

Click Installation

Installation of Click Modular Router

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Requirements

- Unix system: Linux works in userlevel and kernelspace, FreeBSD has a port (only userlevel works)
- A recent GNU C++ compiler ≥ 3.0
- GNU Make
- For user-level Click: x86 or x86_64
- Not sure of the requirements? The `./configure` script will tell you



Download and configure

- Version 2.0.1 is used: `http://www.read.cs.ucla.edu/click/click-2.0.1.tar.gz`
- For bleeding-edge development: `git`
- Untar Click in some directory:
`tar xzf click-\clickversion.tar.gz`
- Configure it, disabling the kernel module and enable your own local elements:

```
cd click-\clickversion
./configure --disable-linuxmodule --enable-local
--enable-etherswitch
```



Make and install

- Make Click (fast), inside the click-2.0.1 directory: `make -j2`
- Click will now run: `userlevel/click conf/test.click`
- Output should be five times
ok: 40 | 45000028 00000000 401177c3 01000001
02000002 13691369
- Do not run make install, every time you change elements you must do a make install, as root!



Calling handlers

Start click

```
click -p <port_nr> <click_script>  
click -p 10000 somescript.click
```

Connect to click with telnet

```
telnet localhost 10000  
quit  
read list // displays all elements
```

See SocketHandler element (automatically added)

```
read <elementname>.<handlername>  
read rt.table  
write <elementname>.<handlername> <values>  
write arptable.insert 00:50:BA:85:84:B1 10.0.1.2
```



Adding own elements

All elements are stored in /elements/ directory

- Yours should be put in elements/local
- Put the .hh and .cc files there

To make those elements available:

```
make elemlist  
make
```

Notice new elements being compiled, solve any compilation problems and use your elements



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