

# Helio Multi-Collateral Audit

Date: 07/07/2023

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## Overview Project Audit Status:

Severity Level	Total Number of Issues
Informative	8
Discussion	0

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Minor	2
Medium	1
Major	0
Critical	0

## Open Issues:

Pending	Resolved
0	11

## Audit Request:

Topic	Comments
Repo Link	<a href="https://github.com/helio-money/helio-smart-contracts">https://github.com/helio-money/helio-smart-contracts</a>
Commit Id	Not Provided
PRD Document	<a href="https://docs.google.com/document/d/19Lc2Jcwlyn5V3703EICgZ0Z-c8sE8f6i5mtoleddGfw/edit#heading=h.maemc5k0y7hy">https://docs.google.com/document/d/19Lc2Jcwlyn5V3703EICgZ0Z-c8sE8f6i5mtoleddGfw/edit#heading=h.maemc5k0y7hy</a>
Last Audit	NA
Request Date	13th June
Owner	Tom (Helio)

## Important Notes:

Notes
<ul style="list-style-type: none"><li>• Mock contracts have weak access control and checks. Although they are not in use, suggestion would be to add in access control to follow real world flows.</li><li>• Strategy contracts are making the calls to external contracts which are not part of the scope for this audit. Do make sure that the external contracts are secure and audited.</li><li>• Suggest to follow same version of compiler for contracts. Multiple contracts are using different versions.</li></ul>

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## Deployment Verification:

This section is kept open and updated after deployment verification of the audited code.

Verification Checks	Status
Repo code maps with Deployed code	Verified/ Not Verified
Ownership Account	EOA/Multisig/Timelock/Contract
Ownership Verified	Verified/ Not Verified
Secondary Accounts	EOA/Multisig/Timelock/Contract
Secondary Accounts Verified	Verified/ Not Verified

## Audit Result

### Global:

HM - #001	
Events are not emitted	
Severity:	Informative
Function:	Multiple Functions
Line:	Multiple Lines
Description:	<p>For most of the deposit pause function calls, deposit function calls and withdraw function calls, no events are emitted.</p> <p>For example: <a href="https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/strategy/BaseStrategy.sol#L86">https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/strategy/BaseStrategy.sol#L86</a></p> <p><a href="https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/strategy/BnbxYieldConverterStrategy.sol#L80">https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/strategy/BnbxYieldConverterStrategy.sol#L80</a></p> <p><a href="https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/strategy/CerosYieldConverterStrategy.sol">https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/strategy/CerosYieldConverterStrategy.sol</a></p>
Suggestion:	Do make sure that for the important state changes, events are emitted
Status:	<p>Resolved</p> <p><a href="https://github.com/helio-money/helio-smart-contracts/commit/c4242d395ade2b3d162fc9eb799decd8371c7ade#diff-06dacbdc881bd7a33d6624fba6559e81103747f7452f827719d0a8cafd810554">https://github.com/helio-money/helio-smart-contracts/commit/c4242d395ade2b3d162fc9eb799decd8371c7ade#diff-06dacbdc881bd7a33d6624fba6559e81103747f7452f827719d0a8cafd810554</a></p>

HM - #002	
Transfer gas hard coded	
Severity:	Minor
Function:	Multiple Functions
Line:	Multiple Lines
Description:	<p>With multiple functions the transfer gas is hardcoded to 5000:</p> <p>Example:</p>

	<a href="https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/strategy/BnbYieldConverterStrategy.sol#L240">https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/strategy/BnbYieldConverterStrategy.sol#L240</a>  <a href="https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/strategy/StkBnbStrategy.sol#L192">https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/strategy/StkBnbStrategy.sol#L192</a>
Suggestion:	Instead of hard coding, a different variable can be created which can be used with getter and setter functions. Set only enable for owner. This will give more flexibility in case of any unwanted events.
Status:	Resolved  <a href="https://github.com/helio-money/helio-smart-contracts/commit/c4242d395ade2b3d162fc9eb799decd8371c7ade#diff-06dacbdc881bd7a33d6624fba6559e81103747f7452f827719d0a8cafd810554">https://github.com/helio-money/helio-smart-contracts/commit/c4242d395ade2b3d162fc9eb799decd8371c7ade#diff-06dacbdc881bd7a33d6624fba6559e81103747f7452f827719d0a8cafd810554</a>

## Master Vault:

This is the master vault which will store all the collateral

HM - #003	
Imports and Variables are never used	
Severity:	Informative
Line:	Multiple Lines
Description:	<p>These are never used:</p> <p><a href="https://github.com/helio-money/helio-smart-contracts/blob/6aa1793448d8fbe78128715e9b8395046ede8d99/contracts/masterVault/MasterVault.sol#L8">https://github.com/helio-money/helio-smart-contracts/blob/6aa1793448d8fbe78128715e9b8395046ede8d99/contracts/masterVault/MasterVault.sol#L8</a></p> <pre> 4      import "@openzeppelin/contracts-upgradeable/security/ReentrancyGuardUpgradeable.sol"; 5      import "@openzeppelin/contracts-upgradeable/security/PausableUpgradeable.sol"; 6      // import "@openzeppelin/contracts-upgradeable/token/ERC20/extensions/ERC4626Upgradeable.sol"; 7      import "../ceros/interfaces/ICertToken.sol"; 8      import "../ceros/interfaces/IDao.sol"; 9      // import "../ceros/interfaces/IWETH.sol"; 10     import "../ceros/interfaces/IBinancePool.sol"; 11     import "../interfaces/IMasterVault.sol"; 12     import "../interfaces/IWaitingPool.sol"; 13     import "../strategy/IBaseStrategy.sol"; 14     contract MasterVault is 15     IMasterVault,</pre> <p><a href="https://github.com/helio-money/helio-smart-contracts/blob/6aa1793448d8fbe78128715e9b8395046ede8d99/contracts/masterVault/MasterVault.sol#L43">https://github.com/helio-money/helio-smart-contracts/blob/6aa1793448d8fbe78128715e9b8395046ede8d99/contracts/masterVault/MasterVault.sol#L43</a></p>

	<pre> 38     uint256 public totalDebt;        // Amount of assets that all strategies have borrowed 39 40     address[] public strategies; 41     address public provider; 42     address public vaultToken; 43     address public asset; 44     address payable public feeReceiver; 45 46     IWaitingPool public waitingPool; 47 48     event Deposit(address indexed caller, address indexed owner, uint256 assets, uint256 shares); 49 </pre> <p><a href="https://github.com/helio-money/helio-smart-contracts/blob/6aa1793448d8fbe78128715e9b8395046ede8d99/contracts/masterVault/MasterVault.sol#L46">https://github.com/helio-money/helio-smart-contracts/blob/6aa1793448d8fbe78128715e9b8395046ede8d99/contracts/masterVault/MasterVault.sol#L46</a></p> <pre> 12     address public vaultToken; 13     address public asset; 14     address payable public feeReceiver; 15 16     IWaitingPool public waitingPool; 17 18     event Deposit(address indexed caller, address indexed owner, uint256 assets, uint256 shares); 19 20     event Withdraw( 21         address indexed caller, 22         address indexed receiver, 23         address indexed owner, </pre>
Suggestion:	Consider removing the variables if it's not being used
Status:	<p>Resolved</p> <p><a href="https://github.com/helio-money/helio-smart-contracts/commit/c4242d395ade2b3d162fc9eb799decd8371c7ade#diff-06dacbdc881bd7a33d6624fba6559e81103747f7452f827719d0a8cafd810554">https://github.com/helio-money/helio-smart-contracts/commit/c4242d395ade2b3d162fc9eb799decd8371c7ade#diff-06dacbdc881bd7a33d6624fba6559e81103747f7452f827719d0a8cafd810554</a></p>

HM - #004	
Total Debt should be for all strategies combined?	
Severity:	Medium
Function:	updateCerosStrategyDebt
Line:	184
Description:	<p>The total debt is updated to the amount passed for as one single strategy:</p> <p><a href="https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/masterVault/MasterVault.sol#L184">https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/masterVault/MasterVault.sol#L184</a></p> <pre> 13 14     function _updateCerosStrategyDebt(address strategy, uint256 amount) external onlyOwner { 15         totalDebt = amount; 16         strategyParams[strategy].debt = amount; 17     } </pre>

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Suggestion:	Do check for the logic
Status:	Acknowledged  The logic is correct. "TotalDebt" is set as the strategy amount passed in the function.

### Waiting Pool:

This is used for outstanding debt for users

HM - #005	
Check the correctness of logic	
Severity:	Minor
Function:	tryRemove
Line:	53
Description:	The cap and index are updated even when the send is not success: <a href="https://github.com/helio-money/helio-smart-contracts/blob/6aa1793448d8fbe78128715e9b8395046ede8d99/contracts/masterVault/WaitingPool.sol#L53">https://github.com/helio-money/helio-smart-contracts/blob/6aa1793448d8fbe78128715e9b8395046ede8d99/contracts/masterVault/WaitingPool.sol#L53</a>



	<pre> 52      ///      and set the settled flag on successful withdrawal. 53      function tryRemove() external onlyMasterVault { 54          uint256 balance; 55          uint256 cap = 0; 56          for(uint256 i = index; i &lt; people.length; i++) { 57              balance = address(this).balance; 58              uint256 userDebt = people[index]._debt; 59              address userAddr = people[index]._address; 60              if( 61                  balance &gt;= userDebt &amp;&amp; 62                  userDebt != 0 &amp;&amp; 63                  !people[index]._settled &amp;&amp; 64                  cap &lt; capLimit 65              ) { 66                  bool success = payable(userAddr).send(userDebt); 67                  if(success) { 68                      totalDebt -= userDebt; 69                      people[index]._settled = true; 70                      emit WithdrawCompleted(userAddr, userDebt); 71                  } 72                  cap++; 73                  index++; 74              } 75              else { 76                  return; 77              } 78          } 79      } 80 </pre>
Suggestion:	Do check the logic for the same and also suggestion would be to follow Checks Effects Interaction Pattern.
Status:	Acknowledged  Team mentioned that the contract is going to be removed

HM - #006	
Debt for the user queue is never zero, this might not require	
Severity:	Informative
Function:	tryRemove
Line:	62
Description:	The debt is set greater than 0: <a href="https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/masterVault/WaitingPool.sol#L62">https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/masterVault/WaitingPool.sol#L62</a>

	<pre> i3         function tryRemove() external onlyMasterVault { i4             uint256 balance; i5             uint256 cap = 0; i6             for(uint256 i = index; i &lt; people.length; i++) { i7                 balance = address(this).balance; i8                 uint256 userDebt = people[index]._debt; i9                 address userAddr = people[index]._address; i10                if( i11                    balance &gt;= userDebt &amp;&amp; i12                    userDebt != 0 &amp;&amp; i13                    !people[index]._settled &amp;&amp; i14                    cap &lt; capLimit i15                ) { i16                    bool success = payable(userAddr).send(userDebt); i17                    if(success) { i18                        totalDebt -= userDebt; i19                        people[index]._settled = true; i20                        emit WithdrawCompleted(userAddr, userDebt); i21                    } i22                    cap++; i23                    index++; i24                } </pre>
Suggestion:	Do remove if not required
Status:	<p>Acknowledged</p> <p>Team mentioned that the contract is going to be removed.</p>

## Helio Provider V2:

This is the new version for the provider contract

HM - #007	
Imports are never used	
Severity:	Informative
Line:	Multiple Lines
Description:	<p>These are never used:</p> <p><a href="https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/ceros/upgrades/HelioProviderV2.sol#L7">https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/ceros/upgrades/HelioProviderV2.sol#L7</a></p>

	<pre> 1 // SPDX-License-Identifier: GPL-3.0-only 2 pragma solidity ^0.8.6; 3 import "@openzeppelin/contracts-upgradeable/access/OwnableUpgradeable.sol"; 4 import "@openzeppelin/contracts-upgradeable/security/ReentrancyGuardUpgradeable.sol"; 5 import "@openzeppelin/contracts-upgradeable/security/PausableUpgradeable.sol"; 6 import "@openzeppelin/contracts/token/ERC20/IERC20.sol"; 7 import "../interfaces/IVault.sol"; 8 import "../interfaces/IDex.sol"; 9 import "../interfaces/IDao.sol"; 10 import "../interfaces/ICerosRouter.sol"; 11 import "../interfaces/IHelioProviderV2.sol"; 12 import "../interfaces/IBinancePool.sol";  https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/ceros/upgrades/HelioProviderV2.sol#L8C23-L8C27  3 import "@openzeppelin/contracts-upgradeable/access/OwnableUpgradeable.sol"; 4 import "@openzeppelin/contracts-upgradeable/security/ReentrancyGuardUpgradeable.sol"; 5 import "@openzeppelin/contracts-upgradeable/security/PausableUpgradeable.sol"; 6 import "@openzeppelin/contracts/token/ERC20/IERC20.sol"; 7 import "../interfaces/IVault.sol"; 8 import "../interfaces/IDex.sol"; 9 import "../interfaces/IDao.sol"; 10 import "../interfaces/ICerosRouter.sol"; 11 import "../interfaces/IHelioProviderV2.sol"; 12 import "../interfaces/IBinancePool.sol"; 13 import "../interfaces/ICertToken.sol"; 14 import "../masterVault/interfaces/IMasterVault.sol";  https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/ceros/upgrades/HelioProviderV2.sol#L10  5 import "@openzeppelin/contracts-upgradeable/security/PausableUpgradeable.sol"; 6 import "@openzeppelin/contracts/token/ERC20/IERC20.sol"; 7 import "../interfaces/IVault.sol"; 8 import "../interfaces/IDex.sol"; 9 import "../interfaces/IDao.sol"; 10 import "../interfaces/ICerosRouter.sol"; 11 import "../interfaces/IHelioProviderV2.sol"; 12 import "../interfaces/IBinancePool.sol"; 13 import "../interfaces/ICertToken.sol"; 14 import "../masterVault/interfaces/IMasterVault.sol"; 15 contract HelioProviderV2 is 16 IHelioProviderV2,</pre>
Suggestion:	Do remove if not in used. Variables are also not used, but those might be present to not break to storage slots. If a new contract is being deployed, do check on the same.
Status:	<p>Acknowledged</p> <p>There are kept in case of upgrade roll back or future upgrades.</p>

## Base Strategy:

This is the base contract for Helio strategies

HM - #008	
No setter function for destination address	
Severity:	Informative
Line:	37
Description:	<p>There is no setter function for destination address:</p> <p><a href="https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/strategy/BaseStrategy.sol#L37">https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/strategy/BaseStrategy.sol#L37</a></p> <pre> 13 14     event UpdatedStrategist(address strategist); 15     event UpdatedRewards(address rewards); 16     event Harvested(address to, uint256 amount); 17 18     function __BaseStrategy_init( 19         address destinationAddr, 20         address rewardsAddr, 21         address masterVault 22     ) internal initializer { 23         __Ownable_init(); 24         __Pausable_init(); 25         __ReentrancyGuard_init(); 26         strategist = msg.sender; 27         destination = destinationAddr; 28         rewards = rewardsAddr; 29         vault = IMasterVault(masterVault); 30     } 31 32     /** 33      * @dev Throws if called by any account other than the owner. 34      */ 35     modifier onlyStrategist() { </pre>
Suggestion:	Do add in the setter function for the destination address
Status:	Acknowledged

HM - #009

No function from pausable are used	
Severity:	Informative
Line:	6
Description:	<p>No function from Pausable are used with the contract: <a href="https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/strategy/BaseStrategy.sol#L6">https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/strategy/BaseStrategy.sol#L6</a></p> <pre> // SPDX-License-Identifier: MIT pragma solidity ^0.8.0;  import "@openzeppelin/contracts-upgradeable/access/OwnableUpgradeable.sol"; import "@openzeppelin/contracts-upgradeable/security/ReentrancyGuardUpgradeable.sol"; import "@openzeppelin/contracts-upgradeable/security/PausableUpgradeable.sol"; import "../masterVault/interfaces/IMasterVault.sol"; import "../IBaseStrategy.sol"; </pre>
Suggestion:	Do remove it, if not required
Status:	<p>Resolved</p> <p><a href="https://github.com/helio-money/helio-smart-contracts/commit/c4242d395ade2b3d162fc9eb799decd8371c7ade#diff-9cc9a8993ec5d52d3faefc2c089266c454fb27c9ad1f65ea734c30b61595439c">https://github.com/helio-money/helio-smart-contracts/commit/c4242d395ade2b3d162fc9eb799decd8371c7ade#diff-9cc9a8993ec5d52d3faefc2c089266c454fb27c9ad1f65ea734c30b61595439c</a></p>

## Bnbx Yield Converter Strategy:

This is the strategy contract for Bnbx

HM - #010	
Function returns the param	
Severity:	Informative
Function:	assessDepositFee
Line:	304
Description:	<p>The function returns the param passed: <a href="https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/strategy/BnbxYieldConverterStrategy.sol#L304C14-L304C30">https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/strategy/BnbxYieldConverterStrategy.sol#L304C14-L304C30</a></p>

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	<pre>302     } 303 304     function assessDepositFee(uint256 amount) public pure returns (uint256) { 305         return amount; 306     } 307 308     ...</pre>
Suggestion:	Do check the functionality for the same
Status:	Acknowledged  Team Comments – Currently the fee is zero, that's why the function is set to return the parameter passed as no fee is deducted.

## Stk BNB Strategy:

This is the strategy contract for stkBNB

HM - #011	
Do check and resolve the Todo	
Severity:	Informative
Function:	Withdraw
Line:	196
Description:	<p>Todo is marked for the functionality: <a href="https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/strategy/StkBnbStrategy.sol#L196">https://github.com/helio-money/helio-smart-contracts/blob/5ac477d8f9f09017379e1b80202b5e14c99686a4/contracts/strategy/StkBnbStrategy.sol#L196</a></p> <pre>/// @return value - returns the amount of BNB withdrawn and sent back (or will be sent in future) to MasterVault function _withdraw(address recipient, uint256 amount) internal returns (uint256) {     require(amount &gt; 0, "invalid amount");      uint256 ethBalance = address(this).balance;     if (amount &lt;= ethBalance) {         (bool sent, /*memory data*/) = recipient.call{ gas: 5000, value: amount }("");         require(sent, "!sent");         return amount;     }      // otherwise, need to send all the balance of this strategy and also need to withdraw from the StakePool     (bool sent, /*memory data*/) = recipient.call{ gas: 5000, value: ethBalance }("");     require(sent, "!sent");     amount -= ethBalance;      // TODO(pSTAKE):     // 1. There should be a utility function in our StakePool that should tell how much stkBNB to withdraw if I want     //    `x` amount of BNB back, taking care of the withdrawal fee that is involved.     // 2. We should also have something that takes care of withdrawing to a recipient, and not to the msg.sender     // For now, the implementation here works, but can be improved in future with above two points.     IStakePool stakePool = IStakePool(_addressStore.getStakePool());     IStakedBNBToken stkBNB = IStakedBNBToken(_addressStore.getStkBNB());      // reverse the BNB amount calculation from StakePool to get the stkBNB to burn     ExchangeData data, memory exchangeData = stakePool.exchangeData();</pre>

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Suggestion:	Do check the open todo
Status:	Resolved <a href="https://github.com/helio-money/helio-smart-contracts/commit/c4242d395ade2b3d162fc9eb799decd8371c7ade#diff-de8b26c259b93d2f054c238ce223f325932d3c5d6f38ecae18e47d2fcd5ae98f">https://github.com/helio-money/helio-smart-contracts/commit/c4242d395ade2b3d162fc9eb799decd8371c7ade#diff-de8b26c259b93d2f054c238ce223f325932d3c5d6f38ecae18e47d2fcd5ae98f</a>

## Deployment Details:

Deployed: ceankrBNB : 0xb0af7dB079f599255B1e43Ef83e8Ce16E88Fd174  
Imp : 0x7c1Fab156cFD62f456ecDc67b19bAA949cFF80B6  
masterVault : 0x986b40C2618fF295a49AC442c5ec40febB26CC54  
imp : 0x2ca043C08f5E8a4cA3C14158BaA239d47454bba2  
cerosYieldConverterStrategy : 0x00D8697D73216278de8f97BBEaE6ca90cf0a5CB0  
imp : 0xd3F9344D250e42d9d573DF0C0343eDFd7E74b6d  
stkBnbStrategy : 0x98CB81d921B8F5020983A46e96595471Ad4E60Be  
imp : 0x6c5838f300C9738eBC9b346c2dAbe8C67B37B3B2  
snBnbStrategy : 0x6F28FeC449dbd2056b76ac666350Af8773E03873  
imp : 0x2c8f16E22BEbdE93BC293bB31eFfd9DF65F7c652  
bnbxYieldConverterStrategy : 0x6ae7073d801a74eE753F19323DF320C8F5Fe2DbC  
imp : 0x48942281bD5FF376e4B02A3926EE2bf47F6a45a9  
HelioProviderV2Imp: 0xCd57a14bF4d130A39A31F39248ad9e6A2f2C7fa3  
CeVaultV2Imp: 0x9be5ed50aC9D7EAC0eBdc9fbC4A801E681BFEB3C  
CeVaultV2 Temp Imp: 0x41e397407f33cc2bA292489E0d05671D01aa899E

## Deployment States:

### ceankrBNB:

- Owner: 0x702115d6d3bbb37f407aae4decf9d09980e28ebc (gnosis safe)
- Proxy Admin: 0xF4CFeb4F29fe11e7DA5fb487E0D3E8061aD0762d (new admin)
- Owner for Proxy Admin: 0x28fbae947703c352fd1156165bee1a42028948da (EOA)

### Master Vault:

- Max Strategies: 10
- depositFee and withdrawalFee: 0
- asset: 0



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- FeeReceiver: 0x00b22a426ac5928ca5ceb5fcfe9066587cbd0b26 (May we know the owners?)
- MaxDepositFee and MaxWithdrawFee: 500000
- Owner: 0x702115d6d3bbb37f407aae4decf9d09980e28ebc (gnosis safe)
- provider: 0xa835f890fcde7679e7f7711abfd515d2a267ed0b (Helio provider)
- waiting pool: 0
- vault Token: 0x563282106A5B0538f8673c787B3A16D3Cc1DbF1a (ceaBNBc)
- Manager: 0x5c4d004de65e946a576618c285a1173414553546
- Strategies:

#	Name	Type	Data
0	strategy	address	<a href="#">0x00D8697D73216278de8f97BBEaE6ca90cf0a5CB0</a>
1	allocation	uint256	150000

#	Name	Type	Data
0	strategy	address	<a href="#">0x6ae7073d801a74eE753F19323DF320C8F5Fe2DbC</a>
1	allocation	uint256	75000

#	Name	Type	Data
0	strategy	address	<a href="#">0x98CB81d921B8F5020983A46e96595471Ad4E60Be</a>
1	allocation	uint256	75000

#	Name	Type	Data
0	strategy	address	<a href="#">0x6F28FeC449dbd2056b76ac666350Af8773E03873</a>
1	allocation	uint256	700000

- Proxy Admin: 0xF4CFeb4F29fe11e7DA5fb487E0D3E8061aD0762d (new admin)
- Owner for Proxy Admin: 0x28fbae947703c352fd1156165bee1a42028948da (EOA)

## cerosYieldConverterStrategy:

- Destination: [0xa186d2363e5048d129e0a35e2fddde767d4dada8](#) (Ceros Router)
- Owner: [0x8d388136d578dcd791d081c6042284ced6d9b0c6](#) (Gnosis safe)
- Rewards: [0x8d388136d578dcd791d081c6042284ced6d9b0c6](#) (Gnosis safe)
- Strategist: [0x5c4d004de65e946a576618c285a1173414553546](#) (EOA)
- Vault: [0x986b40c2618ff295a49ac442c5ec40febb26cc54](#) (Master Vault)
- Proxy Admin: 0xF4CFeb4F29fe11e7DA5fb487E0D3E8061aD0762d (new admin)
- Owner for Proxy Admin: 0x28fbae947703c352fd1156165bee1a42028948da (EOA)

## stkBNBStrategy:

- Destination: [0x4a6b3127a1d295878d8790f6ece0776f65fec121](#) (External Contract)
- Owner: [0x8d388136d578dcd791d081c6042284ced6d9b0c6](#) (Gnosis safe)



Date: 07/07/2023

- Rewards: [0x8d388136d578dcd791d081c6042284ced6d9b0c6](#) (Gnosis safe)
- Strategist: [0x5c4d004de65e946a576618c285a1173414553546](#) (EOA)
- Vault: [0x986b40c2618ff295a49ac442c5ec40febb26cc54](#) (Master Vault)
- Proxy Admin: 0xF4CFeb4F29fe11e7DA5fb487E0D3E8061aD0762d (new admin)
- Owner for Proxy Admin: 0x28fbae947703c352fd1156165bee1a42028948da (EOA)

### snBNBStrategy:

- Destination: [0x1adb950d8bb3da4be104211d5ab038628e477fe6](#) (SnStakeManager)
- Owner: [0x8d388136d578dcd791d081c6042284ced6d9b0c6](#) (Gnosis safe)
- Rewards: [0x8d388136d578dcd791d081c6042284ced6d9b0c6](#) (Gnosis safe)
- Strategist: [0x5c4d004de65e946a576618c285a1173414553546](#) (EOA)
- Vault: [0x986b40c2618ff295a49ac442c5ec40febb26cc54](#) (Master Vault)
- Proxy Admin: 0xF4CFeb4F29fe11e7DA5fb487E0D3E8061aD0762d (new admin)
- Owner for Proxy Admin: 0x28fbae947703c352fd1156165bee1a42028948da (EOA)

### bnbxYieldConverterStrategy:

- Destination: [0x7276241a669489e4bbb76f63d2a43bfe63080f2f](#) (External Contract)
- Owner: [0x8d388136d578dcd791d081c6042284ced6d9b0c6](#) (Gnosis safe)
- Rewards: [0x8d388136d578dcd791d081c6042284ced6d9b0c6](#) (Gnosis safe)
- Strategist: [0x5c4d004de65e946a576618c285a1173414553546](#) (EOA)
- Vault: [0x986b40c2618ff295a49ac442c5ec40febb26cc54](#) (Master Vault)
- Proxy Admin: 0xF4CFeb4F29fe11e7DA5fb487E0D3E8061aD0762d (new admin)
- Owner for Proxy Admin: 0x28fbae947703c352fd1156165bee1a42028948da (EOA)

### HelioProviderV2:

No state as this is only implementation

### CeVaultV2:

No state as this is only implementation