Assure Defi® THE VERIFICATION GOLD STANDARD



Security Assessment

Profit_IQ

Date: 14/04/2024

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Low	Low-level vulnerabilities are primarily associated with outdated or unused code snippets that generally do not significantly impact execution, sometimes they can be ignored.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 Profit_IQ 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/raptor042/ETH_Miner/blob/ master/contracts/Bank.sol
	Bank.sol - [Commit] 21f148879b2f4766850895dc316ac6e6c27d60c c
	https://github.com/raptor042/ETH_Miner/blob/ master/contracts/Miner.sol
	Miner.sol - [Commit] 21f148879b2f4766850895dc316ac6e6c27d60c c
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



1. Reentrancy Attack Vulnerability in Reward Functions

Contract: Miner

Functions: claimRewards(), withdraw()

Issue: The functions lack a reentrancy guard, which poses a high risk of reentrancy attacks where external calls can lead to unintended contract behavior.

Mitigation: Incorporate the nonReentrant modifier from OpenZeppelin contracts into these functions.



2. Arbitrary Reward Setting Vulnerability in claimRewards() and withdraw()

Contract: Miner

Functions: claimRewards(), withdraw()

Issue: The contract currently allows any reward amount to be set via the function argument. This can lead to unexpected or manipulated rewards being issued.

Mitigation: Modify the functions to calculate rewards internally using a calculateRewards() function specific to the msg.sender. This approach ensures that rewards are computed based on predefined rules, minimizing the risk of erroneous payouts.

1. Address Zero Assignment Vulnerability Across Contract Functions

Contract: Miner, Bank

Functions:

<u>Miner</u>: constructor(_bank, _wallet1, _wallet2) , changeTFeeWallet(), changePFeeWallet(), changeBank(_bank), claimRewards(), withdraw()

Bank: setAdmin(_admin)

Issue: Within both the Miner and Bank contracts, several functions are at risk of receiving and processing a zero address. This vulnerability can lead to unintended behaviors and could potentially disrupt contract management by mistakenly assigning a zero address to key contract functionalities.

Mitigation: To address this security risk, a robust validation mechanism should be implemented across all affected functions. Specifically, a require() statement should be added to verify that no zero addresses (address(0)) are used when setting or updating addresses. This should be applied in:

Miner Contract: In the constructor to ensure initial addresses are valid, and in the changeTFeeWallet(), changePFeeWallet(), and changeBank(_bank) functions to secure address updates.

Bank Contract: In the setAdmin(_admin) function to guard administrative controls.

This check, formatted as require(address_variable != address(0), "Address cannot be zero."), ensures the use of valid, non-null addresses across all critical operations, thereby reducing the risk of security lapses due to erroneous or malicious address inputs. Implementing this mitigation uniformly across related functions strengthens the contracts' defenses against common vulnerabilities associated with address handling.



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.

Profit IQ contracts tests:

Coverages:

```
contract: Bank - 87.5%
Bank.transfer - 87.5%

contract: Miner - 84.0%
Miner.changePenaltyFee - 100.0%
Miner.changeReferralFee - 100.0%
Miner.changeTransactionFee - 100.0%
Miner.userExists - 100.0%
Miner.userExists - 20.0%
Miner.claimRewards - 92.7%
Miner.mine - 90.0%
Miner.withdraw - 89.1%
Miner.re_mine - 86.1%
Miner.calculateRewards - 12.5%
```

Testing Profit_IQ Token:

```
tests/test_bank.py::test_set_admin RUNNING
Transaction sent: 0x32dc56a646e8778a9c962f6faf0fa0f549499b92715399eee5c7fdb75b7f444cf
Gas price: 0.0 gwei Gas Limit: 12000000 Nonce: 0
Bank.constructor confirmed Block: 1 Gas used: 262651 (2.19%)
Bank deployed at: 0x3194c8DC3dbcd3E1la07892e7bA5c3394048c687

Transaction sent: 0x05967bac6acec557173810c78cd18dbfba4bde78a4ab6097565fd0bee4c9b810
Gas price: 0.0 gwei Gas Limit: 12000000 Nonce: 0
Bank.setAdmin confirmed (Only owner can call this function.) Block: 2 Gas used: 22660 (0.19%)

Transaction sent: 0x0b0be0c77402261444bb3ad78c15c12926e491da018197f22ca15c04e198a7f4e
Gas price: 0.0 gwei Gas Limit: 12000000 Nonce: 1
Bank.setAdmin confirmed Block: 3 Gas used: 43409 (0.36%)

tests/test_bank.py::test_set_admin PASSED
tests/test_bank.py::test_set_admin PASSED
tests/test_bank.py::test_set_admin PASSED
tests/test_bank.py::test_transfer RUNNING
Transaction sent: 0x6fdd7b622700079cdb3097becf544e149b5fda185affe15a238b9d53bf2a5d2
Gas price: 0.0 gwei Gas Limit: 12000000 Nonce: 2
Bank.constructor confirmed Block: 4 Gas used: 262651 (2.19%)
Bank deployed at: 0xf7e0f47fac5360f88a2EFC03E00d25789F69291

Transaction sent: 0x8bb956197079cb3ed604555da973810fe2b1d40c961f244099fd37ec98d1bb66
Gas price: 0.0 gwei Gas Limit: 12000000 Nonce: 1
Bank.transfer confirmed (Only admin can call this function.) Block: 5 Gas used: 22936 (0.19%)

Transaction sent: 0xf6621b69a24ef9dcaa5d93f85d4de523965516099fc8e6d459ce2fae6eff0bb8
Gas price: 0.0 gwei Gas Limit: 12000000 Nonce: 3
Bank.setAdmin confirmed Block: 6 Gas used: 3421 (0.36%)

Transaction sent: 0xf82cf8b45791741071b702134d60049eada293c3e853159a02ea82e1d08b241
Gas price: 0.0 gwei Gas Limit: 12000000 Nonce: 2
Bank.transfer confirmed (Insufficent funds.) Block: 7 Gas used: 22943 (0.19%)

Transaction sent: 0xf82cf8b45791741071b702134d60049eada293c3e853159a02ea82e1d08b241
Gas price: 0.0 gwei Gas Limit: 12000000 Nonce: 3
Bank.transfer confirmed Block: 9 Gas used: 31838 (0.27%)
```

```
tests/test_miner.py::test_change_fee RUNNING
Transaction sent: 0x4c679e47dd6c32ead360f51b0ed65d11ff577afd51402f406e144655e737825b
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 5
Bank.constructor confirmed Block: 10 Gas used: 262651 (2.19%)
Bank deployed at: 0x6b4BDe1086912A6Cb24ce3dB43b3466e6c72AFd3
Transaction sent: 0x07b487af0427fd9df7c32e846ad348859259alacd408f99cf6e4lad83d9a6f33
   Gas price: 0.0 gwei Gas limit: 120000000 Nonce: 6
Miner.constructor confirmed Block: 11 Gas used: 1638074 (13.65%)
Miner deployed at: 0x9E4c14403d7d9A8A782044E86a93CAE0907B2ac9
Transaction sent: 0x7lc563b25496f250eafc0fcad921438870c92ca69d4ccf76ffb21211188d464d
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 4
Miner.changeTransactionFee confirmed (Only owner can call this function.) Block: 12 Gas used: 22428 (0.19%)
Transaction sent: 0x948ac97b9b9ff5902b28c3c16340f34be45f82a189ba2fa67b06a08cb487fdff
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 7
Miner.changeTransactionFee confirmed (Transaction fee cannot exceed 5%) Block: 13 Gas used: 22412 (0.19%)
Transaction sent: 0xa298e0d696677898c575821f5d899d73f8b0103df3f0222b95b31e82708f8ffa
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 8
Miner.changeTransactionFee confirmed Block: 14 Gas used: 27305 (0.23%)
Transaction sent: 0xe8d26d53422691f7ea7ad85002fda2865e56a33324e8866b307ab55ee3588a77
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 5
Miner.changeReferralFee confirmed (Only owner can ca
                                                                                        can call this function.) Block: 15 Gas used: 22506 (0.19%)
Transaction sent: 0x8478bfc5160f077f21cf2a0ce45b63cce2b1921b178d563fc032169884850ca7
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 9
Miner.changeReferralFee confirmed (Referral fee cannot exceed 5%) Block: 16 Gas used: 22487 (0.19%)
Transaction sent: 0xcab482a344181bbbacb63dcab2ecd848c4d49553e2b5469284f09e0ba7887592
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 10
Miner.changeReferralFee confirmed Block: 17 Gas used: 27383 (0.23%)
Transaction sent: 0xcb415d96aeeedc27d2915068fc9a121ae972353081a0d081c0d125c3c2cf549a
  Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 6
Miner.changePenaltyFee confirmed (Only owner can call this function.) Block: 18 Gas used: 22439 (0.19%)
Transaction sent: 0x45b3571f0d95482d80cllbf4e80f40laa08a874d7c915eef39e7a88e3dfb83ff
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 11
Miner.changePenaltyFee confirmed (Penalty fee cannot exceed 50%) Block: 19 Gas used: 22420 (0.19%)
Transaction sent: 0x06a20c20a6e3ba9ae5lbfff99623bb6023407b6e209a90fd5339b099fb320bef
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 12
Miner.changePenaltyFee confirmed Block: 20 Gas used: 27316 (0.23%)
tests/test_miner.py::test_change_fee PASSED
```

```
Transaction sent: 0x9155c70a643474285132c4bcf5fabf377cdcfca320e02eeb833d609ab6ad4723
Gas price: 0.0 gwel Gas Limit: 12000000 Nonce: 13
Bank.constructor confirmed Block: 21 Gas used: 262651 (2.19%)
Bank deployed at: 0xe692Cf21B12e0B2717C4bF647F9768Fa58861c8b

Transaction sent: 0x22d5842f88320fd055c3b75a269603faee7b93318e28748476430dd233f0la0d
Gas price: 0.0 gwel Gas Limit: 12000000 Nonce: 14
Miner.constructor confirmed Block: 22 Gas used: 1638074 (13.65%)
Miner deployed at: 0xe65A73341978d59d40d30FC23F5014FACB4f575A

Transaction sent: 0xc7161b31d071456a030abc542cc27f82f7b6c8245ce9fba8d317466336d29cdc
Gas price: 0.0 gwel Gas Limit: 12000000 Nonce: 7
Miner.mine confirmed (Insufficent deposit amount.) Block: 23 Gas used: 23445 (0.20%)

Transaction sent: 0xe9de2c7672ef44455568c877acdd67613e02c14c1e99372705ab149bafca9d5c
Gas price: 0.0 gwel Gas Limit: 12000000 Nonce: 8
Miner.mine confirmed Block: 24 Gas used: 241319 (2.01%)

Transaction sent: 0x46e00ece0946b48c9e26a3793c36c2307b2487ac007b90df117975ac4624d9a66
Gas price: 0.0 gwel Gas Limit: 12000000 Nonce: 9
Miner.mine confirmed Block: 25 Gas used: 57045 (0.48%)

Transaction sent: 0xf3e93e94268740e30573e09478783531070e437ff8130d38806327ef52dbb77
Gas price: 0.0 gwel Gas Limit: 12000000 Nonce: 0
Miner.mine confirmed Block: 26 Gas used: 309361 (2.58%)

Transaction sent: 0xe236a302c66bfe3b1998c9969715c8a3117c784062e76708ea64e36de6ddb571
Gas price: 0.0 gwel Gas Limit: 12000000 Nonce: 0
Miner.re_mine confirmed Block: 28 Gas used: 36785 (0.31%)

Transaction sent: 0xe2a6a302c66bfe3b1998c9969715c8a3117c784062e76708ea64e36de6ddb571
Gas price: 0.0 gwel Gas Limit: 12000000 Nonce: 1
Miner.re_mine confirmed Block: 28 Gas used: 36785 (0.31%)

Transaction sent: 0xe2a6a302c66bfe3b1998c9969715c8a3117c784062e76708ea64e36de6ddb571
Gas price: 0.0 gwel Gas Limit: 12000000 Nonce: 2
Miner.re_mine confirmed Block: 28 Gas used: 50195 (0.42%)

Tensaction sent: 0xe2a6a302c66bfe3b1998c9969715c8a3117c784062e76708ea64e36de6ddb571
Gas price: 0.0 gwel Gas Limit: 12000000 Nonce: 2
Miner.re_mine confir
```

```
tests/test_miner.py::test_uthdraw RUMPLING
Transaction sent: bxbc3bb4a2f808f5943db32c4e6633876b533caaea9594d1871ae943236e64540e
Gas price: 0.0 guei Gas Linit: 12808080 Nonce: 18
Bank.constructor confirmed Block: 44 Gas used: 262651 (2.19%)
Bank deployed at: 0x8de0238F9ABF7b4d93428233cdF56cC832C781c2

Transaction sent: 0x9cffd1c1f16cb932f2de62ab4eb1f4c8bba950a65b6494b29c945616582ad2ca
Gas price: 0.0 guei Gas Linit: 12808080 Nonce: 18
Miner.constructor confirmed Block: 45 Gas used: 1638062 (13.65%)
Miner deployed at: 0x8de02a4ff2d89952cF88c9517715d0188647a0846

Transaction sent: 0x93ba884332c42990b5c45c2727b80beb85b496ac62r8da848d327ce3a7da16fba6
Gas price: 0.0 guei Gas Linit: 12808080 Nonce: 14
Miner.mine confirmed Block: 46 Gas used: 241319 (2.01%)

Transaction sent: 0xf0342a9c5b7397bacb599feaf7677db17809c6bcc6e107792c7bcb945c7357ee
Gas price: 0.0 guei Gas Linit: 12808080 Nonce: 4
Miner.mine confirmed Block: 47 Gas used: 389361 (2.58%)

Transaction sent: 0x6408595e8599930b43fb389e8b4763ae8dc06cb7983403ddf7d520dc46cc57d
Gas price: 0.0 guei Gas Linit: 12808080 Nonce: 4
Miner.withdraw confirmed Block: 47 Gas used: 389361 (2.58%)

Transaction sent: 0x659d3a183e9ac1106e9c9d9ad53c737478785fbec549cf369a49137f7552d791
Gas price: 0.0 guei Gas Linit: 12808080 Nonce: 15
Miner.withdraw confirmed (bnly admin can call this function.) Block: 49 Gas used: 37871 (0.32%)

Transaction sent: 0x1ea659a129e3f66e8dbcd072a881fe5abe125bc8374a187e84710f9ad3e154e
Gas price: 0.0 guei Gas Linit: 12808080 Nonce: 15
Miner.withdraw confirmed Block: 50 Gas used: 34321 (0.36%)

Transaction sent: 0x2ab46569eeaa36d69ca73252f78e26795338bdfe8ab125bc6374a187e84710f9ad3e154e
Gas price: 0.0 guei Gas Linit: 12808080 Nonce: 15
Miner.withdraw confirmed Block: 51 Gas used: 58784 (0.36%)

Transaction sent: 0x3ab46769eeaa36d69ca73252f78a9f951a11142b466c91aa64c3d9c58c2951
Gas price: 0.0 guei Gas Linit: 12808080 Nonce: 16
Miner.withdraw confirmed Block: 53 Gas used: 58247 (0.43%)

Transaction sent: 0x3ab46769eeaa36d69ca73252c68a96296ff6666c7ae4453bbcd554bd718
```

Annexes

Testing code:

Miner.py:

```
from brownie import (
  <u>reverts,</u>
<u>from scripts.helpful_scripts import (</u>
  ZERO ADDRESS,
  DAY_TIMESTAMP,
  get_account,
 get_timestamp,
  get_chain_number,
  <u>increase_timestamp</u>
<u>from scripts.deploy import (</u>
   deploy bank,
   deploy miner
def test change fee(only local):
 # Arrange
 owner = get_account(0)
  other = get_account(1)
   extra = get_account(2)
```

```
<u>t wallet = get account(7)</u>
 p wallet = get account(8)
 bank = deploy bank(owner)
 miner = deploy miner(owner, 1, 1, 1, 1, 1,
                 bank.address, t wallet, p wallet)
 with reverts("Only owner can call this function."):
    miner.changeTransactionFee(2, {"from": other})
with reverts("Transaction fee cannot exceed 5%"):
   miner.changeTransactionFee(6, {"from": owner})
assert miner.transaction fee() == 1
miner.changeTransactionFee(2, {"from": owner})
assert miner.transaction fee() == 2
 with reverts("Only owner can call this function."):
  miner.changeReferralFee(2, {"from": other})
with reverts("Referral fee cannot exceed 5%"):
     miner.changeReferralFee(6, {"from": owner})
 assert miner.referral fee() == 1
miner.changeReferralFee(2, {"from": owner})
assert miner.referral fee() == 2
 with reverts("Only owner can call this function."):
```

```
miner.changePenaltyFee(2, {"from": other})
   with reverts("Penalty fee cannot exceed 50%"):
       miner.changePenaltyFee(55, {"from": owner})
   assert miner.penalty_fee() == 1
  miner.changePenaltyFee(25, {"from": owner})
  assert miner.penalty fee() == 25
def test mine(only local):
  # Arrange
 owner = get_account(0)
 other = get account(1)
  extra = get account(2)
  referee = get account(3)
 t wallet = get account(7)
  p wallet = get account(8)
  bank = deploy bank(owner)
  miner = deploy miner(owner, 1, 1, 1, 1, 1,
                       bank.address, t_wallet, p_wallet)
   with reverts("Insufficent deposit amount."):
     miner.mine(ZERO ADDRESS, {"from": other, "value": 1e15})
  assert t wallet.balance() == 1000e18
  <u>value = 1e18</u>
  <u>t fee = (value * 0.01)</u>
```

```
tx = miner.mine(ZERO ADDRESS, {"from": other, "value": value})
   assert tx.events['User Created'][0]['user'] == other
   assert tx.events['Mine'][0]['user'] == other
  assert tx.events['Mine'][0]['amount'] == 1e18 - t_fee
   assert t wallet.balance() == 1000e18 + t fee
   tx = miner.mine(ZERO_ADDRESS, {"from": other, "value": value})
   assert tx.events['Mine'][0]['user'] == other
  assert tx.events['Mine'][0]['amount'] == 1e18 - t fee
  tx = miner.mine(referee, {"from": extra, "value": value})
  assert tx.events['Mine'][0]['user'] == extra
   assert tx.events['Mine'][0]['amount'] == 1e18 - t fee
   with reverts("No user account detected."):
      miner.re mine({"from": referee})
  tx = miner.re mine({"from": extra})
  assert tx.events['ReMine'][0]['user'] == extra
  increase timestamp(DAY TIMESTAMP * 10)
  tx = miner.re_mine({"from": extra})
   assert tx.events['ReMine'][0]['user'] == extra
def test claim rewards(only local):
 # Arrange
  owner = get account(0)
  other = get account(1)
  extra = get account(2)
```

```
another = get_account(3)
referee = get account(4)
t wallet = get account(7)
p wallet = get account(8)
bank = deploy_bank(owner)
miner = deploy miner(owner, 1, 1, 1, 1, 1,
                    bank.address, t wallet, p wallet)
miner.mine(ZERO ADDRESS, {"from": other, "value": 1e18})
with reverts("No user account detected."):
   miner.claimRewards(10e18, {"from": extra})
 with reverts("Only admin can call this function."):
   miner.claimRewards(10e18, {"from": other})
 bank.setAdmin(miner.address, {"from": owner})
tx = miner.claimRewards(1e16, {"from": other})
assert tx.events['Claim'][0]['user'] == other
assert tx.events['Claim'][0]['amount'] == 0.0099e18
increase timestamp(DAY TIMESTAMP * 2)
tx = miner.claimRewards(1e16, {"from": other})
assert tx.events['Claim'][0]['user'] == other
assert tx.events['Claim'][0]['amount'] == 0.0099e18
miner.mine(referee, {"from": another, "value": 1e18})
tx = miner.claimRewards(1e16, {"from": another})
```

```
assert tx.events['Claim'][0]['user'] == another
   assert tx.events['Claim'][0]['amount'] == 0.0098e18
  increase timestamp(DAY TIMESTAMP * 2)
  tx = miner.claimRewards(1e16, {"from": another})
  assert tx.events['Claim'][0]['user'] == another
   assert tx.events['Claim'][0]['amount'] == 0.0098e18
def test withdraw(only local):
  # Arranae
  owner = get_account(0)
 other = get account(1)
  extra = get account(2)
  another = get account(3)
   referee = get account(4)
  t wallet = get account(7)
  p wallet = get account(8)
  bank = deploy bank(owner)
   miner = deploy_miner(owner, 1, 1, 1, 1, 1,
                        bank.address, t wallet, p wallet)
  miner.mine(ZERO_ADDRESS, {"from": other, "value": 1e18})
  miner.mine(referee, {"from": another, "value": 2e18})
   with reverts("No user account detected."):
       miner.withdraw(10e18, {"from": extra})
```

```
with reverts("Only admin can call this function."):
     miner.withdraw(10e18, {"from": other})
bank.setAdmin(miner.address, {"from": owner})
miner.withdraw(0, {"from": other})
increase timestamp(DAY TIMESTAMP * 2)
tx = miner.withdraw(0, {"from": other})
assert tx.events['Withdraw'][0]['user'] == other
assert tx.events['Withdraw'][0]['amount'] == 0
miner.mine(ZERO ADDRESS, {"from": referee, "value": 10e18})
miner.withdraw(0, {"from": another})
increase timestamp(DAY TIMESTAMP * 2)
tx = miner.withdraw(0, {"from": another})
assert tx.events['Withdraw'][0]['user'] == another
 assert tx.events['Withdraw'][0]['amount'] == 0
```

Bank.py:

```
from brownie import (
    reverts,
)

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

```
from scripts.deploy import (
   deploy bank
def test set admin(only local):
 # Arrange
 owner = get_account(0)
 other = get account(1)
  extra = get_account(2)
  bank = deploy bank(owner)
  with reverts("Only owner can call this function."):
      bank.setAdmin(extra, {"from": other})
  assert bank.admin() == ZERO ADDRESS
  bank.setAdmin(extra, {"from": owner})
  assert bank.admin() == extra
def test_transfer(only_local):
 # Arrange
  owner = get_account(0)
 other = get_account(1)
 extra = get account(2)
   bank = deploy bank(owner)
```

```
with reverts("Only admin can call this function."):
    bank.transfer(extra, 1e18, {"from": other})

bank.setAdmin(other, {"from": owner})

with reverts("Insufficent funds."):
    bank.transfer(extra, 1e18, {"from": other})

owner.transfer(bank.address, "2 ether")

tx = bank.transfer(extra, 1e18, {"from": other})

assert tx.events['Transfer'][0]['user'] == extra

assert tx.events['Transfer'][0]['amount'] == 1e18
```

Technical Findings Summary

Findings

Vulnerability Level	Total	Pending	Not Apply	Acknowledged	Partially Fixed	Fixed
High	1					
Medium	1					
Low	1					
Informational	0					

Assessment Results

Score Results

Review	Score
Audit Score	70/100
Assure KYC	Pending
Audit Score	75/100

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 token contract for Profit_IQ project, We regret to inform you that the project has not met the required security standards due to identified vulnerabilities within the contract functions. These issues, particularly those classified as medium and high risk, must be resolved before deployment.

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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