Spirent iTest Plugin

Plugin Information
View Spirent iTest on the plugin site for more information.

This plugin enables Spirent iTest support in Jenkins.

Spirent iTest is a comprehensive suite creating an Agile enabled platform for agnostic network test automation that validates both virtual and physical environments for network communications, cloud services, mobile networks, IT teams and more. http://www.spirent.com/automation

Note that this plugin does not come with Spirent iTest.

The code for this plugin is publicly available here: itest-plugin

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Wiki page for version 1.1.1: iTest plugin version 1.1.1 change log
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Requirement:

- Windows: iTestRT version 7.0.1 or later.
- Unix: iTestRT version 6.0 or later.

General Tips:

- Always "Save" or "Apply" any changes you make before clicking the validation buttons

- Help text is available for all fields with the ⊙ icon next to it, and contain instructions for correctly entering values for each field (where applicable).
- If you are generating test reports, iTestRT will use "resources.itar" in the "iTestRT/tar" directory for its report transforms. If you wish to customize the report transforms, remove "resources.itar" from the "iTestRT/tar" directory and place your customized "resources.itar" in the "iTest Workspace" directory specified in the job's iTest configuration. This plugin uses the HTML report transform when generating test reports.
- To reference the Jenkins build workspace, use ${WORKSPACE}.
    - See the following sections for examples of usage.

Setting up for first use in the "Configure System" page of Jenkins

- Provide path to iTestRT if necessary (i.e., if it's not in PATH on your system)
    - The "Verify Paths" button will ensure that the path specified point to the executable
- If you leave "Port Number" blank, the default of 27000 will be used
    - The "Test Connection" button will check if a connection to the server can be made
- Click "Test Report Database options…" to expand the optional settings for external databases for test reports
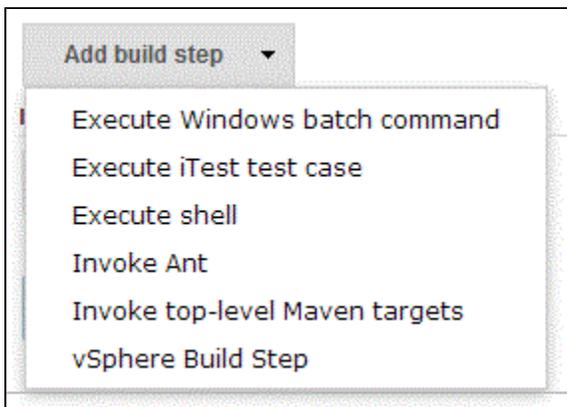

Sending test reports to an external database

- External databases currently supported are MySQL and Postgresql
- You must specify the "User ID" and "Password" fields
- If you choose to specify a URI, you do not need to specify the "Database Name," "Database Type," "Database Host," or "Port" fields.
- The "Test Connection" button will generate a connection URI and will check if a connection to the database can be made

Database Name	test
Database Type	MySQL ▼
User ID	admin
Password	•••••
Database Host	192.168.23.128
Port	3306
URI	

Test Connection

Executing test cases

- In the job configuration page, select "Add build step" and click "Execute iTest test case."

Add build step ▼

Execute Windows batch command

Execute iTest test case

Execute shell

Invoke Ant

Invoke top-level Maven targets

vSphere Build Step

- The following is a basic configuration to execute a single test case. At the very least the "Workspace," "Name of Project," and "Test cases" fields are required
  - "Workspace" can be left blank if the iTest project files have been imported into the Jenkins workspace
  - Check "Generate test report?" to send a test report to the iTest internal database (or external database if you set one up) and render the HTML-formatted report in the Jenkins job build page.

Viewing test reports in Jenkins

- In the job page, click on a build number.

- In the sidebar, click on iTest Report-name-of-testcase.

- Click "Back to project-name" to return to the job page.

Analyzing Build Results

- A build failure results if:
    - A test case fails
    - An error occurs during execution
    - The specified license server/external database is down

Troubleshooting:

- Error messages generated by iTestRT are printed to the "Console Output" of each build
- In order to generate test reports, the default HTML template provided by iTest in the "resources" project is used. The "resources" project included with the iTestRT installation (in the itar directory) will be used, if present. Otherwise, the resources project in the job's workspace directory will be used.
- Consult the iTestRT user guide and Spirent forums for more information about error messages not covered here.

- In case the test report is not rendered as a hyperlink, Jenkins may be enforcing a security policy which could be relaxed. See Configuring Content Security Policy for more information on this topic. In some cases, an additional JAVA ARG can be added to the Jenkins startup. For example, under /etc/defaults/jenkins, the following would be added: JAVA_ARGS="$JAVA_ARGS -Dhudson.model.DirectoryBrowserSupport. CSP="

Change Log

Version 1.0 (September 29, 2014)

- Initial Release

Version 1.1.1 (March 8, 2018)

- Remove iTestCLI dependence

Version 1.1.1 (March 12, 2018)

- Remove documentation related to iTestCLI requirements