



Part of Tibereum Group

# **AUDITING REPORT**

#### **Version Notes**

| Version | No. Pages | Date       | Revised By     | Notes       |
|---------|-----------|------------|----------------|-------------|
| 1.0     | Total: 28 | 2021-09-27 | Zapmore, Donut | Audit Final |

#### **Audit Notes**

| Audit Date                           | 2021-08-25 - 2021-09-23  |
|--------------------------------------|--|
| Auditor/Auditors                     | Donut, Zenith  |
| Auditor/Auditors Contact Information | contact@obeliskauditing.com  |
| Notes                                | Specified code and contracts are audited for security flaws. UI/UX (website), logic, team, and tokenomics are not audited. |
| Audit Report Number                  | OB581242157  |

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## **Obelisk Auditing**

Defi is a relatively new concept but has seen exponential growth to a point where there is a multitude of new projects created every day. In a fast-paced world like this, there will also be an enormous amount of scams. The scams have become so elaborate that it's hard for the common investor to trust a project, even though it could be legit. We saw a need for creating high-quality audits at a fast phase to keep up with the constantly expanding market. With the Obelisk stamp of approval, a legitimate project can easily grow its user base exponentially in a world where trust means everything. Obelisk Auditing consists of a group of security experts that specialize in security and structural operations, with previous work experience from among other things, PricewaterhouseCoopers. All our audits will always be conducted by at least two independent auditors for maximum security and professionalism.

As a comprehensive security firm, Obelisk provides all kinds of audits and project assistance.

#### **Audit Information**

The auditors always conducted a manual visual inspection of the code to find security flaws that automatic tests would not find. Comprehensive tests are also conducted in a specific test environment that utilizes exact copies of the published contract.

While conducting the audit, the Obelisk security team uses best practices to ensure that the reviewed contracts are thoroughly examined against all angles of attack. This is done by evaluating the codebase and whether it gives rise to significant risks. During the audit, Obelisk assesses the risks and assigns a risk level to each section together with an explanatory comment. Take note that the comments from the project team are their opinion and not the opinion of Obelisk.

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# Project Information

| Project Name        | Kukafe  |
|---------------------|---|
| Description         | KuKafe is one of the first cross-DEX yield farm on the Kucoin Community Chain (KCC) focused on offering the highest sustainable yield farming APRs. |
| Website             | https://kukafe.finance/#/   |
| Contact             | @kukafeBarista  |
| Contact information | @kukafeBarista on TG  |
| Token Name(s)       | N/A   |
| Token Short         | N/A   |
| Contract(s)         | See Appendix A  |
| Code Language       | Solidity  |
| Chain               | ксс   |

## **Executive Summary**

The audit of Kukafe was conducted by two of Obelisks' security experts between the 25th of August 2021 and the 23rd of September 2021.

After auditing Kukafe, there were multiple security findings found. Obelisk updated Kukafe with these findings in which Kukafe worked to solve all of the outstanding risk rating issues besides #5 (please see project comment).

Other Informational findings are there for informational purposes and don't impact the project on a larger scale on audited implementation.

The team has not reviewed the UI/UX, logic, team, or tokenomics of the Kukafe project.

Please read the full document for a complete understanding of the audit.

# Summary Table

| Audited Part  | ID    | Severity      | Resolved    |
|---|-------|---------------|-------------|
| Contract Owner Can Modify<br>Vaults                     | #0001 | Medium Risk   | Mitigated   |
| Contract Owner Can Panic And<br>Pause Personal Vault    | #0002 | Low Risk      | Mitigated   |
| Vaults Can Be Created By<br>Anyone                      | #0003 | Low Risk      | Mitigated   |
| Buyback Fees Can Be Unlimited                           | #0004 | Low Risk      | Mitigated   |
| Swap To Compound Vault Can<br>Be Frontrun               | #0005 | Low Risk      | See Comment |
| EOA Only Functions May Still Be<br>Called By A Contract | #0006 | Low Risk      | Mitigated   |
| Local Copy of OpenZeppelin<br>Contract                  | #0007 | Informational | Mitigated   |
| Strategy Harvests Rewards Via<br>Deposit                | #0008 | Informational | Mitigated   |
| Missing Zero Checks                                     | #0009 | Informational | Partial     |
| No Events Emitted For Changes<br>To Protocol Values     | #0010 | Informational | Mitigated   |

#### Introduction

Obelisk was commissioned by Kukafe on the 29th of July 2021 to conduct a comprehensive audit of some of Kukafes' contracts (see appendix for list). The following audit was conducted between the 25th of August 2021 and the 23rd of September 2021 and delivered on the 27th of September 2021. Two of Obelisk's security experts went through the related contracts using industry standards to find if any vulnerabilities could be exploited.

The audit was conducted on contracts that were not live in a production environment. A comprehensive on-chain analysis was conducted on the live contracts in order to match the audited contracts with the published contracts, which was a correct match.

There were multiple findings of Low and Medium severity that could cause a problem while using the contracts. The project solved all of these outstanding issues besides #5 which is a Low-Risk issue regarding Oracle for rewards where rewards from the swap can be front-run, but which don't risk users' personal funds (please see project comment).

The informational findings are good to know while interacting with the project but don't directly damage the project in its current state.

Please see each section of the audit to get a full understanding of the audit.

# Findings

# Manual Analysis

## Contract Owner Can Modify Vaults

| SEVERITY   | Medium Risk   |
|------------|---|
| RESOLVED   | Mitigated   |
| FINDING ID | #0001   |
| LOCATION   | StrategyLP2.sol -> 88-90 : function setBuybackStrat(address _address) external onlyOwner StrategyLP2.sol -> 91-93 : function setStakingMode(bool _b) external onlyOwner StrategyLP2.sol -> 94-96 : function setReferralMode(bool _b) external onlyOwner StrategyLP2.sol -> 97-99 : function setSwapPathRegistry(address _a) external onlyOwner StrategyLP2.sol -> 100-102 : function setMinToLiquify(uint256 n) external onlyOwner StrategyLPPersonalVault.sol -> 94-96 : function setBuybackStrat(address _address) external onlyOwner StrategyLPPersonalVault.sol -> 97-99 : function setStakingMode(bool _b) external onlyOwner StrategyLPPersonalVault.sol -> 100-102 : function setReferralMode(bool _b) external onlyOwner StrategyLPPersonalVault.sol -> 103-105 : function setSwapPathRegistry(address _a) external onlyOwner StrategyLPPersonalVault.sol -> 106-108 : function setMinToLiquify(uint256 n) external onlyOwner |

| DESCRIPTION       | The contract owner of the personal vault can modify protocol values. Changes to these parameters can break the interaction of the vault with the underlying farm contract. |
|-------------------|--|
| RECOMMENDATION    | Restrict the contract owner's ability to affect the operation of the vault.  |
| MITIGATED/COMMENT | Ownership of the GrowthVaultLaunch, PrivateVaultFactory_LPReferralHarvestLock, and personal  |

vaults were transferred to a 72 hours (3 days) timelock.

GrowthVaultLaunch

0x79aC1133C9CF22598744C95F8611142Ff23C884a

PrivateVaultFactory\_LPReferralHarvestLock 0xB29495301434d53BE6d49598DC4D8C7F37a158a5

Timelock

<u>0xa5D65C1215dBa10EdB16B7b40B2a8981ef7f783C</u>

#### Contract Owner Can Panic And Pause Personal Vault

| SEVERITY   | Low Risk   |
|------------|--|
| RESOLVED   | Mitigated  |
| FINDING ID | #0002  |
| LOCATION   | StrategyLPPersonalVault.sol -> 377-383<br>StrategyLPPersonalVault.sol -> 395-403 |

```
function panic() public onlyOwnerOrUser {
  pause();
  withdrawFromFarm(balanceOfPool());
  if (balanceOfPool() == 0){
      amtManualDeposited = 0;
  }
}
```

```
function pause() public onlyOwnerOrUser {
1
2
          _pause();
3
          IERC20(lpPair).safeApprove(masterchef, 0);
4
         IERC20(rewardToken).safeApprove(router, 0);
5
         if (baseToken != address(0)){
             IERC20(otherToken).safeApprove(router, 0);
             IERC20(baseToken).safeApprove(router, 0);
7
8
          }
     }
```

#### DESCRIPTION

The contract owner of the personal vault can call panic. This causes the vault to withdraw tokens from the underlying farm and delete the amount the user manually deposited. This effectively will delete the record of how long they were staked. These tokens can be recovered using <code>saveToken()</code>; however, this is unconventional. The

|                   | contract owner may also pause the vaults, potentially breaking the vault's interactions with the underlying farm.   |
|-------------------|---|
| RECOMMENDATION    | Restrict the contract owner's ability to affect the operation of the vault.   |
| MITIGATED/COMMENT | Ownership of personal vaults was transferred to the timelock. A new operator address was added to allow the project team to panic vaults in case of an emergency.  Timelock  0xa5D65C1215dBa10EdB16B7b40B2a8981ef7f783C |

#### Vaults Can Be Created By Anyone

| SEVERITY   | Low Risk  |
|------------|---|
| RESOLVED   | Mitigated   |
| FINDING ID | #0003   |
| LOCATION   | PrivateVaultFactory_LPReferralHarvestLock.sol -> 34 |

```
function createVault(address _lpPair,
          address _rewardToken,
 3
          address _baseToken,
 4
          address _masterchef,
          uint256 _poolId, address _router, address
   _swapPathRegistry,
          address _user, address _feeStrat, bool
   _stakingMode, bool _referralMode) external returns
   (address) {
 7
8
          StrategyLPPersonalVault temp = new
  StrategyLPPersonalVault(_lpPair,
              _rewardToken,
10
              _baseToken,
11
              _masterchef,
              _poolId,
12
13
              _router,
14
              _swapPathRegistry,
15
              _user,
              _feeStrat
17
         );
18
          temp.setStakingMode(_stakingMode);
          temp.setReferralMode(_referralMode);
19
20
21
          temp.transferOwnership(owner());
          IVaultRegistry(vaultRegistry).registerVault(_user,
  address(temp), VAULT_TYPE);
23
          return address(temp);
24
      }
```

| DESCRIPTION    | Vaults may be created by any caller for any given user.<br>This could result in unexpected behavior, depending on<br>how the vaultRegistry functions. |
|----------------|---|
| RECOMMENDATION | Restrict the addresses which can create a vault for a user. One option could be to restrict the msg.sender to _user or                                |

|                   | owner().  |
|-------------------|---|
| MITIGATED/COMMENT | Vaults can now only be created by the user who will use it. |

#### Buyback Fees Can Be Unlimited

| SEVERITY   | Low Risk  |
|------------|---|
| RESOLVED   | Mitigated   |
| FINDING ID | #0004   |
| LOCATION   | StrategyLP2.sol -> 269-274 StrategyLPPersonalVault.sol -> 344-349 |

```
function chargeFees() internal {
    if(buybackstrat!=address(0)){
        uint toSell =
    IERC20(rewardToken).balanceOf(address(this)).mul(getBPSFee(
    )).div(10000);
        IERC20(rewardToken).transfer(buybackstrat,
        toSell);
    }
}
```

| DESCRIPTION       | The buyback strat determines the fee for the strategy. This may allow for large fee collection, or non-transparent fee collection to occur. |
|-------------------|---|
| RECOMMENDATION    | Set a limit on the fee share from within the strategy contract.   |
| MITIGATED/COMMENT | A hard limit of 30% was added to any fees for the buyback strategy.   |

#### Swap To Compound Vault Can Be Frontrun

| SEVERITY   | Low Risk   |
|------------|--|
| RESOLVED   | See Comment  |
| FINDING ID | #0005  |
| LOCATION   | StrategyLPPersonalVault.sol -> 261-286<br>StrategyLP2.sol -> 261-286 |

```
1
      function addliquidity() internal{
          uint amount =
  IERC20(rewardToken).balanceOf(address(this));
          uint amtToSell = amount.div(2);
4
 5
           if (baseToken != rewardToken){
 6
   KCSRouter2(router).swapExactTokensForTokensSupportingFeeOn
   TransferTokens(amtToSell, 0, path, address(this), now);
 8
9
           if (otherToken != rewardToken){
10
11
12
   KCSRouter2(router).swapExactTokensForTokensSupportingFeeOn
   TransferTokens(amtToSell, 0, path2, address(this), now);
13
          }
14
          // ...
15
      function swapToStakingToken() internal{
16
17
           if (rewardToken != lpPair){
18
              // ...
   KCSRouter2(router).swapExactTokensForTokensSupportingFeeOn
   TransferTokens(amount, 0, path, address(this), now);
20
21
      }
```

```
function addliquidity() internal{
           uint amount =
   IERC20(rewardToken).balanceOf(address(this));
 3
 4
           uint amtToSell = amount.div(2);
 5
 6
           if (baseToken != rewardToken){
 7
               // ...
 8
    KCSRouter2(router).swapExactTokensForTokensSupportingFeeOn
   TransferTokens(amtToSell, 0, path, address(this), now);
 9
           }
10
11
           if (otherToken != rewardToken){
12
               // ...
13
    KCSRouter2(router).swapExactTokensForTokensSupportingFeeOn
   TransferTokens(amtToSell, 0, path2, address(this), now);
14
           }
15
           // ...
16
       function swapToStakingToken() internal{
17
           if (rewardToken != lpPair){
18
19
20
    KCSRouter2(router).swapExactTokensForTokensSupportingFeeOn
   TransferTokens(amount, 0, path, address(this), now);
21
           }
22
       }
```

| DESCRIPTION       | The StrategyLP2 and StrategyLPPersonalVault contracts trade for the staked token on the router but do not provide a slippage limit. The rewards from the swap can be front-run.   |
|-------------------|---|
| RECOMMENDATION    | Provide a slippage limit for the token as a parameter or use an oracle's twap in order to prevent frontrunning.   |
| MITIGATED/COMMENT | Project team comment: "will consider implementing a price oracle in future. for now, we will keep with frequent compounds to limit impact if exploited."  Obelisk comment: "Frequent compounds will limit the risk. However, there is no way to guarantee that fees will be compounded at a given frequency." |

### EOA Only Functions May Still Be Called By A Contract

| SEVERITY   | Low Risk  |
|------------|---|
| RESOLVED   | Mitigated   |
| FINDING ID | #0006   |
| LOCATION   | StrategyLP2.sol -> 234 StrategyLPPersonalVault.sol -> 297 |



| DESCRIPTION       | The OpenZeppelin Address utility restricts harvesting to externally owned accounts (EOAs). However, Address will not detect contracts under certain conditions.  Refer to: https://docs.openzeppelin.com/contracts/2.x/api/utils#Address-isContract-address- |
|-------------------|--|
| RECOMMENDATION    | Use tx.origin with the understanding that it may be non-functional or deprecated in the future, or modify this function such that contract calls are supported.  |
| MITIGATED/COMMENT | A check was added to check tx.origin, and a toggle to switch to OpenZeppelin Address if necessary.   |

### Local Copy of OpenZeppelin Contract

| SEVERITY   | Informational |
|------------|---------------|
| RESOLVED   | Mitigated     |
| FINDING ID | #0007         |
| LOCATION   | Pausable.sol  |

| DESCRIPTION       | The contract includes local copies of OpenZeppelin contracts. The contract is identical to Openzeppelin 3.1.0. |
|-------------------|--|
| RECOMMENDATION    | Import OpenZeppelin instead of using local copies.   |
| MITIGATED/COMMENT | OpenZeppelin contract was directly imported.   |

### Strategy Harvests Rewards Via Deposit

| SEVERITY   | Informational   |
|------------|---|
| RESOLVED   | YES   |
| FINDING ID | #0008   |
| LOCATION   | StrategyLP2.sol -> 244 StrategyLPPersonalVault.sol -> 322 |



| DESCRIPTION       | Harvesting of rewards is done by depositing 0 to the underlying farming contract. This may not work if the underlying contract does not automatically harvest on deposit or if it prevents deposits of 0 amount. |
|-------------------|--|
| RECOMMENDATION    | Ensure that deployed strategies use underlying farms which harvest rewards upon deposit.   |
| MITIGATED/COMMENT | N/A  |

# Static Analysis

## Missing Zero Checks

| SEVERITY   | Informational   |
|------------|---|
| RESOLVED   | Partial   |
| FINDING ID | #0009   |
| LOCATION   | GrowthVaultLaunch.sol -> 62-64 : function setSnapshotter(address _a) external onlyOwner GrowthVaultLaunch.sol -> 67-71 : function setStrategy(address _strategy) external onlyOwner GrowthVaultLaunch.sol -> 230-233 : setBuybackStrat(address _address) public onlyOwner StrategyLP2.sol -> 88-90 : function setBuybackStrat(address _address) external onlyOwner StrategyLP2.sol -> 97-99 : function setSwapPathRegistry(address _a) external onlyOwner StrategyLPPersonalVault.sol -> 94-96 : function setBuybackStrat(address _address) external onlyOwner StrategyLPPersonalVault.sol -> 103-105 : function setSwapPathRegistry(address _a) external onlyOwner |

| DESCRIPTION       | The contract address values can be set to zero address in various constructors, initializers, and setter functions. Zero addresses may cause incorrect contract behavior.   |
|-------------------|---|
| RECOMMENDATION    | Add a check to ensure contract values are never set to an invalid zero address.   |
| MITIGATED/COMMENT | <ul> <li>Still unresolved:         <ul> <li>GrowthVaultLaunch.sol -&gt; 62-64 : function setSnapshotter(address _a) external onlyOwner</li> <li>GrowthVaultLaunch.sol -&gt; 230-233 : setBuybackStrat(address _address) public onlyOwner</li> <li>StrategyLP2.sol -&gt; 88-90 : function setBuybackStrat(address _address) external onlyOwner</li> <li>StrategyLPPersonalVault.sol -&gt; 94-96 : function setBuybackStrat(address _address) external onlyOwner</li> </ul> </li> </ul> |

### No Events Emitted For Changes To Protocol Values

| SEVERITY   | Informational   |
|------------|---|
| RESOLVED   | Mitigated   |
| FINDING ID | #0010   |
| LOCATION   | GrowthVaultLaunch.sol -> 58-60 : function setHarvestBeforeDeposit(bool _b) external onlyOwner GrowthVaultLaunch.sol -> 62-64 : function setSnapshotter(address _a) external onlyOwner GrowthVaultLaunch.sol -> 67-71 : function setStrategy(address _strategy) external onlyOwner GrowthVaultLaunch.sol -> 67-71 : function changeApprovalDelay(uint _time) public onlyOwner GrowthVaultLaunch.sol -> 73-74 : function changeApprovalDelay(uint _time) public onlyOwner GrowthVaultLaunch.sol -> 211-228 : function upgradeStrat() public onlyOwner GrowthVaultLaunch.sol -> 230-233 : setBuybackStrat(address _address) public onlyOwner PrivateVaultFactory_LPReferralHarvestLock.sol -> 16-18 : function setVaultRegistry(address _r) external onlyOwner StrategyLP2.sol -> 88-90 : function setBuybackStrat(address _address) external onlyOwner StrategyLP2.sol -> 91-93 : function setStakingMode(bool _b) external onlyOwner StrategyLP2.sol -> 94-96 : function setReferralMode(bool _b) external onlyOwner StrategyLP2.sol -> 97-99 : function setSwapPathRegistry(address _a) external onlyOwner StrategyLPPersonalVault.sol -> 94-96 : function setStakingMode(bool _b) external onlyOwner StrategyLPPersonalVault.sol -> 94-96 : function setStakingMode(bool _b) external onlyOwner StrategyLPPersonalVault.sol -> 97-99 : function setStakingMode(bool _b) external onlyOwner StrategyLPPersonalVault.sol -> 100-102 : function setReferralMode(bool _b) external onlyOwner StrategyLPPersonalVault.sol -> 103-105 : function setReferralMode(bool _b) external onlyOwner StrategyLPPersonalVault.sol -> 103-105 : function setSwapPathRegistry(address _a) external onlyOwner StrategyLPPersonalVault.sol -> 106-108 : function setSwapPathRegistry(address _a) external onlyOwner StrategyLPPersonalVault.sol -> 166-168 : function setExitMode(bool _exit) public onlyUser |

#### DESCRIPTION

Functions that change important variables should emit events such that users can more easily monitor the change.

| RECOMMENDATION    | Emit events from these functions. |
|-------------------|-----------------------------------|
| MITIGATED/COMMENT | Events were added.                |

# On-Chain Analysis

No Findings

# Appendix A - Reviewed Documents

| Document                                       | Address                                    |
|--|--|
| Buybackstrat.sol                               | N/A  |
| GrowthVaultLaunch.sol                          | 0x79aC1133C9CF22598744C95F8611142Ff23C884a |
| IPanwexPair.sol                                | N/A  |
| IStrategy.sol                                  | N/A  |
| ISwapPathRegistry.sol                          | N/A  |
| KCSRouter2.sol                                 | N/A  |
| Pausable.sol                                   | N/A  |
| PrivateVaultFactory_LPRef erralHarvestLock.sol | 0x1E6B84530E4c3cF67e79fc0F4DC87793F7174135 |
| StrategyLP2.sol                                | 0x780a2f48F7566b3306737432ed4A271F6925BDCF |
| StrategyLPPersonalVault.s ol                   | N/A  |

- rev-1: Commit <u>b9e5cd956e98d0648d0d8dbff612a132df1f5cf6</u>
- rev-2: Commit <u>a5983375c66fed2b6f784df290ed7e08bbe57de9</u>
- rev-3: Commit <u>ba7804aa01de0a4e75de18d42b5c148196df41de</u>
- rev-4: Commit <u>2534e6ad85c4687dd0e361c1bb3457a8cc1da1bf</u>
- rev-5: Commit <u>88bc138103eb75daab30cd9d855542d7ef20f60c</u>

# Appendix B - Risk Ratings

| Risk          | Description   |
|---------------|---|
| High Risk     | A fatal vulnerability that can cause immediate loss of Tokens / Funds |
| Medium Risk   | A vulnerability that can cause some loss of Tokens / Funds            |
| Low Risk      | A vulnerability that can be mitigated                                 |
| Informational | No vulnerability  |

# Appendix C - Icons

| Icon     | Explanation                         |
|----------|-------------------------------------|
|          | Solved by Project Team              |
| ?        | Under Investigation of Project Team |
| <u> </u> | Unsolved                            |

# Appendix D - Testing Standard

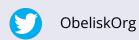
An ordinary audit is conducted using these steps.

- 1. Gather all information
- 2. Conduct a first visual inspection of documents and contracts
- 3. Go through all functions of the contract manually (2 independent auditors)
  - a. Discuss findings
- 4. Use specialized tools to find security flaws
  - a. Discuss findings
- 5. Follow up with project lead of findings
- 6. If there are flaws, and they are corrected, restart from step 2
- 7. Write and publish a report

During our audit, a thorough investigation has been conducted employing both automated analysis and manual inspection techniques. Our auditing method lays a particular focus on the following important concepts:

- Ensuring that the code and codebase use best practices, industry standards, and available libraries.
- Testing the contract from different angles ensuring that it works under a multitude of circumstances.
- Analyzing the contracts through databases of common security flaws.

#### Follow Obelisk Auditing for the Latest Information





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