DRacing Project

Smart Contract Audit Report

SYSFIXED

06 Jan 2023

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
DRacing Project	DWR	Binance Smart Chain

Addresses

Contract address	0xD34C7CAE2475F3d87BFB72C39496d481f74E3BDB
Contract deployer address	0x5FA6A510f77B029B71E0741A61FD07aAE8a48F06

Project Website

https://dexwallet.info/

Codebase

https://bscscan.com/address/0xD34C7CAE2475F3d87BFB72C39496d481f74E3BDB#code

SUMMARY

DRacing project ($DWR) is a utility project of DexWallet Ecosystem. $DWT presale has already ended & $DWT token is now at 4X pump. DRacing Project ($DWR) is a P2E project where users can earn money by playing racing games. $DWR will use for NFT upgrade level up car repairing fee and many more. DexWallet available in App-Store & Play-Store

Contract Summary

Documentation Quality

Dracing Project 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 Dracing Project with the discovery of several low issues.

Test Coverage

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

Audit Findings Summary

- SWC-100 SWC-108 | Explicitly define visibility for all state variables on lines 371.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 21, 26, 33, 38, 374, 374, 392 and 392.
- 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 535, 536, 559 and 560.

CONCLUSION

We have audited the Dracing project released on January 2023 to discover issues and identify potential security vulnerabilities in Dracing 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 a satisfactory result with some low-risk issues.

The issues found in the Dracing Project 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 found are some arithmetic operation issues, a state variable visibility is not set and out of bounds array access which the index access expression can cause an exception in case of the use of an invalid array index value.

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

SMART CONTRACT ANALYSIS

Started	Thursday Jan 05 2023 16:57:38 GMT+0000 (Coordinated Universal Time)
Finished	Friday Jan 06 2023 03:41:04 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	DRacingProject.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-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 21

low SEVERITY

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

Source File

- DRacingProject.sol

Locations

```
20   }
21
22   function _msgData() internal view virtual returns (bytes calldata) {
23   this; // silence state mutability warning without generating bytecode - see
https://github.com/ethereum/solidity/issues/2691
24   return msg.data;
25
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 26

low SEVERITY

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

Source File

- DRacingProject.sol

Locations

```
25   }
26   }
27
28   interface IBEP20 {
29   function totalSupply() external view returns (uint256);
30
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 33

low SEVERITY

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

Source File

- DRacingProject.sol

Locations

```
32
33   function transfer(address recipient, uint256 amount)
34   external
35   returns (bool);
36
37
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 38

low SEVERITY

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

Source File

- DRacingProject.sol

Locations

```
37   function allowance(address owner, address spender)
38   external
39   view
40   returns (uint256);
41
42
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 374

low SEVERITY

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

Source File

- DRacingProject.sol

Locations

```
373   address private _owner;
374
375   event OwnershipTransferred(
376   address indexed previousOwner,
377   address indexed newOwner
378
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 374

low SEVERITY

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

Source File

- DRacingProject.sol

Locations

```
373   address private _owner;
374
375   event OwnershipTransferred(
376   address indexed previousOwner,
377   address indexed newOwner
378
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 392

low SEVERITY

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

Source File

- DRacingProject.sol

Locations

```
391   }
392
393   function renounceOwnership() public virtual onlyOwner {
394   _setOwner(address(0));
395   }
396
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 392

low SEVERITY

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

Source File

- DRacingProject.sol

Locations

```
391   }
392
393   function renounceOwnership() public virtual onlyOwner {
394   _setOwner(address(0));
395   }
396
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 371

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "inSwapAndLiquify" is internal. Other possible visibility settings are public and private.

Source File

- DRacingProject.sol

Locations

```
370   }
371
372   abstract contract Ownable is Context {
373   address private _owner;
374
375
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 535

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- DRacingProject.sol

Locations

```
534
535   function increaseAllowance(address spender, uint256 addedValue)
536   public
537   override
538   returns (bool)
539
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 536

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- DRacingProject.sol

Locations

```
535   function increaseAllowance(address spender, uint256 addedValue)
536   public
537   override
538   returns (bool)
539   {
540
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 559

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- DRacingProject.sol

Locations

```
558   _approve(_msgSender(), spender, currentAllowance - subtractedValue);
559
560   return true;
561   }
562
563
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 560

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- DRacingProject.sol

Locations

```
559
560   return true;
561   }
562
563   function transfer(address recipient, uint256 amount)
564
```

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