

# **beSOURCE V3.0**

## **Eclipse Plugin**

### **User Guide**

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## Document Overview

This document provides information about beSOURCE V3.0 Eclipse Plugin.

For more information on the tool's installation, please refer to install guide document.

## Notation

Notation	Description
1) 2) 3) ...	It means operation sequence in the tool.
<b>BOLD</b>	It means important information.
Note	It provides additional information for a specific topic.
Caution	It provides topic or information that user should notice carefully.

# beSOURCE Eclipse Plugin User Guide

## 1. Getting Started

You need to set server connection configuration to use the beSOURCE Eclipse plugin.

Go to '**Windows > Preferences > beSOURCE**' after installing the plugin and set followings first.

### 1.1 Server Connection and Login

**Enter Rule Server Information:**  
*Input server address for updating rule and analysis engine.*

Address:

sample)  
http://server.homepage.com:50102  
https://100,10,1,1:50102

Enter beSOURCE server's address.

Click '**Connection Test**' button to test the connection.

### 1.2 Rule Update

**Update Rule, Analysis Engine:**

Recent Update: 2018/01/16 18:08:02

Initialize rule and analysis engine

Updated rules and analysis engine can be downloaded from beSOURCE server.

When you install the plugin at **the first time**, you **should click 'Initialize'** button to **download ruleset and analysis engine** to your Eclipse environment.

The updated ruleset and analysis engine will be automatically downloaded from the second time login.

You can check download details by clicking '**View Details**' button.

### 1.3 JDK Setting for Analysis Engine

**Java Setting for Analysis Engine:**

*Enter JDK or JRE home directory of Java 1.6 or higher version.*

Select Directory:

vm option:

The Eclipse plugin requires Java 1.6 or higher. Input a home directory of JDK or JRE 1.6 or higher.

## 1.4 Debug and Analysis Option

**Set Analysis Result Display Mode**

View Analyzed Files Only

View All Files

*It displays result of actually analyzed files and previous analysis result together. The same applies for uploading results to server.*

Create Debug File:

*It creates a zip file with module information, Eclipse error log and the last analysis log.*

Initialize All Project's Analysis Data:

*It will initialize all project's analysis data.  
It can be conducted when the Eclipse workspace is changed or occurring a problem after analysis engine patch.*

- Set Analysis Result Display Mode
  - View Analyzed Files Only: it shows analysis results for the analyzed source files only.
  - View All Files: it shows all files' analysis results merging current analysis results with the previous analysis results.
- Create Debug File
  - It creates a zip file with several logs and configuration information when analysis error occurred.
- Initialize All Project's Analysis Data
  - It removes all projects' analysis results data.
  - You can use this feature when you moved workspace directory or if you want to completely drop analysis results because there was big changes in rules or analysis engine.

## 2. Analyzing Source

### 2.1 Setting Project Rule-set

There are two methods to apply a rule set.

#### 1. Local Rule-set Analysis Mode

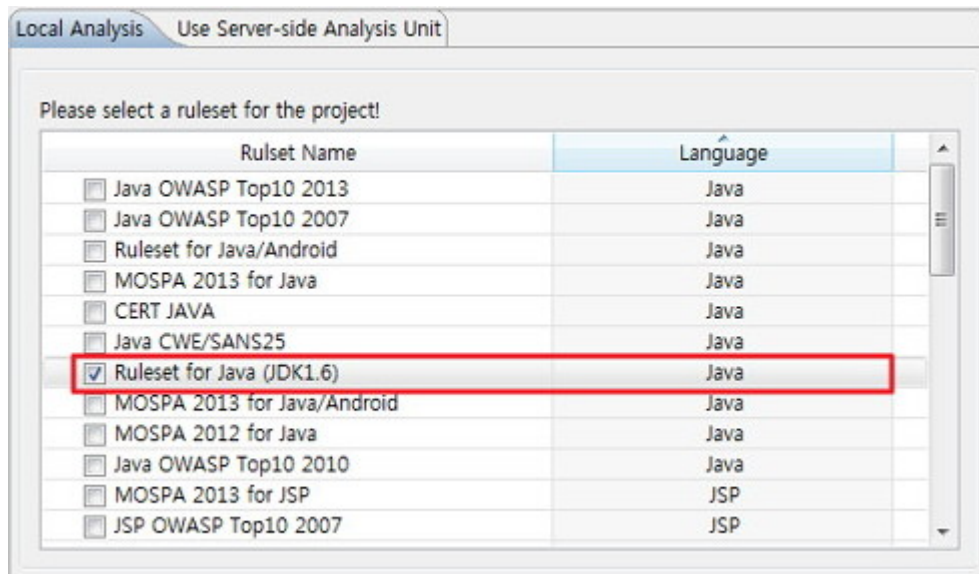
- Local Rule-set is:
  - Used for local inspection.

#### 2. Server-side Analysis Unit Mode

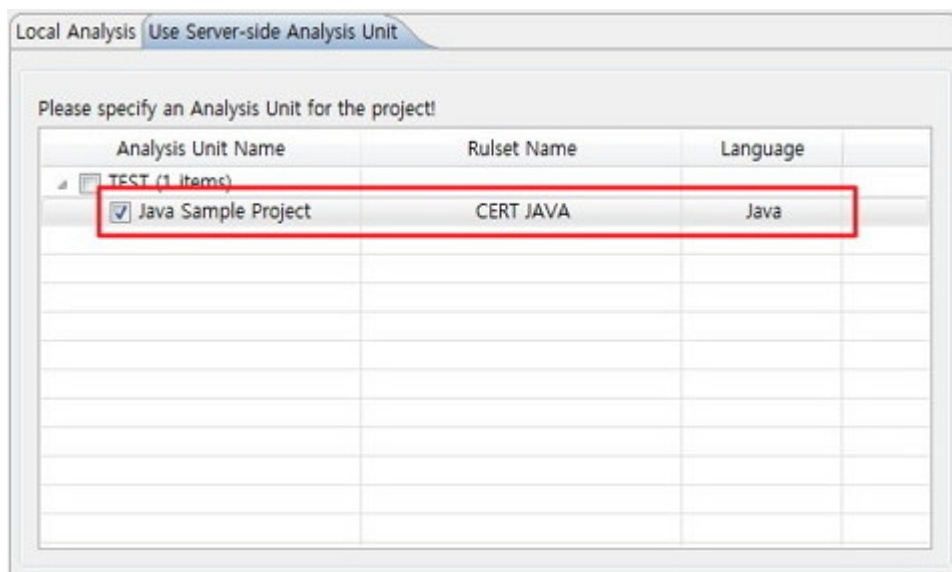
- Server-side analysis unit mode is:
  - Using server-side analysis unit managed by administrator, which includes all information to inspect source codes and SQLs such as rule set and library files.  
This mode allows Eclipse plug-in downloading the information from the server and inspecting source codes same as server environment.
  - Ensuring, therefore, the same inspection results as server-side analysis.
- Pros/Cons
  - Pros.: Applying the same rule-set and environment with server including SQL related rules.  
If an administrator change configuration of server-side Analysis Unit, it would be automatically updated in Eclipse Plug-in.
  - Cons.: Eclipse user cannot change rule-set or rules.

### 2.2 How to set the rule-set

- Select your project in '**Package Explorer**' view and open context menus.
  - Select '**properties > beSOURCE**' context menu.
  - Select one of two tabs - '**Local Analysis**' and '**Use Server-side Analysis Unit**'.
    - If you are not logged in, the '**Use Server-side Analysis Unit**' tab is not shown.
- 1) To select a rule-set in the '**Local Analysis**' tab, select one from the local copied rule-sets list.  
The project language and rule-set language must be matched.



2) To select a rule-set in the 'Use Server-side Analysis Unit' tab,

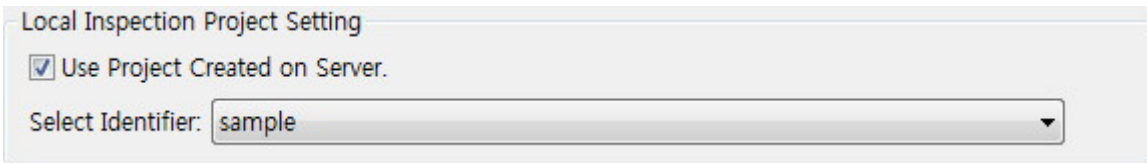


- View Analysis Group and its Analysis Units of server. You can see rule-set and language type of Analysis Unit.
  - Select an Analysis Unit, not Analysis Group.
4. If you need to upload the inspection result to server and share it with administrator, check 'Use Project Created on Server' option and select a project.

When using

Server Uploading feature, the project name would be input automatically.





1. Click **'Ok'** button to save the project configuration.

## 2.3 Starting Analysis

You can start inspecting your project after finishing project configuration.

1. Open or create your project.
2. Open context menu for the project.
  - Click **'beSOURCE > beSOURCE Analysis'** menu. The inspection will be started.
  - If you want to part of all source files in project, select some source files or directory and click the analysis menu.

## 3. Checking Results

The **'beSOURCE Analysis Result'** view shows the analysis results.

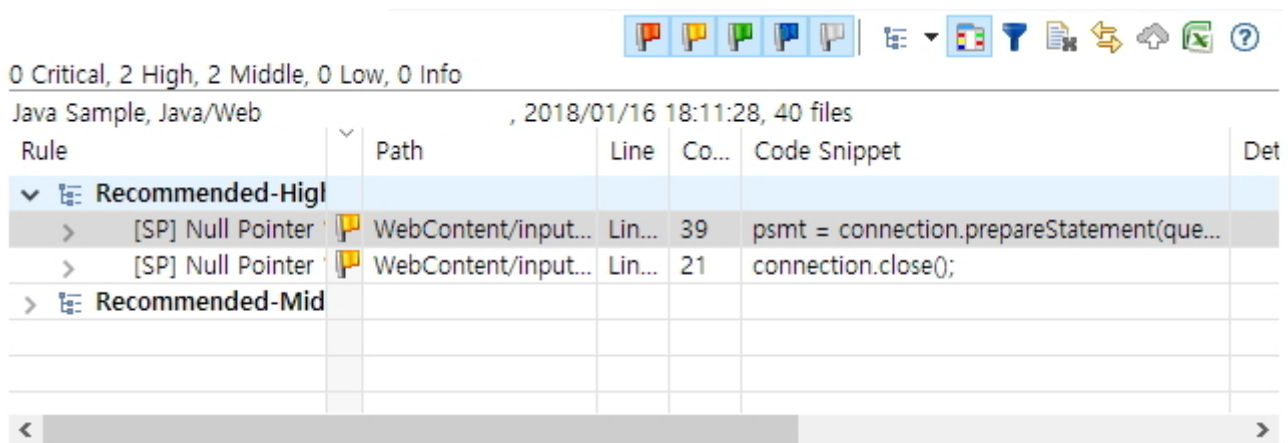
If there was errors, the **'beSOURCE Analysis Error'** view shows the details.

### 3.1 beSOURCE Analysis Result View










The latest analysis results are displayed.

When you double click a rule violation in the list, it moves to the corresponding code line in source editor.

You can adjust showing columns in the view.



### 3.2 Tool Buttons

Icon	Function
	it shows the selected priority rule violations only.
	it shows rule violations by the selected category.
	it shows rule violation information in the source editor.
	it shows excluded (filtered out) rule violations only.
	it deletes all rule violations in the list.
	it shows rule violations for the selected source file only.
	it uploads the analysis results to beSOURCE server (server analysis mode only).
	it exports analysis result to Excel.
	it shows rule description and sample codes for a rule violation.