



MythX Report

For Token Generation Event

Overview

Project Name	zkSwap Finance - TGE
Auditor	MythX.io
Source Code	https://github.com/ZkSwapFinance/zf-launchpad
Mode	Deep
Time	Sat Aug 19 th 2023
Status	Passed

Summary

Done	Contract	Network	Low Risk Issues
<input checked="" type="checkbox"/>	ZFLaunchpadNative.sol	zkSync - ETH - Arbitrum	7
<input checked="" type="checkbox"/>	ZFLaunchpad.sol	BSC - Polygon	26

Reference

<p>MythX Passed Badge on Github</p>  <p>mainnet-contracts</p> <p>ZkSwap Finance Mainnet contracts</p> <p>MythX passed</p>	<p>https://github.com/ZkSwapFinance/zf-launchpad</p>
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REPORT 64E033BC21306D001AE19CD5

Created	Sat Aug 19 2023 03:15:08 GMT+0000 (Coordinated Universal Time)
Number of analyses	1
User	648fc02af4bf584372592643

REPORT SUMMARY

Analyses ID	Main source file	Detected vulnerabilities
6fd98797-2e60-41b6-9c1a-602d8c5b42c6	/launchpad/zflaunchpadnative.sol	7

Started	Sat Aug 19 2023 03:15:14 GMT+0000 (Coordinated Universal Time)
Finished	Sat Aug 19 2023 04:00:24 GMT+0000 (Coordinated Universal Time)
Mode	Deep
Client Tool	Mythx-Vscode-Extension
Main Source File	/Launchpad/Zflaunchpadnative.Sol

DETECTED VULNERABILITIES

HIGH	MEDIUM	LOW
0	0	7

ISSUES

LOW

A call to a user-supplied address is executed.

SWC-107

An external message call to an address specified by the caller is executed. Note that the callee account might contain arbitrary code and could re-enter any function within this contract. Reentering the contract in an intermediate state may lead to unexpected behaviour. Make sure that no state modifications are executed after this call and/or reentrancy guards are in place.

Source file

/launchpad/zflaunchpadnative.sol

Locations

```
81 | }
82 |
83 | function withdrawFunds() external onlyOwner
84 | uint256 amount = address(this).balance;
85 | _safeTransferETH(msg.sender, amount);
86 | }
```

LOW

A control flow decision is made based on The block.timestamp environment variable.

SWC-116

The block.timestamp environment variable is used to determine a control flow decision. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source file

/launchpad/zflaunchpadnative.sol

Locations

```
89 | // No discount
90 | if (block.timestamp < startTimestamp || block.timestamp.sub(startTimestamp).div(356400) > 0) { // No bonus
91 |     return 0;
92 | }
93 | uint256 _currentTime = block.timestamp.sub(startTimestamp);
94 | // Zone 3
95 | if (_currentTime >= 32400 && _currentTime.sub(32400).div(32400) == 0){
96 |     return 15 - (_currentTime.sub(32400)).div(21600);
97 | }
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Source file

/launchpad/zflaunchpadnative.sol

Locations

```
42 function deposit(address _referrer) payable external nonReentrant {
43     require(block.timestamp > startTimestamp, "deposit:Too early");
44     require(block.timestamp < endTimestamp, "deposit:Too late");
45     require(isSaleStart, "deposit: Sale not yet enabled");
46
47     uint256 _amount = msg.value;
```

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Source file

/launchpad/zflaunchpadnative.sol

Locations

```
44 require(block.timestamp < endTimestamp, "deposit:Too late");
45 require(isSaleStart, "deposit: Sale not yet enabled");
46
47 uint256 _amount = msg.value;
48
49 require(_amount > 0, "deposit:Amount must be > 0");
50
51 UserInfo storage user = userInfo[msg.sender];
```

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99 | return 25 - (_currentTime.div(10800)).mul(5) + (_currentTime.div(21600)).mul(5);
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99 | return 25 - (_currentTime.div(10800)).mul(5) + (_currentTime.div(21600)).mul(5);
100 | }
101 |
102 |
103 | function getUserInfo(address _user) public view returns (UserInfo memory) {
104 |     return userInfo[_user];
105 | }
```

REPORT 64E0315988F09C001AEE11DC

Created Sat Aug 19 2023 03:04:57 GMT+0000 (Coordinated Universal Time)
Number of analyses 1
User 648fc02af4bf584372592643

REPORT SUMMARY

Analyses ID	Main source file	Detected vulnerabilities
eae28395-d5cb-4c6a-b2a7-4235a184b752	/launchpad/zflaunchpad.sol	26

Started	Sat Aug 19 2023 03:05:02 GMT+0000 (Coordinated Universal Time)
Finished	Sat Aug 19 2023 03:54:07 GMT+0000 (Coordinated Universal Time)
Mode	Deep
Client Tool	Mythx-Vscode-Extension
Main Source File	/Launchpad/Zflaunchpad.sol

DETECTED VULNERABILITIES

HIGH	MEDIUM	LOW
0	0	26

ISSUES

LOW Read of persistent state following external call.

SWC-107

The contract account state is accessed after an external call. To prevent reentrancy issues, consider accessing the state only before the call, especially if the callee is untrusted. Alternatively, a reentrancy lock can be used to prevent untrusted callees from re-entering the contract in an intermediate state.

Source file
/launchpad/zflaunchpad.sol
Locations

```
69 | if (user.amount == 0) users.push(msg.sender);  
70 | // Set value before check discount  
71 | totalRaised = totalRaised.add(_amount);  
72 | user.amount = user.amount.add(_amount);  
73 |  
74 | // Check discount
```

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Source file
/launchpad/zflaunchpad.sol
Locations

```
73 |  
74 | // Check discount  
75 | uint256 _bonusPercent = getBonusPercentage();  
76 | // Update amount + bonus  
77 | _amount = _amount + _amount.mul(_bonusPercent).div(100);
```

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74 | // Check discount
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78 | // Update user
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```
96 | return 0;
97 | }
98 | uint256 _currentTime = block.timestamp.sub(startTime);
99 | // Zone 3
100 | if (_currentTime >= 32400 && _currentTime.sub(32400).div(32400) == 0){
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Source file

/launchpad/zflaunchpad.sol

Locations

```
81 |  
82 | // Referral  
83 | if (_referrer != address(0) && _referrer != msg.sender) {  
84 |     if (referralInfo[_referrer] == 0) referrals.push(_referrer);  
85 |     uint256 _referralAmount = _amount.mul(5).div(100);
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86 | referralInfo[_referrer] = referralInfo[_referrer].add(_referralAmount);  
87 | totalReferralAmount = totalReferralAmount.add(_referralAmount);  
88 | }
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Source file

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70 | // Set value before check discount
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LOW Write to persistent state following external call.

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79 | user.amountBonus = user.amountBonus.add(_amount);
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Source file

/launchpad/zflaunchpad.sol

Locations

```
80 | totalRaisedBonus = totalRaisedBonus.add(_amount);
81 |
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90 emit Deposit(msg.sender, _amount, _referrer);
91 }
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Source file

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Locations

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91 }
92
93 function getBonusPercentage() public view returns (uint256) {
94     // No discount
95     if (block.timestamp < startTimestamp || block.timestamp.sub(startTimestamp).div(356400) > 0) { // No bonus
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105 | }
106 |
107 |
108 | function getUserInfo(address _user) public view returns (UserInfo memory) {
109 |     return userInfo[_user];
110 | }
```

LOW

Requirement violation.

SWC-123

A requirement was violated in a nested call and the call was reverted as a result. Make sure valid inputs are provided to the nested call (for instance, via passed arguments).

Source file

/launchpad/zflaunchpad.sol

Locations

```
119 | }
120 |
121 | function getReferralInfo(address _user) public view returns (uint256) {
122 |     return referralInfo[_user];
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```