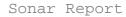


agent not provided

go:Sonar way 2024-06-17







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Sonar Report



1. agent

报告提供了项目指标的概要,显示了与项目质量相关的最重要的指标。如果需要获取更详细的信息,请登陆网站进一步查询。

报告的项目为agent , 生成时间为2024-06-17 , 使用的质量配置为 go:Sonar way , 共计 25条规则

۰

1.1. 概述

编码问题

| Bug | 可靠性修复工作 |
|-----|-----------|
| 0 | 0min |
| | |
| 漏洞 | 安全修复工作 |
| 0 | 0min |
| | |
| 坏味道 | 技术债务 |
| 325 | 2d7h53min |

| 325 | 开启问题 | 325 |
|--------|--------|-----|
| 问题 | 重开问题 | 0 |
| 1 3.00 | 确认问题 | 0 |
| | 误判问题 | 0 |
| | 不修复的问题 | 0 |
| | 已解决的问题 | 150 |
| | 已删除的问题 | 0 |
| | 阻断 | 0 |
| | 严重 | 233 |
| | 主要 | 10 |
| | 次要 | 77 |
| | 提示 | 5 |

静态分析

项目规模



agent

Sonar Report

| 17423 | 行数 | 22564 |
|--------|--------|-------|
| 代码行数 | 方法 | 771 |
| 1 05/5 | 类 | 107 |
| | 文件 | 71 |
| | 目录 | N/A |
| | 重复行(%) | 9.2 |

复杂度

 2259
 文件

 31.8

 复杂度

注释(%)

13.6 注释行数 2748 注释(%)

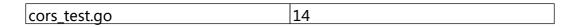
1.2. 问题分析

| 违反最多的规则TOP10 | |
|--|-----|
| String literals should not be duplicated | 192 |
| Function and method names should comply with a naming convention | 77 |
| Cognitive Complexity of functions should not be too high | 32 |
| Functions should not be empty | 9 |
| Nested blocks of code should not be left empty | 5 |
| Track uses of "TODO" tags | 5 |
| Track uses of "FIXME" tags | 4 |
| Functions should not have too many parameters | 1 |

| 违规最多的文件TOP5 | |
|-----------------|----|
| router_test.go | 92 |
| echo_test.go | 43 |
| context_test.go | 20 |
| jwt_test.go | 15 |



Sonar Report



| 复杂度最高的文件TOP5 | |
|----------------|-----|
| binder.go | 322 |
| router.go | 162 |
| router_test.go | 146 |
| echo_test.go | 138 |
| echo.go | 116 |

| 重复行最多的文件TOP5 | |
|-----------------|-----|
| router_test.go | 852 |
| ip_test.go | 300 |
| echo_test.go | 191 |
| echo_fs_test.go | 142 |
| cors_test.go | 104 |

1.3. 问题详情

sonar

规则 String literals should not be duplicated



```
Duplicated string literals make the process of refactoring errorprone, since you must be sure to update all occurrences.
On the other hand, constants can be referenced from many places, but only need to be updated in a single place.
Noncompliant Code Example
With the default threshold of 3:

func run() {
    prepare("This should be a constant") // Noncompliant; 'This should ...' is duplicated 3 times
    execute("This should be a constant")
    release("This should be a constant")
}

Compliant Solution

const ACTION = "This should be a constant"

func run() {
    prepare(ACTION)
    execute(ACTION)
    release(ACTION)
}

Exceptions
To prevent generating some false-positives, literals having 5 or less characters are excluded as well as literals containing only letters, digits and '_'.
```

| and | |
|------------------------|---|
| 文件名称 | 违规行 |
| agent:binder.go | 227, 1113 |
| agent:context_test.go | 32, 176, 705, 793, 1035, 1059 |
| agent:echo_fs_test.go | 29, 49, 54, 62, 63, 65, 100, 104, 198 |
| agent:echo_test.go | 82, 102, 116, 118, 123, 153, 157, 498, 507, 508, 509, 510, 528, 604, 654, 658, 662, 970, 976, 990, 1150, 1251, 1313, 1320, 1327, 1577, 1614, 1630, 1641, 1658, 1699, 1704 |
| agent:group_fs_test.go | 27, 28 |
| agent:group_test.go | 17 |
| agent:ip_test.go | 40, 42, 100, 101, 339, 376, 378, 380, 386, 398, 407 |
| agent:json_test.go | 37 |
| basic_auth_test.go | 33 |
| body_limit_test.go | 19 |
| compress_test.go | 63 |



| cors_test.go | 61, 199, 202, 262, 267, 335, 408, 424, 533 |
|----------------------|--|
| csrf_test.go | 43, 67, 88, 124, 262 |
| extractor_test.go | 60, 73, 139, 151, 154, 155, 165, 168, 223, 486, 486, 543 |
| jwt_test.go | 60, 81, 161, 204, 237, 480 |
| key_auth_test.go | 19, 67 |
| logger_test.go | 69, 112 |
| secure_test.go | 42 |
| static_test.go | 30, 33, 44, 89, 185, 250 |
| agent:router_test.go | 179, 209, 215, 221, 224, 235, 240, 252, 280, 293, 299, 306, 333, 337, 344, 348, 367, 381, 393, 399, 415, 427, 436, 467, 468, 475, 481, 492, 500, 508, 524, 557, 558, 559, 560, 561, 562, 587, 588, 589, 590, 591, 592, 617, 618, 619, 620, 696, 706, 891, 959, 960, 966, 978, 1523, 1664, 1665, 1746, 1747, 1749, 1820, 1973, 1975, 1977, 2098, 2099, 2211, 2212, 2215, 2401, 2402, 2403, 2442, 2446, 2447, 2448, 2570, 2730, 2731, 2796, 2797, 2798 |

规则 Function and method names should comply with a naming convention



```
Shared naming conventions allow teams to collaborate efficiently. This rule checks that all function names match a provided regular expression.

Noncompliant Code Example
With default provided regular expression: ^(_|[a-zA-Z0-9]+)$:

func execute_all() {
...
}

Compliant Solution
func executeAll() {
...
}
```

| 文件名称 | 违规行 |
|------------------------|--|
| agent:context_test.go | 528, 542, 805, 836, 847, 862, 872, 883, 894, 952, 996, 1008, 1024 |
| agent:echo_fs_test.go | 16, 186, 246 |
| agent:echo_test.go | 811, 943, 1139, 1177, 1264, 1556, 1720, 1735, 1755 |
| agent:group_fs_test.go | 15, 76 |
| agent:group_test.go | 126, 191 |
| agent:ip_test.go | 22 |
| agent:json_test.go | 16, 53 |
| body_dump_test.go | 94, 104, 114, 124, 134 |
| body_limit_test.go | 86, 167 |
| compress_test.go | 317, 327, 337 |
| cors_test.go | 256, 303, 394, 629 |
| csrf_test.go | 17, 321 |
| jwt_test.go | 441, 465, 488, 534, 591, 632, 658, 708 |
| key_auth_test.go | 275, 291, 306 |
| logger_test.go | 202, 238 |
| request_id_test.go | 45 |
| static_test.go | 172, 325 |
| agent:response_test.go | 34, 43, 53, 77, 88, 104 |
| agent:router_test.go | 734, 1368, 1452, 2716, 2773, 2781, 2789 |

规则 Cognitive Complexity of functions should not be too high



规则描述

Cognitive Complexity is a measure of how hard the control flow of a function is to understand. Functions with high Cognitive Complexity will be difficult to maintain.

See

Cognitive Complexity

| 文件名称 | 违规行 |
|----------------------|--------------------|
| agent:bind.go | 67, 135 |
| agent:binder.go | 560, 788, 1041 |
| agent:echo_test.go | 943, 1493 |
| basic_auth.go | 57 |
| compress.go | 72 |
| cors.go | 136 |
| cors_test.go | 16 |
| csrf.go | 96 |
| csrf_test.go | 17 |
| decompress.go | 52 |
| extractor.go | 98 |
| extractor_test.go | 36 |
| jwt.go | 169 |
| jwt_test.go | 91 |
| key_auth.go | 95 |
| logger.go | 95 |
| proxy.go | 280 |
| rate_limiter.go | 111 |
| recover.go | 70 |
| request_logger.go | 251 |
| secure.go | 97 |
| slash.go | 84 |
| static.go | 141 |
| agent:router.go | 159, 214, 258, 542 |
| agent:router_test.go | 2716 |

规则 Functions should not be empty



规则描述

There are several reasons for a method not to have a method body:

It is an unintentional omission, and should be fixed to prevent

an unexpected behavior in production.

It is not yet, or never will be, supported. In this case an exception should be thrown.

The method is an intentionally-blank override. In this case a

nested comment should explain the reason for the blank override.

```
Noncompliant Code Example
```

func doNothing() { // Noncompliant

Compliant Solution

func doNothing() { // Do nothing because of X and Y.

| 文件名称 | 违规行 |
|------------------------|--------------|
| agent:context_test.go | 360 |
| body_dump_test.go | 66, 84 |
| key_auth_test.go | 94, 121, 231 |
| middleware_test.go | 103, 119 |
| agent:response_test.go | 66 |

Nested blocks of code should not be left empty 规则 Most of the time a block of code is empty when a piece of code is 规则描述 really missing. So such empty block must be either filled or Noncompliant Code Example func compute(a int, b int) { sum := a + b if sum > 0 { } // Noncompliant; empty on purpose or missing piece of codé? fmt.Println("Result:", sum) **Compliant Solution** func compute(a int, b int) { sum := a + b if sum > 0 { fmt.Println("Positive result") fmt.Println("Result:", sum) Exceptions When a block contains a comment, this block is not considered to be empty. for without init and post statements with empty blocks are ignored as well.



| 立件夕较 | 注圳仁 |
|-----------------|-------------------------|
| <u> </u> | 上上 |
| | 470 005 004 040 075 |
| agent:router.go | 172, 235, 281, 613, 675 |

| <mark>规则</mark> Track uses of "TODO" tags | | | |
|---|--|--------|--|
| 规则描述 | TODO tags are commonly used to mark places where some more code is required, but which the developer wants to implement later. Sometimes the developer will not have the time or will simply forget to get back to that tag. This rule is meant to track those tags and to ensure that they do not go unnoticed. Noncompliant Code Example func foo() { // TODO } See | | |
| | MITRE, CWE-546 - Suspicious Comment | | |
| 文件名称 | | 违规行 | |
| agent:group_test.go 15 | | 15 | |
| responsecontroller_1.19.go 1 | | 15, 32 | |
| agent:responsecontroller_1.19.go 15, 32 | | 15, 32 | |

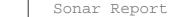
| | <mark>规则</mark> Track uses of "FIXME" tags | | | |
|---------------------------------|--|------------|--|--|
| 规则描述 | FIXME tags are commonly used to mark places where a bug is suspected, but which the developer wants to deal with later. Sometimes the developer will not have the time or will simply forget to get back to that tag. This rule is meant to track those tags and to ensure that they do not go unnoticed. Noncompliant Code Example func foo() { // FIXME } See MITRE, CWE-546 - Suspicious Comment | | | |
| // /- /- /- | | V+10/- | | |
| 文件名称 | | 违规行 | | |
| agent:echo.go | agent:echo.go 583 | | | |
| agent:router.go 220 | | 220 | | |
| agent:router_test.go 1155, 1161 | | 1155, 1161 | | |



| 1 | | |
|--|--|-----|
| 规则 Functions should not have too many parameters | | |
| 规则描述 | A long parameter list can indicate that a new structure should be created to wrap the numerous parameters or that the function is doing too many things. Noncompliant Code Example With a maximum number of 4 parameters: | |
| | func foo(p1 int, p2 int, p3 int, p4 int, p5 int) { // Noncompliant // } | |
| | Compliant Solution | |
| | func foo(p1 int, p2 int, p3 int, p4 int) { // } | |
| 文件名称 | | 违规行 |
| agent:router.go | | 398 |

1.4. 质量配置

| 质量配置 | go:Sonar way Bug:6 坏味道:17 | | |
|---|--|-----|------|
| 规则 | | 类型 | 违规级别 |
| Variables should | not be self-assigned | Bug | 主要 |
| Identical expressions should not be used on both sides of a binary operator | | Bug | 主要 |
| All code should I | oe reachable | Bug | 主要 |
| Related "if/else if" statements should not have the same condition | | Bug | 主要 |
| "=+" should not be used instead of "+=" | | Bug | 主要 |
| All branches in a conditional structure should not have exactly the same implementation | | Bug | 主要 |
| Cognitive Complexity of functions should not be too high | | 坏味道 | 严重 |
| String literals should not be duplicated | | 坏味道 | 严重 |
| Functions should not be empty | | 坏味道 | 严重 |
| Redundant pairs of parentheses should be removed | | 坏味道 | 主要 |
| Track uses of "FIXME" tags | | 坏味道 | 主要 |
| | a conditional structure should the same implementation | 坏味道 | 主要 |
| Functions should implementations | l not have identical | 坏味道 | 主要 |
| Track parsing failures | | 坏味道 | 主要 |
| "switch" statements should not have too many "case" clauses | | 坏味道 | 主要 |
| Functions should | not have too many parameters | 坏味道 | 主要 |
| Nested blocks of code should not be left empty | | 坏味道 | 主要 |





| Multi-line comments should not be empty | 坏味道 | 次要 |
|--|-----|----|
| Boolean checks should not be inverted | 坏味道 | 次要 |
| Boolean literals should not be redundant | 坏味道 | 次要 |
| Function and method names should comply with a naming convention | 坏味道 | 次要 |
| Local variable and function parameter names should comply with a naming convention | 坏味道 | 次要 |
| Track uses of "TODO" tags | 坏味道 | 提示 |

agent