

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

```
if (user.amount == 0) users.push(msg.sender);
// Set value before check discount
totalRaised = totalRaised.add(_amount);

user.amount = user.amount.add(_amount);

// Check discount
```

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Source file

/launchpad/zflaunchpad.sol

```
73
74  // Check discount
75  uint256 _bonusPercent = | get8onusPercentage();
76  // Update amount + bonus
77  _amount = _amount + _amount.mul(_bonusPercent).div(100);
```

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```
// Check discount
uint256 _bonusPercent = getBonusPercentage();
// Update amount + bonus
__amount = _amount + _amount.mul(_bonusPercent).div(100);
// Update user
```

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SWC-107

/launchpad/zflaunchpad.sol

Locations

Source file

```
81
    // Referral
82
83
    if (_referrer != address(0) && _referrer != msg.sender) {
    if (referralInfo[_referrer] == 0) referrals.push(_referrer);
    uint256 _referralAmount = _amount.mul(5).div(100);
```

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82 // Referral
    if (_referrer != address(0) && _referrer != msg.sender) {
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    if (referralInfo[_referrer] == 0) referrals.push(_referrer);
    uint256 _referralAmount = _amount.mul(5).div(100);
    referralInfo[_referrer] = referralInfo[_referrer].add(_referralAmount);
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84 | if (referralInfo[_referrer] == 0) referrals.push(_referrer);
    uint256 _referralAmount = _amount.mul(5).div(100);
    referralInfo[_referrer] = referralInfo[_referrer].add(_referralAmount);
    totalReferralAmount = totalReferralAmount.add(_referralAmount);
87
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/launchpad/zflaunchpad.sol

Locations

Source file

```
70  // Set value before check discount
71  totalRaised = totalRaised.add(_amount);
72  user amount = user amount.add(_amount);
73
74  // Check discount
```

LOW

Write to persistent state following external call.

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```
// Check discount
uint256 _bonusPercent = getBonusPercentage();
// Update amount + bonus
amount = _amount + _amount.mul(_bonusPercent).div(100);
// Update user
user.amountBonus = user.amountBonus.add(_amount);
```

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```
totalRaisedBonus = totalRaisedBonus.add(_amount);

// Referral
// Referral
if [_referrer != address 0) 86 _referrer != msg.sender) {
if (referralInfo[_referrer] == 0) referrals.push(_referrer);
uint256 _referralAmount = _amount.mul(5).div(100);
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uint256 _referralAmount = _amount.mul(5).div(100);
referralInfo[_referrer] = referralInfo[_referrer].add(_referralAmount);
totalReferralAmount = totalReferralAmount.add(_referralAmount);
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uint256 _referralAmount = _amount.mul(5).div(100);
referralInfo[_referrer] = referralInfo[_referrer].add(_referralAmount);
totalReferralAmount = totalReferralAmount addi_referralAmount

emit Deposit msg sender _amount, _referrer);
}
```

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Source file

SWC-107

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Locations

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/zflaunchpad.sol

```
// No discount
if (block.timestamp < startTimestamp || block.timestamp.sub(startTimestamp).div(356400) > 0) { // No bonus
return 0;

uint256 _currentTime = block timestamp sub startTimestamp
// Zone 3
if (_currentTime >= 32400 &6 _currentTime.sub(32400).div(324000) == 0){
return 15 - (_currentTime.sub(32400)).div(21600);
```

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

SWC-116

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```
if (block.timestamp < startTimestamp \mid | block.timestamp.sub(startTimestamp).div(356400) > 0) \ \{ \ // \ No \ bonus \ A = (a + b) + (b + b) + (b
    97
                                    uint256 _currentTime = block.timestamp.sub(startTimestamp);
    99
                                    if (_currentTime >= 32400 &8 _currentTime.sub(32400).div(324000) == 0){
                                    return 15 - (_currentTime.sub(32400)).div(21600);
101
102
```

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Source file

/launchpad/zflaunchpad.sol

Locations

```
57 | function deposit(uint256 _amount, address _referrer) external nonReentrant {
    require(block.timestamp > startTimestamp, "deposit:Too early");
    require(block.timestamp < endTimestamp, "deposit:Too late")</pre>
59
60
    require(isSaleStart, "deposit: Sale not yet enabled");
61
    require(_amount > 0, "deposit:Amount must be > 0");
```

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59 | require(block.timestamp < endTimestamp, "deposit:Too late");</pre>
    require(isSaleStart, "deposit: Sale not yet enabled");
    require(_amount > 0, "deposit:Amount must be > 0");
62
63
    UserInfo storage user = userInfo[msg.sender];
```

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Locations

LOW Requirement violation.

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).

SWC-123

Source file

/launchpad/zflaunchpad.sol

```
119 }
120
121 function getReferralInfo:address _user) public view returns (uint256) {
122 return referralInfo[_user];
123 }
```