Super Launcher

Smart Contract Audit Report

SYSFIXED

07 Apr 2021

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
Super Launcher	LAUNCH	Binance Smart Chain

Addresses

Contract address	0xb5389a679151c4b8621b1098c6e0961a3cfee8d4
Contract deployer address	0xb5389A679151C4b8621b1098C6E0961A3CFEe8d4

Project Website

https://superlauncher.io/

Codebase

https://bscscan.com/address/0xb5389a679151c4b8621b1098c6e0961a3cfee8d4#code

SUMMARY

Welcome to the new age of funding. Join the revolution to make capital distributed. We are an investment DAO that funds and collaborates with projects to shape the future of blockchain. We facilitate mass participation in Seed/Private/IDO rounds through our smart contract architecture and offer a feature-rich platform that powers flexible and decentralized management of capital.

Contract Summary

Documentation Quality

Super Launcher 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 Super Launcher with the discovery of several low issues.

Test Coverage

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

Audit Findings Summary

- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 9, 200, 278, 494, 574, 602, 911, 981 and 1039.

CONCLUSION

We have audited the Super Launcher project released on April 2021 to discover issues and identify potential security vulnerabilities in Super Launcher 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 Super Launcher 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 issue found is a floating pragma is set. The current pragma Solidity directive is "">=0.6.20.8.0"." 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.	PASS
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	Tuesday Apr 06 2021 02:35:40 GMT+0000 (Coordinated Universal Time)
Finished	Wednesday Apr 07 2021 02:53:23 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	SuperLauncherToken.sol

Detected Issues

ID	Title	Severity	Status
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
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SWC-103 | A FLOATING PRAGMA IS SET.

LINE 9

low SEVERITY

The current pragma Solidity directive is "">=0.6.2<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

- SuperLauncherToken.sol

Locations

```
8
9   pragma solidity >=0.6.2 <0.8.0;
10
11   /**
12   * @dev Collection of functions related to the address type
13
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 200

low SEVERITY

The current pragma Solidity directive is "">=0.6.0<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

- SuperLauncherToken.sol

Locations

```
199
200   pragma solidity >=0.6.0 <0.8.0;
201
202
203
204
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 278

low SEVERITY

The current pragma Solidity directive is "">=0.6.0<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

- SuperLauncherToken.sol

Locations

```
277
278   pragma solidity >=0.6.0 <0.8.0;
279
280   /**
281   * @dev Wrappers over Solidity's arithmetic operations with added overflow
282
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 494

low SEVERITY

The current pragma Solidity directive is "">=0.6.0<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

- SuperLauncherToken.sol

Locations

```
493
494    pragma solidity >=0.6.0 <0.8.0;
495
496    /**
497    * @dev Interface of the ERC20 standard as defined in the EIP.
498
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 574

low SEVERITY

The current pragma Solidity directive is "">=0.6.0<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

- SuperLauncherToken.sol

Locations

```
573
574   pragma solidity >=0.6.0 <0.8.0;
575
576   /*
577   * @dev Provides information about the current execution context, including the
578
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 602

low SEVERITY

The current pragma Solidity directive is "">=0.6.0<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

- SuperLauncherToken.sol

Locations

```
601
602   pragma solidity >=0.6.0 <0.8.0;
603
604
605
606
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 911

low SEVERITY

The current pragma Solidity directive is "">=0.6.0<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

- SuperLauncherToken.sol

Locations

```
910
911   pragma solidity >=0.6.0 <0.8.0;
912
913   /**
914   * @dev Contract module which provides a basic access control mechanism, where
915
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 981

low SEVERITY

The current pragma Solidity directive is "">=0.6.0<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

- SuperLauncherToken.sol

Locations

```
980
981   pragma solidity >=0.6.0 <0.8.0;
982
983
984
985
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 1039

low SEVERITY

The current pragma Solidity directive is ""^0.6.0"". 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

- SuperLauncherToken.sol

Locations

```
1038
1039   pragma solidity ^0.6.0;
1040
1041
1042
1043
```

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ABOUT US

Sysfixed is a blockchain security certification organization established in 2021 with the objective to provide smart contract security services and verify their correctness in blockchain-based protocols. Sysfixed automatically scans for security vulnerabilities in Ethereum and other EVM-based blockchain smart contracts. Sysfixed a comprehensive range of analysis techniques—including static analysis, dynamic analysis, and symbolic execution—can accurately detect security vulnerabilities to provide an in-depth analysis report. With a vibrant ecosystem of world-class integration partners that amplify developer productivity, Sysfixed can be utilized in all phases of your project's lifecycle. Our team of security experts is dedicated to the research and improvement of our tools and techniques used to fortify your code.