# Serviços de Rede 1 – Lesson 10 - Practices

2019-2020

Instituto Politécnico de Coimbra

Departamento de Engenharia Informática



Exercise 1 - Proxy in Windows environment

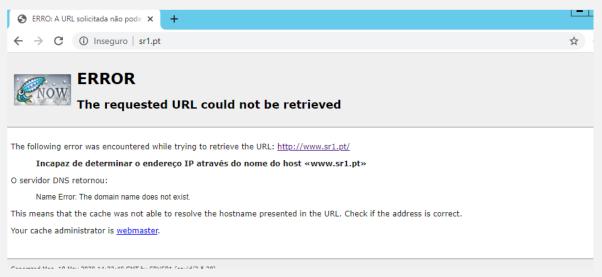
- Your company wants to install a Proxy server ensuring that all customers only access the Internet via this server.
- The topology is as follows:



- Test if your Windows server has access to the Internet.
- Test if your Windows client has access to the Internet.

- Your company wants to install a Proxy server ensuring that all clients only access the Internet via this server.
- Test if your Windows client can access the Internet.
- Download Squid proxy (http://squid.diladele.com/)
- Install Squid on the server.
- Configure the proxy browser in the client browser.
- Test if you still have Internet access.
- Write in the address bar www.sr1.pt. Must give an error ... Who reported this error?

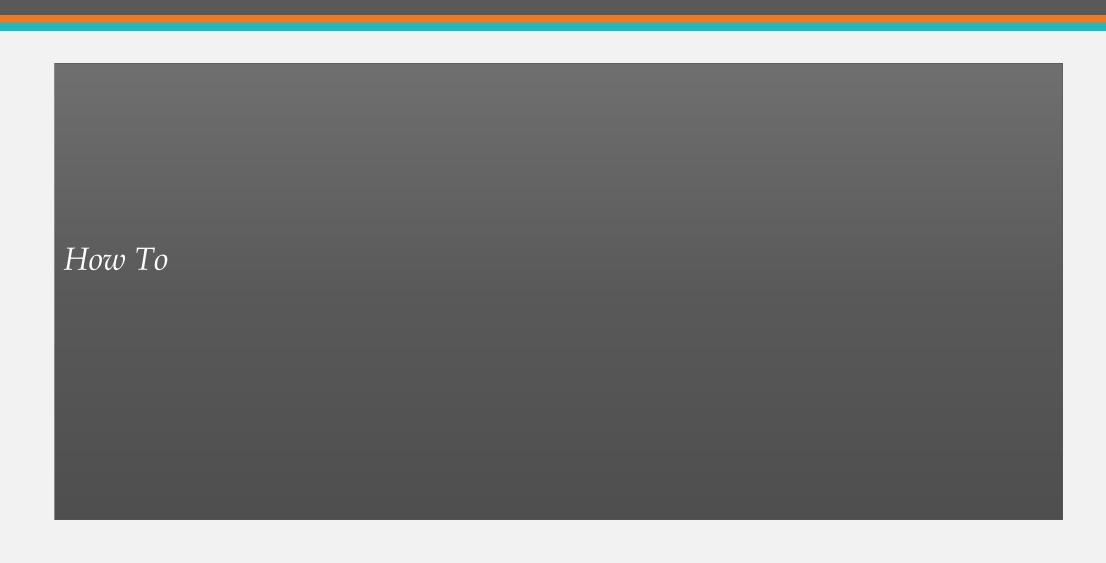
- Download the Squid proxy (http://squid.diladele.com/).
- Install Squid on the server.
- Configure the proxy in the client's browser. This configuration must be by IP.
- Test if you have access to the Internet.
- Type in the address bar www.sr1.pt. It must be an error... Who reported this error?



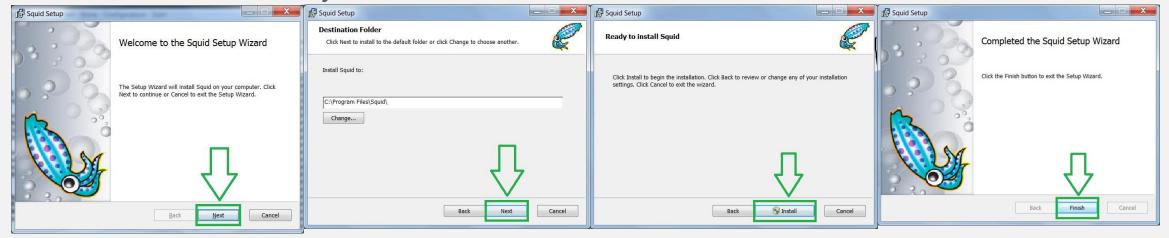
- Register the Proxy server in DNS.
- Change the proxy settings on the client for the control to be done by the name of the server and not by IP.
- Test the client's access to the Internet.
- Configure Squid so that it only accepts calls from your local network.
- Test the client's access to the Internet.
- In the squid configuration, change the port from 3128 to 8080.
- Test the client access to the Internet by not changing the port on the client. You should not have access ...
- Replace port 3128 of the squid. Can you access the Internet?

- Test if you can access the FaceBook.
- Create a new rule called face that blocks access to the FaceBook. Save the squid configuration file. Start the service again and test if the rule is already working. Check that you are still able to access other sites.
- Test that you can access youtube.
- Create a new rule called external that will read to a file (bloq.txt) that is in c: \ squid \ var \ blocked. Using that file, I blocked access to youtube. Test access to that site and verify that the rule is working. Test if you can access the FaceBook. Test if you can access other sites.
- Test if you access the wetransfer and dropbox.
- Using the previous file, I blocked access to these sites. Check that you do not access these sites but that you can access others.
- Configure facebook blocking to be done by the file and not by a specific rule in the squid configuration file.

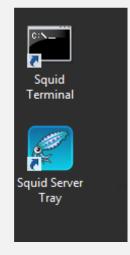
- Test that you can access the Soccer Manager website
- Create a new rule called **words** that will read to a file (bloq1.txt) that is in c: \ squid \ var \ blocked. Using that file, I blocked access to all sites that have the word sex or soccer in their URL.
- Test client access to sites that contain those words and ensure that you can access other sites.



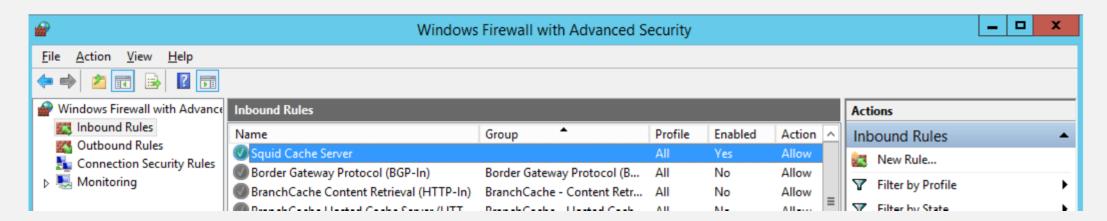
• Installation is easy.

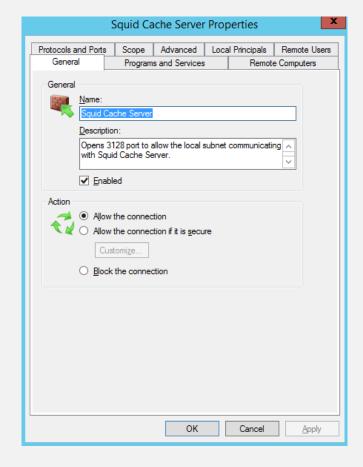


These two icons should appear after installation

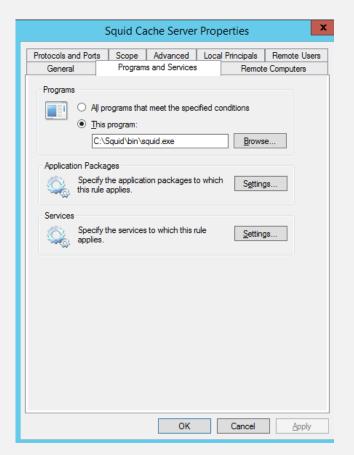


- After installing squid, port 3128 is opened and will be used by customers to connect and use this service.
- If something goes wrong in the installation you will have to create this rule manually.

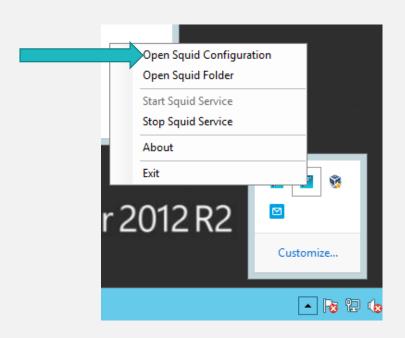


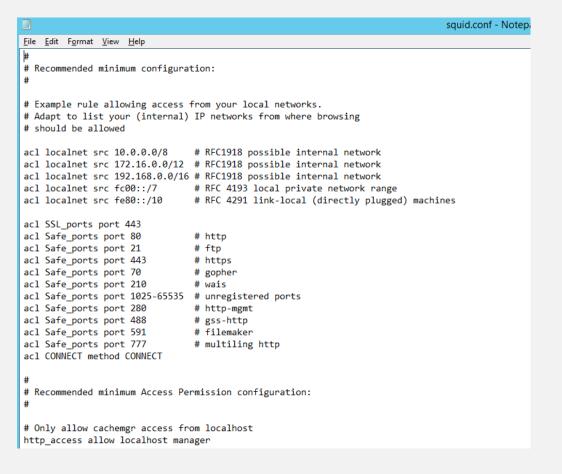






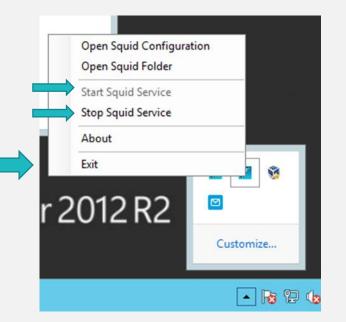
• To configure squid you can go to:



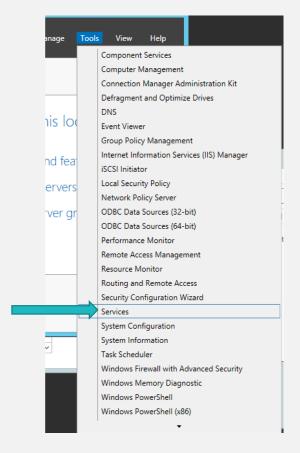


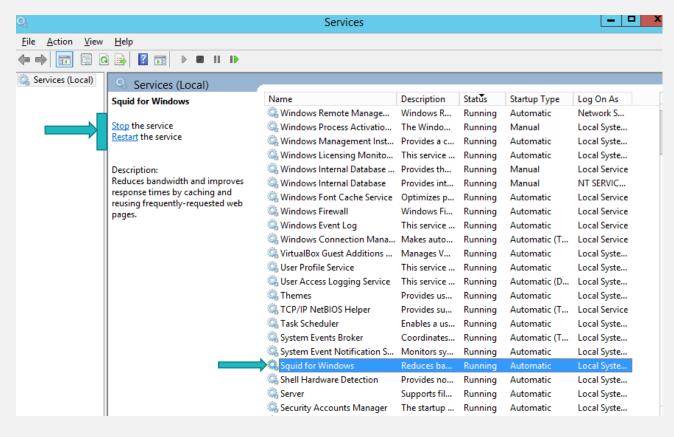


- 1. Edit the configuration file.
- 2. Save the configuration file.
- 3. Stop service
- 4. Start services
- When you want to post any comments you must start the line with

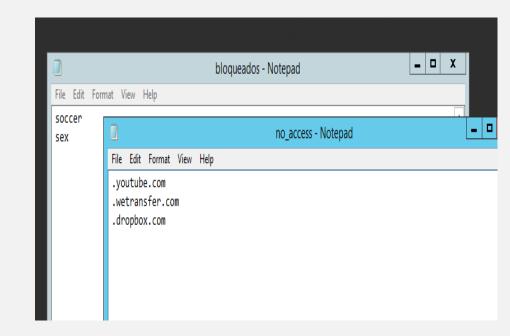


You can also change the "status" of the Squid service at:

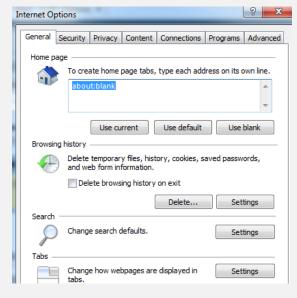




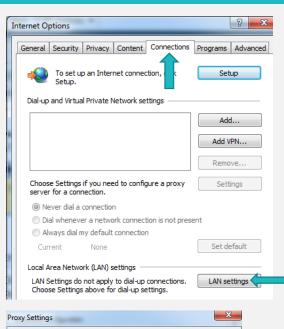
- Block Sites / Domains
  - acl nome\_da\_acl dstdomain"caminho/nome do ficheiro"
  - http\_access deny nome\_da\_acl
- Block words or URL
  - acl nome\_da\_acl url\_regex -i "caminho/nome do ficheiro"
  - http\_access deny nome\_da\_acl

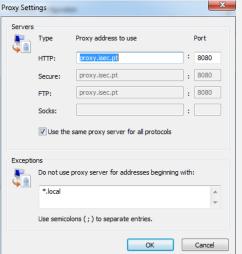


## internet explorer

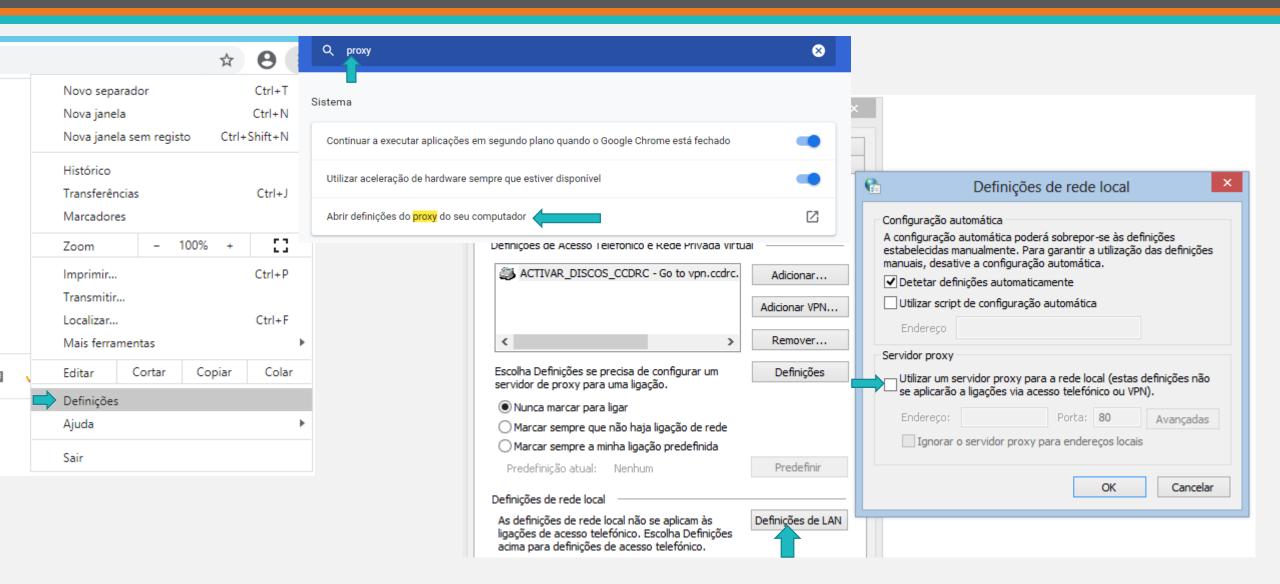








## chrome



Exercise 2 - Proxy in Windows environment - Advanced Functions

- Analyze the Logs file.
- Delete the logs in the file and access the Internet on the client at:
  - www.isec.pt
  - Facebook.com
  - Youtube.com
  - www.cisco.com
- See what happens to the log file and analyze that information.
- Place 1.1.1.1 on the squid as a secondary DNS server. Check that you continue to access the Internet.

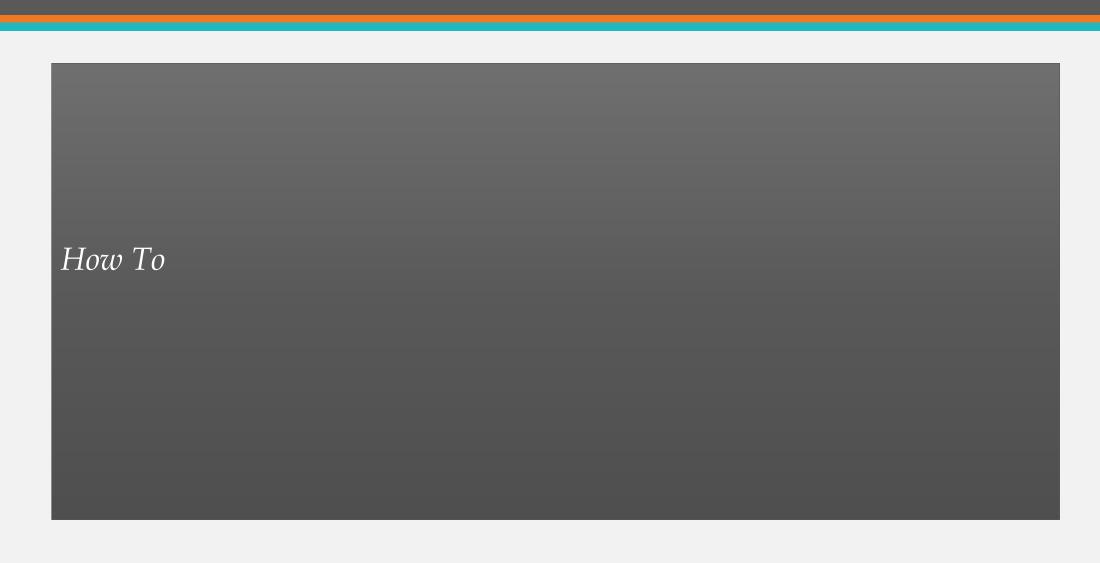
• Put the visible name of the Squid server as SRV\_SR1. Generate an error (for example access to www.sr1.pt) and see if that name appears.

Erro no nome: o nome do domínio não existe.

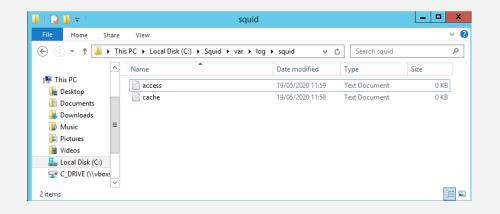
Isso significa que o cache não conseguiu resolver o nome do host apresentado na URL. Verifique se o endereço está correto.

O administrador do cache é webmaster .

Gerado terça-feira, 19 de maio de 2020 13:25:47 GMT por SRV\_SR1 (squid / 3.5.28



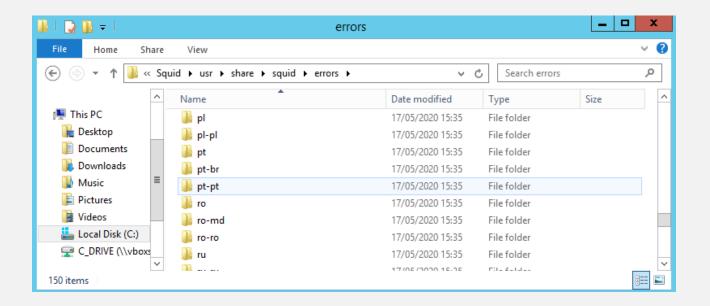
• Squid saves the log file by default:

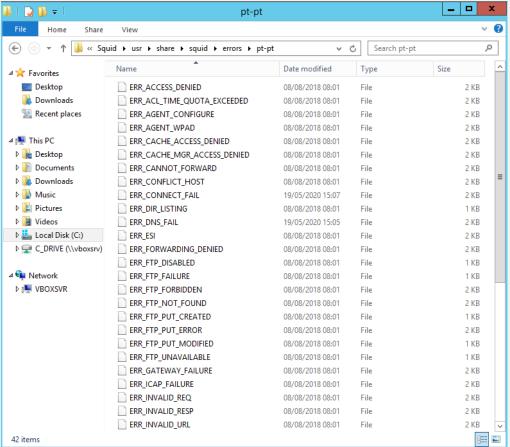




- You can change this location in the configuration file.
- In order to delete the contents of the file, the squid service must be stopped.

• The error pages are at:





## Questions





## Referências

- https://www.youtube.com/watch?v=EM17xhS9G34
- https://www.reaper-x.com/2006/07/18/complete-guide-on-installing-and-configuring-squid-proxy-server-for-windows/
- https://www.thegeekstuff.com/2010/09/squid-control-internet-access/