

# TAP Plugin

## Plugin Information

View TAP [on the plugin site](#) for more information.



Older versions of this plugin may not be safe to use. Please review the following warnings before using an older version:

- [Path traversal vulnerability](#)

This plug-in adds support to [TAP](#) test result files to Jenkins. It lets you specify an [ant-like pattern](#) for a directory that contains your TAP files. TAP Plug-in depends on [tap4j](#) - a TAP implementation for Java, and on the [JUnit Plug-in](#). You may get errors if the JUnit Plug-in is not active in your Jenkins instance (see [JENKINS-27227](#) for more).

## Overview

The plug-in looks for TAP files like the following one.

```
1..2
ok 1 - Yahoo!
not ok 2 - org.tap4j.Error...
```

When a TAP stream like the above is found, the plug-in delegates the parsing the tap4j. The results of tap4j parsing are then analysed, organized and displayed to the user as graphs and custom pages.



You can test your TAP streams with tap4j, using [InstantTAP](#).

## Understanding TAP streams in 2 minutes

One of the easiest ways to learn something new is by examples. So here we will show some examples of TAP streams. For being human-friendly, it shouldn't confuse you. We will use comments to explain each line.

```
1..2 # a plan stating that we have two tests cases, from 1 to 2.
ok 1 - Yahoo! # the first test result was executed successfully and has a description of ' - Yahoo!'.
not ok 2 - org.tap4j.Error... # unfortunately, the second test result failed. The description here was used to
display some nasty Exception.
```

## Running Perl tests with prove

The plug-in cannot handle prove's default output (since it includes more information than simply TAP, and causes tap4j parser to fail). The best way to handle the prove output is by using Perl module [TAP::Harness::Archive](#). Supposing you have your tests under `t/` directory, you can create another directory (say, `output`) and archive your TAP tests with prove by using a command line similar to the below:

```
prove t/ --archive output
```

The result files will be stored under `output/t/`. You can use a pattern in the plug-in configuration like `t/**/*.t`.

## Using attachments

The following is a TAP with attachments, using YAMLIsh. If you are familiar with YAML, this example should be very easy to read.

```
1..2
ok 1
not ok 2 - br.eti.kinoshita.selenium.TestListVeterinarians#testGoogle
---
  extensions:
    Files:
      my_message.txt:
        File-Title: my_message.txt
        File-Description: Sample message
        File-Size: 31
        File-Name: message.txt
        File-Content: TuNvIGNvbnRhdmFtIGNvbSBtaW5oYSBhc3T6Y2lhIQ==
        File-Type: image/png
    ...
```

The Files entry has an array of files. You have to Base64 encode your content data.

## Subtests (grouping or test suites).

Subtests let you group several TAP streams unto a single one. This way, you can organize your tests in similar fashion to JUnit or TestNG test suites. Indentation is important for TAP subtests.



Subtests and YAMLish are not officially in TAP 13 specification

```
1..3
ok 1 - First test
  1..2
  ok 1 - This is a subtest
  ok 2 - So is this
    1..2
    ok 1 - This is a subtest
    ok 2 - So is this
ok 2 - An example subtest
ok 3 - Third test
```

## Configuration

1. Install the Jenkins TAP Plug-in using the Plug-in Manager or manually by copying the .hpi (or .jpi) file
2. Check the option to publish TAP, configure a pattern (and other settings)
3. Execute your build and analyze the results

## Screenshots

### Jenkins JUnit compatible reports and graphs

sample-tap [Jenkins] - Mozilla Firefox

sample-tap [Jenkins]

http://localhost:8080/job/sample-tap/

# Jenkins

Jenkins > sample-tap

ENABLE AUTO REFRESH

[Back to Dashboard](#)

[Status](#)

[Changes](#)

[Workspace](#)

[Build Now](#)

[Delete Project](#)

[Configure](#)

[TAP](#)

## Project sample-tap

[add description](#)

[Disable Project](#)

[Workspace](#)

[Recent Changes](#)

Build	Failed	Passed	Skipped
#4	1	1	0
#5	2	1	0
#6	4	2	0
#7	4	1	0
#8	4	2	2
#9	2	2	0
#10	2	2	2
#11	4	2	2

### Build History (trend)

- #11 Jul 24, 2011 11:30:13 PM
- #10 Jul 24, 2011 11:29:42 PM
- #9 Jul 24, 2011 11:05:46 PM
- #8 Jul 24, 2011 10:01:21 PM
- #7 Jul 24, 2011 9:58:59 PM
- #6 Jul 24, 2011 8:28:10 PM
- #5 Jul 24, 2011 9:04:50 AM
- #4 Jul 17, 2011 3:38:58 PM
- #3 Jul 17, 2011 3:35:31 PM
- #2 Jul 17, 2011 3:34:13 PM

### Permalinks

- Last build (#11), 1 day 22 hr ago
- Last stable build (#11), 1 day 22 hr ago
- Last successful build (#11), 1 day 22 hr ago

### Custom actions for TAP too

sample-tap #10 [Jenkins] - Mozilla Firefox

sample-tap #10 [Jenkins]

http://localhost:8080/job/sample-tap/10/

# Jenkins

Jenkins > sample-tap > #10

ENABLE AUTO REFRESH

[Back to Project](#)

[Status](#)

[Changes](#)

[Console Output](#)

[Configure](#)

[TAP](#)

[Previous Build](#)

[Next Build](#)

Logger Console [Expand](#)

## Build #10 (Jul 24, 2011 11:29:42 PM)

[Delete this build](#)

Started 1 day 22 hr ago  
Took [1.9 sec](#)

[add description](#)

No changes.

Started by user [anonymous](#)

This build contains 2 TAP test sets. Click [here](#) for details.

Page generated: Jul 26, 2011 10:00:26 PM [Jenkins ver. 1.399](#)

### YAMLish support

Jenkins - Mozilla Firefox

http://localhost:8080/job/sample-tap/10/tapResults/

## Jenkins

Jenkins > sample-tap > #10

- Back to Project
- Status
- Changes
- Console Output
- Configure
- TAP
- Previous Build
- Next Build

Logger Console

### TAP Test Results

2 files 6 tests, 2 ok, 2 not ok, 2 skipped.

File: /mnt/windows/dev/java/hudson\_workspace/tap-plugin/work/jobs/sample-tap/workspace/k1\_0516516.tap

Number	Description	Directive
1	No comments	
2		#SKIP error in database setup
message		
address Rua Joaquim Afonso, 111		
jobs		
first Architect		
last System Analyst		

File: /mnt/windows/dev/java/hudson\_workspace/tap-plugin/work/jobs/sample-tap/workspace/work\_load\_test.tap

Number	Description	Directive
1		#SKIP it never works
2	- Hey mama, it works!	
3		#TODO rewrite this test
4		
message Error reading input file		
throwable org.tap4j.Exception...		

## Languages Supported

1. English (American)
2. Portuguese (Brazil) Work in Progress
3. Spanish (Thanks to [César Fernandes do Almeida](#)) Work in Progress

## Known Limitations

1. If the file type of a TAP report is considered as binary by the Jenkins webserver then the TAP plugin doesn't consider this file for inclusion in TAP reports (see [#15813](#) for further details). To make sure your TAP report is considered for inclusion use e.g. the file name suffix .tap (so instead of a file named "report" use "report.tap").

## Compatibility Matrix



This plug-in is not developed for Hudson, and we don't fix bugs happening in any version of Hudson.

Plugin	1.0	1.1	1.2.x	1.3-1.9	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18+
TAP	13	13	13	13	13	13	13	13	13	13	13	13	13
Jenkins	1.399+	1.399+	1.399+	1.399+	1.488+	1.488+	1.488+	1.488+	1.488+	1.488+	1.488+	1.488+	1.488+
Hudson	?	?	?	Not supported									

## Open Issues

type key summary assignee reporter priority status resolution created updated due

⚠ Can't show details. Ask your admin to whitelist this Jira URL.

[View these issues in Jira](#)

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## Resources

1. This plug-in is going to be part of "Make your tests speak TAP" presentation in [JCertif](#) by [Bruno P. Kinoshita](#), in September 2011. In this presentation will be presented too the tap4j project, how to enable TAP in JUnit and TestNG, integrate [Perl](#) and [Java](#) tests and an [Eclipse TAP editor](#).
2. Gábor Szabó (2009), Test Reporting system: Smolder wish-list <<http://szabgab.com/blog/2009/07/test-reporting-system-smolder-wish-list.html>>.
3. Gábor Szabó (2009), Reporting Test Results <<http://szabgab.com/blog/2009/04/reporting-test-results.html>>
4. [tap4j](#) - The TAP implementation for Java.
5. [Test Anything Protocol](#) (official webpage).
6. [Performance tests with phantomjs and yslow](#) (uses the plug-in for plotting the TAP results)
7. [TAP Plugin for Matlab](#)

### JCertif 2011

[JCertif](#) - Make your tests speak TAP - Speaker: [Bruno P. Kinoshita](#)  
September, 2011 - Brazzaville, Congo



## Release Notes

### 2.3 (2019-06-05)

1. [tap4j dependency upgraded to 4.4.2 version](#)
2. [enabled parsing of TAP documents with corrupted YAML content](#)
  - a. New option in advanced, to remove corrupted YAML elements (should work after upgrading the plug-in, but remember to back up first anyway!)

### 2.2.2 (2019-02-14)

1.  [JENKINS-55787](#) - Switch labels from entry to checkbox OPEN

### 2.2.1 (2018-02-07)

1.  [JENKINS-48925](#) - TAP plugin is not compatible with JEP-200 in Jenkins 2.102 RESOLVED

### 2.2 (2018-01-26)

1.  [JENKINS-48925](#) - TAP plugin is not compatible with JEP-200 in Jenkins 2.102 RESOLVED

### 2.1 (2017-02-28)

1. [JENKINS-22250](#): "fail the build if no test results are present" option doesn't fail the job
2. [JENKINS-21456](#): Plugin runs despite earlier errors
3. Upgraded tap4j dependency from 4.2.0 to 4.2.1 (latest)

## 2.0 (2016-08-20)

1. [JENKINS-29649](#): don't overwrite existing junit-results
2. [JENKINS-34000](#): Workflow/Pipeline Support for TAP Plugin
3. [JENKINS-33779](#): TAP plugin: enable detailed output for TAP with subtests

## 1.25 (2016-06-21)

1. [JENKINS-23851](#): Expand env vars in the ant pattern field
2. [JENKINS-17804](#): Add option to show only failures
3. [JENKINS-29650](#): Don't use a build step synchronization, defaulting to NONE.
4. [JENKINS-30751](#): Use same logic everywhere to say whether a test is a failure or not
5. [JENKINS-24843](#): Copy duration from Tabulated Tests
6. pull request #6: fix duration\_ms (thanks to @forrest79)
7. [JENKINS-22016](#) via pull request #10: Expand env vars in the ant pattern field (thanks to @evandy0)
8. [SECURITY-85](#): [tap] Can read all files on file system

## 1.24 (2015-10-01)

1. [JENKINS-19471](#): TAP parser does not conform to InstantTAP website
2. [JENKINS-24505](#): Tests are not marked as skipped with TAP plugin
3. [JENKINS-19676](#): TAP test description does not get escaped
4. [JENKINS-27227](#): TAP plugin fails to load with java.lang.NoClassDefFoundError: hudson/tasks/test/AbstractTestResultAction
5. [JENKINS-29153](#): tap plugin fails job when not have to

## 1.23 (2015-05-23)

1. [JENKINS-28508](#): Broken link on Tap Results

## 1.22 (2015-03-07)

1. Pull request #8 to add LICENSE.txt

## 1.21

1. **Dropped**

## Version 1.20

1. [JENKINS-22047](#): Add option to reduce noise in logs

## Version 1.18

1. Updated to tap4j-4.0.8
2. [JENKINS-22047](#): Add option to reduce noise in logs
3. [JENKINS-22036](#): NullPointerException when there is no Test Plan
4. [JENKINS-17960](#): Indicate if tests don't go to plan
5. [JENKINS-21917](#): TAP results graph causes null pointer exception
6. <https://github.com/jenkinsci/tap-plugin/pull/4>

## Version 1.17

1. [JENKINS-22047](#): Add option to reduce noise in logs
2. [JENKINS-22036](#): NullPointerException when there is no Test Plan
3. [JENKINS-17960](#): Indicate if tests don't go to plan
4. [JENKINS-21917](#): TAP results graph causes null pointer exception
5. Pull request #4

## Version 1.17

1. [JENKINS-20924](#): Make plans optional in TAP via a configuration

## Version 1.16

1. Updated to tap4j-4.0.5 (better subtests handling)

## Version 1.15

1. [JENKINS-16325](#): TAP Parser can't handle the output from prove

## Version 1.14

1. Security bug reported by Kees J. via e-mail. This issue is related to exposing files that the user running Jenkins has access via the plug-in.

## Version 1.13

1. [JENKINS-17960](#): Indicate if tests don't go to plan

## Version 1.12

1. [JENKINS-18885](#): Parse errors with Git's TAP test suite, part 2
2. [JENKINS-17878](#): HTML test output in tapResults not escaped
3. [JENKINS-17855](#): TAP Stream results summary page contains links that fail
4. [JENKINS-17504](#): TAP Plugin generates bad detail links on "tapTestReport" page

## Version 1.11

1. [JENKINS-17859](#): TAP report table show failed test message on ALL tests after the failed one.
2. [JENKINS-17855](#): TAP Stream results summary page contains links that fail
3. [JENKINS-17941](#): Parse errors with Git's TAP test suite
4. [JENKINS-17947](#): Nested TAP not parsed correctly
5. [JENKINS-17504](#): TAP Plugin generates bad detail links on "tapTestReport" page

## Version 1.10

1. [JENKINS-17245](#): Tap plug-in can't find TAP attachments

## Version 1.9

1. [JENKINS-16262](#): Tap plug-in can't find TAP attachments

## Version 1.8

1. [JENKINS-15914](#): TAP results table misses first comment line
2. [JENKINS-15322](#): NOTESTS in TAP response gives parse error and stack trace from plugin
3. [JENKINS-15401](#): support TODO directive to not fail such tests
4. [JENKINS-15907](#): When multiple TAP files with same basename match pattern, only one is processed

## Version 1.7

1. [JENKINS-15586](#): TAP plug-in is ignoring given file extension and looking for .tap files

## Version 1.6

1. [JENKINS-15419](#): TAP published results hide JUnit published results
2. [JENKINS-15497](#): Display link to download TAP attachment

## Version 1.2.7

1. Removed requirement to have the TAP Plan at start or at the end of the TAP Stream. This way, TAP Streams generated using Perl `done_testing()` now works well with the plug-in

## Version 1.2.6

1. Support JSON within YAMLish data

## Version 1.1

1. Support to Bail out!'s
2. [JENKINS-10562](#) TAP Plugin fails on slave

## Version 1.0

1. Initial design of the plug-in
2. Custom UI for TAP test results
3. JUnit-like graph that displays the test results per build (actually the graph was modeled using TestNG Plug-in as basis)

## Roadmap (wish list)

### Version 1.x

1. Add configurations like validate number of tests with test plan, ~~a TODO causes a test to fail~~
2. ~~Diagnostic image gallery~~ Done! Fixed as a [new plug-in](#)

3. Diagnostics exception code formatting
4. ~~Add a link to open the file in the Build workspace (think about remote and local issues)~~ Done!

## History

The idea of the plug-in surged after tap4j was created. After learning about Smolder, it became evident that Jenkins could be used as a replacement for it. All that was needed was just adding TAP support to Jenkins and implementing a nice UI to display the test results. After some messages in jenkins-dev-list, Max and Nick commented about their need to show test results in a different manner than how Jenkins was doing at that moment. Soon after that Max, Nick, Bruno (tap4j) and Cesar (tap4j) started to work together, exchanging mail messages and discussing about a initial design for this plug-in.

In July 2011 the first version of the plug-in was ready to be released. The graph code used here was adapted from TestNG Plugin (big thanks to the development team, great work). The diagnostic (YAMLish) was implemented in Jelly + Java + CSS. And the road map was incremented based on what Gábor Szabó posted about Smolder and testing reports in his blog (see resources for links).

## Simulating TAP streams with shell build steps

```
#!/bin/bash

for x in {1..100}; do

cat > $x.tap <<EOF
ok 1
not ok 2
ok 3 # SKIP
not ok 4
ok 5
ok 6
ok 7
EOF

done ;
```