



# RootCause SAST Report

## Static Application Security Testing

**Generated on:** September 14, 2025

**Workspace:** /home/m3str3/code/rootcause/scanner/examples/fixtures/rust

## Executive Summary

This security analysis identified **15** potential security issues across the codebase. The findings are distributed as follows:

Severity	Count	Percentage
High	6	40.0%
Low	1	6.7%
Medium	8	53.3%

## Analysis Metrics

**Total Issues Found:** 15

**Analysis Time:** 0ms

**Files Analyzed:** N/A

## Detailed Findings

### Finding #1: rs.no-unwrap

Property	Value
Rule ID	rs.no-unwrap
Severity	Medium
File Path	dfg/methods.rs
Line Number	12
Column	1
Message	Avoid unwrap() in production
Code Excerpt	<pre>let unwrapped = opt.unwrap();</pre>

### Finding #2: insecure-hashes

Property	Value
Rule ID	insecure-hashes
Severity	Medium
File Path	rs.insecure-hash/bad.rs
Line Number	8
Column	18
Message	Detected cryptographically insecure hashing function
Code Excerpt	<pre>let mut hasher = Md2::new();</pre>

### Finding #3: insecure-hashes

Property	Value
Rule ID	insecure-hashes
Severity	Medium
File Path	rs.insecure-hash/bad.rs
Line Number	11
Column	18
Message	Detected cryptographically insecure hashing function
Code Excerpt	<pre>let mut hasher = Md4::new();</pre>

## Finding #4: insecure-hashes

Property	Value
Rule ID	insecure-hashes
Severity	Medium
File Path	rs.insecure-hash/bad.rs
Line Number	14
Column	18
Message	Detected cryptographically insecure hashing function
Code Excerpt	let mut hasher = Md5::new();

## Finding #5: insecure-hashes

Property	Value
Rule ID	insecure-hashes
Severity	Medium
File Path	rs.insecure-hash/bad.rs
Line Number	17
Column	18
Message	Detected cryptographically insecure hashing function
Code Excerpt	let mut hasher = Sha1::new();

## Finding #6: rs.no-panic

Property	Value
Rule ID	rs.no-panic
Severity	High
File Path	rs.no-panic/bad.rs
Line Number	2
Column	1
Message	Do not use panic! in production
Code Excerpt	panic!("error");

## Finding #7: rs.no-expect

Property	Value
Rule ID	rs.no-expect
Severity	Medium
File Path	rs.no-expect/bad.rs
Line Number	2
Column	1
Message	Avoid expect() in production
Code Excerpt	<pre>let v = Some(1).expect("fail");</pre>

## Finding #8: rs.no-unsafe

Property	Value
Rule ID	rs.no-unsafe
Severity	High
File Path	rs.no-unsafe/bad.rs
Line Number	1
Column	1
Message	Do not use unsafe
Code Excerpt	<pre>unsafe fn dangerous() {</pre>

## Finding #9: rs.no-unsafe

Property	Value
Rule ID	rs.no-unsafe
Severity	High
File Path	rs.no-unsafe/bad.rs
Line Number	2
Column	1
Message	Do not use unsafe
Code Excerpt	<pre>println!("very unsafe");</pre>

## Finding #10: rs.no-unsafe

Property	Value
Rule ID	rs.no-unsafe
Severity	High
File Path	rs.no-unsafe/bad.rs
Line Number	7
Column	1
Message	Do not use unsafe
Code Excerpt	unsafe {

## Finding #11: rs.no-unsafe

Property	Value
Rule ID	rs.no-unsafe
Severity	High
File Path	dfg/unsafe.rs
Line Number	3
Column	1
Message	Do not use unsafe
Code Excerpt	unsafe {

## Finding #12: rs.no-unwrap

Property	Value
Rule ID	rs.no-unwrap
Severity	Medium
File Path	dfg/methods_bad.rs
Line Number	4
Column	1
Message	Avoid unwrap() in production
Code Excerpt	let y = v.pop().unwrap();

## Finding #13: rs.no-unsafe

Property	Value
Rule ID	rs.no-unsafe
Severity	High
File Path	rs.macros/bad.rs
Line Number	10
Column	1
Message	Do not use unsafe
Code Excerpt	unsafe {

## Finding #14: rs.todo-comment

Property	Value
Rule ID	rs.todo-comment
Severity	Low
File Path	rs.todo-comment/bad.rs
Line Number	2
Column	1
Message	Avoid TODO comments
Code Excerpt	// TODO: implement

## Finding #15: rs.no-unwrap

Property	Value
Rule ID	rs.no-unwrap
Severity	Medium
File Path	rs.no-unwrap/bad.rs
Line Number	3
Column	1
Message	Avoid unwrap() in production
Code Excerpt	opt.unwrap();