

Zeuswap

# Smart Contract Audit Report



03 Nov 2022



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# **AUDITED DETAILS**

### Audited Project

Project name	Token ticker	Blockchain	
Zeuswap	ZEUS	Binance Smart Chain	

# Addresses

Contract address	0x321427ec9759e535d1033d5C0478D4bEA9a0CB56	
Contract deployer address	0x169155527F850C3A3c897e153F7e61cE43b72f66	

### Project Website

https://www.zeuswap.finance/

### Codebase

https://bscscan.com/address/0x321427ec9759e535d1033d5C0478D4bEA9a0CB56#code



### **SUMMARY**

ZEUSWAP is the fastest & most secure DEX with double-layer SSL protection and the first ever with Insurance Protection Scheme to ensure users' assets protection. With our Insurance Program, our goal is to put the days of getting rugged in DeFi a thing of the past. Our Advantages are AUDIT + KYC, DAPP + SWAP LIVE: https://dapp.zeuswap.finance/swap, No private sales, Buyback tax to ensure stable token price, AMA & Calls with Tier 1 Channels, High APR Staking, 200% extra token for BIG BUY BONUS.

### Contract Summary

#### **Documentation Quality**

Zeuswap 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 Zeuswap 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 568, 578, 586, 605, 607, 619, 620, 634, 636, 749, 749, 749, 750, 750, 750, 766, 766, 767, 803, 803, 803, 805, 815, 815, 815, 817, 865, 869, 870, 874, 874, 899, 899, 900, 909, 915, 916, 931, 959, 961, 962, 963, 964, 964, 967, 967, 972, 972, 977 and 977.
- 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 921, 922, 949 and 950.



# CONCLUSION

We have audited the NamaFile project released on January 2023 to discover issues and identify potential security vulnerabilities in NamaFile 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 NamaFile 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 issue found is out of bounds array access be aware 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.	PASS	
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.	cent version of the PASS	
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	PASS	
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.		
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.		
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	PASS	
Reentrancy	SWC-107	7 Check effect interaction pattern should be followed if the code performs recursive call.		
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.		
Assert Violation	SWC-110 SWC-123			
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	PASS	
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.		



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.	
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	
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.	
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		PASS
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.	
Arbitrary Jump Function	SWC-127	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	PASS



# **SMART CONTRACT ANALYSIS**

Started	Wednesday Nov 02 2022 19:00:41 GMT+0000 (Coordinated Universal Time)		
Finished	Thursday Nov 03 2022 16:11:12 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	Zeuswap.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



ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
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ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
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ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
	ARITHMETIC OPERATION "-" DISCOVERED  ARITHMETIC OPERATION "-" DISCOVERED  ARITHMETIC OPERATION "-" DISCOVERED  ARITHMETIC OPERATION "-" DISCOVERED  ARITHMETIC OPERATION "+" DISCOVERED  ARITHMETIC OPERATION "/" DISCOVERED  ARITHMETIC OPERATION "*" DISCOVERED  ARITHMETIC OPERATION "*" DISCOVERED  ARITHMETIC OPERATION "/" DISCOVERED  ARITHMETIC OPERATION "/" DISCOVERED  ARITHMETIC OPERATION "/" DISCOVERED  ARITHMETIC OPERATION "/" DISCOVERED  OUT OF BOUNDS ARRAY ACCESS  OUT OF BOUNDS ARRAY ACCESS	ARITHMETIC OPERATION "/" DISCOVERED IOW  ARITHMETIC OPERATION "-" DISCOVERED IOW  ARITHMETIC OPERATION "-" DISCOVERED IOW  ARITHMETIC OPERATION "-" DISCOVERED IOW  ARITHMETIC OPERATION "+" DISCOVERED IOW  ARITHMETIC OPERATION "/" DISCOVERED IOW  OUT OF BOUNDS ARRAY ACCESS IOW  OUT OF BOUNDS ARRAY ACCESS IOW



**LINE 568** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
567 unchecked {
568 _approve(sender, _msgSender(), currentAllowance - amount);
569 }
570 }
571
572
```



**LINE 578** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
577 function increaseAllowance(address spender, uint256 addedValue) public virtual
returns (bool) {
578    _approve(_msgSender(), spender, _allowances[_msgSender()][spender] + addedValue);
579    return true;
580  }
581
582
```



**LINE 586** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
585 unchecked {
586   _approve(_msgSender(), spender, currentAllowance - subtractedValue);
587  }
588
589   return true;
590
```



**LINE 605** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
604 unchecked {
605  _balances[sender] = senderBalance - amount;
606  }
607  _balances[recipient] += amount;
608
609
```



**LINE 607** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
606  }
607  _balances[recipient] += amount;
608
609  emit Transfer(sender, recipient, amount);
610
611
```



**LINE** 619

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
618
619 _totalSupply += amount;
620 _balances[account] += amount;
621 emit Transfer(address(0), account, amount);
622
623
```



**LINE 620** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
619  _totalSupply += amount;
620  _balances[account] += amount;
621  emit Transfer(address(0), account, amount);
622
623  _afterTokenTransfer(address(0), account, amount);
624
```



**LINE 634** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
633 unchecked {
634   _balances[account] = accountBalance - amount;
635  }
636   _totalSupply -= amount;
637
638
```



**LINE 636** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
635 }
636 _totalSupply -= amount;
637
638 emit Transfer(account, address(0), amount);
639
640
```



**LINE** 749

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
748
749 _totalFeesOnBuy = liquidityFeeOnBuy + marketingFeeOnBuy + insuranceFeeOnBuy + devFeeOnBuy;
750 _totalFeesOnSell = liquidityFeeOnSell + marketingFeeOnSell + insuranceFeeOnSell + devFeeOnSell;
751
752 walletToWalletTransferFee = 0;
753
```



**LINE** 749

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
748
749 _totalFeesOnBuy = liquidityFeeOnBuy + marketingFeeOnBuy + insuranceFeeOnBuy + devFeeOnBuy;
750 _totalFeesOnSell = liquidityFeeOnSell + marketingFeeOnSell + insuranceFeeOnSell + devFeeOnSell;
751
752 walletToWalletTransferFee = 0;
753
```



**LINE** 749

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
748
749 _totalFeesOnBuy = liquidityFeeOnBuy + marketingFeeOnBuy + insuranceFeeOnBuy + devFeeOnBuy;
750 _totalFeesOnSell = liquidityFeeOnSell + marketingFeeOnSell + insuranceFeeOnSell + devFeeOnSell;
751
752 walletToWalletTransferFee = 0;
753
```



**LINE** 750

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
749 _totalFeesOnBuy = liquidityFeeOnBuy + marketingFeeOnBuy + insuranceFeeOnBuy + devFeeOnBuy;
750 _totalFeesOnSell = liquidityFeeOnSell + marketingFeeOnSell + insuranceFeeOnSell + devFeeOnSell;
751
752 walletToWalletTransferFee = 0;
753
754
```



**LINE** 750

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
749 _totalFeesOnBuy = liquidityFeeOnBuy + marketingFeeOnBuy + insuranceFeeOnBuy + devFeeOnBuy;
750 _totalFeesOnSell = liquidityFeeOnSell + marketingFeeOnSell + insuranceFeeOnSell + devFeeOnSell;
751
752 walletToWalletTransferFee = 0;
753
754
```



**LINE** 750

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
749 _totalFeesOnBuy = liquidityFeeOnBuy + marketingFeeOnBuy + insuranceFeeOnBuy + devFeeOnBuy;
750 _totalFeesOnSell = liquidityFeeOnSell + marketingFeeOnSell + insuranceFeeOnSell + devFeeOnSell;
751
752 walletToWalletTransferFee = 0;
753
754
```



**LINE** 766

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
765
766 _mint(owner(), 1e8 * (10 ** decimals()));
767 swapTokensAtAmount = totalSupply() / 5000;
768 }
769
770
```



**LINE** 766

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
765
766 _mint(owner(), 1e8 * (10 ** decimals()));
767 swapTokensAtAmount = totalSupply() / 5000;
768 }
769
770
```



**LINE** 767

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
766 _mint(owner(), 1e8 * (10 ** decimals()));
767    swapTokensAtAmount = totalSupply() / 5000;
768    }
769
770    receive() external payable {
771
```



**LINE 803** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
802
803 _totalFeesOnBuy = liquidityFeeOnBuy + marketingFeeOnBuy + insuranceFeeOnBuy + devFeeOnBuy;
804
805 require(_totalFeesOnBuy + _totalFeesOnSell <= 25, "Total Fees cannot be more than 25%");
806
807
```



**LINE 803** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
802
803 _totalFeesOnBuy = liquidityFeeOnBuy + marketingFeeOnBuy + insuranceFeeOnBuy + devFeeOnBuy;
804
805 require(_totalFeesOnBuy + _totalFeesOnSell <= 25, "Total Fees cannot be more than 25%");
806
807
```



**LINE 803** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
802
803 _totalFeesOnBuy = liquidityFeeOnBuy + marketingFeeOnBuy + insuranceFeeOnBuy + devFeeOnBuy;
804
805 require(_totalFeesOnBuy + _totalFeesOnSell <= 25, "Total Fees cannot be more than 25%");
806
807
```



**LINE 805** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
804
805 require(_totalFeesOnBuy + _totalFeesOnSell <= 25, "Total Fees cannot be more than
25%");
806
807 emit UpdateBuyFees(liquidityFeeOnBuy, marketingFeeOnBuy, insuranceFeeOnBuy,
devFeeOnBuy);
808 }
809</pre>
```



**LINE 815** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
814 devFeeOnSell = _devFeeOnSell;
815 _totalFeesOnSell = liquidityFeeOnSell + marketingFeeOnSell + insuranceFeeOnSell +
devFeeOnSell;
816
817    require(_totalFeesOnBuy + _totalFeesOnSell <= 25, "Total Fees cannot be more than
25%");
818
819</pre>
```



**LINE 815** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
814 devFeeOnSell = _devFeeOnSell;
815 _totalFeesOnSell = liquidityFeeOnSell + marketingFeeOnSell + insuranceFeeOnSell +
devFeeOnSell;
816
817    require(_totalFeesOnBuy + _totalFeesOnSell <= 25, "Total Fees cannot be more than
25%");
818
819</pre>
```



**LINE 815** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
814 devFeeOnSell = _devFeeOnSell;
815 _totalFeesOnSell = liquidityFeeOnSell + marketingFeeOnSell + insuranceFeeOnSell +
devFeeOnSell;
816
817    require(_totalFeesOnBuy + _totalFeesOnSell <= 25, "Total Fees cannot be more than
25%");
818
819</pre>
```



**LINE 817** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
816
817    require(_totalFeesOnBuy + _totalFeesOnSell <= 25, "Total Fees cannot be more than
25%");
818
819    emit UpdateSellFees(liquidityFeeOnSell, marketingFeeOnSell, insuranceFeeOnSell,
devFeeOnSell);
820  }
821</pre>
```



**LINE 865** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
864 to == uniswapV2Pair &&
865 _totalFeesOnBuy + _totalFeesOnSell > 0
866 ) {
867 swapping = true;
868
869
```



**LINE 869** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
868
869 uint256 totalFee = _totalFeesOnBuy + _totalFeesOnSell;
870 uint256 liquidityShare = liquidityFeeOnBuy + liquidityFeeOnSell;
871
872
873
```



**LINE 870** 

#### **low SEVERITY**

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

### Source File

- Zeuswap.sol

```
869  uint256 totalFee = _totalFeesOnBuy + _totalFeesOnSell;
870  uint256 liquidityShare = liquidityFeeOnBuy + liquidityFeeOnSell;
871
872
873  if (liquidityShare > 0) {
874
```



**LINE 874** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
if (liquidityShare > 0) {
874    uint256 liquidityTokens = (contractTokenBalance * liquidityShare) / totalFee;
875    swapAndLiquify(liquidityTokens);
876    }
877
878
```



**LINE 874** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
if (liquidityShare > 0) {
874    uint256 liquidityTokens = (contractTokenBalance * liquidityShare) / totalFee;
875    swapAndLiquify(liquidityTokens);
876    }
877
878
```



**LINE 899** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
if (_totalFees > 0) {
    uint256 fees = (amount * _totalFees) / 100;
    amount = amount - fees;
    super._transfer(from, address(this), fees);
    }
    302 }
```



**LINE 899** 

### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
if (_totalFees > 0) {
    uint256 fees = (amount * _totalFees) / 100;
    amount = amount - fees;
    super._transfer(from, address(this), fees);
    }
    302 }
```



**LINE 900** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
899  uint256 fees = (amount * _totalFees) / 100;
900  amount = amount - fees;
901  super._transfer(from, address(this), fees);
902  }
903
904
```



**LINE** 909

#### **low SEVERITY**

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

### Source File

- Zeuswap.sol

```
function setSwapTokensAtAmount(uint256 newAmount) external onlyOwner{
function setSwapTokensAtAmount (uint256 newAmount) external onlyOwner{
function setSwapTokensAtAmount > totalSupply() / 1000000, "SwapTokensAtAmount must be greater than 0.0001% of total supply");
function setSwapTokensAtAmount = newAmount,
function setSwapTokensAtAmount must be greater than 0.0001% of total supply");
function setSwapTokensAtAmount must be greater than 0.0001% of total supply");
function setSwapTokensAtAmount (uint256 newAmount) external onlyOwner{
function setSwapTokensAtAmount must be greater than 0.0001% of total supply");
function setSwapTokensAtAmount must be greater than 0.0001% of total supply");
function setSwapTokensAtAmount must be greater than 0.0001% of total supply");
function setSwapTokensAtAmount must be greater than 0.0001% of total supply");
function setSwapTokensAtAmount;
function setSwapTokensAtAmount must be greater than 0.0001% of total supply");
function setSwapTokensAtAmount;
function setSwapTokensAtAmount;
function setSwapTokensAtAmount);
function setSwapTokensAtAmountUpdated(swapTokensAtAmount);
function setSwapTokensAtAmountUpd
```



**LINE 915** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
914 function swapAndLiquify(uint256 tokens) private {
915  uint256 half = tokens / 2;
916  uint256 otherHalf = tokens - half;
917
918  uint256 initialBalance = address(this).balance;
919
```



**LINE 916** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
915  uint256 half = tokens / 2;
916  uint256 otherHalf = tokens - half;
917
918  uint256 initialBalance = address(this).balance;
919
920
```



**LINE 931** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
930
931 uint256 newBalance = address(this).balance - initialBalance;
932
933 uniswapV2Router.addLiquidityETH{value: newBalance}(
934 address(this),
935
```



**LINE 959** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
958
959 uint256 newBalance = address(this).balance - initialBalance;
960
961 uint256 marketingShare = marketingFeeOnBuy + marketingFeeOnSell;
962 uint256 insuranceShare = insuranceFeeOnBuy + insuranceFeeOnSell;
963
```



**LINE 961** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
960
961 uint256 marketingShare = marketingFeeOnBuy + marketingFeeOnSell;
962 uint256 insuranceShare = insuranceFeeOnBuy + insuranceFeeOnSell;
963 uint256 devShare = devFeeOnBuy + devFeeOnSell;
964 uint256 totalShare = marketingShare + insuranceShare + devShare;
965
```



**LINE 962** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
961  uint256 marketingShare = marketingFeeOnBuy + marketingFeeOnSell;
962  uint256 insuranceShare = insuranceFeeOnBuy + insuranceFeeOnSell;
963  uint256 devShare = devFeeOnBuy + devFeeOnSell;
964  uint256 totalShare = marketingShare + insuranceShare + devShare;
965
966
```



**LINE** 963

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
962  uint256 insuranceShare = insuranceFeeOnBuy + insuranceFeeOnSell;
963  uint256 devShare = devFeeOnBuy + devFeeOnSell;
964  uint256 totalShare = marketingShare + insuranceShare + devShare;
965
966  if (marketingShare > 0) {
967
```



**LINE 964** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
963  uint256 devShare = devFeeOnBuy + devFeeOnSell;
964  uint256 totalShare = marketingShare + insuranceShare + devShare;
965
966  if (marketingShare > 0) {
967   uint256 marketingTokens = (newBalance * marketingShare) / totalShare;
968
```



**LINE 964** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
963  uint256 devShare = devFeeOnBuy + devFeeOnSell;
964  uint256 totalShare = marketingShare + insuranceShare + devShare;
965
966  if (marketingShare > 0) {
967   uint256 marketingTokens = (newBalance * marketingShare) / totalShare;
968
```



**LINE 967** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
966 if (marketingShare > 0) {
967  uint256 marketingTokens = (newBalance * marketingShare) / totalShare;
968  payable(marketingWallet).sendValue(marketingTokens);
969  }
970
971
```



**LINE 967** 

### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
966 if (marketingShare > 0) {
967  uint256 marketingTokens = (newBalance * marketingShare) / totalShare;
968  payable(marketingWallet).sendValue(marketingTokens);
969  }
970
971
```



**LINE 972** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
971 if (insuranceShare > 0) {
972  uint256 insuranceTokens = (newBalance * insuranceShare) / totalShare;
973  payable(insuranceWallet).sendValue(insuranceTokens);
974  }
975
976
```



**LINE 972** 

### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
971 if (insuranceShare > 0) {
972  uint256 insuranceTokens = (newBalance * insuranceShare) / totalShare;
973  payable(insuranceWallet).sendValue(insuranceTokens);
974  }
975
976
```



**LINE 977** 

### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
976  if (devShare > 0) {
977   uint256 devTokens = (newBalance * devShare) / totalShare;
978   payable(devWallet).sendValue(devTokens);
979  }
980
981
```



**LINE 977** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
976  if (devShare > 0) {
977   uint256 devTokens = (newBalance * devShare) / totalShare;
978   payable(devWallet).sendValue(devTokens);
979  }
980
981
```



**LINE 921** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
920 address[] memory path = new address[](2);
921 path[0] = address(this);
922 path[1] = uniswapV2Router.WETH();
923
924 uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
925
```



**LINE 922** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
921 path[0] = address(this);
922 path[1] = uniswapV2Router.WETH();
923
924 uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
925 half,
926
```



**LINE 949** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
948 address[] memory path = new address[](2);
949 path[0] = address(this);
950 path[1] = uniswapV2Router.WETH();
951
952 uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
953
```



**LINE 950** 

#### **low SEVERITY**

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

#### Source File

- Zeuswap.sol

```
949 path[0] = address(this);
950 path[1] = uniswapV2Router.WETH();
951
952 uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
953 tokenAmount,
954
```



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