



# APE SALE

## Smart Contract Security Audit



**Project:** KanguInu

**Website:** <https://kanguinu.com>



**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

0xdb219fec2c059fa9ef07b692fedf8d1fc80b166e

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

# Disclaimer

ApeSale is not responsible if a project turns out to be a scam, rug-pull or honeypot. We only provide a detailed analysis for your own research.

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	0xdb219fec2c059fa9ef07b692fedf8d1fc80b166e	1,000,000,000

# Source Code

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

<https://bscscan.com/address/0xdb219fec2c059fa9ef07b692fedf8d1fc80b166e#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 && from != uniswapV2Pair && swapEnabled && contractTokenBalance > 0) {
    swapTokensForEth(contractTokenBalance);
    uint256 contractETHBalance = address(this).balance;
    if(contractETHBalance > 0) {
        sendETHToFee(address(this).balance);
    }
}
```

#### **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:**

```
toggleSwap, excludeMultipleAccountsFromFees, rescueForeignTokens, setNewDevAddress, setNewMarketingAddress. setFee
```

#### **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.

```
event devAddressUpdated(address indexed previous, address indexed adr);
function setNewDevAddress(address payable dev) public onlyDev() {
    emit devAddressUpdated(_developmentAddress, dev);
    _developmentAddress = dev;
    _isExcludedFromFee[_developmentAddress] = true;
}

event marketingAddressUpdated(address indexed previous, address indexed adr);
function setNewMarketingAddress(address payable markt) public onlyDev() {
    emit marketingAddressUpdated(_marketingAddress, markt);
    _marketingAddress = markt;
    _isExcludedFromFee[_marketingAddress] = 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.

[illegible]

# 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

## Contract overview

-  Owner can set fees buy to 7%, sell to 7%
-  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

# KANGUINU

Audited by ApeSale.app



## APESALE

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✓ Advanced Manual Smart Contract Audit