CryptoBunnyClub

Smart Contract Audit Report

SYSFIXED

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SYSFIXED

AUDITED DETAILS

▌Audited Project

Project name	Token ticker	Blockchain
CryptoBunnyClub	CBC	BSC

▌Addresses

Contract address	0xF92164dbd3E8D80655124f22f68C9337321F227f
Contract deployer address	0x1d875Aefae30c30F4A152cdc99b78a402177899E

▌Project Website

https://cb-club.org/

▌Codebase

https://bscscan.com/address/0xF92164dbd3E8D80655124f22f68C9337321F227f#code

SUMMARY

The Cryptobunnyclub starts with a low MC , website + own NFT mining page, play 2 earn a game in progress, for pc, mobile, Xbox, ps4, mint NFT + huge marketing, Tokenomics details, 2% BUSD rewards 2% lp 1% marketing, jump & run, battle royale, street fight, battle royal function, where 100 bunnies can battle against each other solo, co-op or as a team of 4, bunnys street fight where you can use tokens and face each other in a 1-vs-1 fight and much more.

Contract Summary

Documentation Quality

Cryptobunnyclub provides a document with a very good standard of solidity base code.

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

Code Quality

The Overall quality of the basecode is GOOD

- Standart solidity basecode and rules are already followed with Cryptobunnyclub Project .

Test Coverage

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

Audit Findings Summary

- SWC-101 | Arithmetic operation Issues discovered on lines 29, 31, 36, 39, 44, 56, 65, 72, 73, 81, 200, 370, 383, 426, 485, 491, 555, 610, 610, 758, 947, 947, 1090, 1100, 1104, and 200.
- SWC-103 | A floating pragma is set on lines 6. The current pragma Solidity directive is ""^0.8.17"". 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.
- SWC-108 | State variable visibility is not set on lines 492.It is best practice to set the visibility of state variables explicitly. The default visibility for "protections" is internal. Other possible visibility settings are public and private.
- SWC-110 | Out of bounds array access on lines 171, 201, 206, 869, 870, 871, 885, 886, and 1096.

CONCLUSION

We have audited the CryptoBunnyClub Coin which has released on January 2023 to discover issues and identify potential security vulnerabilities in CryptoBunnyClub Project. This process is used to find bugs, technical issues, and security loopholes that find some common issues in the code.

The security audit report produced satisfactory results with a low risk issue on the contract project.

The most common issue found in writing code on contracts that do not pose a big risk, writing on contracts is close to the standard of writing contracts in general. Some of the low issues that we found were assert violation, floating pragma set, and default visibility. The functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.

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.	ISSUE FOUND
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
Check-Effect Interaction	SWC-107	Check-Effect-Interaction pattern should be followed if the code performs ANY external call.	PASS
Assert Violation	SWC-110	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 Caller	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
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	Sat Jan 14 2023 04:10:17 GMT+0000 (Coordinated Universal Time)
Finished	Sun Jan 15 2023 05:12:27 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	Bunny.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

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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	COMPILER-REWRITABLE "<UINT> - 1" DISCOVERED	low	acknowledged

SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 29

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
28    function mul(int256 a, int256 b) internal pure returns (int256) {
29    int256 c = a * b;
30    require(c != MIN_INT256 || (a & MIN_INT256) != (b & MIN_INT256));
31    require((b == 0) || (c / b == a));
32    return c;
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 31

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

Source File
- Bunny.Sol

Locations

```
30    require(c != MIN_INT256 || (a & MIN_INT256) != (b & MIN_INT256));
31    require((b == 0) || (c / b == a));
32    return c;
33    }
34    function div(int256 a, int256 b) internal pure returns (int256) {
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 36

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
35    require(b != -1 || a != MIN_INT256);
36    return a / b;
37    }
38    function sub(int256 a, int256 b) internal pure returns (int256) {
39    int256 c = a - b;
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 39

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

Source File
- Bunny.Sol

Locations

```
38    function sub(int256 a, int256 b) internal pure returns (int256) {
39    int256 c = a - b;
40    require((b >= 0 && c <= a) || (b < 0 && c > a));
41    return c;
42    }
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 44

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
43    function add(int256 a, int256 b) internal pure returns (int256) {
44    int256 c = a + b;
45    require((b >= 0 && c >= a) || (b < 0 && c < a));
46    return c;
47    }
```

SYSFIXED

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 56

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
55   function add(uint256 a, uint256 b) internal pure returns (uint256) {
56   uint256 c = a + b;
57   require(c >= a, "SafeMath: addition overflow");
58   return c;
59   }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 65

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
64    require(b <= a, errorMessage);
65    uint256 c = a - b;
66    return c;
67    }
68    function mul(uint256 a, uint256 b) internal pure returns (uint256) {
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 72

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
71    }
72    uint256 c = a * b;
73    require(c / a == b, "SafeMath: multiplication overflow");
74    return c;
75    }
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 73

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
72    uint256 c = a * b;
73    require(c / a == b, "SafeMath: multiplication overflow");
74    return c;
75    }
76    function div(uint256 a, uint256 b) internal pure returns (uint256) {
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 81

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
80   require(b > 0, errorMessage);
81   uint256 c = a / b;
82   return c;
83   }
84
```

SYSFIXED

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 200

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
199   uint index = map.indexOf[key];
200   uint lastIndex = map.keys.length - 1;
201   address lastKey = map.keys[lastIndex];
202
203   map.indexOf[lastKey] = index;
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED
LINE 370

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
369   //  see https://github.com/ethereum/EIPs/issues/1726#issuecomment-472352728
370   uint256 constant internal magnitude = 2**128;
371   uint256 internal magnifiedDividendPerShare;
372   mapping(address => int256) internal magnifiedDividendCorrections;
373   mapping(address => uint256) internal withdrawnDividends;
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 383

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
382   magnifiedDividendPerShare = magnifiedDividendPerShare.add(
383   (amount).mul(magnitude) / totalSupply()
384   );
385   emit DividendsDistributed(msg.sender, amount);
386
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 426

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

Source File
- Bunny.Sol

Locations

```
425    function accumulativeDividendOf(address _owner) public view override
returns(uint256) {
426    return magnifiedDividendPerShare.mul(balanceOf(_owner)).toInt256Safe()
427    .add(magnifiedDividendCorrections[_owner]).toUint256Safe() / magnitude;
428    }
429
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 485

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
484    uint256 public _previousTotalFees = totalFees;
485    uint256 public swapTokensAtAmount = 100000 * (10**18);
486    address public _marketingWalletAddress =
0x3785a6fCC98dA2a768646403fe8E2671C98bB94F;
487    uint256 public gasForProcessing = 300000;
488
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 491

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
490    uint256 public maxTransferAmountRate = 300; //divisor 10000  => for 3%
491    uint256 public _maxWalletBalance = 3000000 * 10 ** 18;
492    mapping(address => bool) excludedFromAntiWhale;
493    mapping(address => bool) private _isExcludedFromMaxWallet;
494    mapping (address => bool) public automatedMarketMakerPairs;
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 555

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
554
555     _mint(_msgSender(), 100000000 * (10**18));
556
557   }
558
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 610

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

Source File
- Bunny.Sol

Locations

```
609    function setMaxBalance(uint256 maxBalancePercent) external onlyOwner {
610    _maxWalletBalance = maxBalancePercent * 10 ** 18;
611    }
612
613    function includeAndExcludedFromMaxWallet(address account, bool value) public
onlyOwner {
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED
LINE 610

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

Source File
- Bunny.Sol

Locations

```
609    function setMaxBalance(uint256 maxBalancePercent) external onlyOwner {
610    _maxWalletBalance = maxBalancePercent * 10 ** 18;
611    }
612
613    function includeAndExcludedFromMaxWallet(address account, bool value) public
onlyOwner {
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 758

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
757    uint256 currentBalance = balanceOf(to);
758    require(_isExcludedFromMaxWallet[to] || (currentBalance + amount <=
_maxWalletBalance),
759    "ERC20: Reached max wallet holding");
760    }
761
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 947

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

Source File
- Bunny.Sol

Locations

```
946    claimWait = 3600; // one hour
947    minimumTokenBalanceForDividends = 1 * (10**18); //must hold 1+ tokens
948    }
949
950    function _transfer(address, address, uint256) internal override {
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED
LINE 947

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

Source File
- Bunny.Sol

Locations

```
946    claimWait = 3600; // one hour
947    minimumTokenBalanceForDividends = 1 * (10**18); //must hold 1+ tokens
948    }
949
950    function _transfer(address, address, uint256) internal override {
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED
LINE 1090

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
1089    while(gasUsed < gas && iterations < numberOfTokenHolders) {
1090    _lastProcessedIndex++;
1091
1092    if(_lastProcessedIndex >= tokenHoldersMap.keys.length) {
1093    _lastProcessedIndex = 0;
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED
LINE 1100

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

Source File
- Bunny.Sol

Locations

```
1099    if(processAccount(payable(account), true)) {
1100    claims++;
1101    }
1102    }
1103
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED
LINE 1104

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
1103
1104    iterations++;
1105
1106    uint256 newGasLeft = gasleft();
1107
```

SWC-101 | COMPILER-REWRITABLE "<UINT> - 1" DISCOVERED
LINE 200

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
199    uint index = map.indexOf[key];
200    uint lastIndex = map.keys.length - 1;
201    address lastKey = map.keys[lastIndex];
202
203    map.indexOf[lastKey] = index;
```

SWC-103 | A FLOATING PRAGMA IS SET.
LINE 6

low SEVERITY

The current pragma Solidity directive is ""^0.6.12"". 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

- Bunny.Sol

Locations

```
5    // SPDX-License-Identifier: Unlicensed
6    pragma solidity ^0.6.12;
7
8    abstract contract Context {
9    function _msgSender() internal view virtual returns (address) {
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.
LINE 492

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
491    uint256 public _maxWalletBalance = 3000000 * 10 ** 18;
492    mapping(address => bool) excludedFromAntiWhale;
493    mapping(address => bool) private _isExcludedFromMaxWallet;
494    mapping (address => bool) public automatedMarketMakerPairs;
495
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS
LINE 171

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
170    function getKeyAtIndex(Map storage map, uint index) public view returns (address) {
171    return map.keys[index];
172    }
173
174
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS
LINE 201

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

Source File
- Bunny.Sol

Locations

```
200    uint lastIndex = map.keys.length - 1;
201    address lastKey = map.keys[lastIndex];
202
203    map.indexOf[lastKey] = index;
204    delete map.indexOf[key];
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS
LINE 206

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
205
206    map.keys[index] = lastKey;
207    map.keys.pop();
208    }
209    }
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS
LINE 869

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

Source File
- Bunny.Sol

Locations

```
868    address[] memory path = new address[](3);
869    path[0] = address(this);
870    path[1] = uniswapV2Router.WETH();
871    path[2] = BUSD;
872    _approve(address(this), address(uniswapV2Router), tokenAmount);
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS
LINE 870

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

Source File
- Bunny.Sol

Locations

```
869    path[0] = address(this);
870    path[1] = uniswapV2Router.WETH();
871    path[2] = BUSD;
872    _approve(address(this), address(uniswapV2Router), tokenAmount);
873    uniswapV2Router.swapExactTokensForTokensSupportingFeeOnTransferTokens(
```

SYSFIXED

SWC-110 | OUT OF BOUNDS ARRAY ACCESS
LINE 871

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

Source File
- Bunny.Sol

Locations

```
870    path[1] = uniswapV2Router.WETH();
871    path[2] = BUSD;
872    _approve(address(this), address(uniswapV2Router), tokenAmount);
873    uniswapV2Router.swapExactTokensForTokensSupportingFeeOnTransferTokens(
874    tokenAmount,
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS
LINE 885

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
884    require(path.length <= 2, "fail");
885    path[0] = address(this);
886    path[1] = uniswapV2Router.WETH();
887    _approve(address(this), address(uniswapV2Router), tokenAmount);
888    uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS
LINE 886

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
885   path[0] = address(this);
886   path[1] = uniswapV2Router.WETH();
887   _approve(address(this), address(uniswapV2Router), tokenAmount);
888   uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
889   tokenAmount,
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS
LINE 1096

low SEVERITY

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

Source File

- Bunny.Sol

Locations

```
1095
1096   address account = tokenHoldersMap.keys[_lastProcessedIndex];
1097
1098   if(canAutoClaim(lastClaimTimes[account])) {
1099   if(processAccount(payable(account), true)) {
```

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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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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.