

AutomaturePlugin

Plugin Information

No information for the plugin 'automature-reporter' is available. It may have been removed from distribution.

Adds the ability to connect to Zermatt server and upload test execution results from a xunit formatted XML results file.

Description

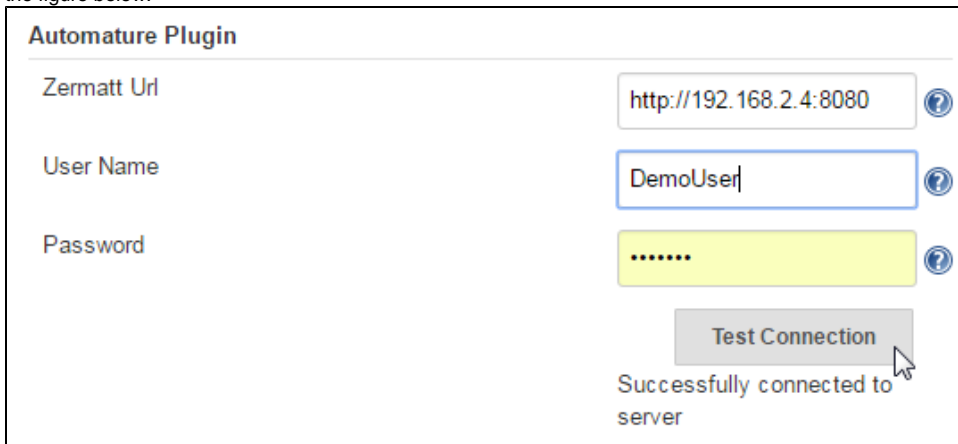
This Plugin provides the ability to connect to Zermatt server and upload test execution results from a xunit formatted XML results file.

Installation

- Navigate to [Manage Jenkins](#) > [Manage Plugins](#)
- Click Advanced tab
- Upload automature-reporter.hpi file

Set Up

- Navigate to [Manage Jenkins](#) > [Configure System](#) > [Automature Plugin](#)
- **Zermatt URL**
 - Provide address of Zermatt server. If Zermatt is running at <http://zermatt.automature.com> and port 8080 then the url should be zermatt.automature.com:8080
- **User Name**
 - Provide your Zermatt Username
 - The user must exist in Zermatt
- **Password**
 - Provide your Zermatt Password
- **Test Connection**
 - Click on Test Connection to verify if the connection is established. On successful connection, the following message will be shown. See the figure below.



Automature Plugin

Zermatt Url ?

User Name ?

Password ?

Successfully connected to server

Create Job

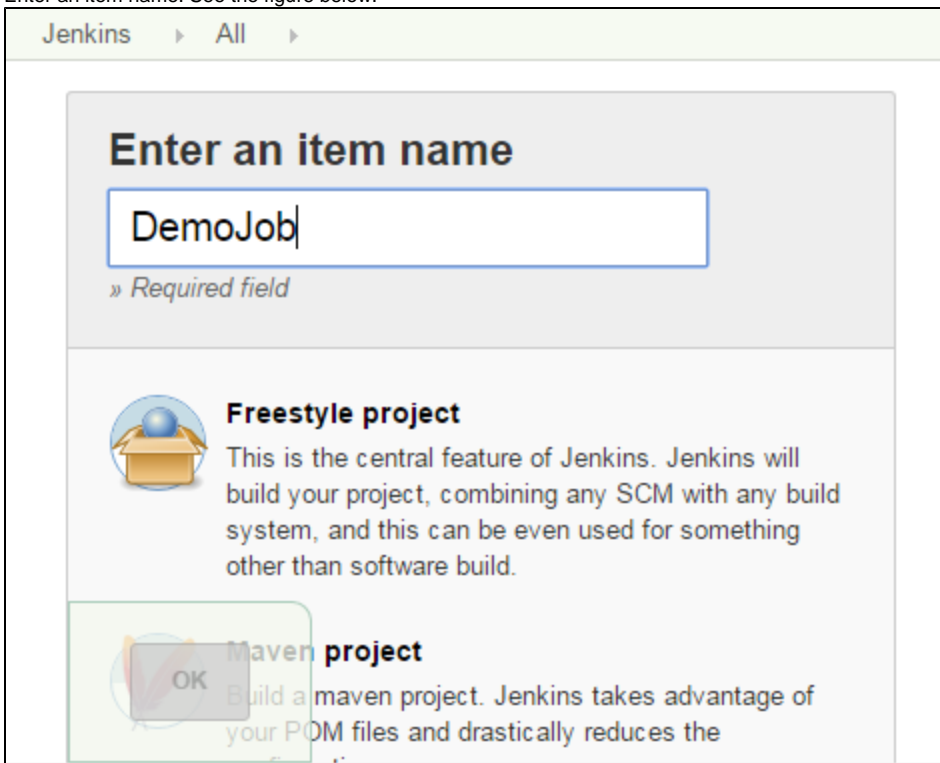
After successfully connecting to Zermatt server, create a job and configure Automature Jenkins Plugin for reporting.

Steps Involved:

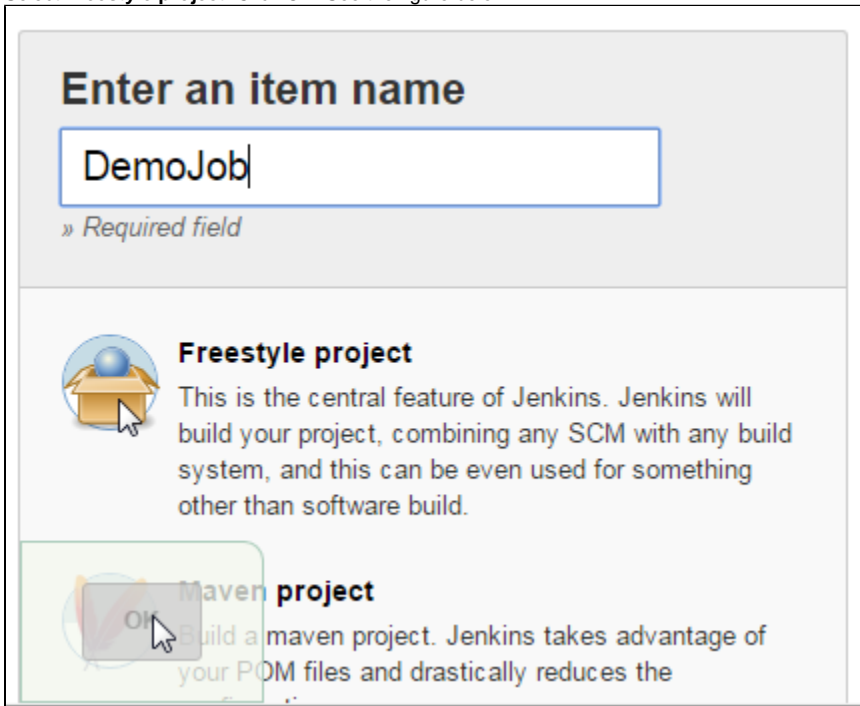
- Click on **New Item**. See the figure below.



- Enter an item name. See the figure below.

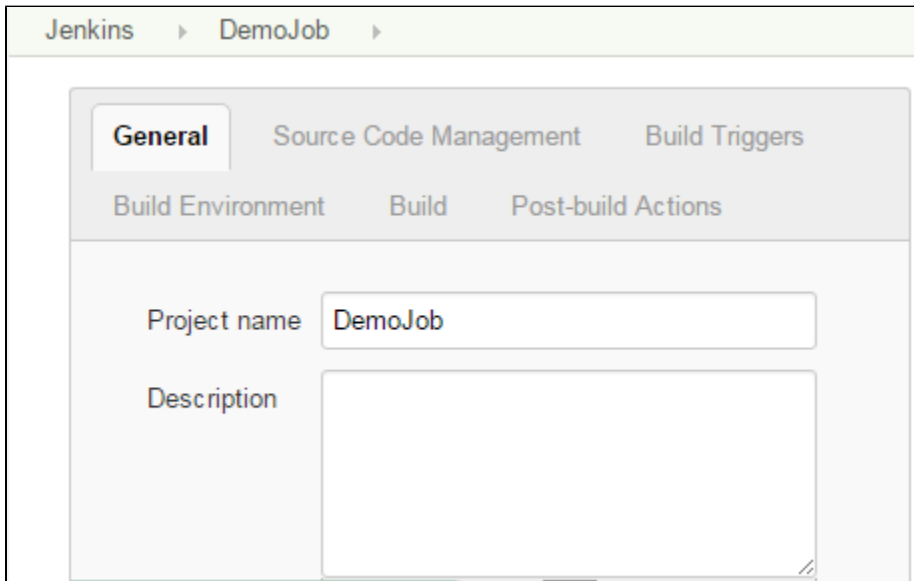


- Select **Freestyle project**. Click OK. See the figure below.



Job created. For example:

DemoJob created as shown in the figure below.

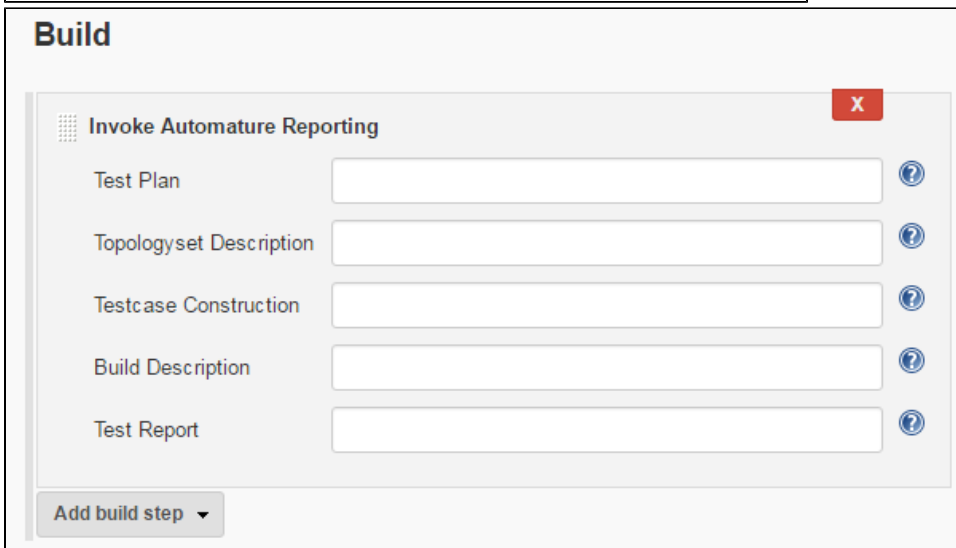
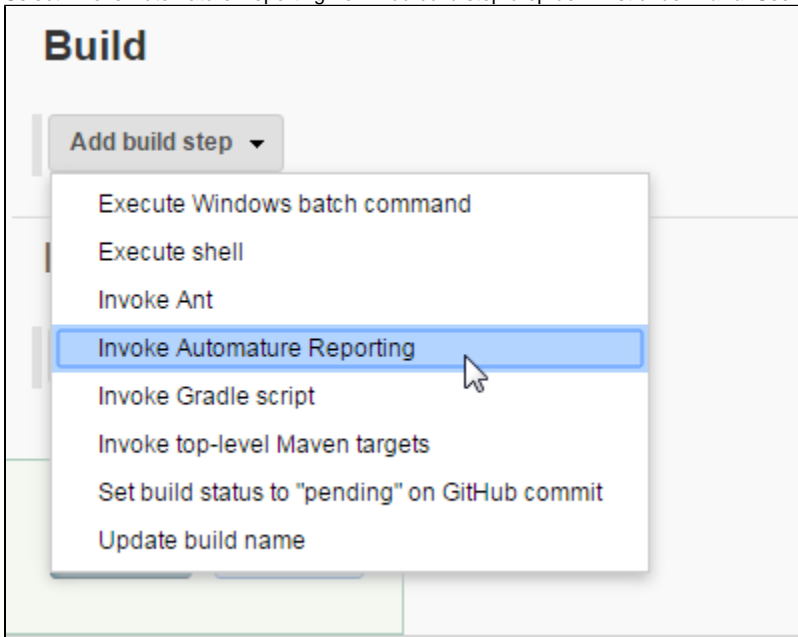


Configure Job

Test Result Reporting

Steps Involved:

- Select Invoke Automature Reporting from Add build step drop down list under **Build**. See the figure below.

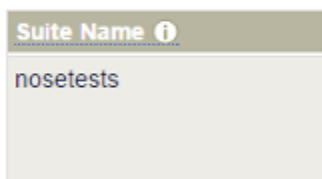


- **Test Plan**
 - Provide a Test Plan name where a test cycle will be created and test cases are reported.
 - The value of this field must contain a fully qualified Test Plan name preceded by the Product name separated by a dot(.).
 - For example, if product name is **DemoProduct** and test plan name is **DemoTestPlan** then the value of this field should be: **DemoProduct.DemoTestPlan**.
 - The product and testplan under consideration must exist in Zermatt. Create a new product and testplan if it does not exist.
- **Topologyset Description**
 - Provide Topologyset Description
 - If TopologySet Description is omitted, then a default TopologySet is assigned for the given Test Plan.
 - The topology (machine participating in the test execution) must exist in Zermatt. Create a new topology if it does not exist.
 - The topology must be associated with an existing topology set.
- **Testcase Naming**
 - Provide a format for the testcase identifier in Zermatt.
 - You may use one of the following formats viz.
 - @classname.@name
 - @name
 - @name_jenkins
 - @classname_jenkins
 - For example if in XML report, classname="democlassname" and name="demoname", the test case identifier constructed in Zermatt for @classname.@name, @name and @name_jenkins is democlassname.demoname, demoname, demoname_jenkins and democlassname_jenkins respectively.
 - If the field is left blank then the Testcase identifier is the value of classname attribute.
- **Build Description**

- Provide a Build Description for product under consideration.
 - If Build Description is omitted then a default build is assigned.
- **Test Report**
 - The file must exist in the project's workspace.
 - If the file name is TestReports.xml then the value of the field is the file name itself.
 - If the file is located in a subdirectory called dir (at workspace) then the value of the field is dir/TestReports.xml.
 - The test report file, an xml file, must be in the following format as illustrated by the figure below

```
<?xml version="1.0" encoding="UTF-8"?>
<testsuite name="nosetests" tests="10" errors="0" failures="0" skip="0">
<testcase classname="test_parse.TestParse1" name="test_parse_modsec_correct_full_file" time="0.008"></testcase>
<testcase classname="test_parse.TestParse2" name="test_parse_modsec_default_values" time="0.002"></testcase>
<testcase classname="test_parse.TestParse3" name="test_parse_modsec_wrong_file" time="0.002"></testcase>
<testcase classname="test_settings.TestSettings" name="test_parse_args_verify_custom" time="0.007"></testcase>
</testsuite>
```

- The Suite Name in Zermatt will be the value of **name** attribute in the **<testsuite>** tag of test report. See the figure below.



- The Test Case identifier and Description of a test case in Zermatt are constructed from the values of **classname** and **name** attributes respectively in a **<testcase>** tag of the **xml** report. See the figure below.

| Test Case | Action | Description |
|----------------------------|---|-------------------------------------|
| test_parse.TestParse3 | [Icons: Refresh, Edit, Delete, List, Print] | test_parse_modsec_wrong_file |
| test_settings.TestSettings | [Icons: Refresh, Edit, Delete, List, Print] | test_parse_args_verify_custom |
| test_parse.TestParse1 | [Icons: Refresh, Edit, Delete, List, Print] | test_parse_modsec_correct_full_file |
| test_parse.TestParse2 | [Icons: Refresh, Edit, Delete, List, Print] | test_parse_modsec_default_values |

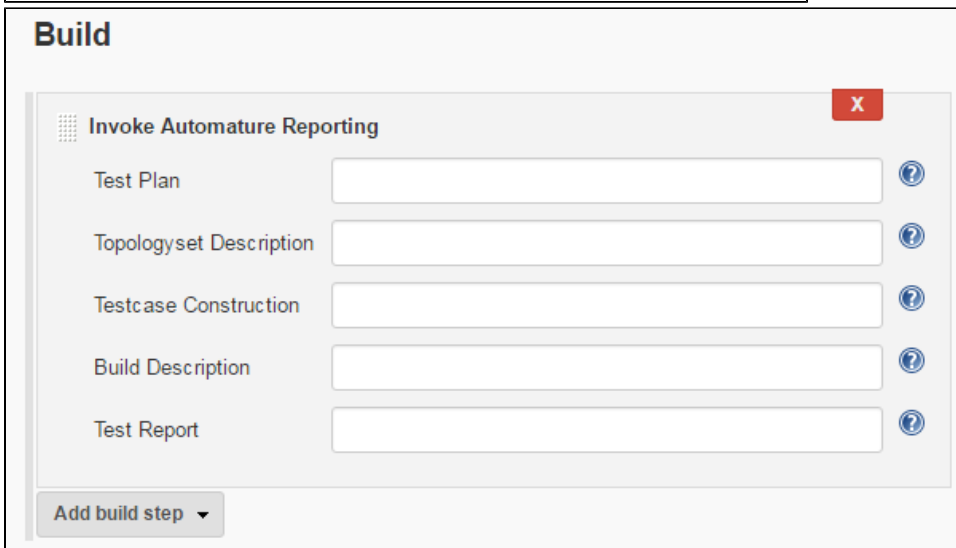
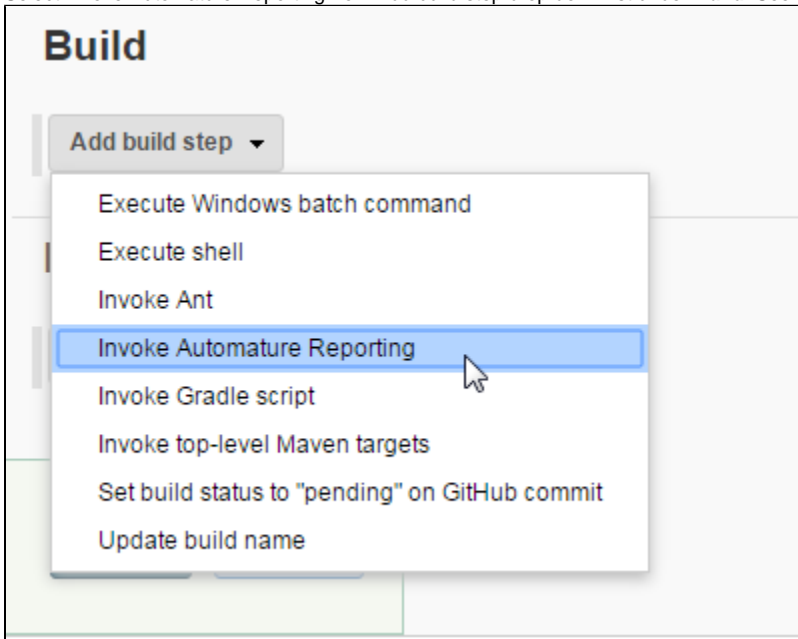
- **Save configuration**
 - Click on **Apply** and **Save** to save configuration.

Test Coverage Reporting

This Plugin provides the ability to connect to Zermatt server and upload test coverage results from a XML coverage report file.

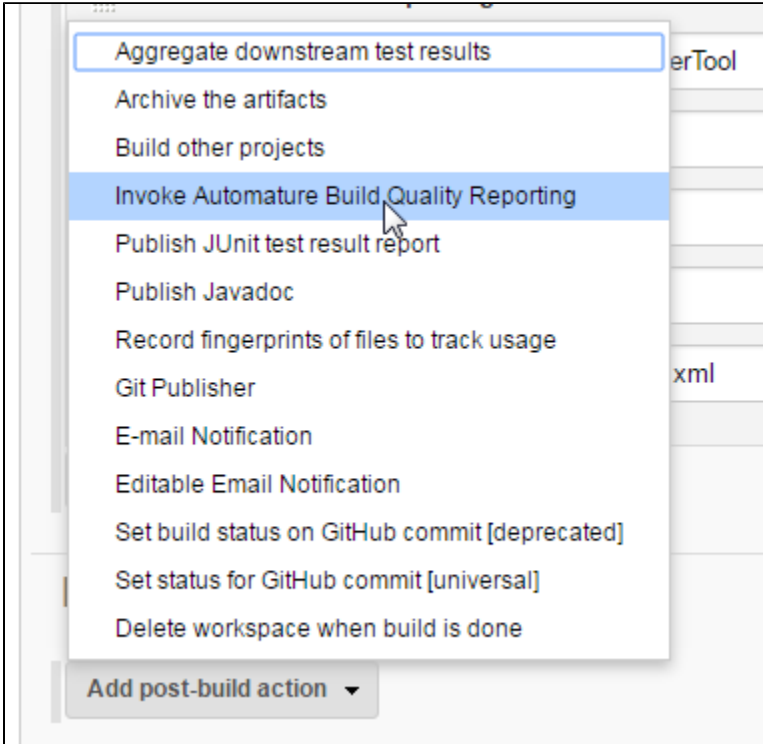
Steps Involved:

- Select Invoke Automature Reporting from Add build step drop down list under **Build**. See the figure below.



- **Test Plan**
 - Provide a Test Plan name where a test cycle will be created and test cases are reported.
 - The value of this field must contain a fully qualified Test Plan name preceded by the Product name separated by a dot(.).
 - For example, if product name is **DemoProduct** and test plan name is **DemoTestPlan** then the value of this field should be: **DemoProduct.DemoTestPlan**.
 - The product and testplan under consideration must exist in Zermatt. Create a new product and testplan if it does not exist.
- **Topologyset Description**
 - Provide Topologyset Description
 - If TopologySet Description is omitted, then a default TopologySet is assigned for the given Test Plan.
 - The topology (machine participating in the test execution) must exist in Zermatt. Create a new topology if it does not exist.
 - The topology must be associated with an existing topology set.
- **Testcase Naming**
 - Provide a format for the testcase identifier in Zermatt.
 - You may use one of the following formats viz.
 - @classname.@name
 - @name
 - @name_jenkins
 - @classname_jenkins
 - For example if in XML report, classname="democlassname" and name="demoname", the test case identifier constructed in Zermatt for @classname.@name, @name and @name_jenkins is democlassname.demoname, demoname, demoname_jenkins and democlassname_jenkins respectively.
 - If the field is left blank then the Testcase identifier is the value of classname attribute.
- **Build Description**

- Provide a Build Description for product under consideration.
 - If Build Description is omitted then a default build is assigned.
- **Test Report**
 - This field is optional.
 - If the field is left blank then a testcycle is created, no test results are reported, but coverage data is reported in the same testcycle.
 - If test report file path is provided, then a testcycle is created, test results are reported and coverage data is reported in the same testcycle.
 - The file must exist in the project's workspace.
 - If the file name is TestReports.xml then the value of the field is the file name itself.
 - If the file is located in a subdirectory called dir (at workspace) then the value of the field is dir/TestReports.xml.
- Select Invoke Automature Build Quality Reporting from Add post-build actions drop down list under Post-build Actions as illustrated below.



- **Coverage File Path**
 - The file must exist in the project's workspace.
 - If the file name is coverage.xml then the value of the field is the file name itself.
 - If the file is located in a subdirectory called dir (at workspace) then the value of the field is dir/coverage.xml.
 - The coverage data is reported to a test cycle in Zermatt as illustrated below.

| ID | Cycle Description | Actions | Modification Date | Release | Sprint | Build | Topologysets | Failure Percentage | Execution Details | Code Coverage |
|------|-------------------|---------|---------------------|---------|-------------|---------------|--------------|--------------------|---|---|
| 3147 | 37_16-12-02 12:45 | | 2016-12-02 12:44:54 | KB2 | KB2_2016_02 | default_build | 1 | | Total : 23 QA2 Test Area (Actual: 680 Failed: 10 Passed: 670 Aborted: 0) | INSTRUCTION : 0.18% BRANCH : 52.45% LINE : 66.36% COMPLEXITY : 1.23% METHOD : 0.20% CLASS : 20.67% |

Testcycle created by plugin

Code Coverage Report

- **Save configuration**
 - Click on **Apply** and **Save** to save configuration.

Zermatt Prerequisites

Below is a list of things you will need to configure in Zermatt before reporting your test execution results using the Automature Jenkins Plugin.

- **Create new user**
 - Existing users may skip this step.
- **Create new product**
 - Use an existing product or create a new product.
- **Add a machine**
 - Use an existing machine or configure a new machine.
 - A machine can be either a physical machine or a virtual machine. Later, this machine may be referenced as a part of a topology for a test session.
- **Add a role**
 - We normally use more than one machine in conducting a specific test. Each machine participates in a specific role that is assigned to it, for the purpose of a test.
- **Add a new topology for the role**
 - A Topology describes a single machine participating in the execution of a Test Case. The machine is described in terms of various significant attributes, such as its role, its operating system, the software installed on it, etc.
- **Add a new topology set**
 - A Topology Set describes a collection of machines required to execute a Test Case. Each machine may participate in a different role (e.g. client, server, database, Active Directory, proxy server, etc...). A test case may typically be executed on more than one topology set.
- **Associate topology to topology set**
- **Create test plan**
 - A test Plan identifies the following entities, viz.
 - The release and the project phase for which the plan exists.
 - The complete list of test suites (and specific test cases, contained in them) that should be executed during the course of the sprint.
 - The complete list of topology sets, where the test cases must be executed during the sprint.
- **Associate topology set to test plan**

The Automature Jenkins Plugin requires integration with other Automature products viz. Spacetime and Zermatt . To download Automature products, please visit www.automature.com.

Change Log

Version 1.3.0 (Mar 03, 2017)

- First release, split off from the core.