

Smart Contract
Audit Report





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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
BPTL	BPTL	Ethereum

Addresses

Contract address	0x3a1bc4014c4c493db3dbfbdd8ee1417113b462bf	
Contract deployer address	0x8DF71E2fb1eCEBED2c5013963eE51A19D1FF1E65	

Project Website

https://blockportal.info/

Codebase

https://etherscan.io/address/0x3a1bc4014c4c493db3dbfbdd8ee1417113b462bf#code



SUMMARY

All-in-one social network that allows governing/trading crypto assets at the same time providing a means to interact with each other on a 1-on-1 or group basis. BlockPortal ecosystem consists of several trading, social + community features along with a marketplace. Moreover, the platform will have robust payment automation and peer-to-peer crypto & NFT transfers.

Contract Summary

Documentation Quality

BPTL 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 BPTL 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 276, 276, 277, 277, 279, 279, 280, 280, 281, 281, 290, 290, 291, 291, 295, 295, 296, 296, 306, 306, 307, 307, 308, 308, 325, 325, 390, 402, 415, 496, 505, 532, 533, 547, 666, 682 and 685.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 19.
- 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 391, 403, 537 and 538.



CONCLUSION

We have audited the BPTL project released on January 2023 to discover issues and identify potential security vulnerabilities in BPTL 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 BPTL 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, 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.		
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.	it PASS	
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	d 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 ISSUE failing assert statement. FOUNI		
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	d. PASS	
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.	ed 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.	
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	Monday Jan 23 2023 04:14:59 GMT+0000 (Coordinated Universal Time)		
Finished	Tuesday Jan 24 2023 09:52:17 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	BPTL.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-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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LINE 276

low SEVERITY

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

Source File

- BPTL.sol

```
uint8 private constant _decimals = 18;
uint256 internal constant _totalSupply = 1_000_000_000 * 10**_decimals;
uint32 private constant percent_helper = 100 * 10**2;
//Settings limits
uint32 private constant max_fee = 90.00 * 10**2;
```



LINE 276

low SEVERITY

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

Source File

- BPTL.sol

```
uint8 private constant _decimals = 18;
uint256 internal constant _totalSupply = 1_000_000_000 * 10**_decimals;
uint32 private constant percent_helper = 100 * 10**2;
//Settings limits
uint32 private constant max_fee = 90.00 * 10**2;
280
```



LINE 277

low SEVERITY

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

Source File

- BPTL.sol

```
uint256 internal constant _totalSupply = 1_000_000_000 * 10**_decimals;
uint32 private constant percent_helper = 100 * 10**2;

//Settings limits
uint32 private constant max_fee = 90.00 * 10**2;

uint32 private constant min_maxes = 0.50 * 10**2;

280
uint32 private constant min_maxes = 0.50 * 10**2;
```



LINE 277

low SEVERITY

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Source File

- BPTL.sol

```
uint256 internal constant _totalSupply = 1_000_000_000 * 10**_decimals;
uint32 private constant percent_helper = 100 * 10**2;

//Settings limits
uint32 private constant max_fee = 90.00 * 10**2;

uint32 private constant min_maxes = 0.50 * 10**2;

280
uint32 private constant min_maxes = 0.50 * 10**2;
```



LINE 279

low SEVERITY

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

Source File

- BPTL.sol

```
//Settings limits
uint32 private constant max_fee = 90.00 * 10**2;
uint32 private constant min_maxes = 0.50 * 10**2;
uint32 private constant burn_limit = 10.00 * 10**2;
281
uint32 private constant burn_limit = 10.00 * 10**2;
282
283
```



LINE 279

low SEVERITY

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

Source File

- BPTL.sol

```
//Settings limits
uint32 private constant max_fee = 90.00 * 10**2;
uint32 private constant min_maxes = 0.50 * 10**2;
uint32 private constant burn_limit = 10.00 * 10**2;
uint32 private constant burn_limit = 10.00 * 10**2;
282
283
```



LINE 280

low SEVERITY

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

Source File

- BPTL.sol

```
279     uint32     private constant max_fee = 90.00 * 10**2;
280     uint32     private constant min_maxes = 0.50 * 10**2;
281     uint32     private constant burn_limit = 10.00 * 10**2;
282
283     //OpenTrade
284
```



LINE 280

low SEVERITY

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

Source File

- BPTL.sol

```
279     uint32     private constant max_fee = 90.00 * 10**2;
280     uint32     private constant min_maxes = 0.50 * 10**2;
281     uint32     private constant burn_limit = 10.00 * 10**2;
282
283     //OpenTrade
284
```



LINE 281

low SEVERITY

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

Source File

- BPTL.sol

```
uint32 private constant min_maxes = 0.50 * 10**2;
uint32 private constant burn_limit = 10.00 * 10**2;

282
283  //OpenTrade
284  bool public trade_open;
285
```



LINE 281

low SEVERITY

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

Source File

- BPTL.sol

```
uint32 private constant min_maxes = 0.50 * 10**2;
uint32 private constant burn_limit = 10.00 * 10**2;

//OpenTrade
bool public trade_open;
285
```



LINE 290

low SEVERITY

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

Source File

- BPTL.sol

```
289 address public team_wallet;
290 uint32 public fee_buy = 8.00 * 10**2;
291 uint32 public fee_sell = 8.00 * 10**2;
292 /*
293
294
```



LINE 290

low SEVERITY

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

Source File

- BPTL.sol

```
289 address public team_wallet;
290 uint32 public fee_buy = 8.00 * 10**2;
291 uint32 public fee_sell = 8.00 * 10**2;
292 /*
293
294
```



LINE 291

low SEVERITY

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

Source File

- BPTL.sol

```
290 uint32 public fee_buy = 8.00 * 10**2;

291 uint32 public fee_sell = 8.00 * 10**2;

292 /*

293

294 */

295
```



LINE 291

low SEVERITY

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

Source File

- BPTL.sol

```
290 uint32 public fee_buy = 8.00 * 10**2;

291 uint32 public fee_sell = 8.00 * 10**2;

292 /*

293

294 */

295
```



LINE 295

low SEVERITY

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

Source File

- BPTL.sol

```
294 */
295 uint32 public fee_early_sell = 30.00 * 10**2;
296 uint32 public lp_percent = 25.00 * 10**2;
297
298 //Ignore fee
299
```



LINE 295

low SEVERITY

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

Source File

- BPTL.sol

```
294 */
295 uint32 public fee_early_sell = 30.00 * 10**2;
296 uint32 public lp_percent = 25.00 * 10**2;
297
298 //Ignore fee
299
```



LINE 296

low SEVERITY

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

Source File

- BPTL.sol

```
295  uint32 public fee_early_sell = 30.00 * 10**2;
296  uint32 public lp_percent = 25.00 * 10**2;
297
298  //Ignore fee
299  mapping(address => bool) public ignore_fee;
300
```



LINE 296

low SEVERITY

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

Source File

- BPTL.sol

```
295  uint32 public fee_early_sell = 30.00 * 10**2;
296  uint32 public lp_percent = 25.00 * 10**2;
297
298  //Ignore fee
299  mapping(address => bool) public ignore_fee;
300
```



LINE 306

low SEVERITY

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

Source File

- BPTL.sol

```
305  //Maxes

306  uint256 public max_tx = 7_500_000 * 10**_decimals; //0.75%

307  uint256 public max_wallet = 10_000_000 * 10**_decimals; //1.00%

308  uint256 public swap_at_amount = 1_000_000 * 10**_decimals; //0.10%

309

310
```



LINE 306

low SEVERITY

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

Source File

- BPTL.sol

```
305  //Maxes
306  uint256 public max_tx = 7_500_000 * 10**_decimals; //0.75%
307  uint256 public max_wallet = 10_000_000 * 10**_decimals; //1.00%
308  uint256 public swap_at_amount = 1_000_000 * 10**_decimals; //0.10%
309
310
```



LINE 307

low SEVERITY

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

Source File

- BPTL.sol

```
306  uint256 public max_tx = 7_500_000 * 10**_decimals; //0.75%
307  uint256 public max_wallet = 10_000_000 * 10**_decimals; //1.00%
308  uint256 public swap_at_amount = 1_000_000 * 10**_decimals; //0.10%
309
310  //ERC20
311
```



LINE 307

low SEVERITY

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

Source File

- BPTL.sol

```
306  uint256 public max_tx = 7_500_000 * 10**_decimals; //0.75%

307  uint256 public max_wallet = 10_000_000 * 10**_decimals; //1.00%

308  uint256 public swap_at_amount = 1_000_000 * 10**_decimals; //0.10%

309

310  //ERC20

311
```



LINE 308

low SEVERITY

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

Source File

- BPTL.sol

```
307    uint256    public max_wallet = 10_000_000 * 10**_decimals; //1.00%
308    uint256    public swap_at_amount = 1_000_000 * 10**_decimals; //0.10%
309
310    //ERC20
311    mapping(address => uint256) internal _balances;
312
```



LINE 308

low SEVERITY

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

Source File

- BPTL.sol

```
307    uint256    public max_wallet = 10_000_000 * 10**_decimals; //1.00%
308    uint256    public swap_at_amount = 1_000_000 * 10**_decimals; //0.10%
309
310    //ERC20
311    mapping(address => uint256) internal _balances;
312
```



LINE 325

low SEVERITY

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

Source File

- BPTL.sol

```
324 {
325  return (_input * _percent) / percent_helper;
326  }
327
328  bool private inSwap = false;
329
```



LINE 325

low SEVERITY

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

Source File

- BPTL.sol

```
324 {
325  return (_input * _percent) / percent_helper;
326  }
327
328  bool private inSwap = false;
329
```



LINE 390

low SEVERITY

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

Source File

- BPTL.sol

```
389  unchecked {
390  for (uint256 i = 0; i < _input.length; i++) {
391   ignore_fee[_input[i]] = _enabled;
392  }
393  }
394</pre>
```



LINE 402

low SEVERITY

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

Source File

- BPTL.sol

```
401 unchecked {
402  for (uint256 i = 0; i < _input.length; i++) {
403   address addr = _input[i];
404   require(
405   addr != address(0),
406</pre>
```



LINE 415

low SEVERITY

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

Source File

- BPTL.sol

```
414 require(
415 block.timestamp > burn_last + burn_cooldown,
416 "Burn cooldown active"
417 );
418 uint256 liquidityPairBalance = this.balanceOf(pair_addr);
419
```



LINE 496

low SEVERITY

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

Source File

- BPTL.sol

```
495  require(amount >= fee_amount, "fee exceeds amount");
496  amount -= fee_amount;
497  }
498  //Disable maxes
499  if (limits_active) {
500
```



LINE 505

low SEVERITY

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

Source File

- BPTL.sol

```
504    require(
505    _balances[to] + amount <= max_wallet,
506    "Max wallet reached"
507    );
508  }
509</pre>
```



LINE 532

low SEVERITY

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

Source File

- BPTL.sol

```
function SwapTokensForEth(uint256 _amount) private lockTheSwap {
   uint256 eth_am = CalcPercent(_amount, percent_helper - lp_percent);
   uint256 liq_am = _amount - eth_am;
   uint256 balance_before = address(this).balance;
   535
   536
```



LINE 533

low SEVERITY

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

Source File

- BPTL.sol

```
uint256 eth_am = CalcPercent(_amount, percent_helper - lp_percent);
uint256 liq_am = _amount - eth_am;
uint256 balance_before = address(this).balance;
address[] memory path = new address[](2);
```



LINE 547

low SEVERITY

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

Source File

- BPTL.sol

```
546 );
547 uint256 liq_eth = address(this).balance - balance_before;
548
549 AddLiquidity(liq_am, CalcPercent(liq_eth, lp_percent));
550 }
551
```



LINE 666

low SEVERITY

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

Source File

- BPTL.sol

```
665 unchecked {
666 _approve(owner, spender, currentAllowance - amount);
667 }
668 }
669 }
670
```



LINE 682

low SEVERITY

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

Source File

- BPTL.sol

```
681 unchecked {
682 _balances[from] = fromBalance - amount;
683  // Overflow not possible: the sum of all balances is capped by totalSupply, and the sum is preserved by
684  // decrementing then incrementing.
685 _balances[to] += amount;
686
```



LINE 685

low SEVERITY

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

Source File

- BPTL.sol

```
684  // decrementing then incrementing.
685  _balances[to] += amount;
686  }
687
688  emit Transfer(from, to, amount);
689
```



SWC-103 | A FLOATING PRAGMA IS SET.

LINE 19

low SEVERITY

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.

Source File

- BPTL.sol

```
18 */
19 pragma solidity ^0.8.17;
20
21 /**
22 * @dev Provides information about the current execution context, including the
23
```



LINE 391

low SEVERITY

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

Source File

- BPTL.sol

```
390  for (uint256 i = 0; i < _input.length; i++) {
391   ignore_fee[_input[i]] = _enabled;
392  }
393  }
394  }
395</pre>
```



LINE 403

low SEVERITY

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

Source File

- BPTL.sol

```
402  for (uint256 i = 0; i < _input.length; i++) {
403   address addr = _input[i];
404   require(
405   addr != address(0),
406   "ERC20: transfer to the zero address"
407</pre>
```



LINE 537

low SEVERITY

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

Source File

- BPTL.sol

```
address[] memory path = new address[](2);
path[0] = address(this);
path[1] = uniswapV2Router.WETH();
approve(address(this), address(uniswapV2Router), _amount);
uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens()
```



LINE 538

low SEVERITY

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

Source File

- BPTL.sol

```
path[0] = address(this);
path[1] = uniswapV2Router.WETH();

approve(address(this), address(uniswapV2Router), _amount);

uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
eth_am,

542
```



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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.