



OkLetsPlay

Smart Contract Audit Report

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
OkLetsPlay	OKLP	Polygon Matic

Addresses

Contract address	0x5d48a5e5a3e737322ae27e25897f1c9e19ecc941
Contract deployer address	0xe72c3D53976471A2405DDbD3b0074673fB1Effd9

Project Website

https://okletsplay.com/

Codebase

https://polygonscan.com/address/0x5d48a5e5a3e737322ae27e25897f1c9e19ecc941#code

SUMMARY

OkLetsPlay Patented eSports tournament platform for traditional skill-based PC, mobile, and console video games and blockchain games.

| Contract Summary

Documentation Quality

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

- The technical description is provided clearly and structured and also don't have any high risk issue.

Code Quality

The Overall quality of the basecode is standard.

- Standard solidity basecode and rules are already followed by OkLetsPlay 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 300, 319, 341, 374, 376, 397, 398, 423 and 425.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 11, 94, 121, 146 and 501.

CONCLUSION

We have audited the OkLetsPlay project released on November 2021 to discover issues and identify potential security vulnerabilities in OkLetsPlay 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 OkLetsPlay 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. 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.

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 grieving 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	Thursday Nov 18 2021 18:14:22 GMT+0000 (Coordinated Universal Time)
Finished	Friday Nov 19 2021 16:41:46 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	OKLPToken.sol

Detected Issues

[illegible]

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 300

low SEVERITY

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

Source File

- OKLPToken.sol

Locations

```
299     unchecked {  
300         _approve(sender, _msgSender(), currentAllowance - amount);  
301     }  
302  
303     return true;  
304
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 319

low SEVERITY

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

Source File

- OKLPToken.sol

Locations

```
318     function increaseAllowance(address spender, uint256 addedValue) public virtual
returns (bool) {
319     _approve(_msgSender(), spender, _allowances[_msgSender()][spender] + addedValue);
320     return true;
321 }
322
323
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 341

low SEVERITY

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

Source File

- OKLPToken.sol

Locations

```
340     unchecked {  
341         _approve(_msgSender(), spender, currentAllowance - subtractedValue);  
342     }  
343  
344     return true;  
345
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 374

low SEVERITY

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

Source File

- OKLPToken.sol

Locations

```
373     unchecked {  
374         _balances[sender] = senderBalance - amount;  
375     }  
376     _balances[recipient] += amount;  
377  
378
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 376

low SEVERITY

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

Source File

- OKLPToken.sol

Locations

```
375     }  
376     _balances[recipient] += amount;  
377  
378     emit Transfer(sender, recipient, amount);  
379  
380
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 397

low SEVERITY

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

Source File

- OKLPToken.sol

Locations

```
396
397  _totalSupply += amount;
398  _balances[account] += amount;
399  emit Transfer(address(0), account, amount);
400
401
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 398

low SEVERITY

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

Source File

- OKLPToken.sol

Locations

```
397 _totalSupply += amount;
398 _balances[account] += amount;
399 emit Transfer(address(0), account, amount);
400
401 _afterTokenTransfer(address(0), account, amount);
402
```


SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 423

low SEVERITY

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

Source File

- OKLPToken.sol

Locations

```
422     unchecked {  
423         _balances[account] = accountBalance - amount;  
424     }  
425     _totalSupply -= amount;  
426  
427
```

SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 425

low SEVERITY

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

Source File

- OKLPToken.sol

Locations

```
424     }  
425     _totalSupply -= amount;  
426  
427     emit Transfer(account, address(0), amount);  
428  
429
```

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

- OKLPToken.sol

Locations

```
10
11  pragma solidity ^0.8.0;
12
13  /**
14   * @dev Interface of the ERC20 standard as defined in the EIP.
15
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 94

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

- OKLPToken.sol

Locations

```
93
94  pragma solidity ^0.8.0;
95
96  /**
97   * @dev Interface for the optional metadata functions from the ERC20 standard.
98
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 121

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

- OKLPToken.sol

Locations

```
120
121  pragma solidity ^0.8.0;
122
123  /**
124   * @dev Provides information about the current execution context, including the
125
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 146

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

- OKLPToken.sol

Locations

```
145
146  pragma solidity ^0.8.0;
147
148
149
150
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 501

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

- OKLPToken.sol

Locations

```
500
501  pragma solidity ^0.8.0;
502
503  contract OKLPToken is ERC20 {
504
505
```

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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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