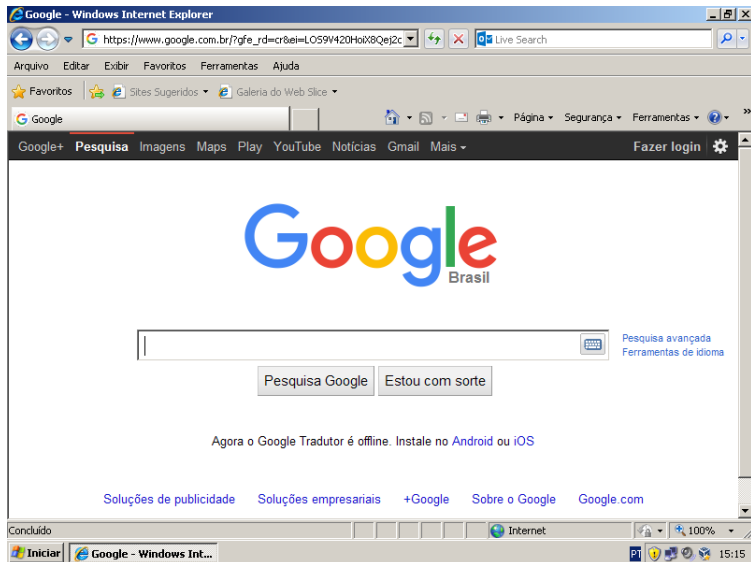
1.2- Teste de funcionamento



1.2- Teste de funcionamento



1.2- Teste de funcionamento



1.3- Configuração do servidor Proxy Transparente

```
root@ubuntu:/# apt-get install bind9_
```

1.3- Configuração do servidor Proxy Transparente

```
root@ubuntu:/# apt-get install bind9
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  bind9-host bind9utils dnsutils libbind9-90 libdns100 libisc95 libisccc90
  libisccfg90 liblwres90
Suggested packages:
  bind9-doc rblcheck
The following NEW packages will be installed:
  bind9 bind9utils
The following packages will be upgraded:
  bind9-host dnsutils libbind9-90 libdns100 libisc95 libisccc90 libisccfg90
  liblwres90
8 upgraded, 2 newly installed, 0 to remove and 85 not upgraded.
Need to get 1,475 kB of archives.
After this operation, 1,636 kB of additional disk space will be used.
Do you want to continue? [Y/n] y_
```

1.3- Configuração do servidor Proxy Transparente

```
root@ubuntu:/# nano /etc/bind/named.conf.local
```



1.3- Configuração do servidor Proxy Transparente

```
GNU nano 2.2.6      File: /etc/bind/named.conf.local

//
// Do any local configuration here
//
// Consider adding the 1918 zones here, if they are not used in your
// organization
//include "/etc/bind/zones.rfc1918";

[ Read 8 lines ]
^G Get Help  ^O WriteOut  ^R Read File  ^Y Prev Page  ^K Cut Text   ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is   ^U Next Page  ^U UnCut Text ^T To Spell
```

1.3- Configuração do servidor Proxy Transparente

```
GNU nano 2.2.6      File: /etc/bind/named.conf.local      Modified
//
// Do any local configuration here
//
// Consider adding the 1918 zones here, if they are not used in your
// organization
//include "/etc/bind/zones.rfc1918";

zone "ewertonromulo.com.br" IN {
type master;
file "/etc/bind/db.ewertonromulo";
};_

^G Get Help  ^O WriteOut  ^R Read File ^Y Prev Page ^K Cut Text  ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is  ^U Next Page ^U UnCut Text ^T To Spell
```

1.3- Configuração do servidor Proxy Transparente

```
root@ubuntu:/# nano /etc/bind/db.ewertonromulo_
```



1.3- Configuração do servidor Proxy Transparente

```
GNU nano 2.2.6      File: /etc/bind/db.ewertonromulo      Modified
@ IN SOA server.ewertonromulo.com.br hostmaster.ewertonromulo.com.br (
2016092645 3H 15M 1W 1D )
NS server.ewertonromulo.com.br.
ewertonromulo.com.br A 192.168.13.1
wpad IN A 192.168.13.1 _

^G Get Help  ^O WriteOut  ^R Read File  ^Y Prev Page  ^K Cut Text   ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is   ^U Next Page  ^U UnCut Text ^T To Spell
```


1.3- Configuração do servidor Proxy Transparente

```
root@ubuntu:/# service bind9 restart
```



1.3- Configuração do servidor Proxy Transparente

```
root@ubuntu:/# service bind9 restart
* Stopping domain name service... bind9
waiting for pid 2033 to die                                [ OK ]
* Starting domain name service... bind9                    [ OK ]
root@ubuntu:/#
```

1.3- Configuração do servidor Proxy Transparente

```
root@ubuntu:/# nano /etc/dhcp/dhcpd.conf
```



1.3- Configuração do servidor Proxy Transparente

```
GNU nano 2.2.6      File: /etc/dhcp/dhcpd.conf

ddns-update-style none;
default-lease-time 600;
max-lease-time 7200;
authoritative;

option wpad-url code 252=text;

subnet 192.168.13.0 netmask 255.255.255.0 {
range 192.168.13.2 192.168.13.254;
option routers 192.168.13.1;
option domain-name-servers 8.8.8.8,192.168.13.1;
option broadcast-address 192.168.13.255;

option wpad-url "http://192.168.13.1/wpad.dat\n";
}

[ Read 16 lines ]
^G Get Help  ^O WriteOut  ^R Read File  ^Y Prev Page  ^K Cut Text   ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is   ^U Next Page  ^U UnCut Text ^T To Spell
```

1.3- Configuração do servidor Proxy Transparente

```
GNU nano 2.2.6      File: /etc/dhcp/dhcpd.conf

ddns-update-style none;
default-lease-time 600;
max-lease-time 7200;
authoritative;
option wpad-url code 252=txt;

ddns-domainname "ewertonromulo.com.br.";
option domain-name "ewertonromulo.com.br.";

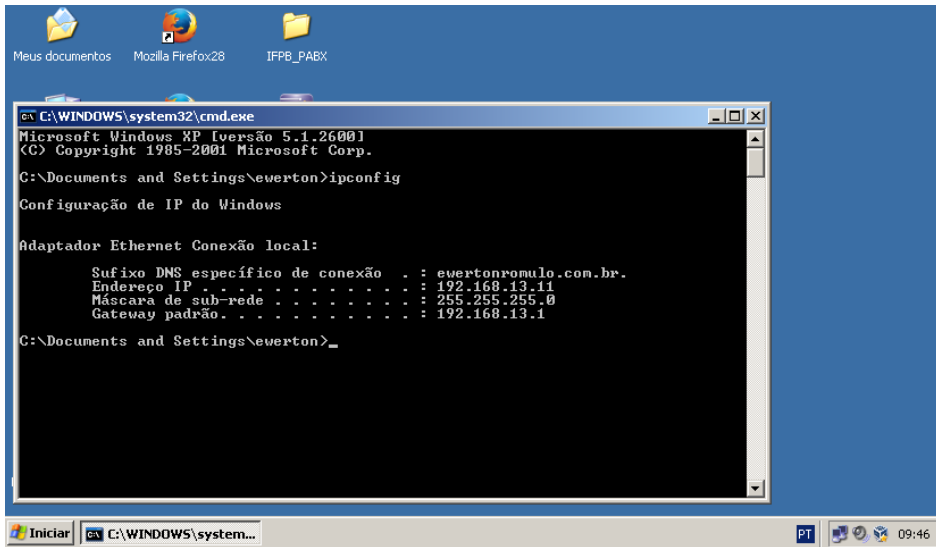
subnet 192.168.13.0 netmask 255.255.255.0 {
range 192.168.13.2 192.168.13.254;
option routers 192.168.13.1;
option domain-name-servers 8.8.8.8,192.168.13.1;
option broadcast-address 192.168.13.255;
option wpad-url "http://192.168.13.1/wpad.dat\n";
}

[ Wrote 18 lines ]
^G Get Help  ^O WriteOut  ^R Read File  ^Y Prev Page  ^K Cut Text   ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is   ^U Next Page  ^U UnCut Text ^T To Spell
```

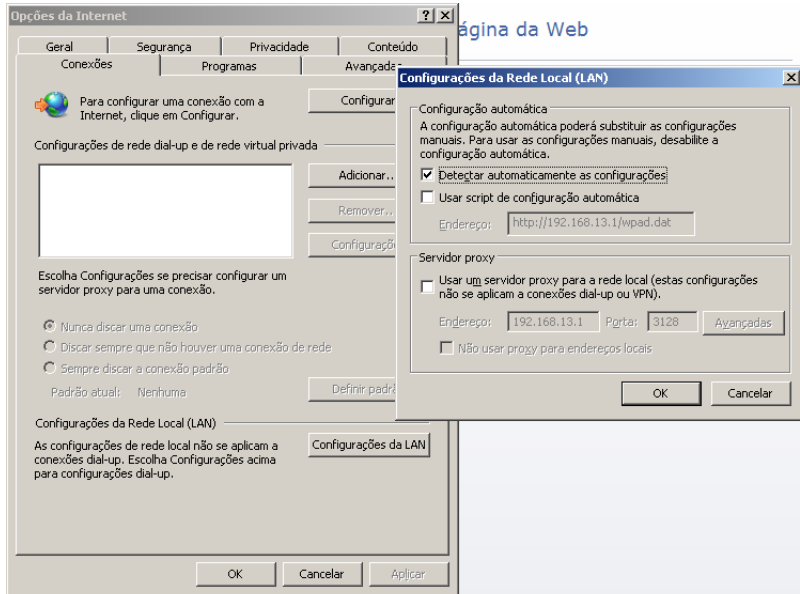
1.3- Configuração do servidor Proxy Transparente

```
root@ubuntu:/# service isc-dhcp-server restart
isc-dhcp-server stop/waiting
isc-dhcp-server start/running, process 2123
root@ubuntu:/# _
```

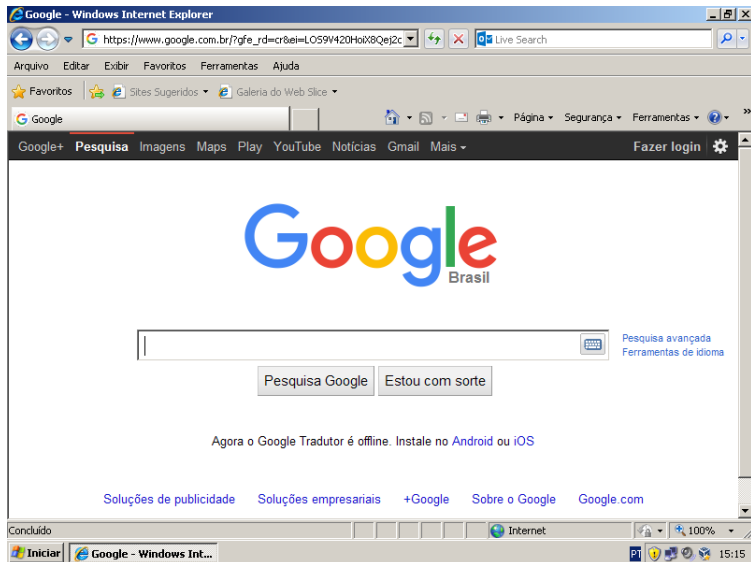
1.3- Configuração do servidor Proxy Transparente



1.4- Teste de funcionamento



1.4- Teste de funcionamento



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