# Introduction

Thank you for participating in our study. The purpose of this study is to evaluate the performance of popular Golang linters. Please complete this questionnaire within the next 3 weeks. If you have any questions or need more time, feel free to contact us at [wjwcis@udel.edu](mailto:wjwcis@udel.edu).

Please answer the following questions independently without comparing or referring to other questions; or asking for help from other participants/online forums/LLM-based chatbots.

* *I agree*
* *I disagree*

# Survey Questions

## Question 1

<<https://github.com/pulumi/pulumi/pull/11857/commits/6da69abdeabaffcb5c6307c41fb49829cd0d6b81>> fixes a <Misuse of type conversion and declaration> at <line 157-163> in <pkg/codegen/testing/tstypes/tstypes.go>.

For each tool:

This is the output of <tool 1> on the code prior to the commit:

<[pulumi-09aee82c2c72b6dc4357dd7237b4279a71e485b2-tool\_1.txt](https://docs.google.com/document/d/144xI6Nub1yLn_QfIVB2bKOVq-5wFpZYYnxLH00p300k/edit?usp=sharing)>

The output is effective at convincing me that <line 157-163> in <pkg/codegen/testing/tstypes/tstypes.go> is <Misuse of type conversion and declaration>

* Strongly Disagree
* 2
* 3
* 4
* Strongly Agree
* No issues at all (N/A)

Why do you believe that the output is effective or not?

| It’s enough to debug the code |
| --- |

The output is effective at guiding me to the fix captured in the commit

* Strongly Disagree
* 2
* 3
* 4
* Strongly Agree
* No issues at all (N/A)

Why do you believe that the output is effective or not?

| Locating the code position is good, it’s effective for me to debug the code. |
| --- |

## Question 2

<<https://github.com/tinylib/msgp/pull/320/commits/79004a02122d12b59ada6f99b4c36f96b53fc629>> fixes a <Misuse of type conversion and declaration> at <line 122-129> in <msgp/elsize.go>.

For each tool:

This is the output of <tool 1> on the code prior to the commit:

<[msgp-bb8909c937c78279debe87ca18c5cb3332920f38-tool\_1.txt](https://docs.google.com/document/d/1tgCVCEnTuKRwj5dFGQphOeoRc4uF-wMSGz2PWtK5CG0/edit?usp=sharing)>

The output is effective at convincing me that <line 122-129> in <msgp/elsize.go> is <Misuse of type conversion and declaration>

* Strongly Disagree
* 2
* 3
* 4
* Strongly Agree
* No issues at all (N/A)

Why do you believe that the output is effective or not?

| Looks like it detects all redundant return statements, unused methods or types, which is great. But I don’t see it detects the const issues. |
| --- |

The output is effective at guiding me to the fix captured in the commit

* Strongly Disagree
* 2
* 3
* 4
* Strongly Agree
* No issues at all (N/A)

Why do you believe that the output is effective or not?

| Since it points out all the lines that have issues, it can help debug pretty efficiently. |
| --- |

## Question 3

<<https://github.com/influxdata/telegraf/pull/11964/commits/654ceecd34e49f5461bda4f9fecc2201ff35642c>> fixes a <Misuse of defer> at <line 213> in <plugins/common/starlark/builtins.go>.

For each tool:

This is the output of <tool 3> on the code prior to the commit:

<[telegraf-6606c5ed33ac26652251b7afa2c1e6a28074ec0f-tool\_3.txt](https://docs.google.com/document/d/1eDU9wAGgcCRcVKpZ3d-0M_GyMqt4zW829OElA1izbNE/edit?usp=sharing)>

The output is effective at convincing me that <line 213> in <plugins/common/starlark/builtins.go> is <Misuse of defer>

* Strongly Disagree
* 2
* 3
* 4
* Strongly Agree
* No issues at all (N/A)

Why do you believe that the output is effective or not?

| Very descriptive output. It would be better to distinguish the importance of different items. |
| --- |

The output is effective at guiding me to the fix captured in the commit

* Strongly Disagree
* 2
* 3
* 4
* Strongly Agree
* No issues at all (N/A)

Why do you believe that the output is effective or not?

| It lists all the patterns and suggestions. It surely helps debug efficiently |
| --- |

## Question 4

<<https://github.com/ActiveState/cli/pull/2943/commits/45f24274148c6062c9bcdb9e6869762303102822>> fixes a <Missing a null check> at <line 18-21> in <internal/runbits/runtime/rationalize.go>.

For each tool:

This is the output of <tool 1> on the code prior to the commit:

<[cli-25b620b5f2b003e36aeba2f59736217732606dba-tool\_1.txt](https://docs.google.com/document/d/1Nqy4-axOfA0jL4ODxrUdYsMaKNlyGHb5Q2hVBJ0MVLg/edit?usp=sharing)>

The output is effective at convincing me that <line 18-21> in <internal/runbits/runtime/rationalize.go> is <Missing a null check>

* Strongly Disagree
* 2
* 3
* 4
* Strongly Agree
* No issues at all (N/A)

Why do you believe that the output is effective or not?

| It detects the null check, but the output is unstructured, hard to read. |
| --- |

The output is effective at guiding me to the fix captured in the commit

* Strongly Disagree
* 2
* 3
* 4
* Strongly Agree
* No issues at all (N/A)

Why do you believe that the output is effective or not?

| Not very effective due to the wordy and unstructured output. |
| --- |

## Question 5

<<https://github.com/integr8ly/integreatly-operator/pull/2782/commits/bcc3220f04affb7950feba8020d8a6d60994dae2>> fixes a <Misuse of error handling> at <line 34> in <controllers/rhmiconfig/helpers/update\_status.go>.

For each tool:

This is the output of <tool 4> on the code prior to the commit:

<[integreatly-operator-e88a2dfc9d6c992e4ecc8bd4bd604774ec8e41ec-tool\_4.txt](https://docs.google.com/document/d/1GG3WlNncA4P42vIpnIgtUtQC6oYxPbzg8n_N8B80Shw/edit?usp=sharing)>

The output is effective at convincing me that <line 34> in <controllers/rhmiconfig/helpers/update\_status.go> is <Misuse of error handling>

* Strongly Disagree
* 2
* 3
* 4
* Strongly Agree
* No issues at all (N/A)

Why do you believe that the output is effective or not?

| It does detect lots of issues. It categorizes the output for easy of reading. |
| --- |

The output is effective at guiding me to the fix captured in the commit

* Strongly Disagree
* 2
* 3
* 4
* Strongly Agree
* No issues at all (N/A)

Why do you believe that the output is effective or not?

| I like the output with degree of confidence, it surely helps developers find the most severe bugs and fix them. |
| --- |

## Question 6

<<https://github.com/supabase/gotrue/pull/636/commits/579be1dd6cb32160f727a17237f05b04626f2469>> fixes a <Misuse of error handling> at <line 151 & 236> in <api/hooks.go>.

For each tool:

This is the output of <tool 4> on the code prior to the commit:

<[gotrue-6399fb04c135edab42682c9f4bcf44e6c1bece89-tool\_4.txt](https://docs.google.com/document/d/1iT1qfddEgCm0a8qHorjpOUL63qobH9tGftouGSnTq5U/edit?usp=sharing)>

The output is effective at convincing me that <line 151 & 236> in <api/hooks.go> is <Misuse of error handling>

* Strongly Disagree
* 2
* 3
* 4
* Strongly Agree
* No issues at all (N/A)

Why do you believe that the output is effective or not?

| It finds the errors and lists the importance. |
| --- |

The output is effective at guiding me to the fix captured in the commit

* Strongly Disagree
* 2
* 3
* 4
* Strongly Agree
* No issues at all (N/A)

Why do you believe that the output is effective or not?

| The output is clear, it points out the correct line to fix. |
| --- |