

Security Dashboard - Continuous Improvement

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Summary: This page provides about the **Continuous Improvement** feature in the **Security Dashboard**.

Introduction

The **Continuous Improvement feature** allows you to view **details/violations/statistics** about the rules that have been selected for [Education](#).

Accessing the feature

To access the feature:

From the [Side Menu bar](#), click the following icon:



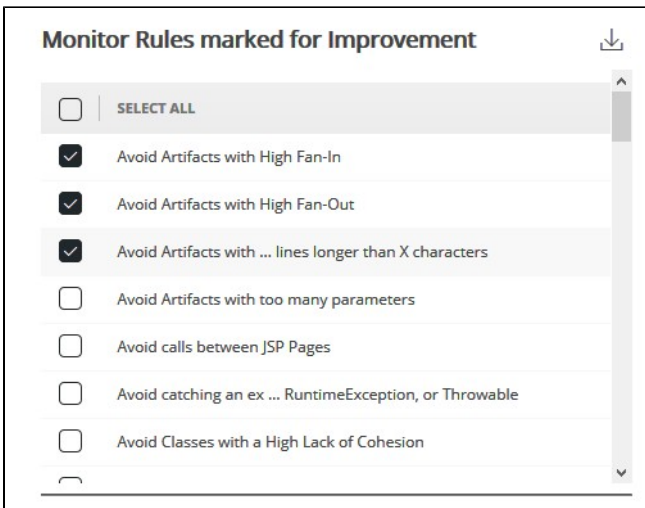
The focus will be set to the **Education** tab when using this icon and you will need to switch to the **Improvement** tab.



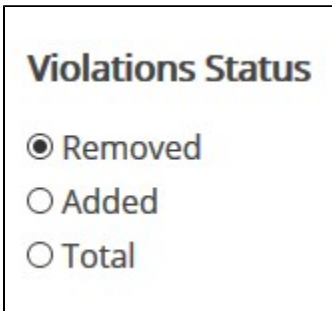
What does the feature show?

This page allows you to view **details/violations/statistics** about the rules that have been selected for **Education**:

All the rules marked for **Education** are listed in the upper right corner, with a selector for all the rules. Selecting or deselecting a rule will update the statistics and graphs. Data in the rest of the page is based on the rules selected here:



Three violation status radio buttons listed in the bottom right corner - selecting a specific option will update the statistics and graphs about the rules that have been selected in the upper right corner:



A graph depicting violations count in the y-axis and snapshots date in the x-axis together with a Violations improvement-summary on top of the Graph:



Table showing a list of Violations in the current snapshot for all rules selected in the upper right corner:

List of Violations in current Snapshot

added 540 **removed 0**



RULE	OBJECT NAME LOCATION	STATUS	
Avoid Artifacts with High Fan-In	[D:\CASTMS\Deploy\MIPSActionPlanStudy\Monster\J2EE\WebContent\jsp\menu.jsp]	added	→ ↗
Avoid Artifacts with High Fan-In	com.cast.monster_event.base.dao.JPAResourceDao.beginTransaction	added	→ ↗

When no rules have been added to the **Education tab**, the page will display:

EDUCATION
IMPROVEMENT

No rules are marked for education

Please add rules to check.

When a previous snapshot is active, no data can be displayed in the Improvement tab and the following will be displayed:

EDUCATION
IMPROVEMENT

Education not available in past snapshot

You may only be able to investigate this data in the latest snapshot.

Rules can be exported to Excel:

Continuous Improvement Summary

22

Violations removed in the current snapshot

110

Violations removed since initial snapshot

Monitor Rules marked for Improvement

- SELECT ALL
- Always cache the results in variables to be reused
- Avoid *SELECT * or *SELECT SINGLE* queries
- Avoid *SELECT * queries
- Avoid artifacts having recursive calls
- Avoid Artifacts with ... ut Code Lines/Code Lines ratio
- Avoid Artifacts with ... Complexity (HTML5/Javascript)

Violations Status

- Removed
- Added
- Total

Using the Violation Statuses

Selecting one of the three Violation statuses will update the graphs as described below:

Violations Status

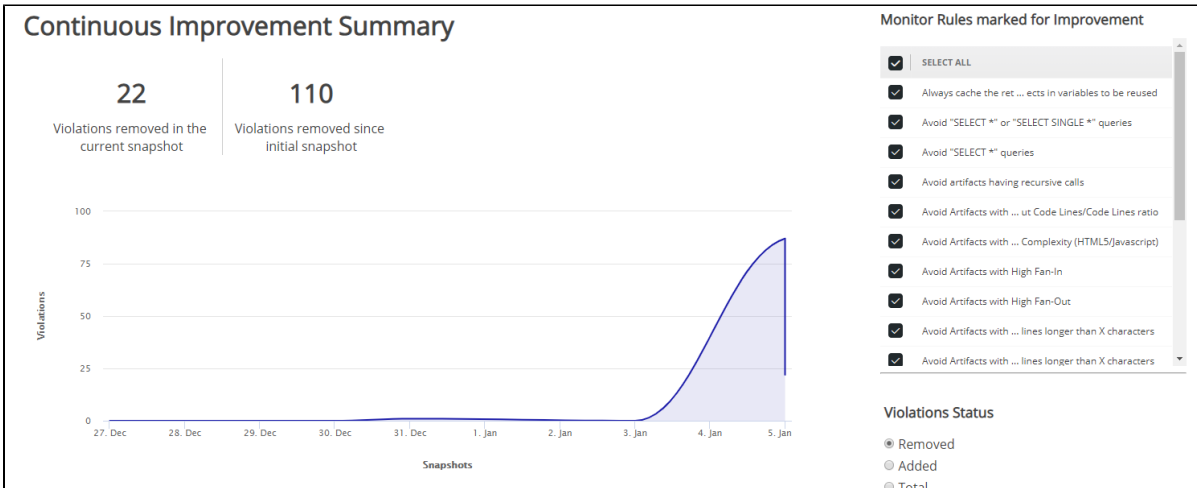
Removed

Added

Total

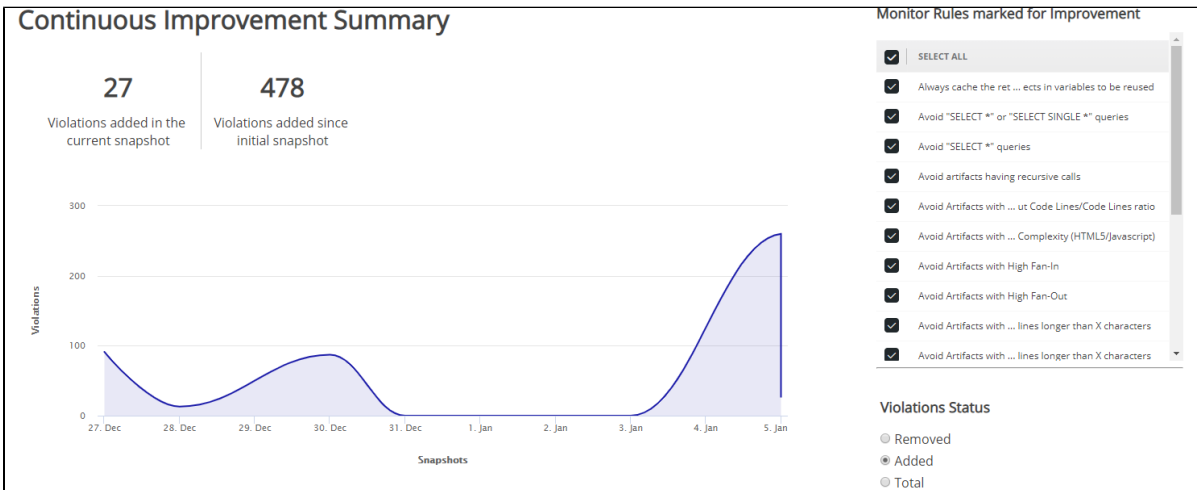
Removed

On selection of the **Removed** status, the graph will display the number of **Violations removed in the current snapshot** and the number of **Violations removed since initial snapshot** for a selected rule. Hovering the mouse pointer over the graph tool tip text displays added violations count, snapshot version and snapshot date for that particular snapshot in the x-axis:



Added

On selection of the **Added** status, the graph will display the number of **Violations added in the current snapshot** and the number of **Violations added since initial snapshot** for a selected rule. Hovering the mouse pointer over the graph tool tip text displays added violations count, snapshot version and snapshot date for that particular snapshot in the x-axis:



Total

On selection of the **Total** status , the graph will display the number of **Violations in current snapshot**, percentage (number) of violations that have **Increased since initial snapshot** and the percentage of violations that have **Increased since previous snapshot** for a selected rule. Hovering the mouse pointer over the graph tool tip text displays added violations count, snapshot version and snapshot date for that particular snapshot in the x-axis:

