

Exploring the LUTF

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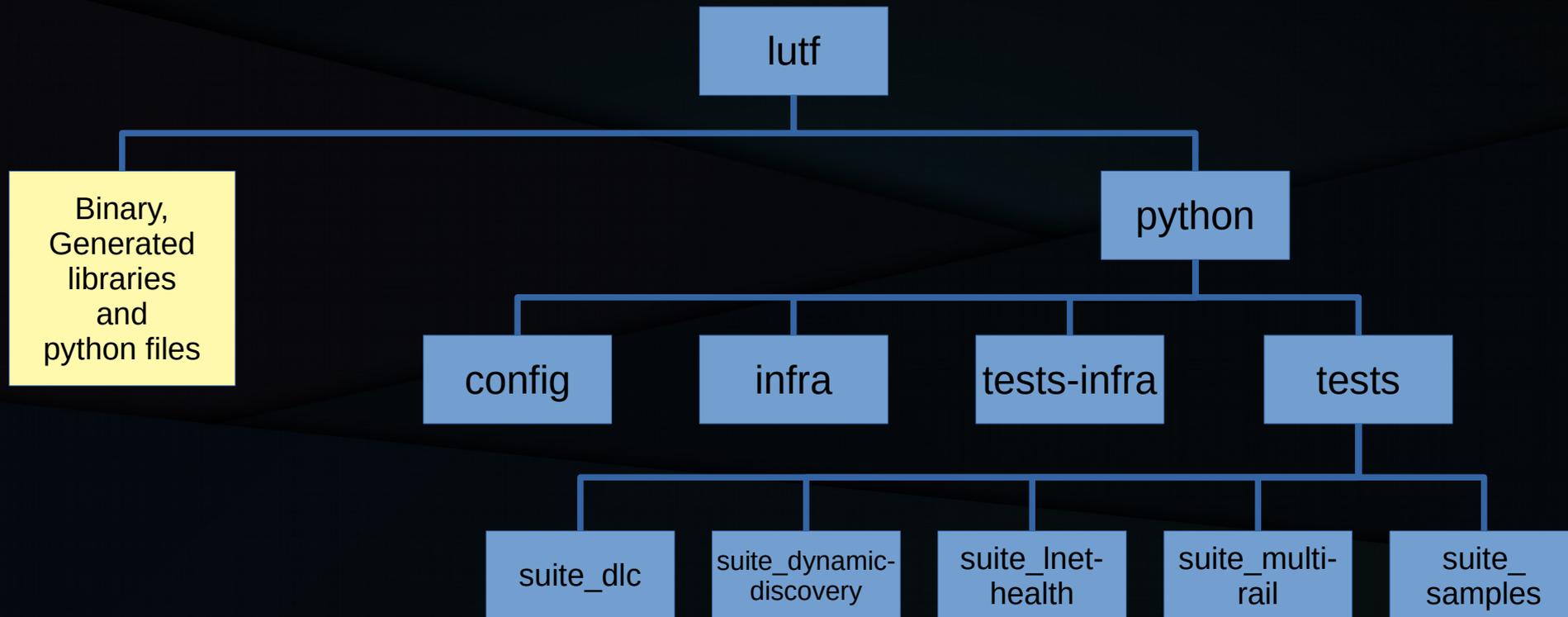
Building & Deploying

- For details on building and deploying goto:
 - <https://wiki.whamcloud.com/x/eoH5Bw>

Location

- `/usr/lib64/lustre/tests/lutf`

Directory Structure



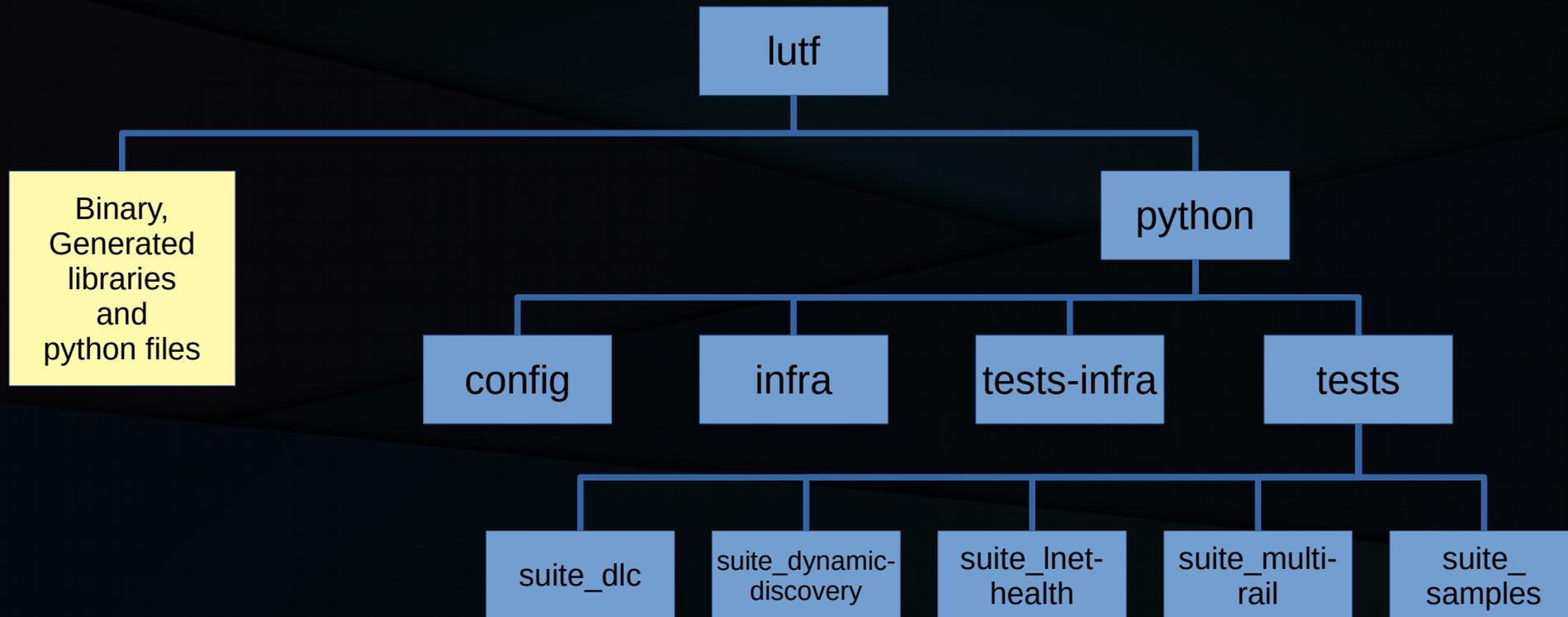
Example C/Python Wrappers

```
-rw-r--r-- 1 root root 14156 Dec 29 14:43 clutf_agent.py
-rwxr-xr-x 1 root root 144240 Dec 29 14:43 _clutf_agent.so
-rw-r--r-- 1 root root 7638 Dec 29 14:43 clutf_global.py
-rwxr-xr-x 1 root root 93392 Dec 29 14:43 _clutf_global.so
drwxr-xr-x 2 root root 20 Dec 24 11:42 documentation
-rwxr-xr-x 1 root root 77488 Dec 29 14:43 liblutf_agent.so
-rwxr-xr-x 1 root root 26752 Dec 29 14:43 liblutf_connect.so
-rwxr-xr-x 1 root root 12792 Dec 29 14:43 liblutf_global.so
-rw-r--r-- 1 root root 128814 Dec 29 14:43 lnetconfig.py
-rwxr-xr-x 1 root root 990352 Dec 29 14:43 _lnetconfig.so
-rwxr-xr-x 1 root root 83888 Dec 29 14:43 lutf
-rw-r--r-- 1 root root 5551 Dec 29 14:44 lutf_out.log
-rw-rw-rw- 1 root root 0 Dec 18 05:45 lutf_py.log
```

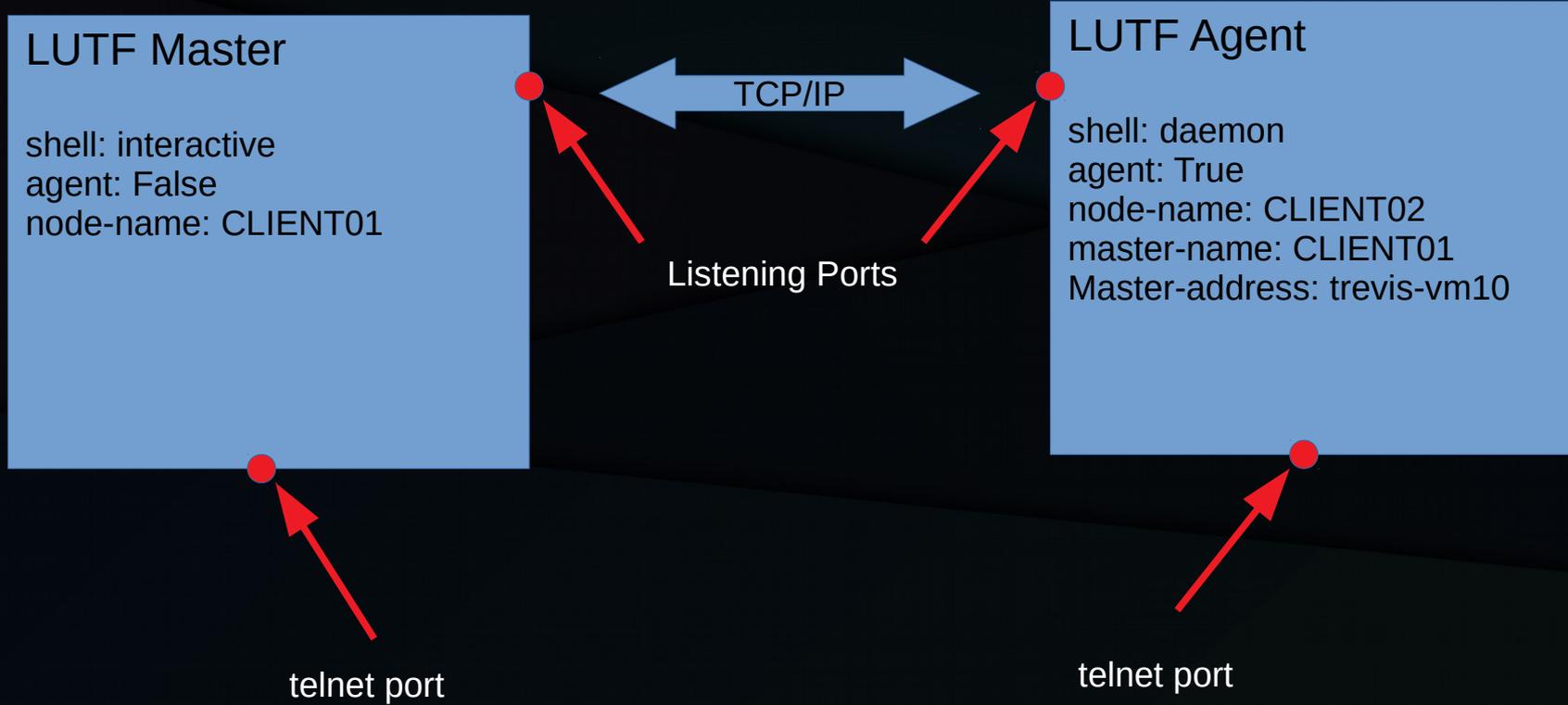
Python Wrapper
(SWIG generated)

Shared library
(built from SWIG
generated files)

Directory Structure



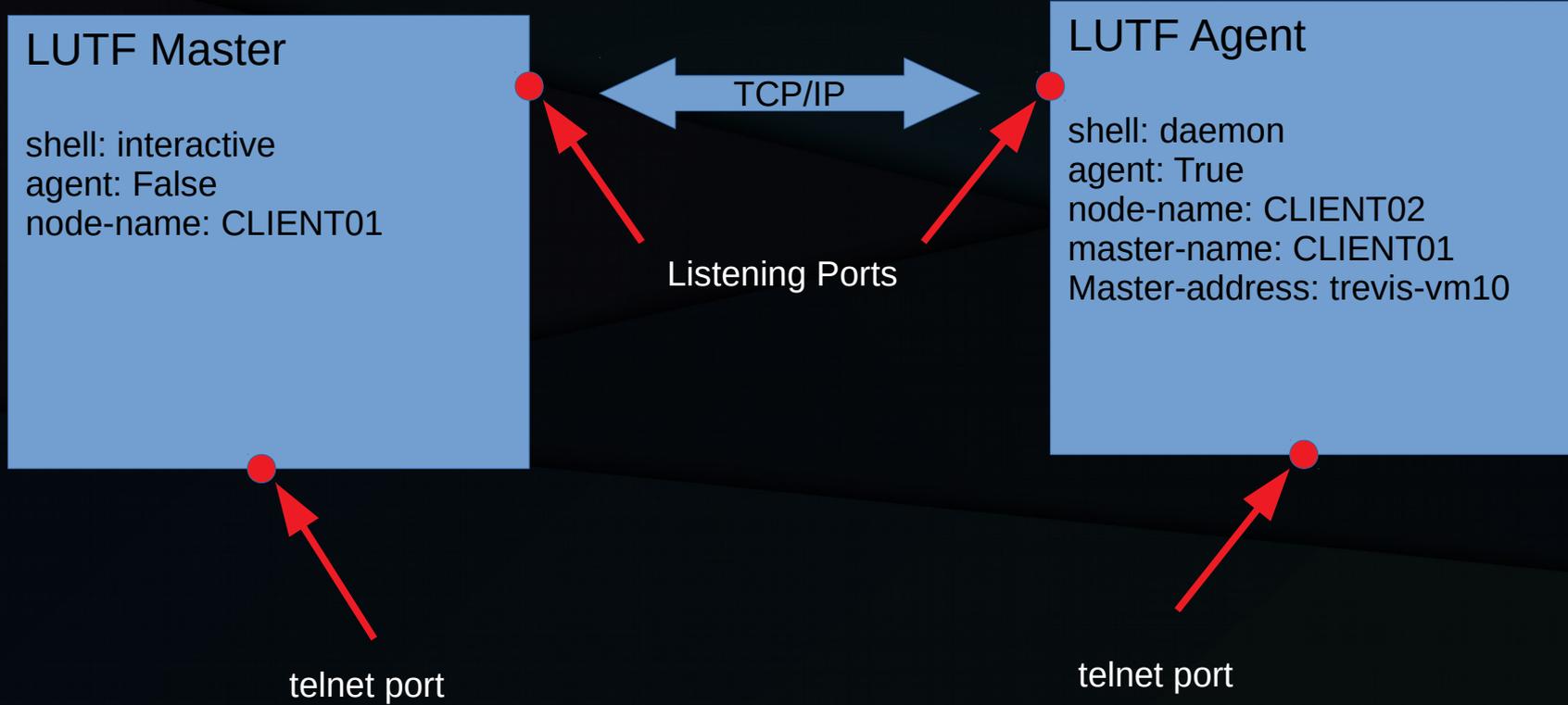
LUTF Diagram



LUTF Run Modes

- Interactive
- Daemon
- Batch

LUTF Diagram



Configuration file

lutf:

```
shell: interactive # [interactive|batch|daemon]
agent: false # [true|false] run as an agent or master
telnet-port: 49304 # a port to telnet to, to access agent
master-address: 192.14.4.3 # IP address of master or hostname
master-port: 43943 # port master is listening on
node-name: ost2_HOST # name to associate with the node.
master-name: mds_HOST # IP address or hostname of master to be given to agents
suite: suite_dlc # suite name to run. If not present all suites are run in batch mode
script: test_dlc_01.py # script name to run in batch mode. Suite name needs to be
                        # specified as well.
lutf-path: /usr/lib64/lustre/tests/lutf/ # path to lutf directory
py-path: "/usr/lib64:/usr/lib64/tests" # ':' separated lists of paths for extra python modules
```

- More Details can be found here: <https://wiki.whamcloud.com/x/oYH5Bw>

Naming Conventions

- Suite directories must start with the literal:
 - ‘suite_’
- Test scripts must start with the literal:
 - ‘test_’