

ProxyBySsh

To get Web access to the I-MATH intranet webserver it is possible to set up a SOCKS SSH proxy channel. This setting is not persistent, start it when you need it.

The proxy configuration can be done:

- on the OS - *not described here*.
- via commandline - described here for *Google Chrome* and *Opera*.
- inside the browser via GUI - described here for *Firefox*.

SSH Proxy

- Use SSH
 - Linux & Mac OS X: preinstalled.
 - Windows: <https://www.howtogeek.com/336775/how-to-enable-and-use-windows-10s-built-in-ssh-commands/>
- Open a terminal and start the SSH Socks connection (I-MATH password):

```
ssh -C -D 1080 -N -q <I-MATH account>@ssh.math.uzh.ch &
```

* Define an alias to use it as a onliner (kill's stale ssh proxy connections first)

```
alias google-chrome-math='OLD=`ps -ef | grep "ssh -C -D 1080 -N" | grep -v grep | awk "{ print \\$2 }"`; for II in $OLD; do kill $II; done; (ssh -C -D 1080 -N -q ssh.math.uzh.ch & ); google-chrome --proxy-server="socks5://localhost:1080"'
```

Browser

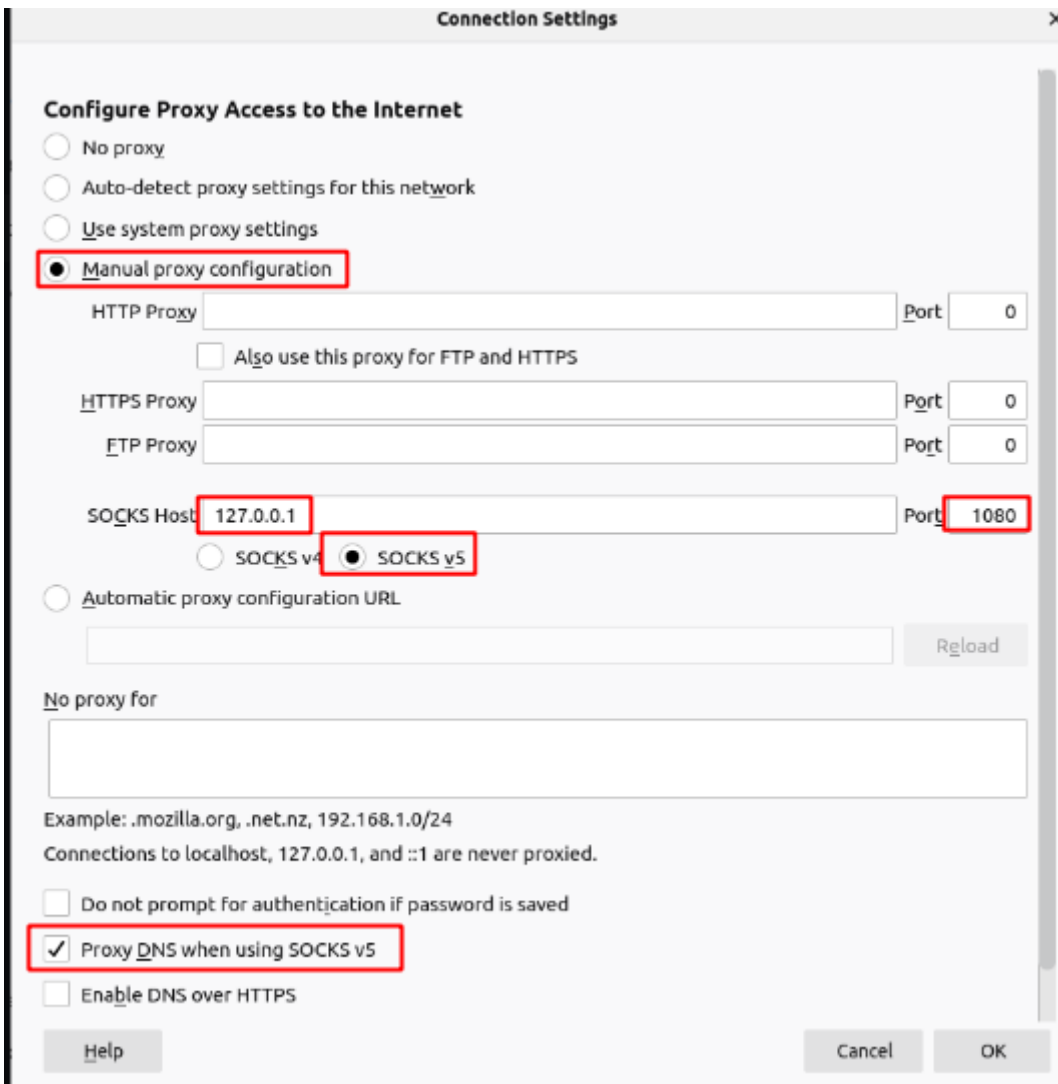
To use the I-MATH internal DNS Server (necessary to get access to hostnames that are only known inside of I-MATH), use the SOCKS5 protocol **incl. DNS forward**.

For Google Chrome or Opera, **open a second terminal** and type the following command.

Browser	Command
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Google Chrome (see also advanced)	Linux: <code>google-chrome --proxy-server="socks5://localhost:1080"</code> Mac OS X: <code>/Applications/Google Chrome.app/Contents/MacOS/Google Chrome --proxy-server="socks5://localhost:1080"</code>
Opera	Linux: <code>opera --proxy-server="socks5://localhost:1080"</code> Mac OS X: <code>/Applications/Opera.app/Contents/MacOS/Opera --proxy-server="socks5://localhost:1080"</code>

- Firefox
 - There is no official option '-proxy-server' for the command line
 - Start firefox, open 'settings', navigate to 'network' > *see screenshot*



FAQ

- Q: Can I configure Google Chrome / Opera via GUI like Firefox
 - A: yes - just check the 'network' settings.
- Q: Why should I start Google Chrome / Opera via command line?

- A: This is a very quick way to use the proxy. If you do not need it, start the browser via mouse.
- Q: Can I automate the steps?
 - A: yes. A small bash script should do the trick:

```
#!/bin/bash
```

```
nohup google-chrome --proxy-server="socks5://localhost:1080" & ssh -C -D 1080 @ssh.math.uzh.ch
```

- Check [SSH Keys](#) to setup password less SSH login.
- Q: in Firefox I don't like to toggle the proxy on/off all the time - is there a better way?
 - A: Create an additional profile 'proxy'. Start Firefox via Terminal `firefox -P`, create the profile, use it and do the proxy config there.

Advanced Setup: Google Chrome Proxy Switch

Install and configure the Google Chrome extension [SwitchyOmega](#) to automatically switch proxy for certain URLs.

Configurations:

SwitchyOmega

SETTINGS

Interface

General

Import/Export

PROFILES

proxy

auto switch

+ New profile...

ACTIONS

Apply changes

Discard changes

Profile :: proxy

Proxy servers

Scheme	Protocol	Server	Port	
(default)	SOCKS5	127.0.0.1	1080	
Show Advanced				

Bypass List

Servers for which you do not want to use any proxy: (One server on each line.)
(Wildcards and more available...)

127.0.0.1
::1
localhost

SwitchyOmega

SETTINGS

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Profile :: auto switch

Switch rules

[Edit source code](#)

Sort	Condition Type	Condition Details	Profile	Actions
↑↓	Host wildcard	wikiit.math.uzh.ch	proxy	
↑↓	Host wildcard	webwork16.math.uzh.ch	proxy	
+ Add condition				
Default			Direct	

Import online rule lists

You can reuse an online collection of conditions published by others by adding a rule list.

[+ Add a rule list](#)

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