



Apefund V2

Smart Contract Audit Report

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Disclaimer

About Us

AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
Apefund V2	AFND	Binance Smart Chain

Addresses

Contract address	0x7BE236a96e53dc7B1069f0212CB77d33aD8CBacF
Contract deployer address	0x04dd4D558D54013c1c8C6AaA0e2F9F66017c2A40

Project Website

<https://apefunddao.com/>

Codebase

<https://bscscan.com/address/0x7BE236a96e53dc7B1069f0212CB77d33aD8CBacF#code>

SUMMARY

The first "Social investment community" token. A private community for the true bsc apes. Get access to the community only with \$afnd tokens. Community driven vested interest unique insight out advantage earn & invest as a community, connect, discuss & learn, consensus voting, ongoing review of investments tokenomics: 5% buys 15% sells.

Contract Summary

Documentation Quality

Apefund V2 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 Apefund V2 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 105, 180 and 192.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 119, 119, 187, 187, 188, 188, 317, 345, 385, 385, 407, 419, 419, 419, 420, 421, 434, 434, 434, 434, 435, 435, 439, 439, 439, 440, 440, 444, 444, 448, 448, 452, 452, 456, 456, 457, 457, 459, 459, 460, 461, 537, 551, 551, 571, 571, 571, 572, 589, 589, 622, 623, 623, 624, 624, 625, 625, 660, 660, 661, 661, 678, 679, 679, 680, 680, 694, 696, 709, 722, 722, 723, 723, 724, 726, 730 and 734.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 6.
- 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 575, 576, 607, 608, 679, 680 and 680.
- SWC-115 | tx.origin should not be used for authorization, use msg.sender instead on lines 498.
- SWC-120 | It is recommended to use external sources of randomness via oracles on lines 657.

CONCLUSION

We have audited the NamaProject Coin which has released on January 2023 to discover issues and identify potential security vulnerabilities in NamaProject 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 provides a satisfactory result with some low-risk issues.

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 were found stated variable visibility are not set, a floating pragma is set, out of bounds array access, and potential use of "block.number" as a source of randomness. We recommend to Don't using any of those environment variables as sources of randomness and being aware that the use of these variables introduces a certain level of trust in miners, The tx.origin environment variable has been found to influence a control flow decision. Note that using "tx.origin" as a security control might cause a situation where a user inadvertently authorizes a smart contract to perform an action on their behalf. It is recommended to use "msg.sender" instead, and 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.

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
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.	ISSUE FOUND
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.	ISSUE FOUND
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

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	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
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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
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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-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-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-115	USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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SWC-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 119

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
118  uint8 constant private _decimals = 18;
119  uint256 constant private _tTotal = startingSupply * 10**_decimals;
120
121  struct Fees {
122    uint16 buyFee;
123
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 119

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
118 uint8 constant private _decimals = 18;
119 uint256 constant private _tTotal = startingSupply * 10**_decimals;
120
121 struct Fees {
122     uint16 buyFee;
123 }
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 187

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
186
187  uint256 private _maxTxAmount = (_tTotal * 3) / 100;
188  uint256 private _maxWalletSize = (_tTotal * 3) / 100;
189
190  bool public tradingEnabled = false;
191
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 187

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
186
187  uint256 private _maxTxAmount = (_tTotal * 3) / 100;
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190  bool public tradingEnabled = false;
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```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 188

low SEVERITY

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Source File

- ApefundV2.sol

Locations

```
187 uint256 private _maxTxAmount = (_tTotal * 3) / 100;
188 uint256 private _maxWalletSize = (_tTotal * 3) / 100;
189
190 bool public tradingEnabled = false;
191 bool public _hasLiqBeenAdded = false;
192
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 188

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
187 uint256 private _maxTxAmount = (_tTotal * 3) / 100;
188 uint256 private _maxWalletSize = (_tTotal * 3) / 100;
189
190 bool public tradingEnabled = false;
191 bool public _hasLiqBeenAdded = false;
192
```

SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 317

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
316   if (_allowances[sender][msg.sender] != type(uint256).max) {  
317     _allowances[sender][msg.sender] -= amount;  
318   }  
319  
320   return _transfer(sender, recipient, amount);  
321
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 345

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
344   if (timeSinceLastPair != 0) {
345     require(block.timestamp - timeSinceLastPair > 3 days, "3 Day cooldown.");
346   }
347   require(!lpPairs[pair], "Pair already added to list.");
348   lpPairs[pair] = true;
349
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 385

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
384 function getCirculatingSupply() public view returns (uint256) {
385     return (_tTotal - (balanceOf(DEAD) + balanceOf(address(0))));
386 }
387
388 function removeSniper(address account) external onlyOwner {
389
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 385

low SEVERITY

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Source File

- ApefundV2.sol

Locations

```
384     function getCirculatingSupply() public view returns (uint256) {
385         return (_tTotal - (balanceOf(DEAD) + balanceOf(address(0))));
386     }
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388     function removeSniper(address account) external onlyOwner {
389
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 407

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
406     "Cannot exceed maximums.");  
407     require(buyFee + sellFee <= maxRoundtripTax, "Cannot exceed roundtrip maximum.");  
408     _taxRates.buyFee = buyFee;  
409     _taxRates.sellFee = sellFee;  
410     _taxRates.transferFee = transferFee;  
411
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 419

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
418  _ratios.rewards = rewards;  
419  _ratios.totalSwap = liquidity + investment + futureTax + opex;  
420  uint256 total = _taxRates.buyFee + _taxRates.sellFee;  
421  require(_ratios.totalSwap + _ratios.rewards <= total, "Cannot exceed sum of buy and  
sell fees.");  
422  }  
423
```


SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 419

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sell fees.");  
422  }  
423
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 420

low SEVERITY

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Source File

- ApefundV2.sol

Locations

```
419  _ratios.totalSwap = liquidity + investment + futureTax + opex;
420  uint256 total = _taxRates.buyFee + _taxRates.sellFee;
421  require(_ratios.totalSwap + _ratios.rewards <= total, "Cannot exceed sum of buy and
sell fees.");
422  }
423
424
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 421

low SEVERITY

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Source File

- ApefundV2.sol

Locations

```
420     uint256 total = _taxRates.buyFee + _taxRates.sellFee;
421     require(_ratios.totalSwap + _ratios.rewards <= total, "Cannot exceed sum of buy and
sell fees.");
422   }
423
424   function setWallets(address payable rewards, address payable investment, address
payable opex, address payable liquidity, address payable futureTax) external onlyOwner {
425
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 434

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
433     function setMaxTxPercent(uint256 percent, uint256 divisor) external onlyOwner {
434         require((_tTotal * percent) / divisor >= (_tTotal * 5 / 1000), "Max Transaction amt
must be above 0.5% of total supply.");
435         _maxTxAmount = (_tTotal * percent) / divisor;
436     }
437
438
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 434

low SEVERITY

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Source File

- ApefundV2.sol

Locations

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433     function setMaxTxPercent(uint256 percent, uint256 divisor) external onlyOwner {
434         require((_tTotal * percent) / divisor >= (_tTotal * 5 / 1000), "Max Transaction amt
must be above 0.5% of total supply.");
435         _maxTxAmount = (_tTotal * percent) / divisor;
436     }
437
438
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

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must be above 0.5% of total supply.");
435         _maxTxAmount = (_tTotal * percent) / divisor;
436     }
437
438
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

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Source File

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434         require((_tTotal * percent) / divisor >= (_tTotal * 5 / 1000), "Max Transaction amt
must be above 0.5% of total supply.");
435         _maxTxAmount = (_tTotal * percent) / divisor;
436     }
437
438
```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 435

low SEVERITY

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Source File

- ApefundV2.sol

Locations

```
434   require((_tTotal * percent) / divisor >= (_tTotal * 5 / 1000), "Max Transaction amt
must be above 0.5% of total supply.");
435   _maxTxAmount = (_tTotal * percent) / divisor;
436   }
437
438   function setMaxWalletSize(uint256 percent, uint256 divisor) external onlyOwner {
439
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 435

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
434   require((_tTotal * percent) / divisor >= (_tTotal * 5 / 1000), "Max Transaction amt
must be above 0.5% of total supply.");
435   _maxTxAmount = (_tTotal * percent) / divisor;
436   }
437
438   function setMaxWalletSize(uint256 percent, uint256 divisor) external onlyOwner {
439
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 439

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
438     function setMaxWalletSize(uint256 percent, uint256 divisor) external onlyOwner {
439         require((_tTotal * percent) / divisor >= (_tTotal / 100), "Max Wallet amt must be
above 1% of total supply.");
440         _maxWalletSize = (_tTotal * percent) / divisor;
441     }
442
443
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 439

low SEVERITY

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Source File

- ApefundV2.sol

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```
438 function setMaxWalletSize(uint256 percent, uint256 divisor) external onlyOwner {
439     require((_tTotal * percent) / divisor >= (_tTotal / 100), "Max Wallet amt must be
above 1% of total supply.");
440     _maxWalletSize = (_tTotal * percent) / divisor;
441 }
442
443
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 439

low SEVERITY

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Source File

- ApefundV2.sol

Locations

```
438     function setMaxWalletSize(uint256 percent, uint256 divisor) external onlyOwner {
439         require((_tTotal * percent) / divisor >= (_tTotal / 100), "Max Wallet amt must be
above 1% of total supply.");
440         _maxWalletSize = (_tTotal * percent) / divisor;
441     }
442
443
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 440

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
439   require((_tTotal * percent) / divisor >= (_tTotal / 100), "Max Wallet amt must be
above 1% of total supply.");
440   _maxWalletSize = (_tTotal * percent) / divisor;
441   }
442
443   function getMaxTX() external view returns (uint256) {
444
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 440

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
439   require((_tTotal * percent) / divisor >= (_tTotal / 100), "Max Wallet amt must be
above 1% of total supply.");
440   _maxWalletSize = (_tTotal * percent) / divisor;
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442
443   function getMaxTX() external view returns (uint256) {
444
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 444

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
443     function getMaxTX() external view returns (uint256) {
444         return _maxTxAmount / (10**_decimals);
445     }
446
447     function getMaxWallet() external view returns (uint256) {
448
```


SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 444

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
443     function getMaxTX() external view returns (uint256) {
444         return _maxTxAmount / (10**_decimals);
445     }
446
447     function getMaxWallet() external view returns (uint256) {
448
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 448

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
447     function getMaxWallet() external view returns (uint256) {
448         return _maxWalletSize / (10**_decimals);
449     }
450
451     function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) external view
returns (uint256) {
452
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 448

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
447     function getMaxWallet() external view returns (uint256) {
448         return _maxWalletSize / (10**_decimals);
449     }
450
451     function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) external view
returns (uint256) {
452
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 452

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
451  function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) external view
returns (uint256) {
452  return((balanceOf(lpPair) * priceImpactInHundreds) / masterTaxDivisor);
453  }
454
455  function setSwapSettings(uint256 thresholdPercent, uint256 thresholdDivisor,
uint256 amountPercent, uint256 amountDivisor) external onlyOwner {
456
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 452

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
451  function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) external view
returns (uint256) {
452  return((balanceOf(lpPair) * priceImpactInHundreds) / masterTaxDivisor);
453  }
454
455  function setSwapSettings(uint256 thresholdPercent, uint256 thresholdDivisor,
uint256 amountPercent, uint256 amountDivisor) external onlyOwner {
456
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 456

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
455 function setSwapSettings(uint256 thresholdPercent, uint256 thresholdDivisor,
uint256 amountPercent, uint256 amountDivisor) external onlyOwner {
456     swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor;
457     swapAmount = (_tTotal * amountPercent) / amountDivisor;
458     require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");
459     require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be
above 1.5% of current PI.");
460 }
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 456

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
455 function setSwapSettings(uint256 thresholdPercent, uint256 thresholdDivisor,
uint256 amountPercent, uint256 amountDivisor) external onlyOwner {
456     swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor;
457     swapAmount = (_tTotal * amountPercent) / amountDivisor;
458     require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");
459     require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be
above 1.5% of current PI.");
460 }
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 457

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
456 swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor;
457 swapAmount = (_tTotal * amountPercent) / amountDivisor;
458 require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");
459 require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be
above 1.5% of current PI.");
460 require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total
supply.");
461
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 457

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
456 swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor;
457 swapAmount = (_tTotal * amountPercent) / amountDivisor;
458 require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");
459 require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be
above 1.5% of current PI.");
460 require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total
supply.");
461
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 459

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
458     require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");
459     require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be
above 1.5% of current PI.");
460     require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total
supply.");
461     require(swapThreshold >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of
total supply.");
462   }
463
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 459

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
458     require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");
459     require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be
above 1.5% of current PI.");
460     require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total
supply.");
461     require(swapThreshold >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of
total supply.");
462     }
463
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 460

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
459     require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be
above 1.5% of current PI.");
460     require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total
supply.");
461     require(swapThreshold >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of
total supply.");
462   }
463
464
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 461

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
460     require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total
supply.");
461     require(swapThreshold >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of
total supply.");
462   }
463
464   function setPriceImpactSwapAmount(uint256 priceImpactSwapPercent) external
onlyOwner {
465
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 537

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
536   if (!_isExcludedFromLimits[to]) {  
537     require(balanceOf(to) + amount <= _maxWalletSize, "Transfer amount exceeds the  
maxWalletSize.");  
538   }  
539   }  
540   }  
541
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 551

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
550 uint256 swapAmt = swapAmount;
551 if (piContractSwapsEnabled) { swapAmt = (balanceOf(lpPair) * piSwapPercent) /
masterTaxDivisor; }
552 if (contractTokenBalance >= swapAmt) { contractTokenBalance = swapAmt; }
553 contractSwap(contractTokenBalance);
554 }
555
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 551

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
550  uint256 swapAmt = swapAmount;
551  if (piContractSwapsEnabled) { swapAmt = (balanceOf(lpPair) * piSwapPercent) /
masterTaxDivisor; }
552  if (contractTokenBalance >= swapAmt) { contractTokenBalance = swapAmt; }
553  contractSwap(contractTokenBalance);
554  }
555
```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 571

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
570
571  uint256 toLiquify = ((contractTokenBalance * ratios.liquidity) / ratios.totalSwap)
    / 2;
572  uint256 swapAmt = contractTokenBalance - toLiquify;
573
574  address[] memory path = new address[](2);
575
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 571

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
570
571  uint256 toLiquify = ((contractTokenBalance * ratios.liquidity) / ratios.totalSwap)
    / 2;
572  uint256 swapAmt = contractTokenBalance - toLiquify;
573
574  address[] memory path = new address[](2);
575
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 571

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
570
571  uint256 toLiquify = ((contractTokenBalance * ratios.liquidity) / ratios.totalSwap)
  / 2;
572  uint256 swapAmt = contractTokenBalance - toLiquify;
573
574  address[] memory path = new address[](2);
575
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 572

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
571 uint256 toLiquify = ((contractTokenBalance * ratios.liquidity) / ratios.totalSwap)
    / 2;
572 uint256 swapAmt = contractTokenBalance - toLiquify;
573
574 address[] memory path = new address[](2);
575 path[0] = address(this);
576
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 589

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
588 uint256 amtBalance = address(this).balance;
589 uint256 liquidityBalance = (amtBalance * toLiquify) / swapAmt;
590
591 if (toLiquify > 0) {
592     try dexRouter.addLiquidityETH{value: liquidityBalance}(
593
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 589

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
588 uint256 amtBalance = address(this).balance;
589 uint256 liquidityBalance = (amtBalance * toLiquify) / swapAmt;
590
591 if (toLiquify > 0) {
592     try dexRouter.addLiquidityETH{value: liquidityBalance}(
593
```

SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 622

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
621  amtBalance = IERC20_BUSD.balanceOf(address(this));
622  ratios.totalSwap -= ratios.liquidity;
623  uint256 investmentBalance = (amtBalance * ratios.investment) / ratios.totalSwap;
624  uint256 futureTaxBalance = (amtBalance * ratios.futureTax) / ratios.totalSwap;
625  uint256 opexBalance = amtBalance - (investmentBalance + futureTaxBalance);
626
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 623

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
622 ratios.totalSwap -= ratios.liquidity;
623 uint256 investmentBalance = (amtBalance * ratios.investment) / ratios.totalSwap;
624 uint256 futureTaxBalance = (amtBalance * ratios.futureTax) / ratios.totalSwap;
625 uint256 opexBalance = amtBalance - (investmentBalance + futureTaxBalance);
626 if (ratios.opex > 0) {
627
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 623

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
622 ratios.totalSwap -= ratios.liquidity;
623 uint256 investmentBalance = (amtBalance * ratios.investment) / ratios.totalSwap;
624 uint256 futureTaxBalance = (amtBalance * ratios.futureTax) / ratios.totalSwap;
625 uint256 opexBalance = amtBalance - (investmentBalance + futureTaxBalance);
626 if (ratios.opex > 0) {
627
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 624

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
623 uint256 investmentBalance = (amtBalance * ratios.investment) / ratios.totalSwap;  
624 uint256 futureTaxBalance = (amtBalance * ratios.futureTax) / ratios.totalSwap;  
625 uint256 opexBalance = amtBalance - (investmentBalance + futureTaxBalance);  
626 if (ratios.opex > 0) {  
627     IERC20_BUSD.transfer(_taxWallets.opex, opexBalance);  
628 }
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 624

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
623 uint256 investmentBalance = (amtBalance * ratios.investment) / ratios.totalSwap;  
624 uint256 futureTaxBalance = (amtBalance * ratios.futureTax) / ratios.totalSwap;  
625 uint256 opexBalance = amtBalance - (investmentBalance + futureTaxBalance);  
626 if (ratios.opex > 0) {  
627     IERC20_BUSD.transfer(_taxWallets.opex, opexBalance);  
628 }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 625

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
624 uint256 futureTaxBalance = (amtBalance * ratios.futureTax) / ratios.totalSwap;
625 uint256 opexBalance = amtBalance - (investmentBalance + futureTaxBalance);
626 if (ratios.opex > 0) {
627     IERC20_BUSD.transfer(_taxWallets.opex, opexBalance);
628 }
629
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 625

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
624 uint256 futureTaxBalance = (amtBalance * ratios.futureTax) / ratios.totalSwap;
625 uint256 opexBalance = amtBalance - (investmentBalance + futureTaxBalance);
626 if (ratios.opex > 0) {
627     IERC20_BUSD.transfer(_taxWallets.opex, opexBalance);
628 }
629
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 660

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
659     allowedPresaleExclusion = false;
660     swapThreshold = (balanceOf(lpPair) * 10) / 10000;
661     swapAmount = (balanceOf(lpPair) * 30) / 10000;
662     launchStamp = block.timestamp;
663     }
664
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 660

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
659     allowedPresaleExclusion = false;
660     swapThreshold = (balanceOf(lpPair) * 10) / 10000;
661     swapAmount = (balanceOf(lpPair) * 30) / 10000;
662     launchStamp = block.timestamp;
663     }
664
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 661

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
660  swapThreshold = (balanceOf(lpPair) * 10) / 10000;  
661  swapAmount = (balanceOf(lpPair) * 30) / 10000;  
662  launchStamp = block.timestamp;  
663  }  
664  
665
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 661

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
660 swapThreshold = (balanceOf(lpPair) * 10) / 10000;  
661 swapAmount = (balanceOf(lpPair) * 30) / 10000;  
662 launchStamp = block.timestamp;  
663 }  
664  
665
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 678

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
677   require(accounts.length == amounts.length, "Lengths do not match.");
678   for (uint16 i = 0; i < accounts.length; i++) {
679       require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
680       finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
681   }
682
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 679

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
678   for (uint16 i = 0; i < accounts.length; i++) {
679       require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
680       finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
681   }
682   }
683
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 679

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
678   for (uint16 i = 0; i < accounts.length; i++) {
679       require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
680       finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
681   }
682   }
683
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 680

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
679     require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
680     finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
681   }
682 }
683
684
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 680

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
679     require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
680     finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
681   }
682 }
683
684
```

SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 694

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
693     }
694     _tOwned[from] -= amount;
695     uint256 amountReceived = (takeFee) ? takeTaxes(from, buy, sell, amount) : amount;
696     _tOwned[to] += amountReceived;
697     emit Transfer(from, to, amountReceived);
698
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 696

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
695 uint256 amountReceived = (takeFee) ? takeTaxes(from, buy, sell, amount) : amount;
696 _tOwned[to] += amountReceived;
697 emit Transfer(from, to, amountReceived);
698 if (!_hasLiqBeenAdded) {
699     _checkLiquidityAdd(from, to);
700 }
```


SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 709

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
708 Ratios memory ratios = _ratios;
709 uint256 total = ratios.totalSwap + ratios.rewards;
710 uint256 currentFee;
711 if (buy) {
712     currentFee = _taxRates.buyFee;
713 }
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 722

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
721  || block.chainid == 56)) { currentFee = 4500; }
722  uint256 feeAmount = amount * currentFee / masterTaxDivisor;
723  uint256 rewardsAmount = feeAmount * ratios.rewards / total;
724  uint256 swapAmt = feeAmount - rewardsAmount;
725  if (swapAmt > 0) {
726
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 722

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
721  || block.chainid == 56)) { currentFee = 4500; }
722  uint256 feeAmount = amount * currentFee / masterTaxDivisor;
723  uint256 rewardsAmount = feeAmount * ratios.rewards / total;
724  uint256 swapAmt = feeAmount - rewardsAmount;
725  if (swapAmt > 0) {
726
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 723

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
722 uint256 feeAmount = amount * currentFee / masterTaxDivisor;
723 uint256 rewardsAmount = feeAmount * ratios.rewards / total;
724 uint256 swapAmt = feeAmount - rewardsAmount;
725 if (swapAmt > 0) {
726     _tOwned[address(this)] += swapAmt;
727 }
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 723

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
722 uint256 feeAmount = amount * currentFee / masterTaxDivisor;
723 uint256 rewardsAmount = feeAmount * ratios.rewards / total;
724 uint256 swapAmt = feeAmount - rewardsAmount;
725 if (swapAmt > 0) {
726     _tOwned[address(this)] += swapAmt;
727 }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 724

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
723     uint256 rewardsAmount = feeAmount * ratios.rewards / total;
724     uint256 swapAmt = feeAmount - rewardsAmount;
725     if (swapAmt > 0) {
726         _tOwned[address(this)] += swapAmt;
727         emit Transfer(from, address(this), swapAmt);
728     }
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 726

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
725     if (swapAmt > 0) {  
726         _tOwned[address(this)] += swapAmt;  
727         emit Transfer(from, address(this), swapAmt);  
728     }  
729     if (rewardsAmount > 0) {  
730
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 730

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
729     if (rewardsAmount > 0) {  
730         _tOwned[_taxWallets.rewards] += rewardsAmount;  
731         emit Transfer(from, _taxWallets.rewards, rewardsAmount);  
732     }  
733  
734
```


SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 734

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
733  
734     return amount - feeAmount;  
735     }  
736     }  
737
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 6

low SEVERITY

The current pragma Solidity directive is "">=0.6.0<0.9.0"". 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

- ApefundV2.sol

Locations

```
5 // SPDX-License-Identifier: MIT
6 pragma solidity >=0.6.0 <0.9.0;
7
8 interface IERC20 {
9     function totalSupply() external view returns (uint256);
10
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 105

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
104 mapping (address => uint256) private _tOwned;
105 mapping (address => bool) lpPairs;
106 uint256 private timeSinceLastPair = 0;
107 mapping (address => mapping (address => uint256)) private _allowances;
108 mapping (address => bool) private _liquidityHolders;
109
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 180

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
179
180 bool inSwap;
181 bool public contractSwapEnabled = false;
182 uint256 public swapThreshold;
183 uint256 public swapAmount;
184
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 192

low SEVERITY

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.

Source File

- ApefundV2.sol

Locations

```
191  bool public _hasLiqBeenAdded = false;
192  Protections protections;
193  uint256 public launchStamp;
194
195  event ContractSwapEnabledUpdated(bool enabled);
196
```

SWC-115 | USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.

LINE 498

low SEVERITY

The tx.origin environment variable has been found to influence a control flow decision. Note that using "tx.origin" as a security control might cause a situation where a user inadvertently authorizes a smart contract to perform an action on their behalf. It is recommended to use "msg.sender" instead.

Source File

- ApefundV2.sol

Locations

```
497    && to != _owner
498    && tx.origin != _owner
499    && !_liquidityHolders[to]
500    && !_liquidityHolders[from]
501    && to != DEAD
502
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 575

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
574 address[] memory path = new address[](2);
575 path[0] = address(this);
576 path[1] = dexRouter.WETH();
577
578 try dexRouter.swapExactTokensForETHSupportingFeeOnTransferTokens(
579
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 576

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
575 path[0] = address(this);
576 path[1] = dexRouter.WETH();
577
578 try dexRouter.swapExactTokensForETHSupportingFeeOnTransferTokens(
579     swapAmt,
580
```


SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 607

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
606 path = new address[](2);
607 path[0] = dexRouter.WETH();
608 path[1] = BUSD;
609
610 try dexRouter.swapExactETHForTokens(value: address(this).balance)
611
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 608

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
607 path[0] = dexRouter.WETH();
608 path[1] = BUSD;
609
610 try dexRouter.swapExactETHForTokens{value: address(this).balance}
611 (
612
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 679

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
678   for (uint16 i = 0; i < accounts.length; i++) {
679       require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
680       finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
681   }
682   }
683
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 680

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
679     require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
680     finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
681   }
682 }
683
684
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 680

low SEVERITY

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

Source File

- ApefundV2.sol

Locations

```
679     require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
680     finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
681   }
682 }
683
684
```

SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.

LINE 657

low SEVERITY

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source File

- ApefundV2.sol

Locations

```
656  }
657  try protections.setLaunch(lpPair, uint32(block.number), uint64(block.timestamp),
_decimals) {} catch {}
658  tradingEnabled = true;
659  allowedPresaleExclusion = false;
660  swapThreshold = (balanceOf(lpPair) * 10) / 10000;
661
```

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