Assure Defi® THE VERIFICATION GOLD STANDARD



Security Assessment

Drops

Date: 29/03/2024

Audit Status: FAILED

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Low	Low-level vulnerabilities are primarily associated with outdated or unused code snippets that generally do not significantly impact execution, sometimes they can be ignored.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 **Poorly Secured.**

Insecure	Poorly Secured	Secured	Well Secured

Scope

Target Code And Revision

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

Target Code And Revision

Project	Assure
Language	Solidity
Codebase	https://github.com/DropsERC/Drops/commits/main/ - [Commit] 21f148879b2f4766850895dc316ac6e6c27d60cc
Audit Methodology	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	 Compiler warnings. Race conditions and Reentrancy. Cross-function race conditions. Possible delays in data delivery. Oracle calls. Front running. Timestamp dependence. Integer Overflow and Underflow. DoS with Revert. DoS with block gas limit. Methods execution permissions. Economy model. Private user data leaks. Malicious Event log. Scoping and Declarations. Uninitialized storage pointers. Arithmetic accuracy. Design Logic. Cross-function race conditions. Safe Zeppelin module. Fallback function security. Overpowered functions / Owner privileges

AUDIT OVERVIEW



No high severity issues were found.



1. Fee Address update authorization

Contract: IpStake.sol

Function: UpdateFeeAddress

Issue: The updateFeeAddress function allows the current fee address to change the fee address, which could lead to unauthorized redirection of fees.

Fix: Ensure that only the contract owner can change critical addresses.

2. Emergency withdraw could lead to loss of rewards

Contract: IpStake.sol

Function: emergencyWithdraw

Issue: The emergencyWithdraw function allows users to withdraw without receiving their due rewards, which could lead to loss of rewards under emergency conditions.

Fix: Consider a mechanism to account for or claim pending rewards even during emergency withdrawals if it's considered by the team.

3. Centralization risks

Contracts: Drops & IpStake

Functions: constructor(buyselltax, ethfeeinpercent, liquidityfeeinpercent) initialize(depositfeebp and withdrawfeebp), updatefees(depositfeebp and withdrawfeebp)

Issue: The fees mentioned above do not have any type of limit and may become excessively high.

Fix: Add a maximum limit using a require.



1, Ensuring Order in Block Initialization

Contract: IpStake.sol

Function: initialize()

Issue: The variable _startBlock can exceed _bonusEndBlock.

Fix: Integrate the statement require(_startBlock < _bonusEndBlock, "bonusEndBlock must be greater than startBlock") to ensure that _startBlock is always less than _bonusEndBlock.

2. Enhancing Security in Pool Configuration Updates

Contract: IpStake.sol

Function: updateRewardPerBlock(), updateStartAndEndBlocks()

Issue: Reward per block and the start/end blocks can be altered even after the pool has started.

Solution: Implement the condition require(block.number < startBlock, "Pool has already started") to prevent modifications to the reward per block and the start/end blocks once the pool is active.

3. Reward Duration zero division

Contract: IpStake.sol

Function: calcRewardPerBlock()

Issue: If rewardDuration returns zero, it could lead to division by zero in calcRewardPerBlock, causing the

transaction to revert.

Fix: Add checks to ensure rewardDuration is never zero when used in divisions to prevent reverts.

4. Pool Limit update logic

Contract: IpStake.sol

Function: updatePoolLimitPerUser

Issue: The function allows increasing the pool limit per user without checks, which could lead to unbounded deposits.

Fix: Validate the new pool limit to ensure it maintains the intended constraints and is within reasonable bounds during the initialization.



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.

Drops contracts tests:

Coverages:

```
contract: Drops - 62.7%
  Drops.setSellBuyTax - 100.0%
  Drops.setTradingOpen - 100.0%
  Ownable._checkOwner - 100.0%
  Drops.setSwapAndLigThreshold - 87.5%
  ERC20._approve - 75
  ERC20._spendAllowance - 75.0%
  ERC20._transfer - 75
Drops._transfer - 62
  Drops.withdrawERC20Token - 0.0%
  Drops.withdrawETH - 0.0%
  ERC20.decreaseAllowance - 0.0%
Ownable.transferOwnership - 0.0%
contract: DropsLockMarketplace - 59.5%
  DropsLockMarketplace.changePriceInDrops - 100.0%
  DropsLockMarketplace.changePriceInETH - 100.0%
  Ownable._checkOwner - 100.0%
  DropsLockMarketplace.activateListing - 93.8%
  DropsLockMarketplace.redactListing - 87.5%
  DropsLockMarketplace.buyLockWithDrops - 81.2% DropsLockMarketplace.initiateListing - 81.2%
 DropsLockMarketplace.buyLockWithETH - 77.7%
ReentrancyGuard._nonReentrantBefore - 75.0%
  DropsLockMarketplace.withdrawListing - 73.2%
  DropsLockMarketplace._getIndex - 5
  DropsLockMarketplace._getIndexForUserLock - 33.9%
```

```
contract: SmartChefInitializable - 58.2%
SmartChefInitializable.initialize - 91.7%
SmartChefInitializable.remainLockTime - 91.7%
SmartChefInitializable._updatePool - 87.5%
SmartChefInitializable.deposit - 81.3%
SmartChefInitializable.withdraw - 81.2%
Ownable._checkOwner - 75.0%
Ownable.transferOwnership - 75.0%
ReentrancyGuard._nonReentrantBefore - 75.0%
SafeERC20._callOptionalReturn - 75.0%
Address.verifyCallResultFromTarget - 70.8%
SmartChefInitializable._getMultiplier - 29.2%
Address._revert - 25.0%
```

Testing drops:

```
tests/test_drops.py::test_transfer RUNNING
Transaction sent: 0xc6f639b9e0e494a06751e98b9dee54bbff532b155eacd6b0ec69bf826ce2c654
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 0
UniswapV2Factory.constructor confirmed Block: 1 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0x3194cBDC3dbcd3E1la07892e7bA5c3394048Cc87
Transaction sent: 0xf0c4bfff822f620aele8103c528eff7aa5f9883de2121d54628d6992df45b4b0
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 1
WETH9.constructor confirmed Block: 2 Gas used: 476546 (3.97%)
WETH9 deployed at: 0x602C7le4DAC47a042Ee7f46E0aee17F94A3bA0B6
Transaction sent: 0x31f542bf423b85ec64e51189ddb2e32012ead1f5145ba7726b5da371327c0721
   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: 0xad245bdf9782dbcbdfefcf9lcf200225d30b9b3b03ba63d8b2f35bfed16aa94a
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 3
Drops.constructor confirmed Block: 4 Gas used: 4146930 (34.56%)
Drops deployed at: 0x6951b58d815043E3F842clb026b0Fa888Cc2DD85
Transaction sent: 0x34a6103a2c76298c83214bdf9461a853abaca4alc45a5b149a94f28baf18e5d4
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 4
Drops.transfer confirmed (Trading Closed) Block: 5 Gas used: 24826 (0.21%)
Transaction sent: 0xd5cc7b3f1faf561b29ebce8184614a83b98e19053d5fa45f887d9921abfedf6b
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 0
Drops.setTradingOpen confirmed (Ownable: caller is not the owner) Block: 6 Gas used: 22263 (0.19%)
Transaction sent: 0xc7bdef520f50fc2a213bf7c174c3bc708af492cad8a847918525c84cf0dbf09e
   Gas price: 0.0 gwe1 Gas limit: 12000000 Nonce: 5
Drops.setTradingOpen confirmed Block: 7 Gas used: 44880 (0.37%)
Transaction sent: 0x736b558e97e6ab89e737533afc361344bff43d07859368aa94b8bd961ea9f328
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 6
Drops.setTradingOpen confirmed (Trading already open) Block: 8 Gas used: 23101 (0.19%)
Transaction sent: 0x845b3ff4bf4eca33dd4616d82a802b3265c488f84c2ba24ed32ale95963a3lca
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 7
Drops.transfer confirmed (Transfer amount must be greater than 0) Block: 9 Gas used: 22105 (0.18%)
Transaction sent: 0x69296965cc0e801fd276624f7b2efe3b25e1077a7715c7f41f06f8441ffd0baf
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 8
Drops.transfer confirmed Block: 10 Gas used: 59942 (0.50%)
Transaction sent: 0xc5e526b623e36a11f194ad6d90cae2f5b38dbef4e05853a23efdb8f525f3220f
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 1
Drops.transfer confirmed Block: 11 Gas used: 87152 (0.73%)
Transaction sent: 0xb53b2d9d34ce4735f3c734bfcec55e95b8cbfb447e3c41478dda59281825d902
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 2
Drops.setSwapAndLiqThreshold confirmed (Ownable: caller is not the owner) Block: 12 Gas used: 22539 (0.19%)
Transaction sent: 0x10c69286f10cf7d2c2e42995a433e66fc3ed6316ac47d3bdcabd4e719d59d897
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 9
Drops.setSwapAndLiqThreshold confirmed (SnL Threshold must be within the allowed range) Block: 13 Gas used: 23671 (0.20%)
Transaction sent: 0x9c8b059b864e54lc693797968cf376680775a2l60144707dd6l7fbbb4bfb4d66
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 10
Drops.setSwapAndLiqThreshold confirmed Block: 14 Gas used: 29652 (0.25%)
```

LP Stake:

```
tests/test_lp_stake.py::test_deposit RUNNING
Transaction sent: 0x3539145f17fbb9890d836a158f16de3c9f29c2222aa445096f2d3d7229a803ae
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 54
ERC20Mock.constructor confirmed Block: 118 Gas used: 619873 (5.17%)
ERC20Mock deployed at: 0xEfE66132727f3831AB4E020357B5Bf615076Df6A
Transaction sent: 0x99cc3b2f82d7eflaceae6b19f980f3bc789cae5a5d9b30fe6d170db63b0ee295
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 56
SmartChefInitializable.constructor confirmed Block: 120 Gas used: 2017831 (16.82%)
SmartChefInitializable deployed at: 0x93F6bA0E6DcB1Ec0FlaBD80Be3le025d6e64Ad97
Transaction sent: 0x9d02e2634c9c48bb454569abfc43b3b284d3a63e358946d5ee7d5b85a6fdaea2
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 46
SmartChefInitializable.initialize confirmed (Not factory) Block: 121 Gas used: 26151 (0.22%)
Transaction sent: 0x97le8d86b452002d0d3alf4476dbefff15e4f1bcc907447aa45bb70e5db9c3d2
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 57
SmartChefInitializable.initialize confirmed (Cannot be bigger than 100) Block: 122 Gas used: 26177 (0.22%)
Transaction sent: 0xf6815db9511161f2fddcc54097baed5f3777f97f1961a8d5c8479010a505bd41
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 58
SmartChefInitializable.initialize confirmed (Cannot be bigger than 100) Block: 123 Gas used: 26203 (0.22%)
Transaction sent: 0x6d37elcc5fee465ca32adf6e4435d55edcda510893ecbfd39cf524087cddfe84
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 59
SmartChefInitializable.initialize confirmed Block: 124 Gas used: 307202 (2.56%)
Transaction sent: 0xb015fe018a1bb56d1b6320cd40a49b0fbe58fdea8642070cbec8f59c0693d392
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 60
SmartChefInitializable.initialize confirmed (Already initialized) Block: 125 Gas used: 25311 (0.21%)
Transaction sent: 0xc288ff882df012139f1baa935b41a528553a4d35bf2fe58d64a8dcc94049e998
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 47
SmartChefInitializable.deposit confirmed (reverted) Block: 126 Gas used: 42546
                                                                                                      Block: 126 Gas used: 42546 (0.35%)
Transaction sent: 0xbd132a16ccb906e6b95ed08483024d5807932eba37e1flec4a131032588cfe8d
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 61
ERC20Mock.mint confirmed Block: 127 Gas used: 65637 (0.55%)
Transaction sent: 0x75aa740c20b0512d49623f719e8b02db11595221dfadc9d9d390c85a05f59224
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 48
SmartChefInitializable.deposit confirmed (ERC20: insufficient allowance) Block: 128 Gas used: 51969 (0.43%)
Transaction sent: 0x6d96eb60205e0a6340fe760550ld136f8279145f224444193c5c07e8992e35al Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 49 ERC20Mock.approve confirmed Block: 129 Gas used: 44160 (0.37%)
Transaction sent: 0xd17b38ff33cb8735aeff44115a53d48e7e47a5cb3f65f7c433bd7f2e8408fa19
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 50
SmartChefInitializable.deposit confirmed Block: 130 Gas used: 209556 (1.75%)
Transaction sent: 0xddb913dd85abb712b98fafb13bb6630e6cacc8522d07090ab4a5a1f549d5c539
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 51
SmartChefInitializable.deposit confirmed Block: 131 Gas used: 183885 (1.53%)
Transaction sent: 0xa0468733c696c7ea2baa10073798f374203602ae67928falblb5575253ea71fa
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 52
SmartChefInitializable.deposit confirmed (User amount above limit) Block: 132 Gas used: 35410 (0.30%)
```

```
Transaction sent: 0xca8cc65da2320led5b7b92472e7c39daf6102ab0eea3la3ebee4f02b4b8b1078
    Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 62
ERC20Mock.mint confirmed Block: 134 Gas used: 65637 (0.55%)
Transaction sent: 0x5541d9aa2911676af57cb92a78f8d7496f74ba14a07e49ald8106a5a15f641lb
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 53
SmartChefInitializable.deposit confirmed Block: 135 Gas used: 162795 (1.36%)
tests/test_lp_stake.py::test_deposit PASSED
tests/test_lp_stake.py::test_withdraw RUNNING
Transaction sent: 0xbdel53b4558d76744246809c206903656940b8afad05c18f1c7d5108fbbalc7a
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 63
ERC20Mock.constructor confirmed Block: 136 Gas used: 619873 (5.17%)
ERC20Mock deployed at: 0x0764A8da0FCAa127b31E13b79E9a273Fb582bF26
 Transaction sent: 0xlec839c77b235563c5af00c4805ccadeefaf8cff8c103559b24e09b7f8f21887
    Gas price: 0.0 gwei Gas Limit: 12000000 Nonce: 64
ERC20Mock.constructor confirmed Block: 137 Gas used: 619885 (5.17%)
ERC20Mock deployed at: 0x2acClAbFdC76E48e49c91f55512066B4DD6555Dd
Transaction sent: 0x230febb550bb9428339f8e5b26la4b5dca9624809b0f45e333a62dd9ea9d9c62
   Gas price: 0.0 gwe1 Gas limit: 12000000 Nonce: 65
SmartChefInitializable.constructor confirmed Block: 138 Gas used: 2017831 (16.82%)
SmartChefInitializable deployed at: 0xFd87ceEa79b211268Fb182a48E43644543c08709
Transaction sent: 0x800f556eb54ed5425e988118da845cbc6a8322119b57b96927eb1d11957329e9
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 66
SmartChefInitializable.initialize confirmed Block: 139 Gas used: 307214 (2.56%)
Transaction sent: 0x70bb9ef408594a3a6822c9953d3d7dd129d7c2d4590cc54bd4f7e9c8b8d2c867
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 54
SmartChefInitializable.withdraw confirmed (Amount to withdraw too high) Block: 140 Gas used: 30319 (0.25%)
Transaction sent: 0x7c4ba3ef3afb44d9dc8bl21lcc5laa7f0e4la950925ac7dbf663fa783dc3eaaa
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 55
ERC20Mock.approve confirmed Block: 142 Gas used: 44160 (0.37%)
Transaction sent: 0x9eb555e11b0d4ba273844d60bca9ca0ae47fc50b679c5e9c5975e962b0b32ed7
    Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 56
SmartChefInitializable.deposit confirmed Block: 143 Gas used: 209556 (1.75%)
Transaction sent: 0x94e998676e2734947b7e800bc85dbd6207e2edbl0e4f6a92fd61173c62a98cf6
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 57
SmartChefInitializable.withdraw confirmed (withdraw: locktime remains!) Block: 14
                                                                                                    locktime remains!) Block: 144 Gas used: 33659 (0.28%)
Transaction sent: 0x24c4e56e6a1592f88c7d4d49e3b778d73e16c29f39e5d81c5cc5644766af6fb9
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 58
SmartChefInitializable.withdraw confirmed (ERC20: transfer amount exceeds balance) Block: 146 Gas used: 129021 (1.08%)
Transaction sent: 0x53b9f4e4d94b0ff7a8cb2cefbcedea2b0b4da2814cdf1d7f210f64e66af196ee
    Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 68
ERC20Mock.mint confirmed Block: 147 Gas used: 65637 (0.55%)
Transaction sent: 0xf893b2632256e079b753095b97cefb34a299ae6b77dde449259a08c53586dee2
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 59
SmartChefInitializable.withdraw confirmed Block: 148 Gas used: 178640 (1.49%)
tests/test_lp_stake.py::test_withdraw PASSED
```

Marketplace:

```
Transaction sent: 0xfa5eed8be4a97ad5359be3faf82c33b7e9706c2a083be9a29c428348cb2a8158
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 11
Drops.transfer confirmed Block: 15 Gas used: 43252 (0.36%)
Transaction sent: 0xb7d39a5d54d5a7e10497da27c732ea03baea584eb20133f092227db34bd3dec5
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 3
Drops.setSellBuyTax confirmed (Ownable: caller is not the owner) Block: 16 Gas used: 22642 (0.19%)
Transaction sent: 0x1bb53a3bdb9e389d7380664e48d9ca01b338cd6b0f437f60e3993a9e9f60e509
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 12
Drops.setSellBuyTax confirmed (You can only lower fees) Block: 17 Gas used: 230
                                                                                                                                             Block: 17 Gas used: 23631 (0.20%)
Transaction sent: 0xfb3e63c4ae40e0ea0a5491b26fcac9957535628c2f79d02158ee3b8256304ae1
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 13
Drops.setSellBuyTax confirmed Block: 18 Gas used: 27119 (0.23%)
tests/test_drops.py::test_transfer PASSED
tests/test_drops_marketplace.py::test_listing RUNNING
Transaction sent: 0x9le26fef8ec6fef4d405152ad461077313340749026cd2d5ef67d706a977b557
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 14
UniswapV2Factory.constructor confirmed Block: 19 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0xe65A7a341978d59d40d30FC23F5014FACB4f575A
Transaction sent: 0x64f92e98cc38958bde48b00da891d4e84fc36b324fff92728f3af2f38c49557e
    Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 15
UniswapVZLocker.constructor confirmed Block: 20 Gas used: 2656179 (22.13%)
UniswapVZLocker deployed at: 0x303758532345801c88c2AD12541b09E9Aa53A93d
Transaction sent: 0xfb52f01f59bfe56acab0854acf7ff63b4ec61da7l1d7lb8b08f9f26f73c64da8
    Gas price: 0.0 gwei    Gas limit: 12000000    Nonce: 16
    WETH9.constructor confirmed    Block: 21    Gas used: 476546 (3.97%)
    WETH9 deployed at: 0x26f15335B8lC6a4C0B660eDd694a0555A9Flcce3
Transaction sent: 0x4cd7c10e952908d347be0eff68d3d2bb04dcelfla648db5e8558aa6a0bc9f3e0
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 17
UniswapV2Router02.constructor confirmed Block: 22 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0xFbD588c72B438faD4Cf7cD879c8F730Faa213Da0
Transaction sent: 0x4c6ed9dfa466bb589c45f67eca5f53105357c0222a727f6ca874429c3a09b197
    Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 18
UniswapV2AddLiquidity.constructor confirmed Block: 23 Gas used: 449853 (3.75%)
UniswapV2AddLiquidity deployed at: 0xed00238F9A0F7b4d93842033cdF56cCB32C781c2
Transaction sent: 0xc7f42017eda30812e5b76915eda2c72c3789535609elc18a28dd788453ba997b
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 19
Drops.constructor confirmed Block: 24 Gas used: 4146942 (34.56%)
Drops deployed at: 0xDae02e4fE488952cFB8c95177154D188647a0146
Transaction sent: 0x0d5230fdbb243a7e36650a14c55c5ef5ef90lcf5338e0le59fee06f772ec4c70
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 20
DropsLockMarketplace.constructor confirmed Block: 25 Gas used: 2757893 (22.98%)
DropsLockMarketplace deployed at: 0xdCF93F1lef2l6cEC9C07fd3ldD80lc9b2b39Afb4
Transaction sent: 0x14960dc52b8c0c8lebfab9a36a48064681cbf25243b50dc575137aba3b941f4c
    Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 4
WETH9.deposit confirmed Block: 26 Gas used: 43706 (0.36%)
Transaction sent: 0xf3a5a9d484e4d41dc5315e92a01d345d25d39d4fe3a3182860242b767dc27865
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 21
Drops.setTradingOpen confirmed Block: 27 Gas used: 44880 (0.37%)
Transaction sent: 0xc9af84bd2e23c354lc145d20al5c2b53b773366c9daddd9e3af7ebl8502f472d
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 22
Drops.transfer confirmed Block: 28 Gas used: 59942 (0.50%)
```

```
Transaction sent: 0x8c3e7f6dfa8c83a16601f389led9f6cc4ee07cbc83cddb6e8caadd38bbb4b698
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 5
WETH9.approve confirmed Block: 29 Gas used: 43986 (0.37%)
Transaction sent: 0xdd668fab873b15840ead9d705306d679455e2233db021698ea4dbade8ee97b79
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 6
Drops.approve confirmed Block: 30 Gas used: 44200 (0.37%)
Transaction sent: 0x05c9f25bd774e9ba4df5e04bc4b75383dd92fdf37b7d84271797c7468712aa2a
   Gas price: 0.0 gwei Gas Limit: 12000000 Nonce: 7
UniswapV2AddLiquidity.addLiquidity confirmed Block: 31 Gas used: 314140 (2.62%)
Transaction sent: 0x99d64943edb04a10437429052665bfccd6995be2adc881d4afaf87e8f73cbc41
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 8
Transaction confirmed Block: 32 Gas used: 44042 (0.37%)
Transaction sent: 0x576c190a680e351b8750fa0c8908701faf04045570a420524bbfa3ccb6dab901
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 1
Transaction confirmed Block: 33 Gas used: 36020 (0.30%)
Transaction sent: 0xf05fa19b2096da2a771dbc9c6387ff2549213faed1f101b88e8049f689da82e5
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 9
UniswapV2Locker.lockLPToken confirmed Block: 34 Gas used: 385420 (3.21%)
Transaction sent: 0x1045c9a546c046d80852bcb24427e297efe46184a06a830c919569e98fal17c9
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 0
DropsLockMarketplace.initiateListing confirmed (You dont own that lock.) Block: 35 Gas used: 31461 (0.26%)
Transaction sent: 0x8c191ad90ec8dbcb84494e79ea7eb73662dbe3ca8324e5ea36686d7436180c4a
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 10
DropsLockMarketplace.initiateListing confirmed (You must set a price in Drops or ETH) Block: 36 Gas used: 31416 (0.26%)
Transaction sent: 0xde3967bb86d868043f27a6fa0689f79b8f22fbf93cc4a6666f9b5c57e0cbba31
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 11
DropsLockMarketplace.initiateListing confirmed Block: 37 Gas used: 281563 (2.35%)
Transaction sent: 0x235ble20c8897f13045d8a788255469cb2ed0f9ac71e725f99ba8007746be2b1
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 1
DropsLockMarketplace.activateListing confirmed (Lock doesnt belong to you.) Block: 38 Gas used: 29894 (0.25%)
Transaction sent: 0x11bb58227e987c87le5881717f5d00e13beed705d11c124651690281c175d1cf
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 12
DropsLockMarketplace.activateListing confirmed (Lock ownership not yet transferred.) Block: 39 Gas used: 38492 (0.32%)
Transaction sent: 0x2dc3cd087ae348a4a429ced1d0a9a671633166e9be064d51b78d622285279c73
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 13
UniswapV2Locker.transferLockOwnership confirmed Block: 40 Gas used: 87746 (0.73%)
Transaction sent: 0xd634b987263bc6eebf49fb162662f2827b6de05755c664b4ce24f84a0edbc6d0
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 14
DropsLockMarketplace.activateListing confirmed Block: 41 Gas used: 67198 (0.56%)
Transaction sent: 0xdf075dlcde53bbbe2055e8e7b0b3906c2d6592dl04b04cf6e2fe2d3036dd863a
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 15
DropsLockMarketplace.activateListing confirmed (Listing already active.) Block: 42 Gas used: 29923 (0.25%)
Transaction sent: 0x07a8a20511f26ca914732138bc9c9c20c8de19ece6499acf187122d9bcac0c86
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 2
DropsLockMarketplace.buyLockWithETH confirmed (Listing must be active.) Block: 43 Gas used: 35431 (0.30%)
Transaction sent: 0xb2b4a9d01cb71889889d5a346929253eb8bfb2652cef6d3c50cbe039765aa3ab
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 3
DropsLockMarketplace.buyLockWithETH confirmed (Incorrect amount of ETH.) Block: 44 Gas used: 35728 (0.30%)
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Transaction sent: 0x609b17761bf451c321871a956337e7235b52998e79be55b2b589258fe899b99a
    Gas price: 0.0 gwei Gas limit: 12000000 Nonce:
    DropsLockMarketplace.buyLockWithETH confirmed Block: 45 Gas used: 129758 (1.08%)
Transaction sent: 0x421c303e9a023d8le85e6e91c8205cbd16b6d6903d730f4ecdb4119625b58c0b
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 16
DropsLockMarketplace.redactListing confirmed (Ownable: caller is not the owner) Block: 46 Gas used: 22887 (0.19%)
Transaction sent: 0xa18e2fbed393b4bb84e1cf10lab9cbcd212ed5c06cfba7f470ldfe0930aefe5f
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 23
DropsLockMarketplace.redactListing confirmed (Listing does not exist.) Block: 47 Gas used: 23650 (0.20%)
Transaction sent: 0x410f1f098953f6d34628aa32091clab64alda5e38c46b629db3bd3e05fa71fba
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 24
DropsLockMarketplace.redactListing confirmed (Lock not found.) Block: 48 Gas used: 34990 (0.29%)
tests/test_drops_marketplace.py::test_listing PASSED
tests/test_drops_marketplace.py::test_listing_with_drops RUNNING
Transaction sent: 0x2777f20dd3bc257d5e86e6bf7258c21201682567d7c12cc830860243ced574bb
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 25
UniswapV2Factory.constructor confirmed Block: 49 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0x654f70d8442EA18904FA1A079114f7250F7E9336
Transaction sent: 0xfced2d85587471220fa005ba26b38de10d81c6db4d8e0aaeaebaf5c92185e2d7
    Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 26
UniswapVZLocker.constructor confirmed Block: 50 Gas used: 2656179 (22.13%)
UniswapVZLocker deployed at: 0xADeD61D42dE86f9058386D1D0d739d20C7eAfC43
Transaction sent: 0x8648c20cc1678a3f5bc688f117bb2f629c8bc2dd99bb8bed7570350e93d75048
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 27
WETH9.constructor confirmed Block: 51 Gas used: 476546 (3.97%)
WETH9 deployed at: 0x832698Daec363C9A7aB036C224Af5B21280b3AC6
Transaction sent: 0x98e7b4fab595c2f846194c48332775093316ad7c01c5e705c4d6db6e93506dd7
    Gas price: 0.0 gwei Gas Limit: 12000000 Nonce: 28
UniswapV2Router02.constructor confirmed Block: 52 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0xA95916C3D979400C7443961330b3092510a2298a
Transaction sent: 0x011dfce2250581fc1c17c4128174077550c3a621379407ea409921e07e5f551f
    Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 29
UniswapV2AddLiquidity.constructor confirmed Block: 53 Gas used: 449853 (3.75%)
UniswapV2AddLiquidity deployed at: 0x42E8D004c84E6B5Bad559D3b5CE7947AADb9E0bc
Transaction sent: 0xf619bd146b6a772cc0a89fda485282e02b087ea45ab84ad656564e1c625f94f9
    Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 30
Drops.constructor confirmed Block: 54 Gas used: 4146942 (34.56%)
Drops deployed at: 0xF06D5f5BfFFCB6a52c84cfebc03AD35637728E73
Transaction sent: 0xdelf6f1678283b962dc0afcfaf730100d3687c619e4b34abf622e5f6df175ca7
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 31
DropsLockMarketplace.constructor confirmed Block: 55 Gas used: 2757893 (22.98%)
DropsLockMarketplace deployed at: 0x82c83b7f88aef2eD99d4869D547b6ED28e69C8df
Transaction sent: 0xe39976adaf27834466065398d65d304a102bf8574ee07d9f7b082e2c2fab4ab1
    Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 17
WETH9.deposit confirmed Block: 56 Gas used: 43706 (0.36%)
Transaction sent: 0x910a1le3945555a7d29e7f6c26e49ebf38a514c9c961b6091c3d36be0edce72f
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 32
Drops.setTradingOpen confirmed Block: 57 Gas used: 44880 (0.37%)
Transaction sent: 0x859740d01ccb9239fb443ffae3b16e6e40df06c18192a4862992f0dea5b9dc94
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 33
Drops.transfer confirmed Block: 58 Gas used: 59942 (0.50%)
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Fransaction sent: 0xce3ddb5867ac7d99d511ca199d1e6ab0c9034c250304d3d55c22e54cba927610
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 18
WETH9.approve confirmed Block: 59 Gas used: 43998 (0.37%)
Transaction sent: 0x109855c2b710c57ee3956b651f37fa526408b8e1088d2f027e1d2809390c08fd
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 19
Drops.approve confirmed Block: 60 Gas used: 44212 (0.37%)
Transaction sent: 0x89412b916deecae745e47323263f614f65555352cb688aae79add84595b27803
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 20
UniswapV2AddLiquidity.addLiquidity confirmed Block: 61 Gas used: 314140 (2.62%)
Transaction sent: 0x92623961ada4670e23040dbfd9f24f034f4c0ce4b6821998f52e0f34d6b275bf
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 21
Transaction confirmed Block: 62 Gas used: 44042 (0.37%)
Transaction sent: 0x4ac57elce17b4ea804clacbea83cb583alf3a5d5283c33fcce6865973d7f269b
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 1
Transaction confirmed Block: 63 Gas used: 36020 (0.30%)
Transaction sent: 0xecf73a055a0250ace3387e58c60d86b62a83af918b446f4413eebf78f2bb665d
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 22
UniswapV2Locker.lockLPToken confirmed Block: 64 Gas used: 385420 (3.21%)
Transaction sent: 0x8d6f0ad29de6629eb62c85e4c66e2cd31296bf746fbf2f52db090784eb12f9fa
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 23
DropsLockMarketplace.initiateListing confirmed Block: 65 Gas used: 281563 (2.35%)
Transaction sent: 0xb2746187df73c6b67711ca2764a46d91le90cf36288f50c601b1bdf71b9d3d88
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 24
UniswapV2Locker.transferLockOwnership confirmed Block: 66 Gas used: 87746 (0.73%)
Transaction sent: 0xdeafad30ae8babe31cde4e321a9ca91119b0b40b2f57dlae0fcdef8181ca8cde
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 25
DropsLockMarketplace.activateListing confirmed Block: 67 Gas used: 67198 (0.56%)
Transaction sent: 0xa713fe49a0319afe2e10171b2b824dcad16abb288cbdef6bc965449c474d3b59
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 5
DropsLockMarketplace.buyLockWithDrops confirmed (Listing must be active.) Block: 68 Gas used: 35431 (0.30%)
Transaction sent: 0x24b952b96aa6bab9af77a9fb5f5f36711720376296562bd77485cca5ff26belc
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 6
DropsLockMarketplace.buyLockWithDrops confirmed (Insufficient drops.) Block: 69 Gas used: 38801 (0.32%)
Transaction sent: 0xe9dd66c7b78057bb1f6cd517043c4e96f53769ee2ba336b8b5bfcd8fc631f255
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 34
Drops.transfer confirmed Block: 70 Gas used: 59930 (0.50%)
Transaction sent: 0xdd09973aec4c97aea10c7cc39ccc21b8591f7127af752106d2db058df1327404
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 7
Drops.approve confirmed Block: 71 Gas used: 44200 (0.37%)
Transaction sent: 0xe02d5e4a30la49bfbec3bc6b214b5466164fa46cc55lee9f828adfce7677ac4l
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 8
DropsLockMarketplace.buyLockWithDrops confirmed Block: 72 Gas used: 122232 (1.02%)
Transaction sent: 0x21f4113a5fc6041ac20eleedb6b35165de4a52480b5ad61bb6be22e6434c5756
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 9
DropsLockMarketplace.withdrawListing confirmed (This listing does not belong to you.) Block: 73 Gas used: 35715 (0.30%)
Transaction sent: 0xbd0f30c5c8a9a44c32261fd95deba9e2665dc91f9e4582e380de16262de59991
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 26
DropsLockMarketplace.withdrawListing confirmed (Marketplace does not own your lock) Block: 74 Gas used: 44210 (0.37%)
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Transaction sent: 0x98f73ef2f76694df5465660822a80d79547e756f4b23bfae6aa801646633d496
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 10
UniswapV2Locker.transferLockOwnership confirmed Block: 75 Gas used: 87746 (0.73%)
Transaction sent: 0x71f98789549b9a3e85312bc2c685500f6b1b4e6b1fde5cc4d22cc1da111839a6
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 27
DropsLockMarketplace.withdrawListing confirmed Block: 76 Gas used: 113761 (0.95%)
tests/test_drops_marketplace.py::test_listing_with_drops_PASSED
tests/test_drops_marketplace.py::test_redact_listing_RUNNING
Transaction_sent: 0x88bcc5ec517fc6d00a705470aa0a513ea0540221260b2fb0052b50687ld46dbc
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 35
UniswapV2Factory.constructor confirmed Block: 77 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0xbc8eCccb89650c3E796e803CB009BF9b898CB359
Transaction sent: 0x988263f94cc162ccd9eb557ff3f946ee364bbf5132327bec921b76dd202a2ed4
   Gas price: 0.0 gwe1 Gas limit: 12000000 Nonce: 36
UniswapV2Locker.constructor confirmed Block: 78 Gas used: 2656179 (22.13%)
UniswapV2Locker deployed at: 0x741e3E1f81041c62C2A97d0b6E567Aca809A6232
Transaction sent: 0xecbabe8a7b5d619b2aa2d435d8468e8e780abdb5389498a0427789a42012e6fc
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 37
WETH9.constructor confirmed Block: 79 Gas used: 476546 (3.97%)
WETH9 deployed at: 0x480FccF53589c1F185835db88bB315a0bBF9a3e0
Transaction sent: 0xfcc3c971eld16d34a6674bc19b76e887043194f02b0eafe45766c9c26741b93e
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 38
UniswapV2Router02.constructor confirmed Block: 80 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0xFE0F4Cf8185c0a6Fd65a610FD9488F33aE9095cB
Transaction sent: 0x260136ddd240dd545086167507749078c196cca12be3b56c48d9c21a0566a33b
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 39
UniswapV2AddLiquidity.constructor confirmed Block: 81 Gas used: 449853 (3.75%)
UniswapV2AddLiquidity deployed at: 0x4e3E7dC9D84dA7BE8f017f4C36153A61341736d4
Transaction sent: 0x851d73a6124bd05ba4f4755e13e0cc331298de54056b68f616cae851b4dfa2f7
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 40
Drops.constructor confirmed Block: 82 Gas used: 4146932 (34.56%)
Drops deployed at: 0x0AC45e945A008D3fc19da8f59lbe8601C1F63130
Transaction sent: 0xa8503b2e9bc3e40e0fb48e74859ac1972090b9f1fb02f6df4792227d34c2ce75
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 41
DropsLockMarketplace.constructor confirmed Block: 83 Gas used: 2757881 (22.98%)
DropsLockMarketplace deployed at: 0x5847798CE8c89e3Fff59AE5fA308EC0d406b5687
Transaction sent: 0x0c8738643dc0ea6ced833f7felc42le7589f3d27485cf8b8b06bf66a4f59e311
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 28
WETH9.deposit confirmed Block: 84 Gas used: 43706 (0.36%)
Transaction sent: 0xcf527478f29c0aecf8b4624dd77f591d0f4d6743aeb98dc114f94194ae918b6a
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 42
Drops.setTradingOpen confirmed Block: 85 Gas used: 44880 (0.37%)
Transaction sent: 0x87286510491e5c7b72b790480332663b80a52688bc4ccf7a62e429e4545f0b17
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 43
Drops.transfer confirmed Block: 86 Gas used: 59942 (0.50%)
Transaction sent: 0x2dff8ac5174477afb57bb5d89cc7d374f3c8a5cafa96e980a9d28lclbedfd6eb
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 29
WETH9.approve confirmed Block: 87 Gas used: 43998 (0.37%)
Transaction sent: 0xb5d30a35b84879e6d25la05c0f3e2974df6ee9d37f45fe5249102a509693bc87
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 30 Drops.approve confirmed Block: 88 Gas used: 44212 (0.37%)
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ransaction sent: 0x98c955684bab581faee4dc21bb7a2897a5db6d00052d7fc02aa760fc8b9522b6
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 31
UniswapV2AddLiquidity.addLiquidity confirmed Block: 89 Gas used: 314088 (2.62%)
 Transaction sent: 0x2652c309f35bdbfbea7lc0fcb058e03b827laa78d8506f5fa29236a5d514a926
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 32
Transaction confirmed Block: 90 Gas used: 44042 (0.37%)
 Transaction sent: 0xaa7e4d063fdecle46d4le016fd09b6db508cf8c95dd8e51845dcf2d485ebdda4
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 1
Transaction confirmed Block: 91 Gas used: 36020 (0.30%)
Transaction sent: 0x3297721e9306a272a29ccceefe8085b4f5e8900c9fc62f52edd321c32d7b752a
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 33
UniswapV2Locker.lockLPToken confirmed Block: 92 Gas used: 385420 (3.21%)
 Transaction sent: 0xf15a97eeb06267fcd10ebdb3b96c240777cd533b35880e162d87e9708c1le6a3
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 34
DropsLockMarketplace.initiateListing confirmed Block: 93 Gas used: 281563 (2.35%)
Transaction sent: 0x560b024db9leab8f1614238bled8e777d74a3b10802b43fd26f027990815bleb
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 35
UniswapV2Locker.transferLockOwnership confirmed Block: 94 Gas used: 87746 (0.73%)
 Transaction sent: 0xf5b8596236cfc23ea0a84927e2lca19cab3af930353982fc9122c848a41358b7
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 36
DropsLockMarketplace.activateListing confirmed Block: 95 Gas used: 67198 (0.56%)
Transaction sent: 0x098aa62bef9a5c15c23e99f783330c0b62d531244d87bdcccf213929bb894987
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 44
DropsLockMarketplace.redactListing confirmed Block: 96 Gas used: 107002 (0.89%)
tests/test_drops_marketplace.py::test_redact_listing PASSED
tests/test_drops_marketplace.py::test_change_price RUNNING
Transaction sent: 0xdc16e00c878bf9cb9a8e2eca896ed061247282ea7162de8d440b88fcclcf1617
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 45
UniswapV2Factory.constructor confirmed Block: 97 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0xa1910C6e0Fbd0E38cfBabAeC5D1C1D539F81CC63
Transaction sent: 0xbcecab8bad0e5b088347a89b50c94a6230c58ca74e48cbc2f6d0e4b12dfae800
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 46
UniswapV2Locker.constructor confirmed Block: 98 Gas used: 2656179 (22.13%)
UniswapV2Locker deployed at: 0x8BE16B874F47371C42498b499837Ed87D7661E86
Transaction sent: 0x3d411f9e6e8831730200b2a8607a3fa7a78a4bb8223e0d0943189380e40b8eeb
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 47
WETH9.constructor confirmed Block: 99 Gas used: 476546 (3.97%)
WETH9 deployed at: 0x1aa96efd2B002541E830CB7f60e473AA24e31F9A
Transaction sent: 0x73dabd716c258797feaf97893931cd531080c3d25f5ed06b064e169df627df3f
    Gas price: 0.0 gwei    Gas limit: 12000000    Nonce: 48
    UniswapV2Router02.constructor confirmed    Block: 100    Gas used: 3895418 (32.46%)
    UniswapV2Router02 deployed at: 0x8b18440724DCe2EE9779858af841Ec59F545838B
Transaction sent: 0x7594b8acb35a0blcldebc4a6857be3f00628b7a33df335c4ae0455adcaacbl7d
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 49
UniswapV2AddLiquidity.constructor confirmed Block: 101 Gas used: 449853 (3.75%)
UniswapV2AddLiquidity deployed at: 0xC6D563d5c2243b27e7294511063f563ED701EA2C
                                                                                                                                                                   Gas used: 449853 (3.75%)
 Transaction sent: 0x3ac36f78c19f7a9772dc5181f8b6a6cb87056d7814da126844fb3b32a59e4008
    Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 50
Drops.constructor confirmed Block: 102 Gas used: 4146942 (34.56%)
Drops deployed at: 0xD537bF4b795b7D07Bd5F4bAf7017e3ce8360B1DE
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Fransaction sent: 0x60be063e5cf63a43477a4e5ffa6744d4a891739303cd415db3fc91017fd2e4fe
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 51
DropsLockMarketplace.constructor confirmed Block: 103 Gas used: 2757893 (22.98
DropsLockMarketplace deployed at: 0x70bC6D873D110Da59a9c49E7485a2780F605E5db
                                                                                                            Gas used: 2757893 (22.98%)
Transaction sent: 0xa3dfd38c2llfa9288cfcf0619bebblf8b25f0e48b12540399418f4d7a49128b1
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 37
WETH9.deposit confirmed Block: 104 Gas used: 43706 (0.36%)
Transaction sent: 0x1a350fa8093b8ce4cdf01961e492f22a45bad14cde357a0cd46df1d1d1c0cc9e
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 52
Drops.setTradingOpen confirmed Block: 105 Gas used: 44880 (0.37%)
Transaction sent: 0x735f105f8fd1855c2f0c8a24c39767f61f1cafa63baedddc544785ba1f71984c
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 53
Drops.transfer confirmed Block: 106 Gas used: 59942 (0.50%)
Transaction sent: 0x3361b69a816a3ca2d10dd55f754143919865ad1a4a0d6a2cf18173476ad7d193
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 38
WETH9.approve confirmed Block: 107 Gas used: 43998 (0.37%)
Transaction sent: 0xea63a567e2aaea74ee0085becb21579d1a5fda8f0ae3b653420248ffe7ad173e
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 39
Drops.approve confirmed Block: 108 Gas used: 44212 (0.37%)
Transaction sent: 0x4c5e9915efcd0358c82e70d31d77cc2f2a915959b8a6ce24f9ff0a57aada0552
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 40
UniswapV2AddLiquidity.addLiquidity confirmed Block: 109 Gas used: 314128 (2.62%)
Transaction sent: 0xce4e6d4b762d30bc19eb1380c222d2ba1387a6a59588950b3700d3849dc31817
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 41
Transaction confirmed Block: 110 Gas used: 44042 (0.37%)
Transaction sent: 0x0le7fe704cbd72c2b6cdef5le34028b47897a0048cb6637374651f0ddalfe3lc
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 1
Transaction confirmed Block: 111 Gas used: 36020 (0.30%)
Transaction sent: 0x52d1038a66167eab8eeaelf0c0e8502ed10c7e1f76f7b5d7fdd4153fdac19992
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 42
UniswapV2Locker.lockLPToken confirmed Block: 112 Gas used: 385420 (3.21%)
Transaction sent: 0x10f6ca212bbb33046c9dd0d9e6b95264027b0102d05f285f62f910442527bb26
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 43
DropsLockMarketplace.initiateListing confirmed Block: 113 Gas used: 281563 (2.35%)
Transaction sent: 0x0ab87532126e3d0f0f99361819f3f844d022a30a6cdce42eb160c7875fc1f6a5
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 11
DropsLockMarketplace.changePriceInETH confirmed (This listing does not belong to you.) Block: 114 Gas used: 29148 (0.24%)
Transaction sent: 0xd47bfa99bea2594c7ff07006838a6f36d3970ac9f7add21d9797325dle024bb0
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 44
DropsLockMarketplace.changePriceInETH confirmed Block: 115 Gas used: 30632 (0.26%)
Transaction sent: 0xba77903bdc76a8842af0ca3le3e0ld857f45e3l4aa603c7ccl23e642c7e38d71
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 12
DropsLockMarketplace.changePriceInDrops confirmed (This listing does not belong to you.) Block: 116 Gas used: 29217 (0.24%)
Transaction sent: 0x42cc04871ff8a90bf3b64169f0blee864dfac1069086fe30664f42f03706lee7
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 45
DropsLockMarketplace.changePriceInDrops confirmed Block: 117 Gas used: 30701 (0.26%)
tests/test_drops_marketplace.py::test_change_price PASSED
```

Annexes

Testing code:

Drops.py:

```
from brownie import (
    reverts,
)
from scripts.helpful_scripts import (
    get_account,
from scripts.deploy import (
    deploy factory,
    deploy_router,
    deploy_weth,
    deploy_drops,
def test_transfer(only_local):
   owner = get_account(0)
    other = get_account(1)
    extra = get_account(2)
    fee_wallet = get_account(3)
    factory = deploy_factory(owner, fee_wallet)
    weth = deploy_weth(owner)
    router = deploy_router(owner, factory.address, weth.address)
   # buySellTax
   # 1000 = 10%
    # 100 = 1%
    drops = deploy_drops(owner, router.address, 1000, 5, 5, 10e18, fee_wallet)
    # Supply: 10000000e18
    with reverts("Trading Closed"):
        drops.transfer(other, 1e18, {"from": owner})
    with reverts("Ownable: caller is not the owner"):
        drops.setTradingOpen({"from": other})
    drops.setTradingOpen({"from": owner})
    with reverts("Trading already open"):
        drops.setTradingOpen({"from": owner})
    with reverts("Transfer amount must be greater than 0"):
        drops.transfer(other, 0, {"from": owner})
```

```
tx = drops.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
tx = drops.transfer(drops.uniswapV2Pair(), 1e18, {"from": other})
assert tx.events['Transfer'][1]['from'] == other
assert tx.events['Transfer'][1]['to'] == drops.uniswapV2Pair()
assert tx.events['Transfer'][1]['value'] == 0.9e18
with reverts("Ownable: caller is not the owner"):
    drops.setSwapAndLiqThreshold(1e18, {"from": other})
with reverts("SnL Threshold must be within the allowed range"):
    drops.setSwapAndLiqThreshold(1e18, {"from": owner})
drops.setSwapAndLiqThreshold(1e21, {"from": owner}) # 100 ethers
# NO FEE
tx = drops.transfer(drops.uniswapV2Pair(), 1e18, {"from": owner})
assert tx.events['Transfer'][0]['from'] == owner
assert tx.events['Transfer'][0]['to'] == drops.uniswapV2Pair()
assert tx.events['Transfer'][0]['value'] == 1e18
with reverts("Ownable: caller is not the owner"):
    drops.setSellBuyTax(10, 10, {"from": other})
with reverts("You can only lower fees"):
    drops.setSellBuyTax(10, 10, {"from": owner})
tx = drops.setSellBuyTax(5, 5, {"from": owner})
assert tx.events['TaxUpdated'][0]['taxPercent'] == 1000
```

Drops Marketplace.py:

```
from brownie import (
    reverts,
    UniswapV2Pair
)

from brownie.network.contract import Contract

from scripts.helpful_scripts import (
    ZERO_ADDRESS,
    get_account,
    get_timestamp,
)

from scripts.deploy import (
    deploy_weth,
    deploy_router,
```

```
deploy_drops,
    deploy_lock_marketplace,
    deploy_locker,
    deploy_factory,
    deploy_liquidity
)
def test listing(only local):
    # Arrange
    owner = get_account(0)
    other = get_account(1)
    extra = get_account(2)
    # Deploy contracts
    factory = deploy_factory(owner, owner)
    locker = deploy_locker(owner, factory.address)
    weth = deploy_weth(owner)
    router = deploy_router(owner, factory.address, weth.address)
    liquidity = deploy_liquidity(owner, factory.address, router.address)
    drops = deploy_drops(owner, router.address, 1000, 5, 5, 10e18, owner)
    market = deploy_lock_marketplace(owner, locker.address, owner, drops.address)
    weth.deposit({"from": other, "value": 10e18})
    drops.setTradingOpen({"from": owner})
    drops.transfer(other, 5e18, {"from": owner})
    weth.approve(liquidity.address, 100e18, {"from": other})
    drops.approve(liquidity.address, 100e18, {"from": other})
    liquidity.addLiquidity(drops.address, weth.address, 1000e6, 1e18, {"from": other})
    pair addr = drops.uniswapV2Pair()
    pair = Contract.from_abi("UniswapV2Pair", pair_addr, UniswapV2Pair.abi)
    pair.approve(locker.address, 10e18, {"from": other})
    pair.transfer(other, pair.balanceOf(liquidity), {"from": liquidity})
    # Lock tokens
    locker.lockLPToken(pair_addr, 3e10, get_timestamp(), ZERO_ADDRESS, True, other,
{"from": other, "value": 1e18})
    with reverts("You dont own that lock."):
        market.initiateListing(pair_addr, 0, 1e16, 1e16, other, {"from": extra})
    with reverts("You must set a price in Drops or ETH"):
        market.initiateListing(pair_addr, 0, 0, 0, other, {"from": other})
    tx = market.initiateListing(pair addr, 0, 1e18, 1e18, other, {"from": other})
    assert tx.events['ListingInitiated'][0]['lpToken'] == pair_addr
    assert tx.events['ListingInitiated'][0]['lockID'] == 0
    assert tx.events['ListingInitiated'][0]['seller'] == other
```

```
with reverts("Lock doesn't belong to you."):
        market.activateListing(pair_addr, 0, {"from": extra})
   with reverts("Lock ownership not yet transferred."):
        market.activateListing(pair_addr, 0, {"from": other})
   locker.transferLockOwnership(pair_addr, 0, 0, market.address, {"from": other})
   market.activateListing(pair_addr, 0, {"from": other})
   with reverts("Listing already active."):
       market.activateListing(pair addr, ∅, {"from": other})
   with reverts("Listing must be active."):
        market.buyLockWithETH(ZERO_ADDRESS, 0, {"from": extra})
   with reverts("Incorrect amount of ETH."):
        market.buyLockWithETH(pair_addr, 0, {"from": extra, "value": 1e17})
   market.buyLockWithETH(pair_addr, 0, {"from": extra, "value": 1e18})
   with reverts("Ownable: caller is not the owner"):
        market.redactListing(pair_addr, 0, {"from": other})
   with reverts("Listing does not exist."):
       market.redactListing(ZERO_ADDRESS, 0, {"from": owner})
   with reverts("Lock not found."):
       market.redactListing(pair_addr, 0, {"from": owner})
def test_listing_with_drops(only_local):
   owner = get_account(0)
   other = get_account(1)
   extra = get_account(2)
   factory = deploy_factory(owner, owner)
   locker = deploy locker(owner, factory.address)
   weth = deploy_weth(owner)
   router = deploy_router(owner, factory.address, weth.address)
   liquidity = deploy_liquidity(owner, factory.address, router.address)
    drops = deploy_drops(owner, router.address, 1000, 5, 5, 10e18, owner)
   market = deploy_lock_marketplace(owner, locker.address, owner, drops.address)
   # Add liquidity
   weth.deposit({"from": other, "value": 10e18})
   drops.setTradingOpen({"from": owner})
   drops.transfer(other, 5e18, {"from": owner})
   weth.approve(liquidity.address, 100e18, {"from": other})
    drops.approve(liquidity.address, 100e18, {"from": other})
   liquidity.addLiquidity(drops.address, weth.address, 1000e6, 1e18, {"from": other})
   pair_addr = drops.uniswapV2Pair()
   pair = Contract.from_abi("UniswapV2Pair", pair_addr, UniswapV2Pair.abi)
    pair.approve(locker.address, 10e18, {"from": other})
    pair.transfer(other, pair.balanceOf(liquidity), {"from": liquidity})
```

```
locker.lockLPToken(pair_addr, 3e10, get_timestamp(), ZERO_ADDRESS, True, other,
{"from": other, "value": 1e18})
    tx = market.initiateListing(pair_addr, 0, 1e18, 1e18, other, {"from": other})
    assert tx.events['ListingInitiated'][0]['lpToken'] == pair_addr
    assert tx.events['ListingInitiated'][0]['lockID'] == 0
    assert tx.events['ListingInitiated'][0]['seller'] == other
    locker.transferLockOwnership(pair_addr, 0, 0, market.address, {"from": other})
    market.activateListing(pair_addr, 0, {"from": other})
    with reverts("Listing must be active."):
        market.buyLockWithDrops(ZERO_ADDRESS, 0, {"from": extra})
    with reverts("Insufficient drops."):
        market.buyLockWithDrops(pair_addr, 0, {"from": extra})
    drops.transfer(extra, 5e18, {"from": owner})
    drops.approve(market.address, 1e18, {"from": extra})
    tx = market.buyLockWithDrops(pair_addr, 0, {"from": extra})
    assert tx.events['LockPurchasedWithDrops'][0]['lpToken'] == pair addr
    assert tx.events['LockPurchasedWithDrops'][0]['lockID'] == 0
    assert tx.events['LockPurchasedWithDrops'][0]['profitInDrops'] == 1e18
    with reverts("This listing does not belong to you."):
        market.withdrawListing(pair_addr, 0, {"from": extra})
    with reverts("Marketplace does not own your lock"):
        market.withdrawListing(pair_addr, 0, {"from": other})
    locker.transferLockOwnership(pair_addr, 0, 0, market.address, {"from": extra})
    tx = market.withdrawListing(pair_addr, 0, {"from": other})
    assert tx.events['ListingWithdrawn'][0]['lpToken'] == pair_addr
    assert tx.events['ListingWithdrawn'][0]['lockID'] == 0
def test_redact_listing(only_local):
    owner = get_account(0)
    other = get_account(1)
    extra = get_account(2)
    factory = deploy_factory(owner, owner)
    locker = deploy_locker(owner, factory.address)
    weth = deploy_weth(owner)
    router = deploy_router(owner, factory.address, weth.address)
    liquidity = deploy_liquidity(owner, factory.address, router.address)
    drops = deploy_drops(owner, router.address, 1000, 5, 5, 10e18, owner)
    market = deploy_lock_marketplace(owner, locker.address, owner, drops.address)
    # Add liquidity
    weth.deposit({"from": other, "value": 10e18})
```

```
drops.setTradingOpen({"from": owner})
    drops.transfer(other, 5e18, {"from": owner})
   weth.approve(liquidity.address, 100e18, {"from": other})
    drops.approve(liquidity.address, 100e18, {"from": other})
    liquidity.addLiquidity(drops.address, weth.address, 1000e6, 1e18, {"from": other})
   pair_addr = drops.uniswapV2Pair()
   pair = Contract.from_abi("UniswapV2Pair", pair_addr, UniswapV2Pair.abi)
   pair.approve(locker.address, 10e18, {"from": other})
    pair.transfer(other, pair.balanceOf(liquidity), {"from": liquidity})
   # Lock tokens
   locker.lockLPToken(pair_addr, 3e10, get_timestamp(), ZERO_ADDRESS, True, other,
{"from": other, "value": 1e18})
   market.initiateListing(pair_addr, 0, 1e18, 1e18, other, {"from": other})
   locker.transferLockOwnership(pair_addr, 0, 0, market.address, {"from": other})
   market.activateListing(pair_addr, 0, {"from": other})
   tx = market.redactListing(pair_addr, 0, {"from": owner})
    assert tx.events['ListingRedacted'][0]['lpToken'] == pair_addr
    assert tx.events['ListingRedacted'][0]['lockID'] == 0
def test_change_price(only_local):
   owner = get_account(0)
   other = get_account(1)
    extra = get_account(2)
   # Deploy contracts
   factory = deploy_factory(owner, owner)
   locker = deploy_locker(owner, factory.address)
   weth = deploy weth(owner)
    router = deploy_router(owner, factory.address, weth.address)
    liquidity = deploy_liquidity(owner, factory.address, router.address)
    drops = deploy_drops(owner, router.address, 1000, 5, 5, 10e18, owner)
   market = deploy_lock_marketplace(owner, locker.address, owner, drops.address)
   weth.deposit({"from": other, "value": 10e18})
    drops.setTradingOpen({"from": owner})
    drops.transfer(other, 5e18, {"from": owner})
   weth.approve(liquidity.address, 100e18, {"from": other})
    drops.approve(liquidity.address, 100e18, {"from": other})
    liquidity.addLiquidity(drops.address, weth.address, 1000e6, 1e18, {"from": other})
    pair addr = drops.uniswapV2Pair()
   pair = Contract.from_abi("UniswapV2Pair", pair_addr, UniswapV2Pair.abi)
   pair.approve(locker.address, 10e18, {"from": other})
    pair.transfer(other, pair.balanceOf(liquidity), {"from": liquidity})
```

```
# Lock tokens
locker.lockLPToken(pair_addr, 3e10, get_timestamp(), ZERO_ADDRESS, True, other,
{"from": other, "value": 1e18})
   market.initiateListing(pair_addr, 0, 1e18, 1e18, other, {"from": other})

with reverts("This listing does not belong to you."):
    market.changePriceInETH(pair_addr, 0, 2e18, {"from": extra})
market.changePriceInETH(pair_addr, 0, 2e18, {"from": other})

with reverts("This listing does not belong to you."):
    market.changePriceInDrops(pair_addr, 0, 2e18, {"from": extra})
market.changePriceInDrops(pair_addr, 0, 2e18, {"from": other})
```

Lp_stake.py:

```
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_lp_stake
)
def test_deposit(only_local):
    owner = get_account(0)
    other = get_account(1)
    extra = get_account(2)
    staked_token = deploy_erc(owner, "Stake", "STK")
    reward_token = deploy_erc(owner, "Reward", "RWD")
    stake = deploy_lp_stake(owner)
    with reverts("Not factory"):
        stake.initialize(
            staked_token.address, reward_token.address,
```

```
1e16, get_chain_number() + 1, get_chain_number() + 50,
        0, 1000, 1000, 360, get_timestamp(), DAY_TIMESTAMP * 30,
        owner, {"from": other}
with reverts("Cannot be bigger than 100"):
    stake.initialize(
        staked_token.address, reward_token.address,
        1e16, get_chain_number() + 1, get_chain_number() + 50,
        0, 10001, 1000, 360, get_timestamp(), DAY_TIMESTAMP * 30,
        owner, {"from": owner}
with reverts("Cannot be bigger than 100"):
    stake.initialize(
        staked_token.address, reward_token.address,
        1e16, get_chain_number() + 1, get_chain_number() + 50,
        0, 1000, 10001, 360, get_timestamp(), DAY_TIMESTAMP * 30,
        owner, {"from": owner}
stake.initialize(
        staked token.address, reward token.address,
        1e16, get_chain_number() + 1, get_chain_number() + 50,
        5e18, 1000, 1000, 360, get_timestamp(), DAY_TIMESTAMP * 30,
        other, {"from": owner}
with reverts("Already initialized"):
    stake.initialize(
        staked_token.address, reward_token.address,
        1e16, get_chain_number() + 1, get_chain_number() + 50,
        0, 1000, 1000, 360, get_timestamp(), DAY_TIMESTAMP * 30,
        other, {"from": owner}
    )
with reverts():
    stake.deposit(1e18, {"from": other})
staked_token.mint(other, 10e18)
with reverts("ERC20: insufficient allowance"):
    stake.deposit(1e18, {"from": other})
staked_token.approve(stake.address, 10e18, {"from": other})
tx = stake.deposit(1e18, {"from": other})
assert tx.events['Deposit'][0]['user'] == other
assert tx.events['Deposit'][0]['amount'] == 0.9e18
tx = stake.deposit(2e18, {"from": other})
assert tx.events['Deposit'][0]['user'] == other
assert tx.events['Deposit'][0]['amount'] == 1.8e18
with reverts("User amount above limit"):
    stake.deposit(4e18, {"from": other})
```

```
# Add rewards after lock time ends
    increase_timestamp(DAY_TIMESTAMP * 31)
    reward token.mint(stake.address, 1e18)
    tx = stake.deposit(1e18, {"from": other})
    assert tx.events['Transfer'][0]['from'] == stake.address
    assert tx.events['Transfer'][0]['to'] == other
def test_withdraw(only_local):
   # Arrange
    owner = get_account(∅)
    other = get account(1)
    extra = get_account(2)
    staked_token = deploy_erc(owner, "Stake", "STK")
    reward_token = deploy_erc(owner, "Reward", "RWD")
    stake = deploy_lp_stake(owner)
    stake.initialize(
        staked token.address, reward token.address,
        le16, get_chain_number() + 1, get_chain_number() + 50,
        5e18, 1000, 1000, 360, get_timestamp(), DAY_TIMESTAMP * 15,
        other, {"from": owner}
    )
    with reverts("Amount to withdraw too high"):
        stake.withdraw(1e18, {"from": other})
    staked_token.mint(other, 10e18)
    staked_token.approve(stake.address, 10e18, {"from": other})
    stake.deposit(2e18, {"from": other})
    with reverts("withdraw: locktime remains!"):
        stake.withdraw(1e18, {"from": other})
    increase timestamp(DAY TIMESTAMP * 16)
    with reverts("ERC20: transfer amount exceeds balance"):
        stake.withdraw(1e18, {"from": other})
    reward_token.mint(stake.address, 1e18)
    tx = stake.withdraw(1e18, {"from": other})
    assert tx.events['Transfer'][0]['from'] == stake.address
    assert tx.events['Transfer'][0]['to'] == other
    assert tx.events['Transfer'][0]['value'] == 0.9e18
    assert tx.events['Withdraw'][0]['user'] == other
    assert tx.events['Withdraw'][0]['amount'] == 1e18
```

Technical Findings Summary

Findings

Vulnerability Level	Total	Pending	Not Apply	Acknowledged	Partially Fixed	Fixed
High	0					
Medium	3					
Low	4					
Informational	0					

Assessment Results

Score Results

Review	Score
Audit Score	75/100
Assure KYC	Pending
Audit Score	80/100

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 FAILED

Following our comprehensive security audit of the project Drops, we regret to inform you that the project did not meet the necessary security standards. The audit revealed three medium vulnerabilities that present significant risks and require immediate attention before deployment. The lack of a KYC (Know Your Customer) process elevates the risk of centralization due to the current owner's extensive privileges. To address this issue, it is crucial to implement restrictions on all specified functions that have an impact on user funds. For detailed information, please refer to the section "medium vulnerabilities - 3."

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 advice 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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