



APE SALE

Smart Contract Security Audit



Project: SINGINU

Website: <https://www.singinu.fun>



Low-Risk

2 low-risk code
issues found



Medium-Risk

1 medium-risk code
issue found



High-Risk

0 high-risk code issue
found

Contract Address

0x24f229cF1194C829D968eEB829879584EDc0E288

Disclaimer: ApeSale is not responsible for any financial losses. Nothing in this contract audit is a financial advice, please do your own research.

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Tokenomics

Rank	Address	Quantity (Token)
1	0x24f229cF1194C829D968eEB829879584EDc0E288	1,000,000,000,000,000

Source Code

ApeSale was commissioned by SINGINU to perform an audit based on the following smart contract:

<https://bscscan.com/address/0x24f229cF1194C829D968eEB829879584EDc0E288#code>

 **Medium-Risk:** Could be fixed, will not bring problems.

Contract can swap all fee token balance to BNB

Additional information: Contract can swap all fee token balance to BNB, this can cause a dump when variable "swapEnabled" is true and the token balance in the contract is large.

```
uint256 contractTokenBalance = balanceOf(address(this));
if (!inSwap && sender != uniswapV2Pair && swapEnabled && contractTokenBalance > 0) {
    swapTokensForBNB(contractTokenBalance);
    uint256 contractETHBalance = address(this).balance;
    if(contractETHBalance > 0) {
        sendBNBToFee(address(this).balance);
    }
}
```

You, 1 second ago • Uncommitted changes

Recommendation

Swap a certain amount of tokens slowly and cannot be more than 0.5% of total supply

 **Low-Risk:** Could be fixed, will not bring problems.

Several functions are declared public, but are never called internally:

excludeListFromFee, excludeFromFee, setUpdateMktAddress, setUpdateDevAddress

Recommendation

These functions should be declared external for additional gas savings on each call.

 **Low-Risk:** Could be fixed, will not bring problems.

No zero address validation for some functions

Detect missing zero address validation.

```
function setUpdateDevAddress(address payable dev) public onlyOwner {
    emit setDevAndMktAddress(_devAndMktAddress, dev);
    _devAndMktAddress = dev;
    _isExcludedFromFee[_devAndMktAddress] = true;
}

function setUpdateMktAddress(address payable mkt) public onlyOwner {
    emit setMktAddress(_mktAddress, mkt);
    _mktAddress = mkt;
    _isExcludedFromFee[_mktAddress] = true;
}
```

Recommendation

Check that the new address is not zero.

Exploit scenario

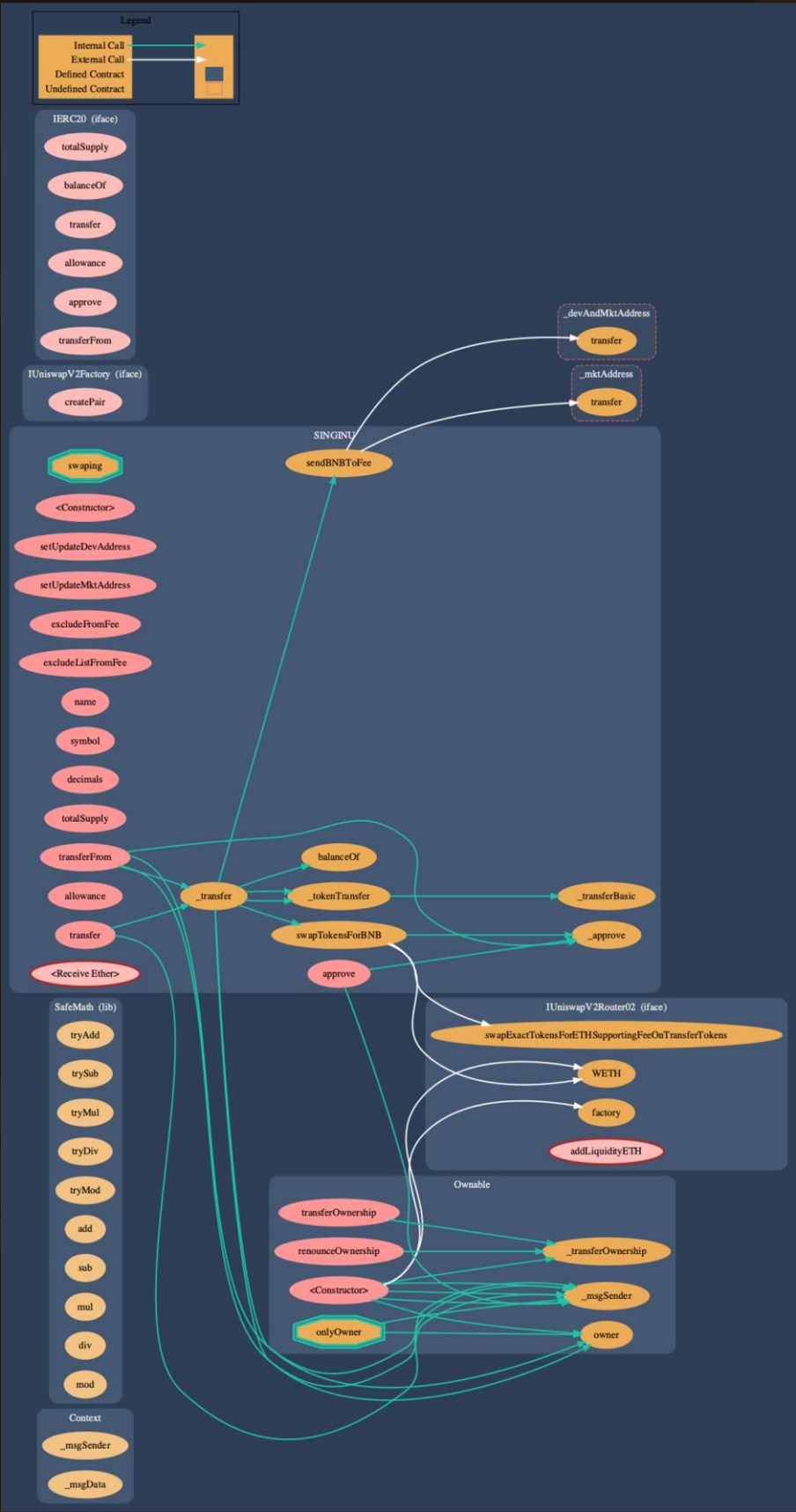
```
contract C {

    modifier onlyAdmin {
        if (msg.sender != owner) throw;
        _;
    }

    function updateOwner(address newOwner) onlyAdmin external {
        owner = newOwner;
    }
}
```

Bob calls updateOwner without specifying the newOwner, so Bob loses ownership of the contract.

Contracts Function Graph






Vulnerability Checklist

Nº	Description.	Result
1	Compiler warnings.	Passed
2	Race conditions and Re-entrancy. Cross-function race	Passed
3	Possible delays in data delivery.	Passed
4	Oracle calls.	Passed
5	Front running.	Passed
6	Timestamp dependence.	Passed
7	Integer Overflow and Underflow.	Passed
8	DoS with Revert.	Passed
9	DoS with block gas limit.	Passed
10	Methods execution permissions.	Passed
11	Economy model.	Passed
12	The impact of the exchange rate on the logic.	Passed
13	Private user data leaks.	Passed
14	Malicious Event log.	Passed
15	Scoping and Declarations.	Passed
16	Uninitialized storage pointers.	Passed
17	Arithmetic accuracy.	Passed
18	Design Logic.	Passed
19	Cross-function race conditions.	Passed

20	Safe Zeppelin module.	Passed
21	Fallback function security.	Passed

Contract overview

-  No burn functions are present though the circulating supply can be decreased by sending tokens to the 0x..dead address.
-  The owner can exclude accounts from transfer fees.
-  There is a Development fee and Marketing fee on all transfers via Pancakeswap where neither the sender nor the recipient is excluded from fees

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Audited by ApeSale.app



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✓ Advanced Manual Smart Contract Audit