hvw/2016-09-18

resup: Installation instructions for Linux

1. Install the latest Python 2.7 if you don't have it yet:

Ask your system adminstrator to do it.

In case you are your own system adminstrator:

1. Download Python 2.7.12
2. Uncompress and untar:
   ```
   xz -d Python-2.7.12.tar.xz && tar xvf Python-2.7.12.tar
   ```
3. Do the usual thing:
   ```
   cd Python-2.7.12
   ./configure && make
   su
   make install
   ```

2. Install *resup* from GitHub:

1. ```
   pip install --user git+https://github.com/eawag-rdm/resup.git
   ```
2. Add $HOME/.local/bin to your PATH if it is not already there. For bash users that would be:
   ```
   echo "export PATH=\"\${PATH}:\${HOME}/.local/bin\"" >>$HOME/.bashrc
   ```

3. Provide your CKAN API key

1. Point your webbrowser at the Eawag Research Data Platform, log in, and click on your name (top right). In case you are doing this from a machine outside the Eawag network, visit step **5.**
2. Copy your API key (left sidebar, bottom) to the clipboard.
3. Set the environment variable CKAN_APIKEY accordingly. For bash users that would be:
   ```
   echo "CKAN_APIKEY=xxxxxxxxxxxxxxxxxxxxxxxxxxxx" >>$HOME/.bashrc
   ```
   where "xxxxxxxxxxxxxxxxxxxxxxxxxxxx" is the API key.

4. Check the installation

Start a new shell or source your .bashrc: `. ~/.bashrc`

Type: `resup -h`

You should get a help text. Note that `resup` has sub-commands, the help of which can be accessed as, e.g., `resup put -h`

Type: `resup list`

The output should be a list of the packages to which you have write access.
   ```

5. Additional steps to use *resup* from outside the Eawag network, e.g. from servers in the ETH network at GDC.

1. Send me your SSH public key and your username on the machine in question. The public key is a file with extension ".pub" in the directory "~/.ssh/", e.g. "id_rsa.pub". In case you don't have one, create one:
   ```
   ssh-keygen -b 4096
   ```
   and answer all subsequent questions by hitting [Return]. My answer will include the IP-address and port number of a "jumphost".

2. Set 2 environment variables:

   ```
   export EAW_JUMPHOST_IP=the_ip.address.I_sent.you
   export EAW_JUMPHOST_PORT=the_port_number_I_sent_you
   ```

   (also preferably persistently in ~/.bashrc)

3. Before using *resup*, start an SSH dynamic proxy at port 7000:
   ```
   ssh -p $EAW_JUMPHOST_PORT -Nf -D 7000 $EAW_JUMPHOST
   ```

4. Set the environment variable HTTPS_PROXY:
   ```
   export HTTPS_PROXY=socks5://localhost:7000
   ```

You might want to put step 3. and 4. into an alias like so:

```
echo "alias proxy-on=\"ssh -p \$EAW_JUMPHOST_PORT -Nf -D 7000 \$EAW_JUMPHOST_IP && \
export HTTPS_PROXY=socks5://localhost:7000\"" >> ~/.bashrc
```

Note: The above setup also allows you to use the Eawag-RDM webinterface from outside the Ewag network. Simply configure your browser to use a "SOCKS5 proxy" at `localhost:7000`.

Please notify me <harald.vonwaldow@eawag.ch> about problems with these instructions, about any bugs you discover, and about features you would like to see implemeted.
