



Smart Contract Security Audit

Audit details:

| | |
|--------------------------|---|
| Audited project: | Moon Pets Token |
| Deployer address: | 0x05A0727675d17373e0cC503423e86CBAdC3a9F82 |
| Client contacts: | Moon Pets Token team |
| Blockchain: | Network: Binance Smart Chain (BSC) |
| Project website: | http://moonpets.org |

FEB, 2022

W3 ECO

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.

Background

W3 ECO was commissioned by Moon Pets Token to perform an audit of smart contracts:

- <https://etherscan.io/address/0xd6bebd6c6dd8a72908ee42672ff719beaa6eb0401#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 used to 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.

Contracts details

Token contract details for 14.2.22.

| | |
|-----------------------------------|--|
| Contract name: | Moon Pets Token |
| Contract address: | 0xd6beBD6C6Dd8a72908ee42672Ff719bEAA6Eb040 |
| Total supply: | 1,000,000,000,000,000 |
| Token ticker: | MOONPETS |
| Decimals: | 9 |
| Token holders: | 1 |
| Transactions count: | 1 |
| Top 100 holders dominance: | 100 % |
| Tokens tradable: | False |
| Total ETH contributed: | 0 |
| Migration phase open: | False |
| Whitelisted number: | 1 |
| Contract deployer address: | 0x05A0727675d17373e0cC503423e86CBAdC3a9F82 |
| Contract's current owner address: | 0x05A0727675d17373e0cC503423e86CBAdC3a9F82 |

CONTRACT FUNCTION DETAILS

OWNER PRIVILEGES

Contract owner can't mint tokens after initial contract deploy

Contract owner can exclude/include wallet from fees

```
functionexcludeFromFee(addressaccount)publiconlyOwner()
{
    _isExcludedFromFee[account] =true;}
functionincludeInFee(addressaccount)publiconlyOwner() {
    _isExcludedFromFee[account] =false;
}
```

Contract owner can exclude/include wallet from rewards

```
functionexcludeFromReward(addressaccount)externalonlyOwner() {require(!_isExcluded[account],
"Account is already excluded");if(_rOwned[account] >0) {
    _tOwned[account] = tokenFromReection(_rOwned[account]);}
_isExcluded[account] =true;_excluded.push(account);
}
functionincludeInReward(addressaccount)externalonlyOwner() {require(_isExcluded[account],
"Account is already included");
for(uint256i =0; i < _excluded.length; i++) {if(_excluded[i] == account) {
    _excluded[i] = _excluded[_excluded.length -1];_tOwned[account] =0;
_isExcluded[account] =false;_excluded.pop();
break;}}
}}
```

Contract owner can change buyback settings

```
functionsetBuyback(boolb)externalonlyOwner() {_enableBuyback = b;
}
functionsetBuybackBNBThreshold(uint256bnbAmount)externalonlyOwner() {_buybackBNBThreshold =
bnbAmount;
}
functionsetBuybackUpperLimit(uint256buybackLimit)externalonlyOwner() {_buybackUpperLimit =
buybackLimit;
}
functionsetBuybackBNBPercentage(uint256percentage)externalonlyOwner() {_buybackBNBPercentage =
percentage;
}
```

Contract owner can change swap settings

```
functionsetLiquidity(boolb)externalonlyOwner() {_enableLiquidity = b;}
```

Contract owner can change swap settings

```
functionsetLottery(boolb)externalonlyOwner() {_enableLottery = b;
}
functionsetLotteryChance(uintchance)externalonlyOwner() {_lotteryChance = chance;
}
functionsetLotteryThreshold(uint256threshold)externalonlyOwner() {_lotteryThreshold = threshold;
}
functionsetLotteryMinimumSpend(uint256minimumSpend)externalonlyOwner() {_lotteryMinimumSpend =
minimumSpend;
}
```

Contract owner can change marketingAddressCurrent address:

marketingAddress:0x8D2DC8B97FB3981836ad279fD14Be84aFFDbE1Dd

```
functionsetMarketingAddress(addressmarketingAddress)externalonlyOwner() {_marketingAddress
= payable(marketingAddress);
}
```

Contract owner can change max tx amount

```
functionsetMaxTxAmount(uint256maxTxAmount)externalonlyOwner() {
require(maxTxAmount >= (_tTotal.mul(1).div(10000)).div(10**18),"amount must be greater
than 0.01%of the total supply");
_maxTxAmount = maxTxAmount;}
```

Contract owner can renounce ownership

```
functionrenounceOwnership()publicvirtualonlyOwner {_setOwner(address(0));
}
```

Contract owner can transfer ownership

```
functiontransferOwnership(addressnewOwner)publicvirtualonlyOwner {require(newOwner !=
address(0),"Ownable: new owner is the zero address");_setOwner(newOwner);
}
```

Contract owner can change _whaleSellThreshold, _tokenSwapThreshold and _whaleSellTimer

```
functionsetTokenSwapThreshold(uint256tokenSwapThreshold)externalonlyOwner()
{_tokenSwapThreshold = tokenSwapThreshold;
}
functionsetWhaleSellThreshold(uint256amount)externalonlyOwner() {_whaleSellThreshold = amount;
}
functionsetWhaleSellTimer(uinttime)externalonlyOwner() {_whaleSellTimer = time;
}
```

Contract owner can withdraw BNB or non-moon pet tokens from the contract

```
functionwithdrawBNB(uint256amount)publiconlyOwner() {if(amount ==0)payable(owner()).transfer
(address(this).balance);elsepayable(owner()).transfer(amount);
}
functionwithdrawForeignToken(addresstoken)publiconlyOwner() {require(address(this) !=address
(token),"Cannot withdraw native token");IERC20(address(token)).transfer(msg.sender, IERC20
(token).balanceOf(address(this)));
}
```

Issues Checking Status

| № | Issue description. | Checking status |
|----|--|-----------------|
| 1 | Compiler errors. | Passed |
| 2 | Race conditions and Reentrancy. Cross-function race conditions. | 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 of the contract. | 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 Open Zeppelin contracts implementation and usage. | Passed |
| 21 | Fallback function security. | Passed |

Security Issues

High Severity Issues

No high severity issues found.

Medium Severity Issues

No medium severity issues found.

Low Severity Issues

No low severity issues found.

Owner privileges

- ☐ Owner can change the wallet address using the function [setWallet](#).
- ☐ Owner can change the ico start date.
- ☐ Owner can change the ico end date.
- ☐ Owner can change the tokens per ETH.

Conclusion

Smart contracts do not contain high severity issues.

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.