

Scout Report - 2025-11-07

Summary

| Crate | Status | Critical | Medium | Minor | Enhancement |
|-----------|----------|----------|--------|-------|-------------|
| authority | Analyzed | 5 | 4 | 1 | 2 |

Issues found:

- Soroban Version (2 results) (Enhancement)
- Unnecessary Admin Parameter (2 results) (Medium)
- Integer Overflow Or Underflow (5 results) (Critical)
- Unused Return Enum (1 results) (Minor)
- Front Running (2 results) (Medium)

Best Practices

Soroban Version

Impact: Enhancement

Description: Use the latest version of Soroban

More about: [here](#)

Storage Change Events

Impact: Enhancement

Description: Consider emitting an event when storage is modified

More about: [here](#)

| ID | Package | Detection |
|----|-----------|------------------|
| 0 | authority | lib.rs:1:1 - 1:1 |

| ID | Package | Detection |
|----|-----------|---------------------|
| 9 | authority | lib.rs:32:5 - 37:27 |

Authorization

Unnecessary Admin Parameter

Impact: Medium

Description: Usage of admin parameter might be unnecessary

More about: [here](#)

| ID | Package | Detection |
|----|-----------|------------------------|
| 10 | authority | lib.rs:57:9 - 57:23 |
| 11 | authority | lib.rs:219:42 - 219:56 |

Arithmetic

Integer Overflow Or Underflow

Impact: Critical

Description: Potential for integer arithmetic overflow/underflow. Consider checked, wrapping or saturating arithmetic.

More about: [here](#)

| ID | Package | Detection |
|----|-----------|--------------------------|
| 3 | authority | state.rs:86:27 - 86:56 |
| 4 | authority | state.rs:116:27 - 116:56 |
| 5 | authority | state.rs:148:22 - 148:49 |
| 6 | authority | state.rs:167:22 - 167:49 |

| ID | Package | Detection |
|----|-----------|----------------------|
| 7 | authority | lib.rs:48:25 - 48:54 |

Error Handling

Unused Return Enum

Impact: Minor

Description: If any of the variants (Ok/Err) is not used, the code could be simplified or it could imply a bug

More about: [here](#)

| ID | Package | Detection |
|----|-----------|-----------------------|
| 8 | authority | lib.rs:269:9 - 269:15 |

MEV

Front Running

Impact: Medium

Description: The transferred amount should be checked against a minimum to prevent front-running

More about: [here](#)

| ID | Package | Detection |
|----|-----------|----------------------------|
| 1 | authority | resolver.rs:111:5 - 111:77 |
| 2 | authority | resolver.rs:152:5 - 152:77 |