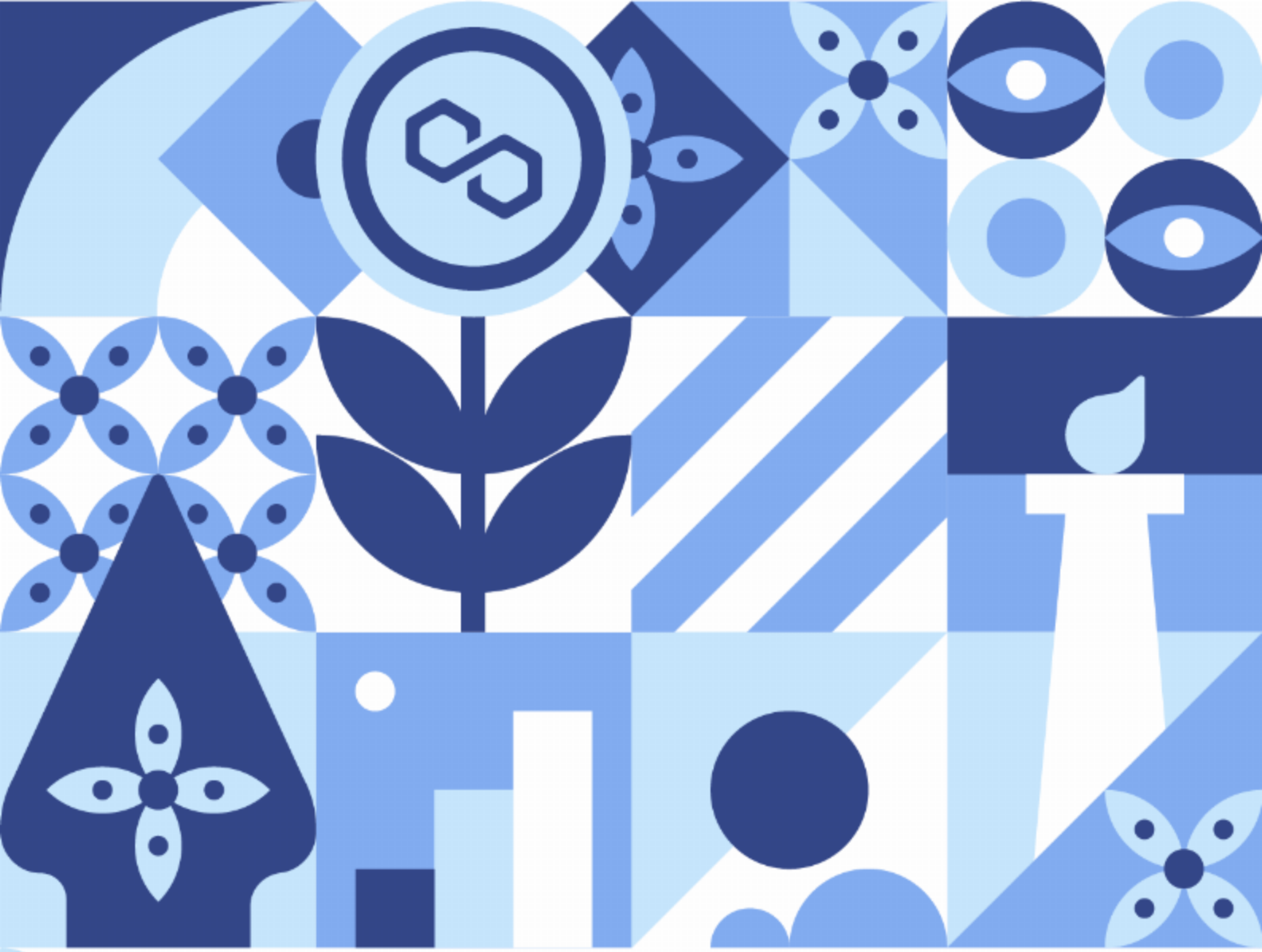

Gelato Network Token

Smart Contract Audit Report

SYSFIXED

12 May 2022

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
Gelato Network Token	GEL	Polygon Matic

Addresses

Contract address	0x15b7c0c907e4C6b9AdaAaabC300C08991D6CEA05
Contract deployer address	0x6404aBbba1921267A7D8199300973FeF7DBb0b3a

Project Website

https://www.gelato.network/

Codebase

https://polygonscan.com/address/0x15b7c0c907e4C6b9AdaAaabC300C08991D6CEA05#code

SUMMARY

Gelato is web3's decentralized backend empowering builders to create augmented intelligent contracts that are automated, gasless & off-chain aware on all major EVM-compatible blockchains, including Ethereum, Polygon, Fantom, Arbitrum, BNB Chain, Optimism, and many more. Gelato currently offers two primary services: Automate: Automate your innovative contract executions in a reliable, developer-friendly & decentralized manner while leveraging off-chain data. Relay: Give your users access to reliable, robust, and fast gasless transactions. Using Gelato, we provide you with stellar DevX and UX when you outsource intelligent contract automation and relaying so that you can solely focus on building your core product for your users. Leading web3 projects have relied on Gelato for years to power the execution of millions of transactions across DeFi, NFT, and Gaming.

Contract Summary

Documentation Quality

Gelato Network Token provides a very poor documentation with standard of solidity base code.

- The technical description is provided unclear and disorganized.

Code Quality

The Overall quality of the basecode is poor.

- Solidity basecode and rules are unclear and disorganized by Gelato Network Token.

Test Coverage

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

Audit Findings Summary

- SWC-104 | It is recommended to use handle at low-level call methods on lines 55.
- SWC-110 SWC-123 | It is recommended to use of revert(), assert(), and require() in Solidity, and the new REVERT opcode in the EVM on lines 33.
- SWC-112 | Use delegatecall with caution and make sure to never call into untrusted contracts on lines 33 and 78.

CONCLUSION

We have audited the Gelato Network Token project released in May 2021 to find issues and identify potential security vulnerabilities in the Gelato Network Token project. This process is used to find technical issues and security loopholes that may be found in smart contracts.

The security audit report yielded unsatisfactory results, discovering high-risk and low-risk issues.

Writing a contract that does not follow the Solidity style guide can pose a significant risk. The serious and low problems we found in the smart contract are the contract delegates execution to another contract with a user-supplied address., and low-risk issue requirement violation. The smart contract delegates execution to a user-supplied address. This could allow an attacker to execute arbitrary code in the context of this contract account and manipulate the state of the contract account or execute actions on its behalf. A requirement was violated in a nested call, and the call was reverted. Ensure valid inputs are provided to the nested call (for instance, via passed arguments).

We were recommended to keep being aware of investing in this risky smart contract.

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.	PASS
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	ISSUE FOUND
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.	ISSUE FOUND
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.	ISSUE FOUND

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 May 11 2022 02:22:01 GMT+0000 (Coordinated Universal Time)
Finished	Thursday May 12 2022 05:09:58 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	EIP173Proxy.sol

Detected Issues

ID	Title	Severity	Status
SWC-112	THE CONTRACT DELEGATES EXECUTION TO ANOTHER CONTRACT WITH A USER-SUPPLIED ADDRESS.	high	acknowledged
SWC-112	THE CONTRACT DELEGATES EXECUTION TO ANOTHER CONTRACT WITH A USER-SUPPLIED ADDRESS.	high	acknowledged
SWC-104	UNCHECKED RETURN VALUE FROM EXTERNAL CALL.	medium	acknowledged
SWC-123	REQUIREMENT VIOLATION.	low	acknowledged

SWC-112 | THE CONTRACT DELEGATES EXECUTION TO ANOTHER CONTRACT WITH A USER-SUPPLIED ADDRESS.

LINE 33

high SEVERITY

The smart contract delegates execution to a user-supplied address.This could allow an attacker to execute arbitrary code in the context of this contract account and manipulate the state of the contract account or execute actions on its behalf.

Source File

- EIP173Proxy.sol

Locations

```
32   function proxyAdmin() external view returns (address) {
33   return _proxyAdmin();
34   }
35
36   function supportsInterface(bytes4 id) external view returns (bool) {
37
```

SWC-112 | THE CONTRACT DELEGATES EXECUTION TO ANOTHER CONTRACT WITH A USER-SUPPLIED ADDRESS.

LINE 78

high SEVERITY

The smart contract delegates execution to a user-supplied address.This could allow an attacker to execute arbitrary code in the context of this contract account and manipulate the state of the contract account or execute actions on its behalf.

Source File

- EIP173Proxy.sol

Locations

```
77
78   // ////////////////////// MODIFIERS
////////////////////////////////////////////////////////////////////////
79
80   modifier onlyProxyAdmin() {
81   require(msg.sender == _proxyAdmin(), "NOT_AUTHORIZED");
82
```

SWC-104 | UNCHECKED RETURN VALUE FROM EXTERNAL CALL.

LINE 55

medium SEVERITY

External calls return a boolean value. If the callee halts with an exception, 'false' is returned and execution continues in the caller. The caller should check whether an exception happened and react accordingly to avoid unexpected behavior. For example it is often desirable to wrap external calls in require() so the transaction is reverted if the call fails.

Source File

- EIP173Proxy.sol

Locations

```
54   // In practise this is unlikely to be an issue.
55   try implementation.supportsInterface(id) returns (bool support) {
56   return support;
57   } catch {
58   return false;
59
```

SWC-123 | REQUIREMENT VIOLATION.

LINE 33

low SEVERITY

A requirement was violated in a nested call and the call was reverted as a result. Make sure valid inputs are provided to the nested call (for instance, via passed arguments).

Source File

- EIP173Proxy.sol

Locations

```
32   function proxyAdmin() external view returns (address) {
33   return _proxyAdmin();
34   }
35
36   function supportsInterface(bytes4 id) external view returns (bool) {
37
```

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This is a limited report on our findings based on our analysis, in accordance with good industry practice as of the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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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.