

## 1.0.0-alpha2 Release notes

### New Quality Rules

2200044: Recursion should not be infinite

2200046: Ensure Serializable Types Follow Best Practices

2200048: Members of larger scope element should not have conflicting transparency annotations

### Other Changes

#### Performance Improvement

Following two quality rules have been rewritten to improve performance

1. 2200042: Avoid creating new instance of shared instance (.NET)
2. 2200026: Avoid creating exception without throwing them

### Documentation

Documentation of all QRs are now available in pdf format under doc folder.

### Known Issues

EINETRULES-52 (CAST Internal ID) : Incorrect bookmarks for few "2200034:For Loop Condition Should Be Invariant"

## 1.0.0-alpha3 Release notes

### New Quality Rules

2200050: Avoid NULL Pointer Dereference

2200052: Avoid having the same implementation in ALL BRANCHES of a conditional structure

## Other Changes

### Rules Improvement

2200034: For loop stop condition should be invariant, add checks for method invocation and property in stop condition.

2200028: Use Logical OR and AND instead of Bitwise OR and AND in boolean context, add case of AND bitwise operator.

2200000: Avoid local variables shadowing class fields, add case of property shadowed and check iterator variable in foreach loop.

2200024: Mutable static fields of type `System.Collections.Generic.ICollection<T>` or `System.Array` should not be public static, authorized “readonly” fields with inline initialization with an immutable type instead of any “readonly” fields.

## Documentation

Documentation of all QRs are now available in pdf format under doc folder.

## Known Issues

EINETRULES-52 (CAST Internal ID) : Incorrect bookmarks for few "2200034:For Loop Condition Should Be Invariant"

## 1.0.0-funcrel Release notes

This version depends of the minimum version of 1.4.12-funcrel of dotnet analyzer.

## New Quality Rules

2200054: Avoid Persist Security Info in connection string

2200056: Avoid hidden form field

2200058: Avoid security-critical information exposure

## Other Changes

Update Roslyn to version 4.2.0

## 1.0.1-funcrel Release notes

This version depends of the minimum version of 1.4.12-funcrel of dotnet analyzer.

### New Quality Rules

2200060: Avoid using XmlDocument without restriction of XML External Entity Reference (XXE)

2200062: Avoid using XmlTextReader without restriction of XML External Entity Reference (XXE)

2200064: Avoid using XPathNavigator without restriction of XML External Entity Reference

2200066: Avoid direct use of threads (.Net)

2200068: Avoid unsafe object binding (.NET)

2200070: Ensure to abandon previous session before modifying current session

## 1.0.2-funcrel Release notes

This version depends on:

- dotnet analyzer (version  $\geq$  1.4.12-funcrel)
- dotnetweb analyzer (version  $\geq$  1.4.8-funcrel)

### New Quality Rules

2200072: Ensure cookieless attributes are set to UseCookies

2200074: Avoid ELMAH enabled in production

## 1.0.3-funcrel Release notes (In progress)

This version depends on:

- dotnet analyzer (version  $\geq$  1.4.12-funcrel)
- dotnetweb analyzer (version  $\geq$  1.4.8-funcrel)

### New Quality Rules

2200076 : Avoid storing password in String

2200078 : Avoid copying buffer without checking the size of input

2200082 : Ensure to enable column encryption in connection string

2200084 : Avoid static variable modification in methods for class inheriting from System.Web.UI.Page

2200086 : Ensure to set both 'Encrypt' and 'TrustServerCertificate' to true when connecting to a SQL Server

2200088 : Avoid Insufficient Session Expiration in config file(.NET)

2200090 : Avoid exposed dangerous method

### Known Issues corrected

EINETRULES-112: Wrong bookmark in rule 2200068 "Avoid unsafe object binding (.NET)"

EINETRULES-116: False negative in rule 2200054 "Avoid Persist Security Info in connection string" when Persist Security Info is set to true with a string

EINETRULES-121: Case sensitivity for rules 2200072 and 2200074

EINETRULES-123: Error in bookmark for rule 2200088 and 2200072 when there is a commentary at the line before