

Updating nftfw manual installations

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Get current version

If you've installed *nftfw* from a zip or tar file, then revisit the github pages and pull the current version. Unpack and install the files.

If you used *git*, then change to the your *nftfw* source directory and

```
$ git pull
```

which will pull the files that have changed, and will also tell you if you are up-to-date.

If you've run the *nftfw* system tests, *git* will complain about some new files. In the *nftfw* directory:

```
$ cd tests
$ make clean
```

will remove the files created by the tests, and the *pull* should now work.

To use *git* in future:

```
$ sudo apt install git
```

```
..
```

```
# I put my copy in /usr/local/src, and need to be root to install
```

```
$ cd /usr/local/src
```

```
$ sudo git clone https://github.com/pcollinson/nftfw
```

Re-install the *nftfw* Python modules & programs

```
# cd into the installed nftfw directory
```

```
$ sudo pip3 install .
```

```
# will uninstall the old version say
```

```
Successfully installed nftfw-<version>
```

Re-run the *Install.sh* script

Will update files in your *etc/nftfw* directory, but will not touch any working files. The *original* directory may contain changes that are useful to you. You can use *diff* to compare your working versions with files in the *original* directory.

The [Incron] section in the *config.ini* file can be deleted as it's no longer used.

Changes for *nftfw* version 0.8 and onwards

Summary of changes from 0.7 requiring some reconfiguration:

- Edit *config.ini* to remove: [Owner] section - ownership of files created in *etc/nftfw* now taken from owner of that directory *nftfw_base* - *nftfw* now uses it's own control files exclusively.
- *etc/nftfw/original* renamed *etc/nftfw/etc_nftfw*
- Change to *nftfw_init.nft* to include essential ipv6 icmp coding. Change to *rule.d/essential-icmpv6.sh*. Can remove reference to this rule in *incoming.d* and *outgoing.d*.
- Updated regular expressions in *exim4.patterns* - now find IP addresses correctly

- Local action rules should be placed in `/etc/nftfw/local.d`, so that `/rule.d` can be updated by distributions.

Other changes:

- New `import_tool` to import Symbiosis/Sympl configs
- New `Uninstall.sh` to remove manual installation
- Many documentation changes - example files now shown relative to filesystem root - e.g `/etc/nftfw` rather than `/usr/local/etc/nftfw`.

Changes for *nftfw* version 0.7 and onwards

nftfw has gained a new control directory `etc/nftfw/blacknets.d` which allows you to install files of IP address ranges coded as using CIDR notation. The *blacknets* system provides blocking of a large number of IP networks based on lists of addresses. It can be used to keep whole countries out, or stop access from large organisations with complex address ranges. There's a document [Getting CIDR lists](#) explaining how to get the country lists onto your system. There are other sources of bulk blacklists.

To support the new category of blocking there are some changes to `etc/nftfw/nftfw_init.nft` that need to be installed, when updating - remember to run the `Install.sh` script and then copy `etc/nftfw/originals/nftfw_init.nft` to `etc/nftfw/nftfw_init.nft`. If you've made changes to the installed file, you'll need to edit them in again. It's wise then run

```
$ sudo nftfw -f load
```

to ensure that you have a clean installation.

If you've installed the *systemd* based active file system, then you will need to update `/etc/systemd/system/nftfw.path` to include the new *blacknets.d* directory. Copy the `nftfw.path` from the *systemd* directory in the release to `/etc/systemd/system/nftfw.path`, the file contains the five lines that are needed. Then tell *systemd* to reload:

```
# sudo systemctl daemon-reload
```

Changes for *nftfw* version 0.6 and onwards

nftfw no longer recommends the use of *incron* to provide a 'active' directory so changes in directories in `_usr/local/nftfw_` cause automatic running of the `nftfw load` command. A *systemd* unit that watches directories and calls the command replaces *incron*. If you've installed a previous version then you need to unwind parts of the *incron* support system.

Take these steps if you ran versions of *nftfw* before 0.6 and used *incron*. These steps are shown in other files, but it seems sensible to emphasise them here. These can be done before or after you install the new version. The *systemd* can run with version before 0.6, but 0.6 contains some coding changes to make it work a little better.

First, move to the *nftfw* distribution and replace the `cron.d` file

```
$ cd cronfiles
# check that the paths used in cron-nftfw are correct for you
$ sudo cp cron-nftfw /etc/cron.d/nftfw
$ cd ..
```

then stop *incron* from running *nftfw*:

```
$ sudo rm /etc/incron.d/nftfw
```

Install *systemd* control files from *systemd* in the *nftfw* distribution:

```
$ cd systemd
# check nftfw.path and nftfw.service have correct paths
$ sudo cp nftfw.* /etc/systemd/system
$ cd ..
# start the path unit only
$ sudo systemctl enable nftfw.path
```

```
$ sudo systemctl start nftfw.path
$ sudo systemctl status
# DON'T start or enable nftfw.service
# it will be started when needed by nftfw.path
```

Stop incron if it's running and you no longer need it

```
$ sudo systemctl stop incron
$ sudo systemctl disable incron
```

Finally a tip that's hard to find: reload *systemd* if you change the *nftfw* files after installation and starting:

```
$ sudo systemctl daemon-reload
```