

# **Installation and use of required Tools for Website Fingerprinting**

on Ubuntu 12.04 or Lubuntu 12.10

01/01/12

## 1 Installation on Lubuntu 12.10

First of all install all required packets:

```
sudo apt-get install libpcap-dev tcpdump python-numpy python-torctl  
apparmor-utils make screen openssh-server vino -y
```

Configure your preferences for the remote connection with:

```
vino-preferences
```

Then enable the Remote Connections in the Menu: Preferences -> Desktop Session Settings -> Desktop Sharing

Now tcpdump has to be configured. Type:

```
sudo visudo
```

and append:

```
username ALL=NOPASSWD:/usr/sbin/tcpdump
```

After saving, execute

```
sudo aa-complain /usr/sbin/tcpdump
```

Copy now all the folders from the installation folder to you home folder. Then compile tcpflow:

```
cd bin/tcpflow  
./configure  
make
```

Now uncompress the correct TorBundle version in the bin directory.

To optionally enable the automatic login exchange the contents of the `/etc/lightdm/lightdm.conf` file with the following:

```
[SeatDefaults]  
autologin-user=username  
autologin-user-timeout=0  
greeter-session=lightdm-gtk-greeter  
user-session=Lubuntu
```

## 2 Installation on Ubuntu 12.04

First of all, Ubuntu 12.04 LTS has to be installed. After the installation of the operating system updates can be installed via the Update Manager. The required packets have to be deployed using

```
sudo apt-get install libpcap-dev tcpdump python-numpy python-torctl  
apparmor-utils make screen openssh-server -y
```

Configure your preferences for the remote connection with:

```
vino-preferences
```

Now tcpdump has to be configured. Type:

```
sudo visudo
```

and append:

```
username ALL=NOPASSWD:/usr/sbin/tcpdump
```

After saving, execute

```
sudo aa-complain /usr/sbin/tcpdump
```

Copy now all the folders from the installation folder to you home folder. Then compile tcpflow:

```
cd bin/tcpflow  
./configure  
make
```

Now uncompress the correct TorBundle version in the **bin** directory.

To optionally enable the automatic login the corresponding option can be enabled in the **System Settings**-Menu.