

# Assure DeFi<sup>®</sup>

THE VERIFICATION **GOLD STANDARD**



## Security Assessment

### MemeLordz

Date: 11/09/2024



Audit Status: PASS

Audit Edition: Advanced



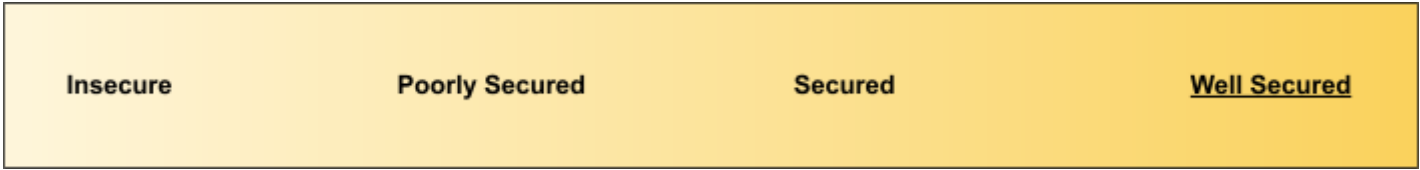
# Risk Analysis

## Vulnerability summary

Classification	Description
 High	High-level vulnerabilities can result in the loss of assets or manipulation of data.
 Medium	Medium-level vulnerabilities can be challenging to exploit, but they still have a considerable impact on smart contract execution, such as allowing public access to critical functions.
 Low	Low-level vulnerabilities are primarily associated with outdated or unused code snippets that generally do not significantly impact execution, sometimes they can be ignored.
 Informational	Informational vulnerabilities, code style violations, and informational statements do not affect smart contract execution and can typically be disregarded.

## Executive Summary

According to the Assure assessment, the Customer's smart contract is **Well Secured**.



# Scope

## Target Code And Revision

For this audit, we performed research, investigation, and review of the MemeLordz contracts followed by issue reporting, along with mitigation and remediation instructions outlined in this report.

## Target Code And Revision

<b>Project</b>	Assure
<b>Language</b>	Solidity
<b>Codebase</b>	Base contract: <a href="#">0x32B133AdD6d99d085Ff23F522662b546B70D54A1</a> BSC Contract: <a href="#">0x7bB5c17a9889FdE42c4C95A937F7D387B8Bcd409</a>
<b>Audit Methodology</b>	Static, Manual

# Attacks made to the contract

In order to check for the security of the contract, we tested several attacks in order to make sure that the contract is secure and follows best practices.

Category	Item
Code review & Functional Review	<ul style="list-style-type: none"><li>• Compiler warnings.</li><li>• Race conditions and Reentrancy. Cross-function race conditions.</li><li>• Possible delays in data delivery.</li><li>• Oracle calls.</li><li>• Front running.</li><li>• Timestamp dependence.</li><li>• Integer Overflow and Underflow.</li><li>• DoS with Revert.</li><li>• DoS with block gas limit.</li><li>• Methods execution permissions.</li><li>• Economy model.</li><li>• Private user data leaks.</li><li>• Malicious Event log.</li><li>• Scoping and Declarations.</li><li>• Uninitialized storage pointers.</li><li>• Arithmetic accuracy.</li><li>• Design Logic.</li><li>• Cross-function race conditions.</li><li>• Safe Zeppelin module.</li><li>• Fallback function security.</li><li>• Overpowered functions / Owner privileges</li></ul>



# AUDIT OVERVIEW



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No high severity issues were found.



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No medium severity issues were found.



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No low severity issues were found.



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No Informational severity issues were found.

# Testing coverage

During the testing phase, custom use cases were written to cover all the logic of contracts. *\*Check “Annexes” to see the testing code.*

## MemeLordz contract tests:

```
contract: Lordz - 70.9%
  Lordz.balanceOf - 100.0%
  Lordz.excludeFromFee - 100.0%
  Lordz.excludeFromMaxTransactionAmount - 100.0%
  Lordz.updateBurnFee - 100.0%
  Lordz.updateLiquidityFee - 100.0%
  Lordz.updateMarketingFee - 100.0%
  Lordz.updateMarketingWallet - 100.0%
  Lordz.updateMaxTransactionAmount - 100.0%
  Lordz.updateMaxWallet - 100.0%
  Lordz.updateMinAmountToTakeFee - 100.0%
  Lordz.updateRewardFee - 100.0%
  Lordz.updateTreasuryFee - 100.0%
  Lordz.updateTreasuryWallet - 100.0%
  Lordz.withdrawToken - 100.0%
  Ownable._checkOwner - 100.0%
  Lordz._transfer - 95.3%
  Lordz._tokenTransfer - 92.5%
  Address.functionCallWithValue - 75.0%
  Lordz._approve - 75.0%
  Lordz.tokenFromReflection - 75.0%
  Lordz.updateMainPair - 75.0%
  Lordz.withdrawETH - 75.0%
  SafeERC20._callOptionalReturn - 75.0%
  Lordz._setAutomatedMarketMakerPair - 66.7%
  Lordz.excludeFromReward - 65.0%
  Lordz._getCurrentSupply - 58.3%
  Address.verifyCallResultFromTarget - 41.7%
```

```
tests/test_lordz.py::test_constructor RUNNING
Transaction sent: 0x5547db6d602ba33595929a9a53e6e78aa818afc4393be739541208f4dc897027
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 0
WETH9.constructor confirmed Block: 1 Gas used: 476546 (3.97%)
WETH9 deployed at: 0x3194c80C3dbcd3E11a07892e7bA5c3394048Cc87

Transaction sent: 0x7bae2624e4397b7e8bf657828e1e07435f469ad759872b75091dcfb92e64b42d
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 1
UniswapV2Factory.constructor confirmed Block: 2 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0x602C71e4DAC47a042Ee7f46E0aee17F94A3bA086

Transaction sent: 0xfe6097b03e1a1a43331440c45f0d3c463a215b9ce3bb912ceff4521bea2b5fc7
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 2
UniswapV2Router02.constructor confirmed Block: 3 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0xE7eD6747FaC5360f88a2EFC03E00d25789F69291

Transaction sent: 0xcd819844b6787c9a21714a850cd8676228ef1a8994b609ace59662f46ba06354
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 3
Lordz.constructor confirmed (marketing wallet can not be 0) Block: 4 Gas used: 616327 (5.14%)

Transaction sent: 0x7fc698883a7976684a968272c1199d8e73aadd0b2d9f35f58ce81a6545cccc757
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 4
Lordz.constructor confirmed (Router address can not be 0) Block: 5 Gas used: 616394 (5.14%)

Transaction sent: 0x1b11fe5b4ac89c4214fa61b9119ec668c25cdd3de466ba5cf0ef93986d9231e1
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 5
Lordz.constructor confirmed (Treasury wallet can not be 0) Block: 6 Gas used: 616426 (5.14%)

Transaction sent: 0x1a304e444dcde87dd06965ee8bbcb93b7f5cb01f17ab6bc00f4233ca3b90a1b
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 6
Lordz.constructor confirmed (Treasury wallet can not be same with marketing wallet) Block: 7 Gas used: 616761 (5.14%)

Transaction sent: 0x90laacfc1bf8136a944d37f3bc8835bba05f451d97a5e70f720b677677c696f7
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 7
Lordz.constructor confirmed (sell total fee <= 30%) Block: 8 Gas used: 617320 (5.14%)

Transaction sent: 0xe93d32ef692910add5b4098802ab9681bfe11896c758b7ad8453867c6a5c377
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 8
Lordz.constructor confirmed (buy total fee <= 30%) Block: 9 Gas used: 617825 (5.15%)

Transaction sent: 0xa6b6d9c4f7ebe7b30c08ae42bd5a9d11b2d39b9474a6482f4e26abc00bedd349
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 9
Lordz.constructor confirmed (each fee <= 15%) Block: 10 Gas used: 617755 (5.15%)

Transaction sent: 0xc5cda349b24a0d0917817d38a221e97a6007ed8d41a82a232029e0459fblaba5
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 10
Lordz.constructor confirmed (maxTransactionAmount >= total supply / 10000) Block: 11 Gas used: 2792858 (23.27%)

Transaction sent: 0x837d70fd21f346c5f097030af63c01b90762b73517ea382a05f4802bd3d16f96
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 11
Lordz.constructor confirmed (maxWallet >= total supply / 10000) Block: 12 Gas used: 2792965 (23.27%)

Transaction sent: 0x644034a44ad8b205e1a3e7c2e719bf8bb4863a8e03a2801d4c0cb5b6ef267a35
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 12
Lordz.constructor confirmed Block: 13 Gas used: 6897130 (57.48%)
Lordz deployed at: 0x2c15A3156108fa5248E4CbCbD693320e9D8E03Cc

tests/test_lordz.py::test_constructor PASSED
```

```
tests/test_lordz.py::test_update_max_wallet RUNNING
Transaction sent: 0x86ccaa7541d8fa6d70fa9cd5ddb3e65798dfefa273572e714cdabe980c01ba
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 13
WETH9.constructor confirmed Block: 14 Gas used: 476546 (3.97%)
WETH9 deployed at: 0xe692cf21812e082717c4bf647f9768fa58861c8b

Transaction sent: 0xe4579df8e59b85ec97990dbc23ebf018d9a82ee393cada37bec775da2af70ae1
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 14
UniswapV2Factory.constructor confirmed Block: 15 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0xe65a7a341978d59d40d30fc23f5014fACB4f575A

Transaction sent: 0x75b6e25066fc484a87b63b4f3e737709de7f948e3ffd358538a867e80cae95a7
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 15
UniswapV2Router02.constructor confirmed Block: 16 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0x303758532345801c8b8c2AD12541b09E9Aa53A93d

Transaction sent: 0xffdd4580aa19085b4fedec6db7deb8a107f69cabac69f1979be9ca878670d4f0
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 16
Lordz.constructor confirmed Block: 17 Gas used: 6897142 (57.48%)
Lordz deployed at: 0x26f15335881C6a4C08660e0d694a0555A9F1c3e3

Transaction sent: 0x87452a150019160a6714ecd46235da46d2cac2cddb75b52c3900144731c87ae02
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 0
Lordz.updateMaxWallet confirmed (Ownable: caller is not the owner) Block: 18 Gas used: 22575 (0.19%)

Transaction sent: 0x7f21084ebf64dc477b5152ccc06e7457d4772161b2dcd391527e342353057bb7
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 17
Lordz.updateMaxWallet confirmed (maxWallet >= totalSupply / 10000) Block: 19 Gas used: 23390 (0.19%)

Transaction sent: 0x4e434c488b84e7ed65bf7bf22018b065fabaa8d54d33defe4ea0b6be3f71115a
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 18
Lordz.updateMaxWallet confirmed Block: 20 Gas used: 30530 (0.25%)

tests/test_lordz.py::test_update_max_wallet PASSED
tests/test_lordz.py::test_update_max_tx RUNNING
Transaction sent: 0x8eeef26a875d0b720aad785a8bdc281321c69cc6670524944e71d22efdb675c
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 19
WETH9.constructor confirmed Block: 21 Gas used: 476546 (3.97%)
WETH9 deployed at: 0xDae02e4fE488952cF88c95177154D188647a0146

Transaction sent: 0x31d9df08dbdd497871c1c02e3700ba776af151abee48d1ed13d95fabf7b718a
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 20
UniswapV2Factory.constructor confirmed Block: 22 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0xdCF93F11ef216cEC9C07fd31d0801c9b2b39Afb4

Transaction sent: 0x8f830ed8f07da52412cbe3a0112e21a440ac8eee3d6cdadc45bb88df9e5df2de
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 21
UniswapV2Router02.constructor confirmed Block: 23 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0xBcb61491F1859f53438918F1A5aFCA542Af90397

Transaction sent: 0x5b9b9317608f746375973ba5b1d6a42eee9667a7335cd5f66603b78e15606395
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 22
Lordz.constructor confirmed Block: 24 Gas used: 6897142 (57.48%)
Lordz deployed at: 0xD22363efee93190f82b52FCD62B70bcb920eF658

Transaction sent: 0x893bc11231246f4266e946eafa67f49d02ad3254233cb10fdea2d65e6032f3a2
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 1
Lordz.updateMaxTransactionAmount confirmed (Ownable: caller is not the owner) Block: 25 Gas used: 22574 (0.19%)

Transaction sent: 0x6edf887e2f70f4d2e60a862105b674ab684d1c7e33489d305144b9d0c5f538f1
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 23
Lordz.updateMaxTransactionAmount confirmed (maxTransactionAmount >= totalSupply / 10000) Block: 26 Gas used: 23421 (0.20%)

Transaction sent: 0xe275de88410aee5004aa099a5b4fa7a2c925e3c14f2cab46d20b4fb1f787deed
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 24
Lordz.updateMaxTransactionAmount confirmed Block: 27 Gas used: 30529 (0.25%)

tests/test_lordz.py::test_update_max_tx PASSED
```



```
tests/test_lordz.py::test_update_main_pair RUNNING
Transaction sent: 0xb4f0eb925f6414d222fc71632977401ba96cb12dfe72f3ba33392f201d77f49d
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 25
WETH9.constructor confirmed Block: 28 Gas used: 476546 (3.97%)
WETH9 deployed at: 0x654f70d8442EA18904FA1AD79114f7250F7E9336

Transaction sent: 0x2a99cf2a63cb15631203dc34b8210fe6aaddfc4f63edb252c7fc3b099883c125
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 26
UniswapV2Factory.constructor confirmed Block: 29 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0xAde061D42dE86f9058386D1D0d739d20C7eAfC43

Transaction sent: 0xe8458668f2772f232118d6c4ea5a841852067cb0ce919a8a8a28d600ca006ace
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 27
UniswapV2Router02.constructor confirmed Block: 30 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0x832698Daec363C9A7a8036C224Af5821280b3AC6

Transaction sent: 0x87435c43bd8873d6e952a0cd565f887ed8d5fdb8b52ea07c4ea91e59008b5728
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 28
UniswapV2Factory.constructor confirmed Block: 31 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0xA95916C3D979400C7443961330b3092510a229Ba

Transaction sent: 0xf61291c4f782e471a3fca402389e897c86f8d3d8b1a04d5a6e3feda328050f30
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 29
UniswapV2Router02.constructor confirmed Block: 32 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0x42E8D004c84E6B58ad55903b5CE7947AADb9E0bc

Transaction sent: 0xc8758611b5a42f24def1a613dfbfe836b23acfaa2280d0388219392f2b726598
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 30
Lordz.constructor confirmed Block: 33 Gas used: 6897152 (57.48%)
Lordz deployed at: 0xF06D5f5BfFFC86a52c84cfecb03AD35637728E73

Transaction sent: 0x6ee7487b61b75eb3cdd9ed8f12fc94883245768cb73c1c306a4e9efb77bf2736
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 2
Lordz.updateMainPair confirmed (Ownable: caller is not the owner) Block: 34 Gas used: 22804 (0.19%)

Transaction sent: 0x697f7f396e9bae66cad9f405488b1e64467d8ee7e323d46d2fffb6c234f05bccc
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 31
Lordz.updateMainPair confirmed Block: 35 Gas used: 2159431 (18.00%)

tests/test_lordz.py::test_update_main_pair PASSED
```

```
tests/test_lordz.py::test_update_liq_fee RUNNING
Transaction sent: 0x93425fcbc053db52e69ebe3d9655f8d979f58b5bacda4058085a1b996393a0eb
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 32
WETH9.constructor confirmed Block: 36 Gas used: 476546 (3.97%)
WETH9 deployed at: 0x724Ca58E1e6e648FB1E15d7Eec0fe1E5f581c7bd

Transaction sent: 0x5cb5e5ec7dea56cf8eafd82552f618e652c37ffaf7f1fc497e8d9619a7f936b2
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 33
UniswapV2Factory.constructor confirmed Block: 37 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0x34b97ffa01dc00C959c5f1176273D0de3be914C1

Transaction sent: 0xb64818c3df36c2945d7306670e0bce532efeb92514a010b69c6660b08fc45ce3
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 34
UniswapV2Router02.constructor confirmed Block: 38 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0xc830Ad2FDfCC2f368fE5Dc93b1Dc72ecABb3691

Transaction sent: 0x22af000ce08171294c89e931b15c875be860da0cff23f8c836eac243d987333f
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 35
Lordz.constructor confirmed Block: 39 Gas used: 6897152 (57.48%)
Lordz deployed at: 0xbc8eCcb89650c3E796e803C8009BF9b898CB359

Transaction sent: 0x05a6a6d9b46bb00690b13e257b42a34cd2577a58c57d27b8df2d722df8a519db
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 3
Lordz.updateLiquidityFee confirmed (Ownable: caller is not the owner) Block: 40 Gas used: 22827 (0.19%)

Transaction sent: 0xb3b027658a533a9cf1ba0b6bd2c05fda382146f888011586335aa0a8f055a196
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 36
Lordz.updateLiquidityFee confirmed (sell total fee <= 30%) Block: 41 Gas used: 24173 (0.20%)

Transaction sent: 0xb2aaefca034aef88ea6ce848e128ec22394104c73c28603ad8c708c020c5471
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 37
Lordz.updateLiquidityFee confirmed (buy total fee <= 30%) Block: 42 Gas used: 25492 (0.21%)

Transaction sent: 0xf88fe42bc38630d1f2466ba46d59e4a126781bala876b7ac60b2e254fd44aaaa
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 38
Lordz.updateLiquidityFee confirmed (sell fee <= 15%) Block: 43 Gas used: 25512 (0.21%)

Transaction sent: 0xc534e21545868cbe032165999e28e9effe891e42a066358b5b64d2dd1732b92f
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 39
Lordz.updateLiquidityFee confirmed (buy fee <= 15%) Block: 44 Gas used: 25544 (0.21%)

Transaction sent: 0x80d23dae892a0396e46e94a71c009c6a9e4152e1016e906341ccc7385e5a7ad2
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 40
Lordz.updateLiquidityFee confirmed Block: 45 Gas used: 34050 (0.28%)

tests/test_lordz.py::test_update_liq_fee PASSED
```

```
tests/test_lordz.py::test_update_mkt_fee RUNNING
Transaction sent: 0x71fd93e382cba92052666bd0a575ed79571528690d5d24870dc8467962f0b3ef
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 41
WETH9.constructor confirmed Block: 46 Gas used: 476546 (3.97%)
WETH9 deployed at: 0x5847798CE8c89e3Fff59AE5fA308EC0d406b5687

Transaction sent: 0xb7414e684f80e44693aa201427b4c2025a9dd09d244e944afb7809554aaf03b6
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 42
UniswapV2Factory.constructor confirmed Block: 47 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0x0C60536783db9ED5A2B216970B10FF2243d317d0

Transaction sent: 0xf53f5d0cb8629d3aea25f2b8f61a94985b139ede29342b695a6979854fe97ac
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 43
UniswapV2Router02.constructor confirmed Block: 48 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0xe19E87b363007a3af5c45C95ab6885367251894

Transaction sent: 0x327dd05a8e2d5ec3398a9f8ff0f49508b6ed15aeb544b44ee51df656ca8949ae
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 44
Lordz.constructor confirmed Block: 49 Gas used: 6897152 (57.48%)
Lordz deployed at: 0xaA7e46855e0506401214c9b1C35f3d889669609e

Transaction sent: 0x1b3f1e552a56f2f96dd5514d8a0e1289f7ae34650a030ef8da70024b968fdcad
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 4
Lordz.updateMarketingFee confirmed (Ownable: caller is not the owner) Block: 50 Gas used: 22848 (0.19%)

Transaction sent: 0x3b46788aafb16e0d184ca7798f0ac1ab019173ce5402761b931c07df92f156ae
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 45
Lordz.updateMarketingFee confirmed (sell total fee <= 30%) Block: 51 Gas used: 24194 (0.20%)

Transaction sent: 0xfa41617abbc5f50e896ea7c9e1262387117dc89623d3eef69a8e7f73df27ae8f
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 46
Lordz.updateMarketingFee confirmed (buy total fee <= 30%) Block: 52 Gas used: 25513 (0.21%)

Transaction sent: 0x3a601deaf3a8339d19f5ea61af5d2107a78ba7d2a8b14e8abca5d11lea8e28b6
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 47
Lordz.updateMarketingFee confirmed (sell fee <= 15%) Block: 53 Gas used: 25533 (0.21%)

Transaction sent: 0xca4baa57f79662a48b966aca15b8c2924cb7ec3341dd216c31d7bf3d8b526785
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 48
Lordz.updateMarketingFee confirmed (buy fee <= 15%) Block: 54 Gas used: 25565 (0.21%)

Transaction sent: 0x8befcb470f787dd02887b5ca789ccc90e54bd13a30d1e231b21a8a8d47c4a42
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 49
Lordz.updateMarketingFee confirmed Block: 55 Gas used: 34077 (0.28%)

tests/test_lordz.py::test_update_mkt_fee PASSED
```

```
tests/test_lordz.py::test_update_reward_fee RUNNING
Transaction sent: 0x361a87fb4e1d81bcdcd27a444752170d51c62e53710f0620c1dbd9dfc107115a
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 50
WETH9.constructor confirmed Block: 56 Gas used: 476546 (3.97%)
WETH9 deployed at: 0x0537bF4b795b7D07Bd5F4bAf7017e3ce836081DE

Transaction sent: 0x7983cde837c0c28a702c348bb3290e46987c4ff681160129b2db09907d212c9d
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 51
UniswapV2Factory.constructor confirmed Block: 57 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0x70bc60873D110Da59a9c49E7485a2780F605E5db

Transaction sent: 0xb503efa966832361fe500342d9703240b0edd4452b8b0b9051499dc72969e0dc
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 52
UniswapV2Router02.constructor confirmed Block: 58 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0xfB7C5F938835aE34aF48c278C6763E134907Acdb

Transaction sent: 0x16cea633bf87faf9407c66997f80e378506065b40e068a355c5b6d354fdd7202
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 53
Lordz.constructor confirmed Block: 59 Gas used: 6897142 (57.48%)
Lordz deployed at: 0xb291024F4b2E4C3767A96aB44566a8e93cC828C5

Transaction sent: 0x450a0c48e04c250a60fcfadb536137c9bc7f1a5a58598c3961ab1b1bb2fe1214
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 5
Lordz.updateRewardFee confirmed (Ownable: caller is not the owner) Block: 60 Gas used: 22848 (0.19%)

Transaction sent: 0x28c30e66f881bce153c45e8d1cbc556ae31b49702ae7e328411a901d20bdfefaf
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 54
Lordz.updateRewardFee confirmed (sell total fee <= 30%) Block: 61 Gas used: 24200 (0.20%)

Transaction sent: 0x4f444f0ad9b9209dc6b220d6d64f9aefcbfec539adf242906c32a2b6b397e476
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 55
Lordz.updateRewardFee confirmed (buy total fee <= 30%) Block: 62 Gas used: 25519 (0.21%)

Transaction sent: 0x89923791f465884b448c41490a28a62d2c28b21597a7b5ac6eff98529f5abd1f
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 56
Lordz.updateRewardFee confirmed (sell fee <= 15%) Block: 63 Gas used: 25539 (0.21%)

Transaction sent: 0x1f5cf4ee7862ab132d64877c3a69f3619a356770b71755bf837fa2988e053de2
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 57
Lordz.updateRewardFee confirmed (buy fee <= 15%) Block: 64 Gas used: 25571 (0.21%)

Transaction sent: 0x485cd625f3df81bceeb813950e22dac5c310cf82a7ba1078b9050ab9efff1743
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 58
Lordz.updateRewardFee confirmed Block: 65 Gas used: 34059 (0.28%)

tests/test_lordz.py::test_update_reward_fee PASSED
```

```

tests/test_lordz.py::test_update_treasury_fee RUNNING
Transaction sent: 0xe3a594b5bbafed16180cf85e51bface35f08ad8ecd73b86795f1975ab64e6e66
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 59
WETH9.constructor confirmed Block: 66 Gas used: 476546 (3.97%)
WETH9 deployed at: 0x286677F2b204be093AB8ee3e35074352b3392438

Transaction sent: 0x105e5aeb7d05fbf20e0dbdc35f5b7c8ecd80791eb874f3a167d26dbd4217a63e
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 60
UniswapV2Factory.constructor confirmed Block: 67 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0xA83Fad7514839b12C0bAcA71e0A7cc63D2Ff1941

Transaction sent: 0x2df890c51857176cf32c27e3edd937c88745ef335a61c85cb28646672f72b2e3
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 61
UniswapV2Router02.constructor confirmed Block: 68 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0x648334435888bb5E44D890a7B319981c48b4847d

Transaction sent: 0x978972d250028432e984d8ab5eb2303358d5bccea06b985f660547ded24717fa
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 62
Lordz.constructor confirmed Block: 69 Gas used: 6897152 (57.48%)
Lordz deployed at: 0xF8B7C36009603855163ABe3BbF512D3F58fd3819

Transaction sent: 0x432b90243ed71bd0199788f25e036030b9ee22253fa9ca3e815b9d3e7046fce6
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 6
Lordz.updateTreasuryFee confirmed (Ownable: caller is not the owner) Block: 70 Gas used: 22849 (0.19%)

Transaction sent: 0x1c8e7f780f6da0ba07bc7de0d750b7b0de155e4750453f0ba22a57d428652e83
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 63
Lordz.updateTreasuryFee confirmed (sell total fee <= 30%) Block: 71 Gas used: 24195 (0.20%)

Transaction sent: 0x87379b164f776bd1f3f81bf5e00fea46bf605cbe2ef90270576be8517d8557d4
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 64
Lordz.updateTreasuryFee confirmed (buy total fee <= 30%) Block: 72 Gas used: 25514 (0.21%)

Transaction sent: 0x540bc8b108e91a1030d07bd2c43cbbbfca4a7a5d9c03618dbb72a232bc73d229b
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 65
Lordz.updateTreasuryFee confirmed (sell fee <= 15%) Block: 73 Gas used: 25534 (0.21%)

Transaction sent: 0x42cb54f155f062f9774e03240a15f105fdc41ed6a2283802da2d0af261d8599e
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 66
Lordz.updateTreasuryFee confirmed (buy fee <= 15%) Block: 74 Gas used: 25566 (0.21%)

Transaction sent: 0x8845a79ad7dabb32f7ac5d6486d1884903fdaff5f6095063e4f20c343bcf944d
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 67
Lordz.updateTreasuryFee confirmed Block: 75 Gas used: 34078 (0.28%)

tests/test_lordz.py::test_update_treasury_fee PASSED

```

```

tests/test_lordz.py::test_update_burn_fee RUNNING
Transaction sent: 0x932f45b3513c2a6d7d5cc20b4fe4932ee5fd28e816f5c2185817e1aa50e9888d
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 68
WETH9.constructor confirmed Block: 76 Gas used: 476546 (3.97%)
WETH9 deployed at: 0x6a21483D01cFb6FAf0D5346C1e781337425D713B

Transaction sent: 0x5d559ae760f1ab966eb8d16f028090884fd1defea15f6532465963a0cda0dd7
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 69
UniswapV2Factory.constructor confirmed Block: 77 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0x78Cbd50CBE1d4245808C5b2397C68d18198E8066

Transaction sent: 0x92704dbf5207f3d5ab73545038732b29b28cbe272e72f3db6fc3eb94ea38aaca
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 70
UniswapV2Router02.constructor confirmed Block: 78 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0xaE4059E2E23958f627eF75d2467343F4d8838709

Transaction sent: 0x928836a47abc1643ad3aed953158f37896722a4d756d2f8c148ee465b325cf25
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 71
Lordz.constructor confirmed Block: 79 Gas used: 6897142 (57.48%)
Lordz deployed at: 0x47a27C9881B5C5eC78c38F8BE7D00A5eb68633C

Transaction sent: 0xacf72ddf9d596a462c76709655f6b4c0580ed699ac650e76c561dd374a7563a
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 7
Lordz.updateBurnFee confirmed (Ownable: caller is not the owner) Block: 80 Gas used: 22849 (0.19%)

Transaction sent: 0x68da2f62a62933c398664046bb67819e047a3b14f5a93a1a45391f47ec32d375
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 72
Lordz.updateBurnFee confirmed (sell total fee <= 30%) Block: 81 Gas used: 24195 (0.20%)

Transaction sent: 0x06ed84ff57c006864fd22fbefbbd9820687cdc06130f8b51cfc820408a94eea
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 73
Lordz.updateBurnFee confirmed (buy total fee <= 30%) Block: 82 Gas used: 25514 (0.21%)

Transaction sent: 0x6253459446028a864d6233520f1305ffa0a639c62538a3147ccbea8fd0970fa6
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 74
Lordz.updateBurnFee confirmed (sell fee <= 15%) Block: 83 Gas used: 25534 (0.21%)

Transaction sent: 0x8aa493dd75eff940665726c939faec3d930823bfa3669214fe722098c25d649b
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 75
Lordz.updateBurnFee confirmed (buy fee <= 15%) Block: 84 Gas used: 25566 (0.21%)

Transaction sent: 0xf56097a4ec928c2455f5187d0ea79fd6fb699de1dd9fb6e7b86934bf68f5109f
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 76
Lordz.updateBurnFee confirmed Block: 85 Gas used: 34078 (0.28%)

tests/test_lordz.py::test_update_burn_fee PASSED

```



```
tests/test_lordz.py::test_update_mkt_wallet RUNNING
Transaction sent: 0x1f47490f5c2f67330aa8a21c6f7e14fcb0dbcea78369523c86f0eb764f6c634
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 77
WETH9.constructor confirmed Block: 86 Gas used: 476546 (3.97%)
WETH9 deployed at: 0x6057028AEB3086440A01577fcD18C5eC77305c47

Transaction sent: 0xc6d016d7f51f6d649105341c0a1dfe7615c8aa5b1d7ea7461c9cf903ddebb1101
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 78
UniswapV2Factory.constructor confirmed Block: 87 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0xe25EDE8b52d40E741Bd61c30060a003f0F1151A5

Transaction sent: 0x1fcf83b4730757933cb686a1e15a27a2e0a0d676932ba27bfc2acbb922326b53
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 79
UniswapV2Router02.constructor confirmed Block: 88 Gas used: 3895418 (32.46%)
UniswapV2Router02 deployed at: 0xc859A0721d3EF2449556a85753B177Ac37bb3666

Transaction sent: 0x33f5060cebe6b34cc2fb1fef6fa4c7bc10d44ec89d599ff673a5e78155485404
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 80
Lordz.constructor confirmed Block: 89 Gas used: 6897152 (57.48%)
Lordz deployed at: 0xfADA48d21d03c18FA2511F84Ca81aB3c5Cfd0c9D

Transaction sent: 0xcaeff897a988b7ff994b364d74af2e32828dad16502f4b3082db4c5c04bdad75
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 8
Lordz.updateMarketingWallet confirmed (Ownable: caller is not the owner) Block: 90 Gas used: 23001 (0.19%)

Transaction sent: 0x02bddb38cfdbcd51b1d24a36cae49f9430a0dbf9acb119b88820e30cba69178b
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 81
Lordz.updateMarketingWallet confirmed (marketing wallet can't be 0) Block: 91 Gas used: 22802 (0.19%)

Transaction sent: 0x7bdd8aa7510eedc83b62b9d51870470d90e802e55b62599a11fbcf4bf2ed823
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 82
Lordz.updateMarketingWallet confirmed (marketing wallet can't be same with Treasury wallet) Block: 92 Gas used: 23940 (0.20%)

Transaction sent: 0xa926b937f6b437150b8a72c487c5f6ff346d1aaa7138b933f0ef331ea07cb476
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 83
Lordz.updateMarketingWallet confirmed Block: 93 Gas used: 74439 (0.62%)

tests/test_lordz.py::test_update_mkt_wallet PASSED
tests/test_lordz.py::test_update_treasury_wallet RUNNING
Transaction sent: 0xd1d05d56c1c9252241613ddfb819ebca47a1db51add772b96632e91bec8c02a
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 84
WETH9.constructor confirmed Block: 94 Gas used: 476546 (3.97%)
WETH9 deployed at: 0x5F589a452BEF32ae54Fbc46968505867cEFbC537

Transaction sent: 0x51c7be55cec63cf22baa5329d53988abcb606e3ff5fc56924e30742e5bfb1a65
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 85
UniswapV2Factory.constructor confirmed Block: 95 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0x548A761038f133140659d8a5a4375b47907c5582

Transaction sent: 0x3f4b1f07e4b7dad7abcc23b660def1a8f6f6f64e6c0a0f01da30c28e9bf27cc2
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 86
UniswapV2Router02.constructor confirmed Block: 96 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0x5F6F583b1b4d2B448bcbffA9b92168469ab2e142

Transaction sent: 0xaaa7b2954cce3c743527d8a97728e1e375aed6516bd5fbc0243f6274e0585370
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 87
Lordz.constructor confirmed Block: 97 Gas used: 6897152 (57.48%)
Lordz deployed at: 0x6A547C98A4363b71F74472aD25595F4677a8b94B

Transaction sent: 0x70e8e34f99dba6887ab8elf1353098eb1fa97875b51b0d794d7d59ed653911fe
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 9
Lordz.updateTreasuryWallet confirmed (Ownable: caller is not the owner) Block: 98 Gas used: 22782 (0.19%)

Transaction sent: 0x5ec17b19a6272be973cabba7b78012da28a61fbb5a76255f4b3eb124ce2f29ce
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 88
Lordz.updateTreasuryWallet confirmed (Treasury wallet can't be 0) Block: 99 Gas used: 22583 (0.19%)

Transaction sent: 0xe4608249039cd535e3e2057911b7a9c2648f4d54a533e89c93394eed595699c6
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 89
Lordz.updateTreasuryWallet confirmed (Treasury wallet can't be the same as token) Block: 100 Gas used: 22887 (0.19%)

Transaction sent: 0x507a7f950633a3ae2b864ab2a93e470f86a281a25fdbelc532a1ae4671044e33
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 90
Lordz.updateTreasuryWallet confirmed (marketing wallet can't be same with Treasury wallet) Block: 101 Gas used: 23758 (0.20%)

Transaction sent: 0x80152240ed44af865935ab6cd55abdf3ad4a41b309f7411829a89043cef09999
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 91
Lordz.updateTreasuryWallet confirmed Block: 102 Gas used: 73624 (0.61%)

tests/test_lordz.py::test_update_treasury_wallet PASSED
```

```
tests/test_lordz.py::test_update_min_amount RUNNING
Transaction sent: 0x6860e9515f25491a1eaa2d6a53e9d8d75501fe3adb635c54b7f61d4ccc44dbb4
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 92
WETH9.constructor confirmed Block: 103 Gas used: 476546 (3.97%)
WETH9 deployed at: 0x8D01D701541D96399c338C9D66D4AE7bCA878a2

Transaction sent: 0x903df74d0348713678de475cd85cff2116c38e996d89a4a299e91a294f8aeb9
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 93
UniswapV2Factory.constructor confirmed Block: 104 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0x3b3F002a26fCbdd72F58B4bafF73833a2420FFf

Transaction sent: 0x1cceed7d243e93176fc9e9da31bc45953d3a7e90abf229df4b320feb9e473b14
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 94
UniswapV2Router02.constructor confirmed Block: 105 Gas used: 3895418 (32.46%)
UniswapV2Router02 deployed at: 0x9E2341550D43dac781A6c36fbdcBb3590bd18C08

Transaction sent: 0xb1a91796b8178ada5522ff2154f4a93680a72e88daf346db48d6ec7018b7935
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 95
Lordz.constructor confirmed Block: 106 Gas used: 6897152 (57.48%)
Lordz deployed at: 0xE67cf20A24c85f0417070668123102247a6cfcC1

Transaction sent: 0x1388db93f20b107f68f70c50ece5b57dc7d310e90fd979815965a75f8e956185
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 10
Lordz.updateMinAmountToTakeFee confirmed (Ownable: caller is not the owner) Block: 107 Gas used: 22562 (0.19%)

Transaction sent: 0xda5a724e40f81bb22d9640b081672b85dcfaca70cce9720a1a6628da8eb75c8e
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 96
Lordz.updateMinAmountToTakeFee confirmed (minAmountToTakeFee > 0) Block: 108 Gas used: 22525 (0.19%)

Transaction sent: 0x50ee0110c7241e82083113d1ef82f0a8105eb367cadaaa9ae6e122bealc4dd8a
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 97
Lordz.updateMinAmountToTakeFee confirmed Block: 109 Gas used: 29627 (0.25%)

tests/test_lordz.py::test_update_min_amount PASSED
tests/test_lordz.py::test_exclude_from RUNNING
Transaction sent: 0xac3f5f82ee3bc14bb79b1347e83b2ca74200f3a1ee1e4a5c57584834cd581e09
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 98
WETH9.constructor confirmed Block: 110 Gas used: 476546 (3.97%)
WETH9 deployed at: 0xc44163a3C9a048c7EdC2A74299146173eaF436AF

Transaction sent: 0xd207847ef1f9dfe28711a5df1810f7616c6d8ebda5a16a4a3464a3ad81062dfa
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 99
UniswapV2Factory.constructor confirmed Block: 111 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0xa2c283F11108596AB76e47af4e487Ec5D9d6c58F

Transaction sent: 0x6e944e30f30711bd2839621767bc5a2ebd95e87d30e5912b2edcf7ab40ece587
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 100
UniswapV2Router02.constructor confirmed Block: 112 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0x2711D43E997528654E6925861Aec015E1F635cBb

Transaction sent: 0xe0d5a31a4e65f79e11ed2654eeca4e35f7b1a039254b80ef00bc077273d0cac
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 101
Lordz.constructor confirmed Block: 113 Gas used: 6897142 (57.48%)
Lordz deployed at: 0x2847751f6a9902c2A86e3C319901aCaC184f81b6

Transaction sent: 0x5f2586c3421965fcb6c0b094ed2f7289f9c0760bfdcfb2378a08d67c4f0bdce
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 11
Lordz.excludeFromFee confirmed (Ownable: caller is not the owner) Block: 114 Gas used: 23033 (0.19%)

Transaction sent: 0x251f5852b8197938263ec2a3ebd2374d61466b6fc7a4a0930680b8312a66c223
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 102
Lordz.excludeFromFee confirmed (already) Block: 115 Gas used: 23979 (0.20%)

Transaction sent: 0xdc3d7cdb371f458d7569420bd028987cc6755ce00304dcf9f954c09b69212faf
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 103
Lordz.excludeFromFee confirmed Block: 116 Gas used: 46249 (0.39%)

Transaction sent: 0x386ea3e107707a2bclfcbbcc5ad088a8634e23dd2bf3d6f36157cab3a85bd47
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 12
Lordz.excludeFromMaxTransactionAmount confirmed (Ownable: caller is not the owner) Block: 117 Gas used: 22991 (0.19%)

Transaction sent: 0x44f8115fca53340b85c7e531cc20a0cbdf0af2ee945c59652b376381ff6834b
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 104
Lordz.excludeFromMaxTransactionAmount confirmed (already) Block: 118 Gas used: 23937 (0.20%)

Transaction sent: 0x81a6ace260102ac72146cbc0542944c5e15bb0eeb68e6629a57889fa967c7eb5
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 105
Lordz.excludeFromMaxTransactionAmount confirmed Block: 119 Gas used: 46196 (0.38%)

tests/test_lordz.py::test_exclude_from PASSED
```



```
tests/test_lordz.py::test_withdraw RUNNING
Transaction sent: 0x0a668867bf91bf9ea4f6fe2e2e1c20d63329c5d5d9ce4078bbf1b78efalc06cee
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 106
ERC20Mock.constructor confirmed Block: 120 Gas used: 619637 (5.16%)
ERC20Mock deployed at: 0x588C28A3e918a7e52e08F06Cae73f3CE87a5a0bd

Transaction sent: 0x16b3c5129db10795998c5795216f1ee5521cd025eb098190c6a4502968d300db
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 107
WETH9.constructor confirmed Block: 121 Gas used: 476546 (3.97%)
WETH9 deployed at: 0xCE55467AEAd37B866723E482Cd47880Fd6A9724d

Transaction sent: 0xb7db65db3739c839ab61fae34c82a34f6305107b8f8f323e8f1e1c9b83cf5bd3
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 108
UniswapV2Factory.constructor confirmed Block: 122 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0xd16C4788AD6073a8f87DF3627fF8F0b124022B68

Transaction sent: 0xec1782561500e94a58f8097edb3dd111a8f82ccb718a572b8edbf0cf7c1a7345
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 109
UniswapV2Router02.constructor confirmed Block: 123 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0x81737D42d2c7056b88d3E7d55e54A9a27b39d5f2

Transaction sent: 0xece965b4347bb87a29f714336584a292af18237d828ca39662071b5bdc96752f
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 110
Lordz.constructor confirmed Block: 124 Gas used: 6897142 (57.48%)
Lordz deployed at: 0x411C993ae056C99FeFA390F48Bc12cD394969203

Transaction sent: 0x59d782af55821d65e769408a46361f115b3e9bfe75a8d6c6ef249750c6609e99
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 13
Lordz.withdrawETH confirmed (Ownable: caller is not the owner) Block: 125 Gas used: 22306 (0.19%)

Transaction sent: 0xe9f2003ae0901157a7eb3833fb0e28f4892ebc6a6d6335f90373ef32a2fb529c
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 111
Lordz.withdrawETH confirmed Block: 126 Gas used: 23846 (0.20%)

Transaction sent: 0x5c7465c60b822ed1d085202a7989ccf859b9768d5fc9d84877473ecc0d32498b
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 14
Lordz.withdrawToken confirmed (Ownable: caller is not the owner) Block: 127 Gas used: 22784 (0.19%)

Transaction sent: 0x8153f604393b3381a70927e7ac26b31301aa008916ca02effe38b87be76840be
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 112
Lordz.withdrawToken confirmed (Not allowed) Block: 128 Gas used: 22836 (0.19%)

Transaction sent: 0xa16f6e659f8357c88e43dacf67fa275acace746c42ad5b86c57e72ce21d5e7a4
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 113
Lordz.withdrawToken confirmed Block: 129 Gas used: 33811 (0.28%)

tests/test_lordz.py::test_withdraw PASSED
```

```
tests/test_lordz.py::test_transfer RUNNING
Transaction sent: 0x08bb07470875fc96bb8264b3c87e40f861cb9a1fa97261021d195d0605b1b1c1e
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 114
WETH9.constructor confirmed Block: 130 Gas used: 476546 (3.97%)
WETH9 deployed at: 0x980C27c38e4283dEEDf183b1740463164dae547A

Transaction sent: 0x76a3bca63b3a209d7f3d652a650db87047a59559151d7ec36f1bf83284eb064
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 115
UniswapV2Factory.constructor confirmed Block: 131 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0x07ecdd8d85e0f039875dd94f3c1A54b1cCd167AD

Transaction sent: 0x5ab763aa95caca3a174e119aeb3ca58b5ed6755bc6f68be9496006798338d974
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 116
UniswapV2Router02.constructor confirmed Block: 132 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0x2FAED346Cbe219ee50d0f79D5C766B7CAAC50948

Transaction sent: 0x5963c534123ffe5e4fd8e20c69e2fde5312ee5e1ef34f618b8de32775571feb1
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 117
UniswapV2AddLiquidity.constructor confirmed Block: 133 Gas used: 449853 (3.75%)
UniswapV2AddLiquidity deployed at: 0xdc4F91D8182A55dC67D3D7022B204504f0FD9f26

Transaction sent: 0x088474f7f8a5d919ed14dd79292664875bd87b273e0f057706d014d26dd8dccc
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 118
Lordz.constructor confirmed Block: 134 Gas used: 6897152 (57.48%)
Lordz deployed at: 0xAcfbcF193f38f08d648864922C89fe1C940B292F

Transaction sent: 0x7177cc204aa0bb1d82be8a4d16cb7e78a150488012817ec7882d84e8cfe5aea7
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 0
Lordz.transfer confirmed (ERC20: transfer from the zero address) Block: 135 Gas used: 22231 (0.19%)

Transaction sent: 0x58438c98e373bd7cb537d8bdell12b6a7bcb6e39dad021c5b206ff83df550b0c2
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 15
Lordz.transfer confirmed (ERC20: transfer to the zero address) Block: 136 Gas used: 22026 (0.18%)

Transaction sent: 0x260e333d2b10e3402a6e0cf6ea52d016ca9f36ae698bd39a5df0bf2c511858fe
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 119
Lordz.transfer confirmed Block: 137 Gas used: 211555 (1.76%)

Transaction sent: 0x83676eb3b2adf50a5571ded62343de91ea41b478b38673a6ffafe1755652f821
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 120
Lordz.transfer confirmed (ERC20: exceeds max wallet limit) Block: 138 Gas used: 196598 (1.64%)

Transaction sent: 0xfe89b59e8599f40f314e650300809f0ac770883ed3722fc0d0074fbd440806fc
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 16
Lordz.transfer confirmed Block: 139 Gas used: 245756 (2.05%)

Transaction sent: 0xf6e2a0211d55b4f06a275e2eb3700b8b7481acdfef6cea40194087363aa22919
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 121
Lordz.updateLiquidityFee confirmed Block: 140 Gas used: 34050 (0.28%)

Transaction sent: 0x1f1d652b70bbdb6c1c14cd520bcca98e553b4f392b263fa494a3a8323571f9e5
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 122
Lordz.updateRewardFee confirmed Block: 141 Gas used: 34059 (0.28%)

Transaction sent: 0xac8ecb5dec33fb55cc9654d8348e98fe4ec3efb1da1ca3cf5c7b0af60c8d400
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 123
Lordz.updateBurnFee confirmed Block: 142 Gas used: 34090 (0.28%)

Transaction sent: 0x2d3afbc372eeaa915f20622f277a1c0477374b2491cbecf17c91c0dd305931f4
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 17
Lordz.transfer confirmed Block: 143 Gas used: 200220 (1.67%)

Transaction sent: 0x1d178971afad1e96cc53ea4382fcddda337b7aa52e04de7a4737fe7dd2c00e43
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 124
Lordz.updateLiquidityFee confirmed Block: 144 Gas used: 34062 (0.28%)

Transaction sent: 0x8b0b124d8132a9f7a797ac5cea6d46000a3cd69828a874f7629d78cdebefee838
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 125
Lordz.updateRewardFee confirmed Block: 145 Gas used: 34035 (0.28%)

Transaction sent: 0x9210b3f5b4c41a31e867557c3449ee318ab43cf2f0469ab83ac4688545884846
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 126
Lordz.updateBurnFee confirmed Block: 146 Gas used: 34066 (0.28%)

Transaction sent: 0x3d8371b5ebac2ae83dee34b9bbc39d734575b14e0c81d8e3dede971a1c6dca48
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 1
Lordz.transfer confirmed Block: 147 Gas used: 221980 (1.85%)

Transaction sent: 0x1bf922fb8a4bb16698cd9710bfeb33108b345269fc81f2026feb2b52046f6816
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 127
Lordz.updateMinAmountToTakeFee confirmed Block: 148 Gas used: 29567 (0.25%)
```

# Annexes

Testing code:

Testing\_MemeLordz:

```
from brownie import (

    reverts,

)

from scripts.helpful_scripts import (

    ZERO_ADDRESS,

    DAY_TIMESTAMP,

    get_account,

    get_timestamp,

    get_chain_number,

    increase_timestamp

)

from scripts.deploy import (

    deploy_erc,

    deploy_weth,

    deploy_factory,

    deploy_router,

    deploy_liquidity,

    deploy_lordz

)

def test_constructor(only_local):

    # Arrange
```

```

owner = get_account(0)

other = get_account(1)

extra = get_account(2)

mkt_wallet = get_account(8)

treasury = get_account(9)


weth = deploy_weth(owner)

factory = deploy_factory(owner, owner)

router = deploy_router(owner, factory.address, weth.address)


total_supply = 1000000e18


with reverts("marketing wallet can not be 0"):

    deploy_lordz(owner, [

        "LORDZ", "LZ", 18, total_supply,

        total_supply // 10000, total_supply // 10000,

        ZERO_ADDRESS, router.address, treasury, True,

        100000, 100000, # sellLiquidityFee, buyLiquidityFee = 10%

        0, 0, # sellMarketingFee, buyMarketingFee

        0, 0, # sellTreasuryFee, buyTreasuryFee

        0, 0, # sellRewardFee, buyRewardFee

        0, 0 # sellBurnFee, buyBurnFee

    ])


with reverts("Router address can not be 0"):

    deploy_lordz(owner, [

        "LORDZ", "LZ", 18, total_supply,

        total_supply // 10000, total_supply // 10000,

        mkt_wallet, ZERO_ADDRESS, treasury, True,

```

```

        100000, 100000, # sellLiquidityFee, buyLiquidityFee = 10%

        0, 0, # sellMarketingFee, buyMarketingFee

        0, 0, # sellTreasuryFee, buyTreasuryFee

        0, 0, # sellRewardFee, buyRewardFee

        0, 0 # sellBurnFee, buyBurnFee

    ])

    with reverts("Treasury wallet can not be 0"):

        deploy_lordz(owner, [

            "LORDZ", "LZ", 18, total_supply,

            total_supply // 10000, total_supply // 10000,

            mkt_wallet, router.address, ZERO_ADDRESS, True,

            100000, 100000, # sellLiquidityFee, buyLiquidityFee = 10%

            0, 0, # sellMarketingFee, buyMarketingFee

            0, 0, # sellTreasuryFee, buyTreasuryFee

            0, 0, # sellRewardFee, buyRewardFee

            0, 0 # sellBurnFee, buyBurnFee

        ])

    with reverts("Treasury wallet can not be same with marketing wallet"):

        deploy_lordz(owner, [

            "LORDZ", "LZ", 18, total_supply,

            total_supply // 10000, total_supply // 10000,

            mkt_wallet, router.address, mkt_wallet, True,

            100000, 100000, # sellLiquidityFee, buyLiquidityFee = 10%

            0, 0, # sellMarketingFee, buyMarketingFee

            0, 0, # sellTreasuryFee, buyTreasuryFee

            0, 0, # sellRewardFee, buyRewardFee

            0, 0 # sellBurnFee, buyBurnFee

        ])

```



```

with reverts("sell total fee <= 30%"):

    deploy_lordz(owner, [

        "LORDZ", "LZ", 18, total_supply,

        total_supply // 10000, total_supply // 10000,

        mkt_wallet, router.address, treasury, True,

        100000, 100000, # sellLiquidityFee, buyLiquidityFee = 10%

        100000, 0, # sellMarketingFee, buyMarketingFee

        100000, 0, # sellTreasuryFee, buyTreasuryFee

        100000, 0, # sellRewardFee, buyRewardFee

        0, 0 # sellBurnFee, buyBurnFee

    ])

with reverts("buy total fee <= 30%"):

    deploy_lordz(owner, [

        "LORDZ", "LZ", 18, total_supply,

        total_supply // 10000, total_supply // 10000,

        mkt_wallet, router.address, treasury, True,

        100000, 100000, # sellLiquidityFee, buyLiquidityFee = 10%

        0, 100000, # sellMarketingFee, buyMarketingFee

        0, 100000, # sellTreasuryFee, buyTreasuryFee

        0, 100000, # sellRewardFee, buyRewardFee

        0, 100000 # sellBurnFee, buyBurnFee

    ])

with reverts("each fee <= 15%"):

    deploy_lordz(owner, [

        "LORDZ", "LZ", 18, total_supply,

        total_supply // 10000, total_supply // 10000,

        mkt_wallet, router.address, treasury, True,

        200000, 100000, # sellLiquidityFee, buyLiquidityFee = 10%

```

```

        0, 0, # sellMarketingFee, buyMarketingFee

        0, 0, # sellTreasuryFee, buyTreasuryFee

        0, 0, # sellRewardFee, buyRewardFee

        0, 0 # sellBurnFee, buyBurnFee

    ])

    with reverts("maxTransactionAmount >= total supply / 10000"):

        deploy_lordz(owner, [

            "LORDZ", "LZ", 18, total_supply,

            total_supply // 10000, 1, # maxWallet, maxTxAmount

            mkt_wallet, router.address, treasury, True,

            100000, 100000, # sellLiquidityFee, buyLiquidityFee = 10%

            0, 0, # sellMarketingFee, buyMarketingFee

            0, 0, # sellTreasuryFee, buyTreasuryFee

            0, 0, # sellRewardFee, buyRewardFee

            0, 0 # sellBurnFee, buyBurnFee

        ])

    with reverts("maxWallet >= total supply / 10000"):

        deploy_lordz(owner, [

            "LORDZ", "LZ", 18, total_supply,

            1, total_supply // 10000,

            mkt_wallet, router.address, treasury, True,

            100000, 100000, # sellLiquidityFee, buyLiquidityFee = 10%

            0, 0, # sellMarketingFee, buyMarketingFee

            0, 0, # sellTreasuryFee, buyTreasuryFee

            0, 0, # sellRewardFee, buyRewardFee

            0, 0 # sellBurnFee, buyBurnFee

        ])

```

```

    args = get_default_args(mkt_wallet, router.address, treasury)

    token = deploy_lordz(owner, args)

def test_update_max_wallet(only_local):

    # Arrange

    owner = get_account(0)

    other = get_account(1)

    mkt_wallet = get_account(8)

    treasury = get_account(9)

    weth = deploy_weth(owner)

    factory = deploy_factory(owner, owner)

    router = deploy_router(owner, factory.address, weth.address)

    args = get_default_args(mkt_wallet, router.address, treasury)

    token = deploy_lordz(owner, args)

    with reverts("Ownable: caller is not the owner"):

        token.updateMaxWallet(token.totalSupply() // 10000, {"from": other})

    with reverts("maxWallet >= totalSupply / 10000"):

        token.updateMaxWallet(1, {"from": owner})

    tx = token.updateMaxWallet((token.totalSupply() // 10000) + 10000, {"from": owner})

    assert tx.events['UpdateMaxWallet'][0]['newMaxWallet'] == (token.totalSupply() //
10000) + 10000

def test_update_max_tx(only_local):

    # Arrange

    owner = get_account(0)

```

```

other = get_account(1)

mkt_wallet = get_account(8)

treasury = get_account(9)


weth = deploy_weth(owner)

factory = deploy_factory(owner, owner)

router = deploy_router(owner, factory.address, weth.address)

args = get_default_args(mkt_wallet, router.address, treasury)

token = deploy_lordz(owner, args)


with reverts("Ownable: caller is not the owner"):

    token.updateMaxTransactionAmount(token.totalSupply() // 10000, {"from": other})

with reverts("maxTransactionAmount >= totalSupply / 10000"):

    token.updateMaxTransactionAmount(1, {"from": owner})


tx = token.updateMaxTransactionAmount((token.totalSupply() // 10000) + 10000, {"from":
owner})

assert tx.events['UpdateMaxTransactionAmount'][0]['newMaxTransactionAmount'] ==
(token.totalSupply() // 10000) + 10000


def test_update_main_pair(only_local):

    # Arrange

    owner = get_account(0)

    other = get_account(1)

    mkt_wallet = get_account(8)

    treasury = get_account(9)


    weth = deploy_weth(owner)

    factory = deploy_factory(owner, owner)

```

```

router = deploy_router(owner, factory.address, weth.address)

new_factory = deploy_factory(owner, owner)

new_router = deploy_router(owner, new_factory.address, weth.address)

args = get_default_args(mkt_wallet, router.address, treasury)

token = deploy_lordz(owner, args)

with reverts("Ownable: caller is not the owner"):
    token.updateMainPair(new_router.address, {"from": other})

tx = token.updateMainPair(new_router.address, {"from": owner})

assert tx.events['MainRouterUpdated'][0]['mainRouter'] == new_router.address

```

```

def test_update_liq_fee(only_local):

```

```

    # Arrange

```

```

    owner = get_account(0)

```

```

    other = get_account(1)

```

```

    mkt_wallet = get_account(8)

```

```

    treasury = get_account(9)

```

```

    weth = deploy_weth(owner)

```

```

    factory = deploy_factory(owner, owner)

```

```

    router = deploy_router(owner, factory.address, weth.address)

```

```

    args = get_default_args(mkt_wallet, router.address, treasury)

```

```

    token = deploy_lordz(owner, args)

```

```

    with reverts("Ownable: caller is not the owner"):

```

```

        token.updateLiquidityFee(150000, 150000, {"from": other})

```



```

with reverts("sell total fee <= 30%"):

    token.updateLiquidityFee(350000, 150000, {"from": owner})

with reverts("buy total fee <= 30%"):

    token.updateLiquidityFee(150000, 350000, {"from": owner})

with reverts("sell fee <= 15%"):

    token.updateLiquidityFee(160000, 100000, {"from": owner})

with reverts("buy fee <= 15%"):

    token.updateLiquidityFee(100000, 160000, {"from": owner})

token.updateLiquidityFee(50000, 50000, {"from": owner})

def test_update_mkt_fee(only_local):

    # Arrange

    owner = get_account(0)

    other = get_account(1)

    mkt_wallet = get_account(8)

    treasury = get_account(9)

    weth = deploy_weth(owner)

    factory = deploy_factory(owner, owner)

    router = deploy_router(owner, factory.address, weth.address)

    args = get_default_args(mkt_wallet, router.address, treasury)

    token = deploy_lordz(owner, args)

    with reverts("Ownable: caller is not the owner"):

        token.updateMarketingFee(150000, 150000, {"from": other})

    with reverts("sell total fee <= 30%"):

        token.updateMarketingFee(350000, 150000, {"from": owner})

    with reverts("buy total fee <= 30%"):

```

```

        token.updateMarketingFee(150000, 350000, {"from": owner})

    with reverts("sell fee <= 15%"):

        token.updateMarketingFee(160000, 100000, {"from": owner})

    with reverts("buy fee <= 15%"):

        token.updateMarketingFee(100000, 160000, {"from": owner})

    token.updateMarketingFee(50000, 50000, {"from": owner})

def test_update_reward_fee(only_local):

    # Arrange

    owner = get_account(0)

    other = get_account(1)

    mkt_wallet = get_account(8)

    treasury = get_account(9)

    weth = deploy_weth(owner)

    factory = deploy_factory(owner, owner)

    router = deploy_router(owner, factory.address, weth.address)

    args = get_default_args(mkt_wallet, router.address, treasury)

    token = deploy_lordz(owner, args)

    with reverts("Ownable: caller is not the owner"):

        token.updateRewardFee(150000, 150000, {"from": other})

    with reverts("sell total fee <= 30%"):

        token.updateRewardFee(350000, 150000, {"from": owner})

    with reverts("buy total fee <= 30%"):

        token.updateRewardFee(150000, 350000, {"from": owner})

    with reverts("sell fee <= 15%"):

        token.updateRewardFee(160000, 100000, {"from": owner})

```

```

with reverts("buy fee <= 15%"):

    token.updateRewardFee(100000, 160000, {"from": owner})

token.updateRewardFee(50000, 50000, {"from": owner})

def test_update_treasury_fee(only_local):

    # Arrange

    owner = get_account(0)

    other = get_account(1)

    mkt_wallet = get_account(8)

    treasury = get_account(9)

    weth = deploy_weth(owner)

    factory = deploy_factory(owner, owner)

    router = deploy_router(owner, factory.address, weth.address)

    args = get_default_args(mkt_wallet, router.address, treasury)

    token = deploy_lordz(owner, args)

    with reverts("Ownable: caller is not the owner"):

        token.updateTreasuryFee(150000, 150000, {"from": other})

    with reverts("sell total fee <= 30%"):

        token.updateTreasuryFee(350000, 150000, {"from": owner})

    with reverts("buy total fee <= 30%"):

        token.updateTreasuryFee(150000, 350000, {"from": owner})

    with reverts("sell fee <= 15%"):

        token.updateTreasuryFee(160000, 100000, {"from": owner})

    with reverts("buy fee <= 15%"):

        token.updateTreasuryFee(100000, 160000, {"from": owner})

    token.updateTreasuryFee(50000, 50000, {"from": owner})

```

```

def test_update_burn_fee(only_local):

    # Arrange

    owner = get_account(0)

    other = get_account(1)

    mkt_wallet = get_account(8)

    treasury = get_account(9)

    weth = deploy_weth(owner)

    factory = deploy_factory(owner, owner)

    router = deploy_router(owner, factory.address, weth.address)

    args = get_default_args(mkt_wallet, router.address, treasury)

    token = deploy_lordz(owner, args)

    with reverts("Ownable: caller is not the owner"):

        token.updateBurnFee(150000, 150000, {"from": other})

    with reverts("sell total fee <= 30%"):

        token.updateBurnFee(350000, 150000, {"from": owner})

    with reverts("buy total fee <= 30%"):

        token.updateBurnFee(150000, 350000, {"from": owner})

    with reverts("sell fee <= 15%"):

        token.updateBurnFee(160000, 100000, {"from": owner})

    with reverts("buy fee <= 15%"):

        token.updateBurnFee(100000, 160000, {"from": owner})

    token.updateBurnFee(50000, 50000, {"from": owner})

def test_update_mkt_wallet(only_local):

    # Arrange

```

```

owner = get_account(0)

other = get_account(1)

new_mkt_wallet = get_account(7)

mkt_wallet = get_account(8)

treasury = get_account(9)


weth = deploy_weth(owner)

factory = deploy_factory(owner, owner)

router = deploy_router(owner, factory.address, weth.address)

args = get_default_args(mkt_wallet, router.address, treasury)

token = deploy_lordz(owner, args)


with reverts("Ownable: caller is not the owner"):

    token.updateMarketingWallet(new_mkt_wallet, False, {"from": other})

with reverts("marketing wallet can't be 0"):

    token.updateMarketingWallet(ZERO_ADDRESS, False, {"from": owner})

with reverts("marketing wallet can't be same with Treasury wallet"):

    token.updateMarketingWallet(treasury, False, {"from": owner})

token.updateMarketingWallet(new_mkt_wallet, False, {"from": owner})

```

```

def test_update_treasury_wallet(only_local):

```

```

    # Arrange

```

```

    owner = get_account(0)

    other = get_account(1)

    new_treasury_wallet = get_account(7)

    mkt_wallet = get_account(8)

    treasury = get_account(9)

```



```

weth = deploy_weth(owner)

factory = deploy_factory(owner, owner)

router = deploy_router(owner, factory.address, weth.address)

args = get_default_args(mkt_wallet, router.address, treasury)

token = deploy_lordz(owner, args)


with reverts("Ownable: caller is not the owner"):

    token.updateTreasuryWallet(new_treasury_wallet, {"from": other})

with reverts("Treasury wallet can't be 0"):

    token.updateTreasuryWallet(ZERO_ADDRESS, {"from": owner})

with reverts("Treasury wallet can't be the same as token"):

    token.updateTreasuryWallet(token.address, {"from": owner})

with reverts("marketing wallet can't be same with Treasury wallet"):

    token.updateTreasuryWallet(mkt_wallet, {"from": owner})

token.updateTreasuryWallet(new_treasury_wallet, {"from": owner})

```

```

def test_update_min_amount(only_local):

```

```

    # Arrange

```

```

    owner = get_account(0)

```

```

    other = get_account(1)

```

```

    mkt_wallet = get_account(8)

```

```

    treasury = get_account(9)

```

```

    weth = deploy_weth(owner)

```

```

    factory = deploy_factory(owner, owner)

```

```

    router = deploy_router(owner, factory.address, weth.address)

```

```

    args = get_default_args(mkt_wallet, router.address, treasury)

```

```

    token = deploy_lordz(owner, args)

```

```

    with reverts("Ownable: caller is not the owner"):
        token.updateMinAmountToTakeFee(1e18, {"from": other})

    with reverts("minAmountToTakeFee > 0"):
        token.updateMinAmountToTakeFee(0, {"from": owner})

    token.updateMinAmountToTakeFee(1e18, {"from": owner})

def test_exclude_from(only_local):
    # Arrange

    owner = get_account(0)

    other = get_account(1)

    mkt_wallet = get_account(8)

    treasury = get_account(9)

    weth = deploy_weth(owner)

    factory = deploy_factory(owner, owner)

    router = deploy_router(owner, factory.address, weth.address)

    args = get_default_args(mkt_wallet, router.address, treasury)

    token = deploy_lordz(owner, args)

    with reverts("Ownable: caller is not the owner"):
        token.excludeFromFee(other, True, {"from": other})

    with reverts("already"):
        token.excludeFromFee(owner, True, {"from": owner})

    token.excludeFromFee(other, True, {"from": owner})

    with reverts("Ownable: caller is not the owner"):
        token.excludeFromMaxTransactionAmount(other, True, {"from": other})

```

```

with reverts("already"):

    token.excludeFromMaxTransactionAmount(owner, True,{"from": owner})

token.excludeFromMaxTransactionAmount(other, True,{"from": owner})

def test_withdraw(only_local):

    # Arrange

    owner = get_account(0)

    other = get_account(1)

    mkt_wallet = get_account(8)

    treasury = get_account(9)

    erc20 = deploy_erc(owner)

    weth = deploy_weth(owner)

    factory = deploy_factory(owner, owner)

    router = deploy_router(owner, factory.address, weth.address)

    args = get_default_args(mkt_wallet, router.address, treasury)

    token = deploy_lordz(owner, args)

    with reverts("Ownable: caller is not the owner"):

        token.withdrawETH({"from": other})

    token.withdrawETH({"from": owner})

    with reverts("Ownable: caller is not the owner"):

        token.withdrawToken(erc20.address, {"from": other})

    with reverts("Not allowed"):

        token.withdrawToken(token.address, {"from": owner})

    token.withdrawToken(erc20.address, {"from": owner})

```

```
def test_transfer(only_local):

    # Arrange

    owner = get_account(0)

    other = get_account(1)

    extra = get_account(2)

    mkt_wallet = get_account(8)

    treasury = get_account(9)

    weth = deploy_weth(owner)

    factory = deploy_factory(owner, owner)

    router = deploy_router(owner, factory.address, weth.address)

    liquidity = deploy_liquidity(owner, factory.address, router.address)

    args = get_default_args(mkt_wallet, router.address, treasury)

    token = deploy_lordz(owner, args)

    pair = token.mainPair()

    with reverts("ERC20: transfer from the zero address"):

        token.transfer(other, 1e18, {"from": ZERO_ADDRESS})

    with reverts("ERC20: transfer to the zero address"):

        token.transfer(ZERO_ADDRESS, 1e18, {"from": other})

    tx = token.transfer(other, 5e18, {"from": owner})

    assert tx.events['Transfer'][0]['from'] == owner

    assert tx.events['Transfer'][0]['to'] == other

    assert tx.events['Transfer'][0]['value'] == 5e18

    with reverts("ERC20: exceeds max wallet limit"):

        token.transfer(other, 1000000e18 // 9000, {"from": owner})
```

```
# sell

tx = token.transfer(pair, 1e18, {"from": other})

assert tx.events['Transfer'][0]['from'] == other
assert tx.events['Transfer'][0]['to'] == token.address
assert tx.events['Transfer'][0]['value'] == 0.1e18

assert tx.events['Transfer'][1]['from'] == other
assert tx.events['Transfer'][1]['to'] == pair
assert tx.events['Transfer'][1]['value'] == 0.9e18

token.updateLiquidityFee(50000, 50000, {"from": owner})
token.updateRewardFee(50000, 50000, {"from": owner})
token.updateBurnFee(100000, 50000, {"from": owner})

tx = token.transfer(pair, 1e18, {"from": other})

assert tx.events['Transfer'][0]['from'] == other
assert tx.events['Transfer'][0]['to'] == ZERO_ADDRESS
assert tx.events['Transfer'][0]['value'] == 0.1e18

assert tx.events['Transfer'][1]['from'] == other
assert tx.events['Transfer'][1]['to'] == token.address
assert tx.events['Transfer'][1]['value'] == 0.05e18

assert tx.events['Transfer'][2]['from'] == other
assert tx.events['Transfer'][2]['to'] == pair
assert tx.events['Transfer'][2]['value'] == 0.8e18

token.updateLiquidityFee(50000, 100000, {"from": owner})
token.updateRewardFee(50000, 0, {"from": owner})
token.updateBurnFee(100000, 0, {"from": owner})
```



```
# Buy
```

```
tx = token.transfer(other, 1e18, {"from": pair})
```

```
assert tx.events['Transfer'][0]['from'] == pair
```

```
assert tx.events['Transfer'][0]['to'] == token.address
```

```
assert tx.events['Transfer'][0]['value'] == 0.1e18
```

```
assert tx.events['Transfer'][1]['from'] == pair
```

```
assert tx.events['Transfer'][1]['to'] == other
```

```
assert tx.events['Transfer'][1]['value'] == 0.9e18
```

```
token.updateMinAmountToTakeFee(1, {"from": owner})
```

```
with reverts():
```

```
    token.transfer(pair, 1e18, {"from": other})
```

```
token.excludeFromMaxTransactionAmount(owner, False, {"from": owner})
```

```
with reverts("ERC20: exceeds transfer limit"):
```

```
    token.transfer(extra, 1000000e18 // 9000, {"from": owner})
```

```
def get_default_args(marketing, router, trasury):
```

```
    ...
```

```
    struct Args {
```

```
        string name;
```

```
        string symbol;
```

```
        uint8 decimals;
```

```
        uint256 totalSupply;
```

```
        uint256 maxWallet;
```

```
        uint256 maxTransactionAmount;
```

```
        address marketingWallet;
```

```

    address mainRouter;

    address treasuryWallet;

    bool isMarketingFeeBaseToken;

    uint24 sellLiquidityFee;

    uint24 buyLiquidityFee;

    uint24 sellMarketingFee;

    uint24 buyMarketingFee;

    uint24 sellTreasuryFee;

    uint24 buyTreasuryFee;

    uint24 sellRewardFee;

    uint24 buyRewardFee;

    uint24 sellBurnFee;

    uint24 buyBurnFee;
}

...

total_supply = 1000000e18

return [
    "LORDZ", "LZ", 18, total_supply,
    total_supply // 10000, total_supply // 10000,
    marketing, router, trasury, True,
    100000, 100000, # sellLiquidityFee, buyLiquidityFee = 10%
    0, 0, # sellMarketingFee, buyMarketingFee
    0, 0, # sellTreasuryFee, buyTreasuryFee
    0, 0, # sellRewardFee, buyRewardFee
    0, 0 # sellBurnFee, buyBurnFee
]

```

# Technical Findings Summary

## Findings

Vulnerability Level	Total	Pending	Not Apply	Acknowledged	Partially Fixed	Fixed
<div><div></div>High</div>	0					
<div><div></div>Medium</div>	0					
<div><div></div>Low</div>	0					
<div><div></div>Informational</div>	0					

# Assessment Results

## Score Results

Review	Score
Global Score	90/100
Assure KYC	Pending
Audit Score	90/100

The Following Score System Has been Added to this page to help understand the value of the audit, the maximum score is 100, however to attain that value the project must pass and provide all the data needed for the assessment. Our Passing Score has been changed to 84 Points for a higher standard, if a project does not attain 85% is an automatic failure. Read our notes and final assessment below. The Global Score is a combination of the evaluations obtained between having or not having KYC and the type of contract audited together with its manual audit.

## Audit PASS

Following our comprehensive security audit of the token contract for the MemeLordz project, we inform you that the project has met the necessary security standards.

# Disclaimer

Assure Defi has conducted an independent security assessment to verify the integrity of and highlight any vulnerabilities or errors, intentional or unintentional, that may be present in the reviewed code for the scope of this assessment. This report does not constitute agreement, acceptance, or advocating for the Project, and users relying on this report should not consider this as having any merit for financial adMemeLordz in any shape, form, or nature. The contracts audited do not account for any economic developments that the Project in question may pursue, and the veracity of the findings thus presented in this report relate solely to the proficiency, competence, aptitude, and discretion of our independent auditors, who make no guarantees nor assurance that the contracts are entirely free of exploits, bugs, vulnerabilities or deprecation of technologies.

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