Clojure

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The Grinder 3.6 and later optionally support <u>Clojure</u> (http://clojure.org/) as an alternative language for test scripts.

1 How to use Clojure

Install Clojure and add the path to the installation's clojure-x.x.x. jar file to the start of the CLASSPATH you use for The Grinder agent processes.

2 Clojure scripting

2.1 Script structure

Clojure scripts must conform to a few conventions in order to work with The Grinder framework.

1. Scripts must return a function that creates test runner functions

When a worker process starts, it runs the test script once. The test script should return a factory function that creates and returns a *test runner function*.

Each worker thread calls the factory function to create a test runner function. Worker threads perform a number of *runs* of the test script, as configured by the property grinder.runs. For each run, the worker thread calls its test runner function; thus the test runner function can be thought of as the definition of a run.

2. The test script can access services through the grinder object

The engine makes an object called <code>grinder</code> available for the script to import. It can also be imported by any modules that the script calls. This is an instance of the Grinder.ScriptContext (.././g3/script-javadoc/net/grinder/script/ Grinder.ScriptContext.html) class and provides access to context information (such as the worker thread ID) and services (such as logging and statistics).

3. The script file name must end in .clj

The file name suffix is used to identify Clojure scripts.

2.2 Canonical test script structure

This is an example of a script that conforms to the rules above. It doesn't do very much every run will log *Hello World* to the output log.

2.3 Recording an HTTP script

You can use the TCPProxy to $\underline{record\ a\ Clojure\ script}$ (../g3/tcpproxy.html#clojure-script) from a browser session.