Avrora token

Smart Contract Audit Report

SYSFIXED

06 Oct 2022

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
Avrora token	AVR	Binance Smart Chain

Addresses

Contract address	0xcfe90d9fcbee5b4fe05a1723c493483b08b1a77f
Contract deployer address	0xfb1ffb2CC4032df83E5961eeB539AA9F8EE9E9c9

Project Website

https://avrora-token.com/

Codebase

https://bscscan.com/address/0xcfe90d9fcbee5b4fe05a1723c493483b08b1a77f#code

SUMMARY

AVRORA IS A DAO PROJECT DAO - Decentralized Autonomous Organization DAO is a fully automated business structure, which is managed not only by the headquarters of top managers but also by the participants.

▌Contract Summary

Documentation Quality

Avrora token provides a very good documentation with standard of solidity base code.

- The technical description is provided clearly and structured and also dont have any high risk issue.

Code Quality

The Overall quality of the basecode is standard.

- Standard solidity basecode and rules are already followed by Avrora token with the discovery of several low issues.

Test Coverage

Test coverage of the project is 100% (Through Codebase)

▌Audit Findings Summary

- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 30, 44, 59, 60, 73, 85, 100, 114, 128, 142, 158, 181, 204, 230, 563, 586, 619, 621, 642, 643, 690, 769, 770, 771, 772, 773, 774, 787 and 789.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 10, 240, 267, 352, 382 and 738.

CONCLUSION

We have audited the Avrora token project released on October 2022 to discover issues and identify potential security vulnerabilities in the Avrora token Project. This process is used to find technical issues and security loopholes which might be found in the smart contract.

The security audit report provides satisfactory results with low-risk issues.

The issues found in the Avrora token smart contract code do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issues are some arithmetic operation issues, and a floating pragma is set. The current pragma Solidity directive is ""^0.8.0"." Specifying a fixed compiler version is recommended to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

AUDIT RESULT

Article	Category	Description	Result
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.	PASS
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	ISSUE FOUND
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	ISSUE FOUND
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	PASS
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.	PASS
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	PASS
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	PASS
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.	PASS
Assert Violation	SWC-110 SWC-123	Properly functioning code should never reach a failing assert statement.	PASS
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	PASS
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.	PASS

DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	PASS
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	PASS
Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	PASS
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	PASS
Signature Unique ID	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id.	PASS
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	PASS
Shadowing State Variable	SWC-119	State variables should not be shadowed.	PASS
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	PASS
Write to Arbitrary Storage Location	SWC-124	The contract is responsible for ensuring that only authorized user or contract accounts may write to sensitive storage locations.	PASS
Incorrect Inheritance Order	SWC-125	When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/.	PASS
Insufficient Gas Griefing	SWC-126	Insufficient gas griefing attacks can be performed on contracts which accept data and use it in a sub-call on another contract.	PASS
Arbitrary Jump Function	SWC-127	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	PASS

Typographical Error	SWC-129	A typographical error can occur for example when the intent of a defined operation is to sum a number to a variable.	PASS
Override control character	SWC-130	Malicious actors can use the Right-To-Left-Override unicode character to force RTL text rendering and confuse users as to the real intent of a contract.	PASS
Unused variables	SWC-131 SWC-135	Unused variables are allowed in Solidity and they do not pose a direct security issue.	PASS
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	PASS
Hash Collisions Variable	SWC-133	Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	PASS
Hardcoded gas amount	SWC-134	The transfer() and send() functions forward a fixed amount of 2300 gas.	PASS
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	PASS

SMART CONTRACT ANALYSIS

Started	Wednesday Oct 05 2022 03:02:20 GMT+0000 (Coordinated Universal Time)
Finished	Thursday Oct 06 2022 09:00:53 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	AVR.sol

Detected Issues

ID	Title	Severity	Status
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged

SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-=" DISCOVERED	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
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SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 30

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
29    unchecked {
30    uint256 c = a + b;
31    if (c < a) return (false, 0);
32    return (true, c);
33    }
34
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 44

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
43    if (b > a) return (false, 0);
44    return (true, a - b);
45    }
46    }
47
48
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 59

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
58    if (a == 0) return (true, 0);
59    uint256 c = a * b;
60    if (c / a != b) return (false, 0);
61    return (true, c);
62    }
63
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 60

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
59   uint256 c = a * b;
60   if (c / a != b) return (false, 0);
61   return (true, c);
62   }
63   }
64
```

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SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 73

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
72    if (b == 0) return (false, 0);
73    return (true, a / b);
74    }
75    }
76
77
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED
LINE 85

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
84    if (b == 0) return (false, 0);
85    return (true, a % b);
86    }
87    }
88
89
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 100

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
99    function add(uint256 a, uint256 b) internal pure returns (uint256) {
100    return a + b;
101   }
102
103   /**
104
```

SYSFIXED

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 114

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
113    function sub(uint256 a, uint256 b) internal pure returns (uint256) {
114    return a - b;
115    }
116
117    /**
118
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 128

low SEVERITY
This plugin produces issues to support false positive discovery within mythril.

Source File
- AVR.sol

Locations

```
127    function mul(uint256 a, uint256 b) internal pure returns (uint256) {
128    return a * b;
129    }
130
131    /**
132
```

SYSFIXED

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 142

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
141    function div(uint256 a, uint256 b) internal pure returns (uint256) {
142    return a / b;
143    }
144
145    /**
146
```

SYSFIXED

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED
LINE 158

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
157    function mod(uint256 a, uint256 b) internal pure returns (uint256) {
158    return a % b;
159    }
160
161    /**
162
```

SYSFIXED

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 181

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
180    require(b <= a, errorMessage);
181    return a - b;
182    }
183    }
184
185
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 204

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
203    require(b > 0, errorMessage);
204    return a / b;
205    }
206    }
207
208
```

SYSFIXED

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED
LINE 230

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
229    require(b > 0, errorMessage);
230    return a % b;
231    }
232    }
233    }
234
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 563

low SEVERITY
This plugin produces issues to support false positive discovery within mythril.

Source File
- AVR.sol

Locations

```
562    address owner = _msgSender();
563    _approve(owner, spender, allowance(owner, spender) + addedValue);
564    return true;
565    }
566
567
```

SYSFIXED

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 586

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
585   unchecked {
586   _approve(owner, spender, currentAllowance - subtractedValue);
587   }
588
589   return true;
590
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 619

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
618   unchecked {
619   _balances[from] = fromBalance - amount;
620   }
621   _balances[to] += amount;
622
623
```

SYSFIXED

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED
LINE 621

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
620   }
621   _balances[to] += amount;
622
623   emit Transfer(from, to, amount);
624
625
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED
LINE 642

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
641
642    _totalSupply += amount;
643    _balances[account] += amount;
644    emit Transfer(address(0), account, amount);
645
646
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED
LINE 643

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
642    _totalSupply += amount;
643    _balances[account] += amount;
644    emit Transfer(address(0), account, amount);
645
646    _afterTokenTransfer(address(0), account, amount);
647
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 690

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
689    unchecked {
690    _approve(owner, spender, currentAllowance - amount);
691    }
692    }
693    }
694
```

SYSFIXED

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 769

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
768
769    _mint(_withdrawalsContractAddress, 345*1e23); // 34 500 000 AVR
770    _mint(teamRevenue_, 55*1e23); // 5 500 000*1e18 AVR
771    _mint(marketingWithdrawal_, 45*1e23); // 4 500 000 AVR
772    _mint(liquidWithdrawal_, 24*1e23); // 2 400 000 AVR
773
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 770

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
769    _mint(_withdrawalsContractAddress, 345*1e23); // 34 500 000 AVR
770    _mint(teamRevenue_, 55*1e23); // 5 500 000*1e18 AVR
771    _mint(marketingWithdrawal_, 45*1e23); // 4 500 000 AVR
772    _mint(liquidWithdrawal_, 24*1e23); // 2 400 000 AVR
773    _mint(firstEOALiquidWithdrawal_, 1*1e23); // 100 000 AVR
774
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 771

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
770    _mint(teamRevenue_, 55*1e23); // 5 500 000*1e18 AVR
771    _mint(marketingWithdrawal_, 45*1e23); // 4 500 000 AVR
772    _mint(liquidWithdrawal_, 24*1e23); // 2 400 000 AVR
773    _mint(firstEOALiquidWithdrawal_, 1*1e23); // 100 000 AVR
774    _mint(reserveWithdrawal_, 30*1e23); // 3 000 000 AVR
775
```

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SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 772

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
771    _mint(marketingWithdrawal_, 45*1e23); // 4 500 000 AVR
772    _mint(liquidWithdrawal_, 24*1e23); // 2 400 000 AVR
773    _mint(firstEOALiquidWithdrawal_, 1*1e23); // 100 000 AVR
774    _mint(reserveWithdrawal_, 30*1e23); // 3 000 000 AVR
775    }
776
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 773

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
772    _mint(liquidWithdrawal_, 24*1e23); // 2 400 000 AVR
773    _mint(firstEOALiquidWithdrawal_, 1*1e23); // 100 000 AVR
774    _mint(reserveWithdrawal_, 30*1e23); // 3 000 000 AVR
775    }
776
777
```

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SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 774

low SEVERITY
This plugin produces issues to support false positive discovery within mythril.

Source File
- AVR.sol

Locations

```
773    _mint(firstEOALiquidWithdrawal_, 1*1e23); // 100 000 AVR
774    _mint(reserveWithdrawal_, 30*1e23); // 3 000 000 AVR
775    }
776
777    function burn(uint256 amount) public returns(bool) {
778
```

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SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 787

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
786
787   _balances[msg.sender] = accountBalance - amount.div(100).mul(91);
788
789   _totalSupply -= amount.div(100).mul(91);
790
791
```

SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED
LINE 789

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AVR.sol

Locations

```
788
789   _totalSupply -= amount.div(100).mul(91);
790
791   // Send 9% to withdrawals smart contract
792   transfer(_withdrawalsContractAddress, amount.div(100).mul(9));
793
```

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SWC-103 | A FLOATING PRAGMA IS SET.
LINE 10

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- AVR.sol

Locations

```
9
10   pragma solidity ^0.8.0;
11
12   // CAUTION
13   // This version of SafeMath should only be used with Solidity 0.8 or later,
14
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 240

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- AVR.sol

Locations

```
239
240   pragma solidity ^0.8.0;
241
242   /**
243   * @dev Provides information about the current execution context, including the
244
```

SWC-103 | A FLOATING PRAGMA IS SET.
LINE 267

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- AVR.sol

Locations

```
266
267    pragma solidity ^0.8.0;
268
269    /**
270    * @dev Interface of the ERC20 standard as defined in the EIP.
271
```

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SWC-103 | A FLOATING PRAGMA IS SET.
LINE 352

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- AVR.sol

Locations

```
351
352   pragma solidity ^0.8.0;
353
354
355   /**
356
```

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SWC-103 | A FLOATING PRAGMA IS SET.
LINE 382

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- AVR.sol

Locations

```
381
382    pragma solidity ^0.8.0;
383
384
385
386
```

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SWC-103 | A FLOATING PRAGMA IS SET.
LINE 738

low SEVERITY

The current pragma Solidity directive is ""^0.8.7"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- AVR.sol

Locations

```
737
738   pragma solidity ^0.8.7;
739
740
741   //    ,adPPYYba, 88        88 8b,dPPYba,  ,adPPYba,  8b,dPPYba, ,adPPYYba,
742
```

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