

# BARFIGHT Smart Contract Audit Report



21 Sep 2022



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# AUDITED DETAILS

### Audited Project

Project name	Token ticker	Blockchain	
BARFIGHT	BFIGHT	Ethereum	

### Addresses

Contract address	0x6b91b72931993449fecC9d590D0d786a41588b1E
Contract deployer address	0xBE5f757b4c1dd913e9cD3a0CaD0F68C3DE62b6dD

### Project Website

#### https://barfight.io/

### Codebase

https://etherscan.io/address/0x6b91b72931993449fecC9d590D0d786a41588b1E#code



# SUMMARY

\$BFIGHT token is set to take the metaverse market by storm. This is virtual barfights! Design your patron's attire whether it be a wife beater singlet or suit, select your weapon of choice from bottles to tasers and get swinging – winner takes all!

### Contract Summary

#### **Documentation Quality**

BARFIGHT 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 BARFIGHT 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 1093 and 1101.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 274, 286, 303, 304, 320, 334, 348, 362, 375, 384, 400, 421, 445, 476, 861, 877, 902, 935, 936, 957, 958, 981, 983, 1093, 1093, 1093, 1095, 1095, 1095, 1097, 1099, 1099, 1099, 1099, 1100, 1100, 1100, 1100, 1180, 1180, 1180, 1181, 1247, 1290, 1303, 1328, 1328, 1332, 1332, 1333, 1334, 1337, 1339, 1364, 1365, 1370, 1407 and 1421.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 25, 80, 106, 202, 254, 477, 508, 592, 677, 703 and 1070.
- 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 1248, 1473 and 1474.



# CONCLUSION

We have audited the BARFIGHT project released on September 2022 to discover issues and identify potential security vulnerabilities in BARFIGHT 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 BARFIGHT 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 floating pragma is set, 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.	
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.	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.	PASS



DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.		
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.		
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.		
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.		
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.		
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/.		
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.	
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.	
Unused variables	SWC-131 SWC-135	Unused variables are allowed in Solidity and they do not pose a direct security issue.	
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	
Hash Collisions Variable	SWC-133	Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	
Hardcoded gas amount	SWC-134	The transfer() and send() functions forward a fixed amount of 2300 gas.	
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	



## **SMART CONTRACT ANALYSIS**

Started	Tuesday Sep 20 2022 16:23:39 GMT+0000 (Coordinated Universal Time)	
Finished	Wednesday Sep 21 2022 01:39:20 GMT+0000 (Coordinated Universal Time)	
Mode	Standard	
Main Source File	BFIGHT.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-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-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-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-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-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-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-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
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
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
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
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	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



**LINE 274** 

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
273 if (b > a) return (false, 0);
274 return (true, a - b);
275 }
276 }
277
278
```





**LINE 286** 

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
285 // Gas optimization: this is cheaper than requiring 'a' not being zero, but the
286 // benefit is lost if 'b' is also tested.
287 // See: https://github.com/OpenZeppelin/openzeppelin-contracts/pull/522
288 if (a == 0) return (true, 0);
289 uint256 c = a * b;
290
```



**LINE 303** 

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
302 if (b == 0) return (false, 0);
303 return (true, a / b);
304 }
305 }
306
307
```



### SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

**LINE 304** 

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations

303 return (true, a / b);
304 }
305 }
306
307 /\*\*
308



**LINE 320** 

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
319 /**
320 * @dev Returns the addition of two unsigned integers, reverting on
321 * overflow.
322 *
323 * Counterpart to Solidity's `+` operator.
324
```



**LINE 334** 

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations

333 /\*\*
334 \* @dev Returns the subtraction of two unsigned integers, reverting on
335 \* overflow (when the result is negative).
336 \*
337 \* Counterpart to Solidity's `-` operator.
338



**LINE 348** 

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
347 /**
348 * @dev Returns the multiplication of two unsigned integers, reverting on
349 * overflow.
350 *
351 * Counterpart to Solidity's `*` operator.
352
```



**LINE 362** 

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations

361 /\*\*
362 \* @dev Returns the integer division of two unsigned integers, reverting on
363 \* division by zero. The result is rounded towards zero.
364 \*
365 \* Counterpart to Solidity's `/` operator.
366



**LINE 375** 

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
374
375 /**
376 * @dev Returns the remainder of dividing two unsigned integers. (unsigned integer
modulo),
377 * reverting when dividing by zero.
378 *
379
```



**LINE 384** 

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations

383 \* Requirements: 384 \* 385 \* - The divisor cannot be zero. 386 \*/ 387 function mod(uint256 a, uint256 b) internal pure returns (uint256) { 388



**LINE 400** 

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations

399 \*
400 \* Requirements:
401 \*
402 \* - Subtraction cannot overflow.
403 \*/
404



**LINE 421** 

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations

420 \* `revert` opcode (which leaves remaining gas untouched) while Solidity 421 \* uses an invalid opcode to revert (consuming all remaining gas). 422 \* 423 \* Requirements: 424 \* 425



**LINE 445** 

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations

444 \*
445 \* Counterpart to Solidity's `%` operator. This function uses a `revert`
446 \* opcode (which leaves remaining gas untouched) while Solidity uses an
447 \* invalid opcode to revert (consuming all remaining gas).
448 \*
449



**LINE 476** 

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations

475 \* via msg.sender and msg.data, they should not be accessed in such a direct 476 \* manner, since when dealing with meta-transactions the account sending and 477 \* paying for execution may not be the actual sender (as far as an application 478 \* is concerned). 479 \* 480



**LINE 861** 

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations

860 \*
861 \* - `spender` cannot be the zero address.
862 \*/
863 function increaseAllowance(address spender, uint256 addedValue) public virtual
returns (bool) {
864 \_approve(\_msgSender(), spender, \_allowances[\_msgSender()][spender] + addedValue);
865



**LINE 877** 

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations

876 \* Requirements: 877 \* 878 \* - `spender` cannot be the zero address. 879 \* - `spender` must have allowance for the caller of at least 880 \* `subtractedValue`. 881



LINE 902

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations

901 \*
902 \* - `sender` cannot be the zero address.
903 \* - `recipient` cannot be the zero address.
904 \* - `sender` must have a balance of at least `amount`.
905 \*/
906



**LINE 935** 

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations

934 \*
935 \* - `account` cannot be the zero address.
936 \*/
937 function \_mint(address account, uint256 amount) internal virtual {
938 require(account != address(0), "ERC20: mint to the zero address");
939



**LINE 936** 

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations

935 \* - `account` cannot be the zero address. 936 \*/ 937 function \_mint(address account, uint256 amount) internal virtual { 938 require(account != address(0), "ERC20: mint to the zero address"); 939 940



**LINE 957** 

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations

956 \*
957 \* - `account` cannot be the zero address.
958 \* - `account` must have at least `amount` tokens.
959 \*/
960 function \_burn(address account, uint256 amount) internal virtual {
961



**LINE 958** 

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations

957 \* - `account` cannot be the zero address. 958 \* - `account` must have at least `amount` tokens. 959 \*/ 960 function \_burn(address account, uint256 amount) internal virtual { 961 require(account != address(0), "ERC20: burn from the zero address"); 962



**LINE 981** 

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
980 * This internal function is equivalent to `approve`, and can be used to
981 * e.g. set automatic allowances for certain subsystems, etc.
982 *
983 * Emits an {Approval} event.
984 *
985
```



**LINE 983** 

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
982 *
983 * Emits an {Approval} event.
984 *
985 * Requirements:
986 *
987
```



LINE 1093

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
1092
1093 address payable marketingWallet =
payable(address(0x393d8d86E8b5aB2D653A3A94364FC40f9DB97a65)); // MARKETING WALLET
1094
1095
1096
1097
```


LINE 1093

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
1092
1093 address payable marketingWallet =
payable(address(0x393d8d86E8b5aB2D653A3A94364FC40f9DB97a65)); // MARKETING WALLET
1094
1095
1096
1097
```



LINE 1093

## **Iow SEVERITY**

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## Source File

- BFIGHT.sol

```
1092
1093 address payable marketingWallet =
payable(address(0x393d8d86E8b5aB2D653A3A94364FC40f9DB97a65)); // MARKETING WALLET
1094
1095
1096
1097
```



LINE 1093

## **Iow SEVERITY**

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

## Source File

- BFIGHT.sol

```
1092
1093 address payable marketingWallet =
payable(address(0x393d8d86E8b5aB2D653A3A94364FC40f9DB97a65)); // MARKETING WALLET
1094
1095
1096
1097
```



LINE 1095

## **Iow SEVERITY**

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

## Source File

- BFIGHT.sol

#### Locations

1094
1095
1096
1097
1098 mapping(address => bool) private \_isExcludedFromFees;
1099



LINE 1095

## **Iow SEVERITY**

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

## Source File

- BFIGHT.sol

#### Locations

1094
1095
1096
1097
1098 mapping(address => bool) private \_isExcludedFromFees;
1099



LINE 1095

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations

1094
1095
1096
1097
1098 mapping(address => bool) private \_isExcludedFromFees;
1099



LINE 1097

## **Iow SEVERITY**

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

## Source File

- BFIGHT.sol

```
1096
1097
1098 mapping(address => bool) private _isExcludedFromFees;
1099 mapping(address => bool) private _isExcludedFromLimit;
1100 mapping(address => bool) public _isBlackListed;
1101
```



LINE 1099

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
1098 mapping(address => bool) private _isExcludedFromFees;
1099 mapping(address => bool) private _isExcludedFromLimit;
1100 mapping(address => bool) public _isBlackListed;
1101 bool isTradingEnabled;
1102
1103
```



LINE 1099

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
1098 mapping(address => bool) private _isExcludedFromFees;
1099 mapping(address => bool) private _isExcludedFromLimit;
1100 mapping(address => bool) public _isBlackListed;
1101 bool isTradingEnabled;
1102
1103
```



LINE 1099

## **Iow SEVERITY**

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

## Source File

- BFIGHT.sol

```
1098 mapping(address => bool) private _isExcludedFromFees;
1099 mapping(address => bool) private _isExcludedFromLimit;
1100 mapping(address => bool) public _isBlackListed;
1101 bool isTradingEnabled;
1102
1103
```



LINE 1099

## **Iow SEVERITY**

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

## Source File

- BFIGHT.sol

```
1098 mapping(address => bool) private _isExcludedFromFees;
1099 mapping(address => bool) private _isExcludedFromLimit;
1100 mapping(address => bool) public _isBlackListed;
1101 bool isTradingEnabled;
1102
1103
```



LINE 1100

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations



LINE 1100

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations



LINE 1100

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations



LINE 1100

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations



LINE 1180

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
1179 require(newAddress != address(uniswapV2Router), "TOKEN: The router already has
that address");
1180 uniswapV2Router = IUniswapV2Router02(newAddress);
1181 address get_pair =
1182 IUniswapV2Factory(uniswapV2Router.factory()).getPair(address(this),
1183 uniswapV2Router.WETH());
1184
```



LINE 1180

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
1179 require(newAddress != address(uniswapV2Router), "TOKEN: The router already has
that address");
1180 uniswapV2Router = IUniswapV2Router02(newAddress);
1181 address get_pair =
1182 IUniswapV2Factory(uniswapV2Router.factory()).getPair(address(this),
1183 uniswapV2Router.WETH());
1184
```



LINE 1180

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
1179 require(newAddress != address(uniswapV2Router), "TOKEN: The router already has
that address");
1180 uniswapV2Router = IUniswapV2Router02(newAddress);
1181 address get_pair =
1182 IUniswapV2Factory(uniswapV2Router.factory()).getPair(address(this),
1183 uniswapV2Router.WETH());
1184
```



LINE 1181

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
1180 uniswapV2Router = IUniswapV2Router02(newAddress);
1181 address get_pair =
1182 IUniswapV2Factory(uniswapV2Router.factory()).getPair(address(this),
1183 uniswapV2Router.WETH());
1184 if (get_pair == address(0)) {
1185
```



LINE 1247

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations

1246 ); 1247 1248 \_setAutomatedMarketMakerPair(pair, value); 1249 } 1250 1251



LINE 1290

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
1289 totalSellFee = marketing + liquidity;
1290 require (totalSellFee <= 5, "max fees should be less than equal to 5%");
1291 }
1292 
1293 function enableTrading () external onlyOwner {
1294
```



LINE 1303

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
1302 function setMarketingWallet(address newWallet) external onlyOwner {
1303 require (newWallet != (address(0)), "marketing wallet can't be a zero address");
1304 marketingWallet = payable(newWallet);
1305 }
1306
1307
```



LINE 1328

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations

1327 function \_transfer(
1328 address from,
1329 address to,
1330 uint256 amount
1331 ) internal override {
1332



LINE 1328

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations

1327 function \_transfer(
1328 address from,
1329 address to,
1330 uint256 amount
1331 ) internal override {
1332



LINE 1332

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
1331 ) internal override {
1332 require(from != address(0), "Token: transfer from the zero address");
1333 require(to != address(0), "Token: transfer to the zero address");
1334 require(
1335 !_isBlackListed[from] && !_isBlackListed[to],
1336
```



LINE 1332

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
1331 ) internal override {
1332 require(from != address(0), "Token: transfer from the zero address");
1333 require(to != address(0), "Token: transfer to the zero address");
1334 require(
1335 !_isBlackListed[from] && !_isBlackListed[to],
1336
```



LINE 1333

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
1332 require(from != address(0), "Token: transfer from the zero address");
1333 require(to != address(0), "Token: transfer to the zero address");
1334 require(
1335 !_isBlackListed[from] && !_isBlackListed[to],
1336 "Account is blacklisted"
1337
```



LINE 1334

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
1333 require(to != address(0), "Token: transfer to the zero address");
1334 require(
1335 !_isBlackListed[from] && !_isBlackListed[to],
1336 "Account is blacklisted"
1337 );
1338
```



LINE 1337

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
1336 "Account is blacklisted"
1337 );
1338
1339 if (amount == 0) {
1340 super._transfer(from, to, 0);
1341
```



LINE 1339

## **Iow SEVERITY**

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

## Source File

- BFIGHT.sol

```
1338
1339 if (amount == 0) {
1340 super._transfer(from, to, 0);
1341 return;
1342 }
1343
```



LINE 1364

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
1363
1364 // if any account belongs to _isExcludedFromFee account then remove the fee
1365 if (_isExcludedFromFees[from] || _isExcludedFromFees[to]) {
1366 takeFee = false;
1367 }
1368
```



LINE 1365

## **Iow SEVERITY**

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

## Source File

- BFIGHT.sol

```
1364 // if any account belongs to _isExcludedFromFee account then remove the fee
1365 if (_isExcludedFromFees[from] || _isExcludedFromFees[to]) {
1366 takeFee = false;
1367 }
1368
1369
```



LINE 1370

## **Iow SEVERITY**

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

## Source File

- BFIGHT.sol

```
1369 if (takeFee) {
1370 require (isTradingEnabled, "Trading is not enabled yet");
1371 uint256 fees;
1372
1373
1374
```



LINE 1407

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations

1406 1407 function swapAndSendToMarketing(uint256 tokens) private lockTheSwap { 1408 uint256 oldbalance = address(this).balance; 1409 swapTokensForEth(tokens); 1410 uint256 newBalance = address(this).balance - oldbalance; 1411



LINE 1421

## **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations

1420
1421 // capture the contract's current ETH balance.
1422 // this is so that we can capture exactly the amount of ETH that the
1423 // swap creates, and not make the liquidity event include any ETH that
1424 // has been manually sent to the contract
1425



## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 25

### **Iow SEVERITY**

The current pragma Solidity directive is "">=0.5.0"". 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

- BFIGHT.sol

## Locations

24 function decimals() external pure returns (uint8); 25 function totalSupply() external view returns (uint); 26 function balanceOf(address owner) external view returns (uint); 27 function allowance(address owner, address spender) external view returns (uint); 28 29


LINE 80

#### **Iow SEVERITY**

The current pragma Solidity directive is "">=0.5.0"". 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

- BFIGHT.sol

```
79 function getPair(address tokenA, address tokenB) external view returns (address
pair);
80 function allPairs(uint) external view returns (address pair);
81 function allPairsLength() external view returns (uint);
82
83 function createPair(address tokenA, address tokenB) external returns (address pair);
84
```



**LINE 106** 

#### **Iow SEVERITY**

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

- BFIGHT.sol

#### Locations

105 uint deadline 106 ) external returns (uint amountA, uint amountB, uint liquidity); 107 function addLiquidityETH( 108 address token, 109 uint amountTokenDesired, 110



LINE 202

#### **Iow SEVERITY**

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

- BFIGHT.sol

#### Locations

201 function removeLiquidityETHWithPermitSupportingFeeOnTransferTokens( 202 address token, 203 uint liquidity, 204 uint amountTokenMin, 205 uint amountETHMin, 206



**LINE 254** 

#### **Iow 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

- BFIGHT.sol

```
253 /**
254 * @dev Returns the addition of two unsigned integers, with an overflow flag.
255 *
256 * _Available since v3.4._
257 */
258
```



LINE 477

#### **Iow 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

- BFIGHT.sol

#### Locations

476 \* manner, since when dealing with meta-transactions the account sending and 477 \* paying for execution may not be the actual sender (as far as an application 478 \* is concerned). 479 \* 480 \* This contract is only required for intermediate, library-like contracts. 481



**LINE 508** 

#### **Iow 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

- BFIGHT.sol

#### Locations

507 \*
508 \* This module is used through inheritance. It will make available the modifier
509 \* `onlyOwner`, which can be applied to your functions to restrict their use to
510 \* the owner.
511 \*/
512



LINE 592

#### **Iow 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

- BFIGHT.sol

#### Locations

591 /\*\*
592 \* @dev Moves `amount` tokens from the caller's account to `recipient`.
593 \*
594 \* Returns a boolean value indicating whether the operation succeeded.
595 \*
596



LINE 677

#### **Iow 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

- BFIGHT.sol

```
676 */
677 function symbol() external view returns (string memory);
678
679 /**
680 * @dev Returns the decimals places of the token.
681
```



**LINE** 703

#### **Iow 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

- BFIGHT.sol

#### Locations

702 \* TIP: For a detailed writeup see our guide 703 \* https://forum.zeppelin.solutions/t/how-to-implement-erc20-supplymechanisms/226[How 704 \* to implement supply mechanisms]. 705 \* 706 \* We have followed general OpenZeppelin Contracts guidelines: functions revert 707





LINE 1070

#### **Iow SEVERITY**

The current pragma Solidity directive is ""^0.8.10"". 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

- BFIGHT.sol

#### Locations

1069 uint16 marketingFee; 1070 uint16 liquidityFee; 1071 1072 } 1073 1074



### SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 1093

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
1092
1093 address payable marketingWallet =
payable(address(0x393d8d86E8b5aB2D653A3A94364FC40f9DB97a65)); // MARKETING WALLET
1094
1095
1096
1097
```



### SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 1101

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

```
1100 mapping(address => bool) public _isBlackListed;
1101 bool isTradingEnabled;
1102
1103 // store addresses that a automatic market maker pairs. Any transfer *to* these
addresses
1104 // could be subject to a maximum transfer amount
1105
```



### SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1248

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations

1247
1248 \_setAutomatedMarketMakerPair(pair, value);
1249 }
1250
1251 function \_setAutomatedMarketMakerPair(address pair, bool value) private {
1252



C

### SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1473

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

|--|



### SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1474

#### **Iow SEVERITY**

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

#### Source File

- BFIGHT.sol

#### Locations

1473 1474 } 1475



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