

# Scout Report - 2025-09-27

## Summary

Crate	Status	Critical	Medium	Minor	Enhancement
authority	Analyzed	5	4	1	1
protocol	Analyzed	0	0	0	1
resolvers	Analyzed	0	0	0	0

### Issues found:

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

## 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

## 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

## Best Practices

### Storage Change Events

**Impact:** Enhancement

**Description:** Consider emitting an event when storage is modified

**More about:** [here](#)

ID	Package	Detection
0	protocol	lib.rs:141:5 - 141:104
9	authority	lib.rs:32:5 - 37:27

## 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

## 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
7	authority	lib.rs:48:25 - 48:54