



**agent  
not provided**

*go:Sonar way  
2024-06-17*

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# 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。


## 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
329	2d8h11min
329	开启问题
问题	重开问题
	确认问题
	误判问题
	不修复的问题
	已解决的问题
	已删除的问题
	阻断
	严重
	主要
	次要
	提示

### 静态分析

项目规模

	agent	Sonar Report
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17540  
代码行数

行数  
方法  
类  
文件  
目录  
重复行(%)

22702  
773  
107  
72  
N/A  
9.5

复杂度

2268  
复杂度

文件

31.5

注释(%)

13.6  
注释(%)

注释行数

2751

## 1.2. 问题分析

违反最多的规则TOP10	
String literals should not be duplicated	193
Function and method names should comply with a naming convention	79
Cognitive Complexity of functions should not be too high	32
Functions should not be empty	9
Track uses of "TODO" tags	6
Nested blocks of code should not be left empty	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

cors_test.go	14
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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

规则	String literals should not be duplicated
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规则描述	<p>Duplicated string literals make the process of refactoring error-prone, 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.</p> <p>Noncompliant Code Example With the default threshold of 3:</p> <pre>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") }</pre> <p>Compliant Solution</p> <pre>const ACTION = "This should be a constant"  func run() {   prepare(ACTION)   execute(ACTION)   release(ACTION) }</pre> <p>Exceptions To prevent generating some false-positives, literals having 5 or less characters are excluded as well as literals containing only letters, digits and '.'.</p>
文件名称	违规行
agent:binder.go	227, 1113
agent:context_fs_test.go	34
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

	agent	Sonar Report
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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
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规则描述	<p>Shared naming conventions allow teams to collaborate efficiently. This rule checks that all function names match a provided regular expression.</p> <p>Noncompliant Code Example</p> <p>With default provided regular expression: <code>^(_ [a-zA-Z0-9]+)\$ :</code></p> <pre>func execute_all() { ... }</pre> <p>Compliant Solution</p> <pre>func executeAll() { ... }</pre>	
文件名称	违规行	
agent:context_fs_test.go	15, 81	
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
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规则描述	<p>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</p> <p>Cognitive Complexity</p>
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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	282
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
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	agent	Sonar Report
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规则描述	<p>There are several reasons for a method not to have a method body:</p> <ul style="list-style-type: none"> <li>It is an unintentional omission, and should be fixed to prevent an unexpected behavior in production.</li> <li>It is not yet, or never will be, supported. In this case an exception should be thrown.</li> <li>The method is an intentionally-blank override. In this case a nested comment should explain the reason for the blank override.</li> </ul> <p>Noncompliant Code Example</p> <pre>func doNothing() { // Noncompliant }</pre> <p>Compliant Solution</p> <pre>func doNothing() {     // Do nothing because of X and Y. }</pre>
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

规则	Track uses of "TODO" tags
规则描述	<p>TODO tags are commonly used to mark places where some more code is required, but which the developer wants to implement later.</p> <p>Sometimes the developer will not have the time or will simply forget to get back to that tag.</p> <p>This rule is meant to track those tags and to ensure that they do not go unnoticed.</p> <p>Noncompliant Code Example</p> <pre>func foo() {     // TODO }</pre> <p>See</p> <p>MITRE, CWE-546 - Suspicious Comment</p>
文件名称	违规行
agent:group_test.go	15
proxy.go	23
responsecontroller_1.19.go	15, 32
agent:responsecontroller_1.19.go	15, 32


规则	Nested blocks of code should not be left empty	
规则描述	<p>Most of the time a block of code is empty when a piece of code is really missing. So such empty block must be either filled or removed.</p> <p>Noncompliant Code Example</p> <pre>func compute(a int, b int) {     sum := a + b     if sum &gt; 0 { } // Noncompliant; empty on purpose or missing piece of code?     fmt.Println("Result:", sum) }</pre> <p>Compliant Solution</p> <pre>func compute(a int, b int) {     sum := a + b     if sum &gt; 0 {         fmt.Println("Positive result")     }     fmt.Println("Result:", sum) }</pre> <p>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.</p>	
文件名称		违规行
agent:router.go		172, 235, 281, 613, 675

规则	Track uses of "FIXME" tags	
规则描述	<p>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.</p> <p>Noncompliant Code Example</p> <pre>func foo() {     // FIXME }</pre> <p>See MITRE, CWE-546 - Suspicious Comment</p>	
文件名称		违规行
agent:echo.go		583
agent:router.go		220
agent:router_test.go		1155, 1161

规则	Functions should not have too many parameters	
规则描述	<p>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.</p> <p>Noncompliant Code Example</p> <p>With a maximum number of 4 parameters:</p> <pre>func foo(p1 int, p2 int, p3 int, p4 int, p5 int) { // Noncompliant // ... }</pre> <p>Compliant Solution</p> <pre>func foo(p1 int, p2 int, p3 int, p4 int) { // ... }</pre>	
文件名称	agent:router.go	违规行
		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 be 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
Two branches in a conditional structure should not have exactly the same implementation	坏味道	主要
Functions should not have identical implementations	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

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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