

Demonstration Guide

1. Obtain source code from <https://github.com/tecnico-distsys/T28-ForkExec>;
2. Go to /rst-ws and run the commands: (on different terminals)
 - a. "mvn compile exec:java"
 - b. "mvn compile exec:java -Dws.i=2"
3. Go to /pts-ws and run the commands: (on different terminals)
 - a. "mvn compile exec:java"
 - b. "mvn compile exec:java -Dws.i=2"
 - c. "mvn compile exec:java -Dws.i=3"
 - d. "mvn compile exec:java -Dws.i=4"
 - e. "mvn compile exec:java -Dws.i=5"
4. Go to /hub-ws and run the command "mvn compile exec:java -Dws.nPoints=5"; (on different terminal)
5. Go to /P1_eval/hub-ws-cli_eval and run the command "mvn verify" and, after the first set of tests succeeds, click Enter on one of the pts-ws terminals;
(Note that under ideal circumstances, and even when one server fails, all old tests are succeeding, which guarantees that all functionality was kept intact and the QC model is working)
6. Click Enter on two more of the pts-ws terminals, leaving only two of them running;
7. Go to /P1_eval/hub-ws-cli_eval and run the command "mvn verify" and leave the test running;
(Note that the program enters in infinite cycle because not enough servers are up to form the minimum majority which is 3)
8. Rerun one of the pts-ws that was shut down previously by running the command "mvn compile exec:java -Dws.i=x" where x is the number of a server that was shut down on /pts-ws.
(Note that the tests will leave the infinite loop and start running normally, because there are now enough servers to form the minimum majority of 3)