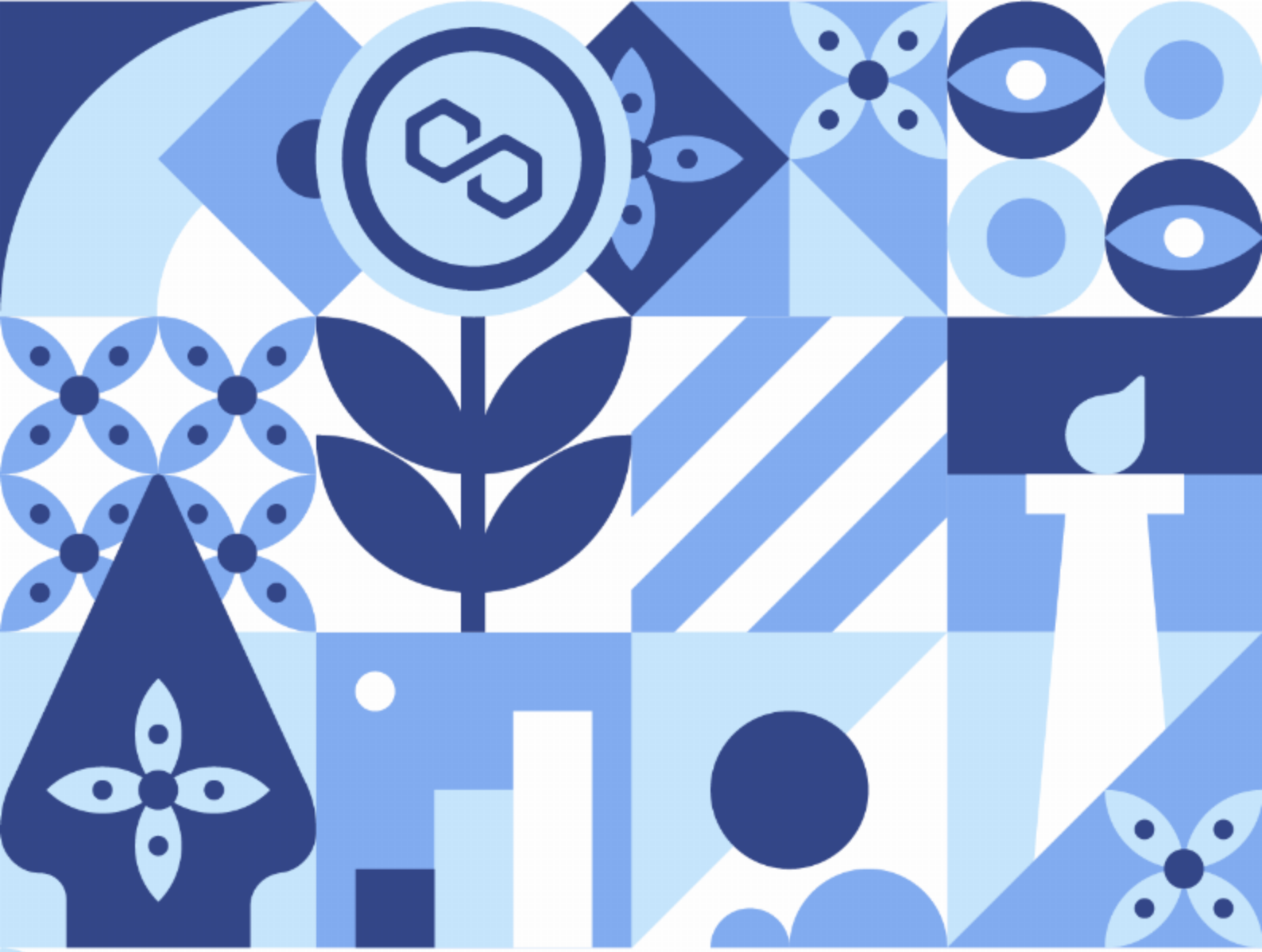

Permission Token

Smart Contract Audit Report

SYSFIXED

20 Apr 2022

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
Permission Token	ASK	Polygon Matic

Addresses

Contract address	0xaA3717090CDDc9B227e49d0D84A28aC0a996e6Ff
Contract deployer address	0x8740c9f6F60907382E712587bF19B6c27bAaC983

Project Website

https://permission.io/

Codebase

https://polygonscan.com/address/0xaA3717090CDDc9B227e49d0D84A28aC0a996e6Ff#code

SUMMARY

“ASK” is the currency for permission. Its primary use case is to power a new Web3 advertising paradigm built on permission data and opt-in engagement. The project aims to offer an antidote to some of the most significant problems of Web 2.0 - surveillance capitalism, data exploitation, and interruptive marketing - by enabling users to securely grant permission and monetize their data across the web while providing an enterprise solution for marketers seeking a better return on their ad spend.

Contract Summary

Documentation Quality

Permission 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 Permission Token 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 11, 39, 70, 140, 231, 258, 483, 568, 598, 983 and 1022.

CONCLUSION

We have audited the Permission Token project released in April 2022 to discover issues and identify potential security vulnerabilities in Permission 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 Permission 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 issue found is a floating pragma is set. 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 19 2022 10:25:59 GMT+0000 (Coordinated Universal Time)
Finished	Wednesday Apr 20 2022 23:46:18 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	MyToken.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
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
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SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 11

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

- MyToken.sol

Locations

```
10
11   pragma solidity ^0.8.0;
12
13   /**
14   * @dev Interface of the ERC165 standard, as defined in the
15
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 39

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

- MyToken.sol

Locations

```
38
39   pragma solidity ^0.8.0;
40
41
42   /**
43
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 70

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

- MyToken.sol

Locations

```
69
70   pragma solidity ^0.8.0;
71
72   /**
73   * @dev String operations.
74
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 140

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

- MyToken.sol

Locations

```
139
140   pragma solidity ^0.8.0;
141
142   /**
143   * @dev External interface of AccessControl declared to support ERC165 detection.
144
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 231

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

- MyToken.sol

Locations

```
230
231   pragma solidity ^0.8.0;
232
233   /**
234   * @dev Provides information about the current execution context, including the
235
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 258

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

- MyToken.sol

Locations

```
257
258   pragma solidity ^0.8.0;
259
260
261
262
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 483

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

- MyToken.sol

Locations

```
482
483   pragma solidity ^0.8.0;
484
485   /**
486   * @dev Interface of the ERC20 standard as defined in the EIP.
487
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 568

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

- MyToken.sol

Locations

```
567
568   pragma solidity ^0.8.0;
569
570
571   /**
572
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 598

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

- MyToken.sol

Locations

```
597
598   pragma solidity ^0.8.0;
599
600
601
602
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 983

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

- MyToken.sol

Locations

```
982
983   pragma solidity ^0.8.0;
984
985
986
987
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 1022

low SEVERITY

The current pragma Solidity directive is ""^0.8.2"". 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

- MyToken.sol

Locations

```
1021
1022   pragma solidity ^0.8.2;
1023
1024
1025
1026
```

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