

# Smart Contract Security Audit Report

### AscentPac

January 2023

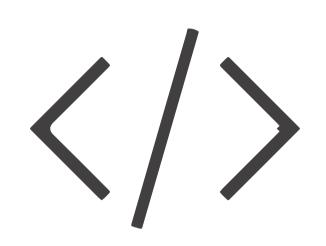


### Audit Details

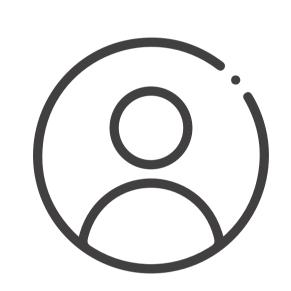


### Audited project

AscentPad

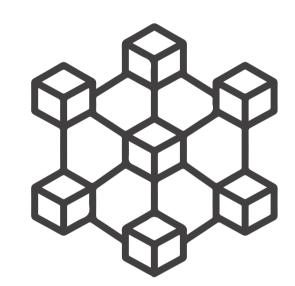


**Deployer address**0xa4236501aa5723e1db0730a539b02d132cc6d326



### Client contacts

AscentPad



### Blockchain

Binance smart chain



### Website

Not Provided

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### Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

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### Procedure

#### Step 1 - In-Depth Manual Review

Manual line-by-line code reviews to ensure the logic behind each function is sound and safe from various attack vectors. This is the most important and lengthy portion of the audit process (as automated tools often cannot find the nuances that lead to exploits such as flash loan attacks).

#### Step 2 - Automated Testing

Simulation of a variety of interactions with your Smart Contract on a test blockchain leveraging a combination of automated test tools and manual testing to determine if any security vulnerabilities exist.

#### Step 3 – Leadership Review

The engineers assigned to the audit will schedule meetings with our leadership team to review the contracts, any comments or findings, and ask questions to further apply adversarial thinking to discuss less common attack vectors.

#### Step 4 - Resolution of Issues

Consulting with the team to provide our recommendations to ensure the code's security and optimize its gas efficiency, if possible. We assist project team's in resolving any outstanding issues or implementing our recommendations.

#### Step 5 - Published Audit Report

Boiling down results and findings into an easy-to-read report tailored to the project. Our audit reports highlight resolved issues and any risks that exist to the project or its users, along with any remaining suggested remediation measures. Diagrams are included at the end of each report to help users understand the interactions which occur within the project.

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## Background

#### HackSafe was commissioned by AscentPad to perform an audit of smart contracts:

• https://bscscan.com/token/0x7A66eBFD6Ef9e74213119717A3d03758A4A5891e#code

#### The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

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### Contract Details

#### Token contract details for 13.01.2023

: Lauchpad Token Type Contract name : AscentPad Contract address : 0x7A66eBFD6Ef9e74213119717A3d03758A4A5891e Total supply : 100,000,000 Token ticker : ASP Decimals : 18 Token Holders : 1,145 Transactions count : 10,852 Compiler version : v0.8.7+commit.e28d00a7 Contract deployer : 0xa4236501aa5723e1db0730a539b02d132cc6d326 address Owner address : 0xa48cc98bd5fa121c86a8091f283b4fe759de8cd0

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## Audit Summary

According to the standard audit assessment, Customer`s solidity smart contracts are "Secure". This token contract does contain owner control as ownership has not been renounced, which do not make it fully decentralized.

Insecure Poor secured Secure Well-secured

You are here

We used various tools like Slither, Mythril and Remix IDE. At the same time this finding is based on critical analysis of the manual audit. All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the issues checking status.

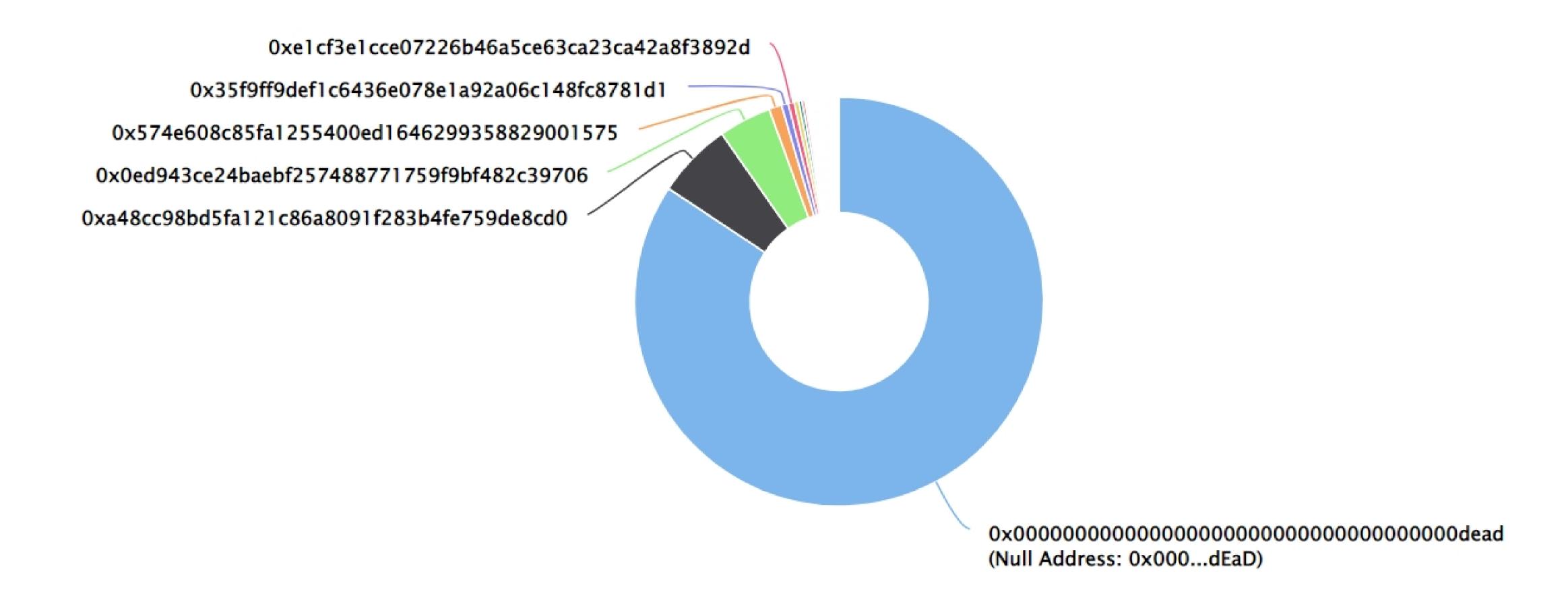
We found 0 critical, 0 high, 1 medium and 0 low.

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### AscentPad Token Distribution

#### AscentPad Top 100 Token Holders

Source: BscScan.com



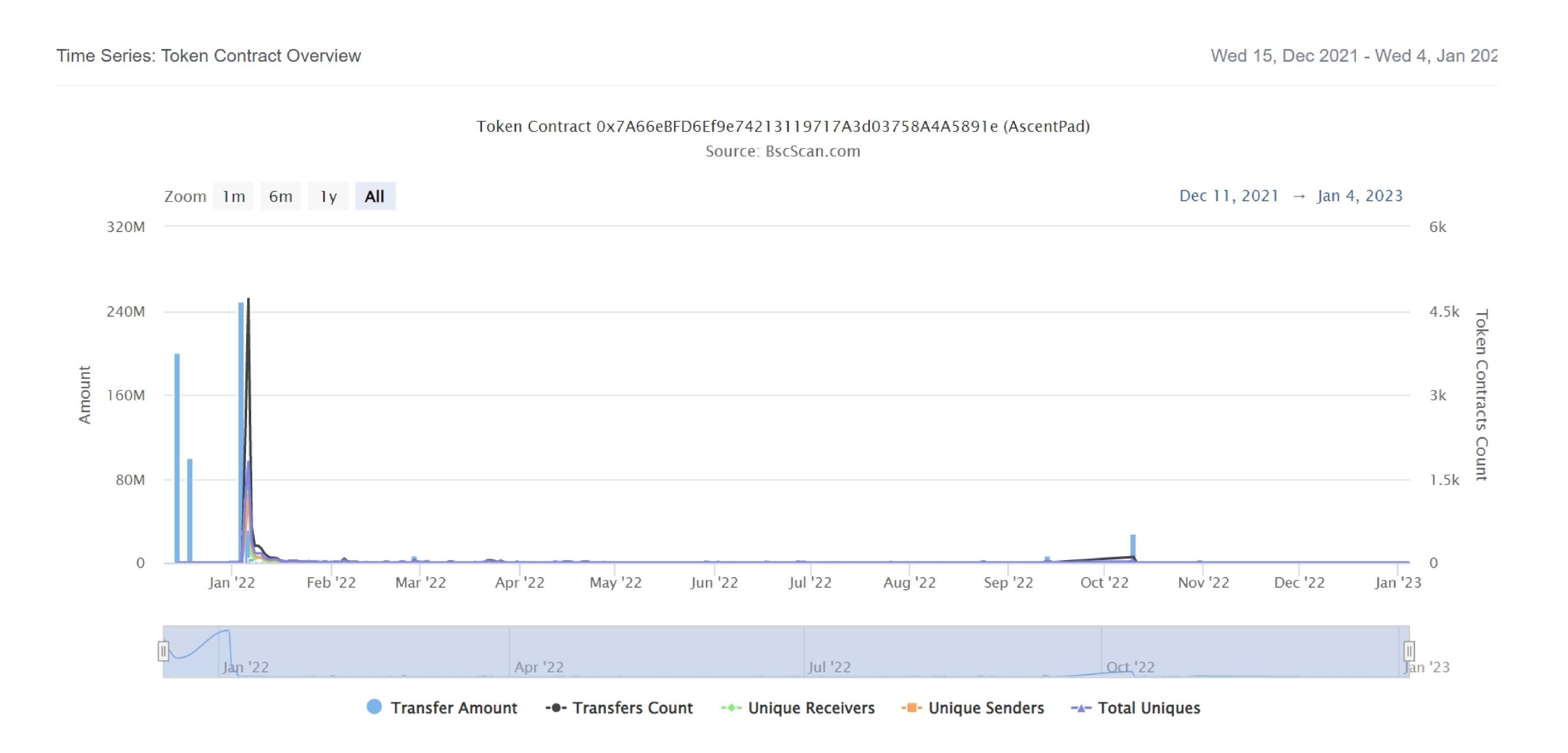
### AscentPad Top 20 Token Holders

(A total of 99,878,170.47 tokens held by the top 100 accounts from the total supply of 100,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	Null Address: 0x000dEaD	84,309,515.365414392597637795	84.3095%
2	0xa48cc98bd5fa121c86a8091f283b4fe759de8cd0	5,980,180.648380527030583759	5.9802%
3	(a) 0x0ed943ce24baebf257488771759f9bf482c39706	4,161,720.65012449974358516	4.1617%
4	0x574e608c85fa1255400ed1646299358829001575	1,000,000	1.0000%
5	0x35f9ff9def1c6436e078e1a92a06c148fc8781d1	544,983.020725823852139299	0.5450%
6	0xe1cf3e1cce07226b46a5ce63ca23ca42a8f3892d	475,162.626381231139049823	0.4752%
7	0x3f7874893be805da4fcc2d10d5d5b810f667090a	355,436.140430825619005778	0.3554%
8	0x9b69b82b91d9d610d53b41fc69146d6f96101be8	276,008.737116362530910118	0.2760%
9	0x4b1dac112860a8d9c11a218cc2fb57d08e347d7c	209,602.784329411950538853	0.2096%
10	0x792415138245dd9dbfa9ef79a34143b27244a8a8	157,148.780268583757549102	0.1571%
11	0xfee1a709b40aed4bab9806d4871e4421bdb33f30	141,496.193415138722248951	0.1415%
12	0x6b26f6b3c2c3e046483f16628aa948c1a475dd32	134,926.514938061723696411	0.1349%
13	0xc049825564c49a3b38c5b396ec8f67625240a26e	123,752.805291516192924912	0.1238%
14	PinkSale: PinkLock	116,815.8295490275094557	0.1168%
15	0x3dfcd044f5270696e9b6125a7f8a41b057b1c6a9	107,449.791082189308266938	0.1074%
16	0x0d375e56bd8a2c53686b294702d04414693bc1af	102,111.850591530890503803	0.1021%
17	0xd91976767b5f60af552ebb63de757973d0c2c2f5	99,000	0.0990%
18	0xbfe423f165a1eedbadb576522d73ed35624179d4	97,332.658091225357779341	0.0973%
19	0xacc3eb915a7c5461f6a014353784410090be32b2	92,236.425151605113739841	0.0922%
20	0xbcb1a70d7c499618ece766a31e2d7b141247f8bd	84,027.73574012635294304	0.0840%

### AscentPad Token Distribution

#### AscentPad Contract overview



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```
+Context
    -[Int] _msgSender
    -[Int] _msgData
+Ownable (Context)
    - [Pub] #
    - [Pub] owner
    - [Pub] renounceOwnership #
      - modifiers: onlyOwner
    - [Pub] transferOwnership #
      - modifiers: onlyOwner
    - [Pub] geUnlockTime
    - [Pub] lock #
      - modifiers: onlyOwner
    - [Pub] unlock #
+[Int] IERC20
    -[Ext] totalSupply
    -[Ext] balanceOf
    -[Ext] transfer #
    -[Ext] allowance
    -[Ext] approve #
    -[Ext] transferFrom #
+[Lib] SafeMath
    -[Int] add
    -[Int] sub
    -[Int] sub
    -[Int] mul
    -[Int] div
    -[Int] div
    -[Int] mod
    -[Int] mod
+[Lib] Address
    [Int] isContract
    - [Int] sendValue #
    - [Int] functionCall #
    - [Int] functionCall #
```

- [Int] functionCallWithValue #

```
- [Int] functionCallWithValue #
    - [Pvt] _functionCallWithValue #
+[Int] IUniswapV2Factory
    -[Ext] feeTo
    -[Ext] feeToSetter
    -[Ext] getpair
    -[Ext] allPairs
    -[Ext] allPairsLength
    -[Ext] createPair#
    -[Ext] setFeeTo #
    -[Ext] setFeeToSetter #
+ [Int] IUniswapV2Pair
    - [Ext] name
    [Ext] symbol
    - [Ext] decimals
    [Ext] totalSupply
    - [Ext] balanceOf
    [Ext] allowance
    [Ext] approve #
    - [Ext] transfer #
    - [Ext] transferFrom #
    - [Ext] DOMAIN_SEPARATOR
    - [Ext] PERMIT_TYPEHASH
    [Ext] nonces
    - [Ext] permit #
    - [Ext] MINIMUM_LIQUIDITY
    [Ext] factory
    - [Ext] token0
    - [Ext] token1
    [Ext] getReserves
    - [Ext] price0CumulativeLast
    - [Ext] price1CumulativeLast
    [Ext] kLast
    - [Ext] burn #
    [Ext] swap #
    - [Ext] skim #
    [Ext] sync #
```

```
[Ext] initialize #
+ [Int] IUniswapV2Router01
    [Ext] factory
    - [Ext] WETH
    [Ext] addLiquidity #
    [Ext] addLiquidityETH ($)
    - [Ext] removeLiquidity #
    - [Ext] removeLiquidityETH #
    - [Ext] removeLiquidityWithPermit #
    - [Ext] removeLiquidityETHWithPermit #
    [Ext] swapExactTokensForTokens #
    [Ext] swapTokensForExactTokens #
    [Ext] swapExactETHForTokens ($)
    [Ext] swapTokensForExactETH #
    [Ext] swapExactTokensForETH #
    [Ext] swapETHForExactTokens ($)
    - [Ext] quote
    - [Ext] getAmountOut
    [Ext] getAmountIn
    - [Ext] getAmountsOut
    - [Ext] getAmountsIn
+ [Int] IUniswapV2Router02 (IUniswapV2Router01)

    [Ext] removeLiquidityETHSupportingFeeOnTransferTokens #

    [Ext] removeLiquidityETHWithPermitSupportingFeeOnTransferTokens #

    [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens #

    [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens ($)

    [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #
+AscentPad (Context, IERC20, Ownable)
    - [Pub] #
    - [Pub] name
    - [Pub] isExcludedFromAntiwhale
    - [Pub] setExcludeFromAntiwhale #
     - modifiers: onlyOwner
    - [Pub] symbol
    - [Pub] decimals
    - [Pub] totalSupply
```

- [Pub] balanceOf

```
- [Pub] transfer #
- [Pub] allowance
- [Pub] approve #
- [Pub] transferFrom #
- [Pub] increaseAllowance #
- [Pub] decreaseAllowance #
- [Pub] isExcludedFromReward
- [Pub] setMaxTransferAmountRate #
 - modifiers: onlyOwner
- [Pub] totalFees
- [Pub] deliver #
- [Pub] reflectionFromToken
- [Pub] tokenFromReflection
- [Pub] excludeFromReward #
 - modifiers: onlyOwner
- [Ext] includeInReward #
 - modifiers: onlyOwner
- [Pvt] _transferBothExcluded #
- [Ext] ($)
- [Pvt] _reflectFee #
[Pvt] _getValues
[Pvt] _getTValues
- [Pvt] _getRValues
- [Pvt] _getRate
- [Pvt] _getCurrentSupply
- [Pvt] _takeMarketing #

    [Pvt] calculateTaxFee

- [Pvt] calculateMarketingFee
- [Pvt] removeAllFee #
[Pvt] restoreAllFee #
- [Pub] isExcludedFromFee
[Pvt] _approve #
- [Pvt] _transfer #
[Int] swapAndSendMarketing #
[Pvt] swapTokensForEth #
- [Pub] maxTransferAmount
[Pvt] _tokenTransfer #
```

- [Pvt] \_transferStandard #

```
- [Pvt] _transferToExcluded #
    - [Pvt] _transferFromExcluded #
    - [Pub] excludeFromFee #
     - modifiers: onlyOwner
    - [Pub] includeInFee #
      - modifiers: onlyOwner
    [Ext] setMarketingWallet #
     - modifiers: onlyOwner
    - [Ext] setTaxFeePercent #
     - modifiers: onlyOwner
    [Ext] setMarketingFee #
     - modifiers: onlyOwner

    [Ext] setNumTokensSellToAddToLiquidity #

     - modifiers: onlyOwner
    - [Pub] setSwapAndLiquifyEnabled #
     - modifiers: onlyOwner
($) = payable function
```

# = non-constant function

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## Issues Checking Status

No.	Title	Status
1.	Compiler error	Passed
2.	Missing Input Validation	Passed
3.	Race conditions and Reentrancy. Cross-function race conditions.	
4.	Possible delays in data delivery	
5.	Oracle calls.	Passed
6.	Timestamp dependence.	Passed
7.	Integer Overflow and Underflow	Passed
8.	DoS with Revert.	Passed
9.	DoS with block gas limit.	Medium Issue
10.	Methods execution permissions.	Passed
11.	Economy model of the contract.	Passed
12.	Private use data leaks.	Passed
13.	Malicious Event log.	Passed
14.	Scoping and Declarations.	Passed
15.	Uninitialized storage pointers.	Passed
16.	Arithmetic accuracy.	Passed
17.	Design Logic.	Passed
18.	Safe Open Zeppelin contracts implementation and usage.	Passed
19.	Incorrect Naming State Variable	Passed
20.	Too old version	Passed

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## Severity Definitions

Risk Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to assets loss or data manipulations.
High	High-level vulnerabilities are difficult to exploit; however, they also have a significant impact on smart contract execution, e.g., public access to crucial functions
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to assets loss or data manipulations.
Low	Low-level vulnerabilities are mostly related to outdated, unused, etc. code snippets that can't have a significant impact on execution.

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### Security Issues

#### Critical Severity Issues

No critical severity issue found.

#### High Severity Issues

No high severity issue found.

#### Medium Severity Issues

One medium severity issue found.

### 1. Out of gas

#### • Issue:

The function includeInReward() uses the loop to find and remove addresses from the \_excluded list. Function will be aborted with OUT\_OF\_GAS exception if there will be a long excluded addresses list.

The function \_getCurrentSupply also uses the loop for evaluating total supply. It also could be aborted with OUT\_OF\_GAS exception if there will be a long excluded addresses list.

#### Recommendation

Check that the excluded array length is not too big.

#### Low Severity Issues

No low severity issue found.

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### Centralization

#### Owner Privileges

- Deepmaze Coin Contract:
  - Owner can exclude from antiwhale.
  - Owner can change maxTransferAmountRate.
  - Owner can change marketing wallet.
  - Owner can change the tax and marketing fee.
  - Owner can change numTokensSell value.
  - Owner can enable/disable swap and liquify.
  - Owner can exclude from the fee.
  - Owner can lock and unlock. By the way, using these functions the owner could retake privileges even after the ownership was renounced.

This smart contract has some functions which can be executed by the admin (Owner) only. If the admin wallet private key would be compromised, then it would create trouble as ownership has not been renounced.

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### Conclusion

Smart contract contains medium severity issues! The further transfer and operations with the fund raised are not related to this particular contract.

HackSafe note: Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.

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