

# Smart Contract Security Audit Report

[2021]



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# **1 Executive Summary**

On 2021.09.13, the SlowMist security team received the Waterfall Protocol team's security audit application for Waterfall Protocol, developed the audit plan according to the agreement of both parties and the characteristics of the project, and finally issued the security audit report.

The SlowMist security team adopts the strategy of "white box lead, black, grey box assists" to conduct a complete security test on the project in the way closest to the real attack.

The test method information:

Test method	Description
Black box testing	Conduct security tests from an attacker's perspective externally.
Grey box testing	Conduct security testing on code modules through the scripting tool, observing the internal running status, mining weaknesses.
White box testing	Based on the open source code, non-open source code, to detect whether there are vulnerabilities in programs such as nodes, SDK, etc.

The vulnerability severity level information:

Level	Description
Critical	Critical severity vulnerabilities will have a significant impact on the security of the DeFi project, and it is strongly recommended to fix the critical vulnerabilities.
High	High severity vulnerabilities will affect the normal operation of the DeFi project. It is strongly recommended to fix high-risk vulnerabilities.
Medium	Medium severity vulnerability will affect the operation of the DeFi project. It is recommended to fix medium-risk vulnerabilities.
Low	Low severity vulnerabilities may affect the operation of the DeFi project in certain scenarios. It is suggested that the project team should evaluate and consider whether these vulnerabilities need to be fixed.
Weakness	There are safety risks theoretically, but it is extremely difficult to reproduce in engineering.



Level	Description	
Suggestion	There are better practices for coding or architecture.	

# 2 Audit Methodology

The security audit process of SlowMist security team for smart contract includes two steps:

Smart contract codes are scanned/tested for commonly known and more specific vulnerabilities using automated analysis tools.

Manual audit of the codes for security issues. The contracts are manually analyzed to look for any potential problems.

Following is the list of commonly known vulnerabilities that was considered during the audit of the smart contract:

- Reentrancy Vulnerability
- Replay Vulnerability
- Reordering Vulnerability
- Short Address Vulnerability
- Denial of Service Vulnerability
- Transaction Ordering Dependence Vulnerability
- Race Conditions Vulnerability
- Authority Control Vulnerability
- Integer Overflow and Underflow Vulnerability
- TimeStamp Dependence Vulnerability
- Uninitialized Storage Pointers Vulnerability
- Arithmetic Accuracy Deviation Vulnerability
- tx.origin Authentication Vulnerability



- "False top-up" Vulnerability
- Variable Coverage Vulnerability
- Gas Optimization Audit
- Malicious Event Log Audit
- Redundant Fallback Function Audit
- Unsafe External Call Audit
- Explicit Visibility of Functions State Variables Aduit
- Design Logic Audit
- Scoping and Declarations Audit

# **3 Project Overview**

# 3.1 Project Introduction

(1) 2021.09.13 - 2021.09.22 audit scope

Audit Version Code:

https://github.com/WaterfallDefi/Waterfall-contracts

commit: c9900ecec8737c6a0630b25c26c6a5860b23e9ec

Fixed Version Code:

https://github.com/WaterfallDefi/Waterfall-contracts

commit: c2feb30c39d4e8b0bfc31f6a41123c4db62ff134

(2) 2021.11.13 - 2021.11.14 audit scope

**Audit Version Code:** 



https://github.com/WaterfallDefi/Waterfall-contracts

commit: 216f5b1e78cacf8e6df3682c84793657d2f6760e

Fixed Version Code:

https://github.com/WaterfallDefi/Waterfall-contracts

commit: 0a14f6b3443de91ac217483a574b3d97ea526293

# 3.2 Vulnerability Information

The following is the status of the vulnerabilities found in this audit:

NO	Title	Category	Level	Status
N1	ProducedFee management security reminder	Others	Suggestion	Fixed
N2	Excessive authority issues	Authority Control Vulnerability	Medium	Fixed
N3	DoS issue	Denial of Service Vulnerability	Low	Confirmed
N4	Underflow issue	Integer Overflow and Underflow Vulnerability	High	Fixed
N5	Slippage check is missing	Design Logic Audit	Critical	Fixed
N6	Missing permission check	Authority Control Vulnerability	Critical	Fixed
N7	Compatibility security reminder	Others	Suggestion	Confirmed
N8	Modifier name optimization	Others	Suggestion	Fixed

# **4 Code Overview**



# **4.1 Contracts Description**

The main network address of the contract is as follows:

Nov-16-2021 08:47:18 AM +UTC's contract status

**BSC** mainnet address:

core: 0xE76e7b361C9fd6178b75079A30b8043C2bF95b11

masterwtf: 0xEe0C679c7e1D676ED919F97290D62dcCD4f4F853

mBUSD: 0x8e0695128FC3Fe13dA0Af009b179642e5611057a

alpacaStrat: 0x40707E5711ce08d77b1D970fB28D7b224F184125

venusStrat: 0x3B265276F2Cf95D200E7E1a138914e1C43Fdd359

creamStrat: 0xDa4C1e82B78C799bC7980583183390681A72Aff1

timelockcontroller: 0x870Ca87C64182cc315705194C0ffa8023EA741Ca

tranchemaster: 0xFDDA6514a13161a5a1724F8DD787d9d3faeC9557

WTF Token: 0x2fA0cac2c75Efb50382B5091C6494194eAcF65B0

### multi-sgin contract owners:

https://gnosis-safe.io/app/bnb:0x46D0C754463E3Bd07c1451CF4a683fEcD507d36B/settings/owners

# Core contract configuration:

EXECUTOR\_ROLE: 0x46D0C754463E3Bd07c1451CF4a683fEcD507d36B(multi-sgin contract)

GOVERN\_ROLE\_0: 0xE76e7b361C9fd6178b75079A30b8043C2bF95b11(Core contract)

GOVERN\_ROLE\_1: 0x46D0C754463E3Bd07c1451CF4a683fEcD507d36B(multi-sgin contract)

GUARDIAN\_ROLE: None

MASTER\_ROLE: 0xFDDA6514a13161a5a1724F8DD787d9d3faeC9557(TrancheMaster contract)

MULTISTRATEGY\_ROLE: 0x8e0695128FC3Fe13dA0Af009b179642e5611057a(MultiStrategyToken contract)

PROPOSER\_ROLE: 0x46D0C754463E3Bd07c1451CF4a683fEcD507d36B(multi-sgin contract)

TIMELOCK\_ROLE: 0x870Ca87C64182cc315705194C0ffa8023EA741Ca(timelockcontroller contract)



#### masterwtf contract configuration:

core: 0xe76e7b361c9fd6178b75079a30b8043c2bf95b11

rewardToken: 0x2fa0cac2c75efb50382b5091c6494194eacf65b0

#### MultiStrategyToken contract configuration:

core: 0xe76e7b361c9fd6178b75079a30b8043c2bf95b11

token: 0xe9e7cea3dedca5984780bafc599bd69add087d56

### StrategyVenus contract configuration:

core: 0xe76e7b361c9fd6178b75079a30b8043c2bf95b11

distributionAddress: 0xfd36e2c2a6789db23113685031d7f16329158384

earnedAddress: 0xcf6bb5389c92bdda8a3747ddb454cb7a64626c63

owner: 0x8e0695128fc3fe13da0af009b179642e5611057a

uniRouterAddress: 0x10ed43c718714eb63d5aa57b78b54704e256024e

vTokenAddress: 0x95c78222b3d6e262426483d42cfa53685a67ab9d

wantAddress: 0xe9e7cea3dedca5984780bafc599bd69add087d56

wbnbAddress: 0xbb4cdb9cbd36b01bd1cbaebf2de08d9173bc095c

# StrategyCream contract configuration:

core: 0xe76e7b361c9fd6178b75079a30b8043c2bf95b11

distributionAddress: 0x589de0f0ccf905477646599bb3e5c622c84cc0ba

earnedAddress: 0xd4cb328a82bdf5f03eb737f37fa6b370aef3e888

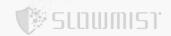
owner: 0x8e0695128fc3fe13da0af009b179642e5611057a

uniRouterAddress: 0x10ed43c718714eb63d5aa57b78b54704e256024e

vTokenAddress: 0x2bc4eb013ddee29d37920938b96d353171289b7c

wantAddress: 0xe9e7cea3dedca5984780bafc599bd69add087d56

wbnbAddress: 0xbb4cdb9cbd36b01bd1cbaebf2de08d9173bc095c



# StrategyAlpaca contract configuration:

core: 0xe76e7b361c9fd6178b75079a30b8043c2bf95b11

alpacaAddress: 0x8f0528ce5ef7b51152a59745befdd91d97091d2f

fairLaunchAddress: 0xa625ab01b08ce023b2a342dbb12a16f2c8489a8f

uniRouterAddress: 0x10ed43c718714eb63d5aa57b78b54704e256024e

vaultAddress: 0x7c9e73d4c71dae564d41f78d56439bb4ba87592f

wantAddress: 0xe9e7cea3dedca5984780bafc599bd69add087d56

wbnbAddress: 0xbb4cdb9cbd36b01bd1cbaebf2de08d9173bc095c

owner: 0x8e0695128fc3fe13da0af009b179642e5611057a

### timelockcontroller contract configuration:

core: 0xe76e7b361c9fd6178b75079a30b8043c2bf95b11

minDelay: 86400 (24 hour)

### tranchemaster contract configuration:

core: 0xe76e7b361c9fd6178b75079a30b8043c2bf95b11

currency: 0xe9e7cea3dedca5984780bafc599bd69add087d56

devAddress: 0x46d0c754463e3bd07c1451cf4a683fecd507d36b

staker: 0xee0c679c7e1d676ed919f97290d62dccd4f4f853

strategy: 0x8e0695128fc3fe13da0af009b179642e5611057a

# 4.2 Visibility Description

The SlowMist Security team analyzed the visibility of major contracts during the audit, the result as follows:

		MasterChef	
Function Name	Visibility	Mutability	Modifiers



MasterChef			
<constructor></constructor>	Public	Can Modify State	CoreRef
updateMultiplier	Public	Can Modify State	onlyGovernor
poolLength	Public	-	-
add	Public	Can Modify State	onlyGovernor
set	Public	Can Modify State	onlyGovernor validatePid
getMultiplier	Public	-	-
pendingReward	Public	-	validatePid
massUpdatePools	Public	Can Modify State	-
updatePool	Public	Can Modify State	validatePid
updateStake	Public	Can Modify State	onlyGuardian validatePid nonReentrant
start	Public	Can Modify State	onlyGuardian nonReentrant
next	Public	Can Modify State	onlyGuardian nonReentrant
claim	Public	Can Modify State	nonReentrant
claimAll	Public	Can Modify State	nonReentrant
safeRewardTransfer	Internal	Can Modify State	-
updaterewardPerBlock	Public	Can Modify State	onlyGuardianOrGovernor

	S	trategy	
Function Name	Visibility	Mutability	Modifiers
<constructor></constructor>	Public	Can Modify State	CoreRef



	Strategy				
setFarms	Public	Can Modify State	onlyGovernor		
setAlpacaToken	Public	Can Modify State	onlyGovernor		
setVenusToken	Public	Can Modify State	onlyGovernor		
setPancakeRouter	Public	Can Modify State	onlyGovernor		
setVenusOracle	Public	Can Modify State	onlyGovernor		
setAlpacaOracle	Public	Can Modify State	onlyGovernor		
setSlipPageFactor	Public	Can Modify State	onlyRole		
farm	Public	Can Modify State	onlyRole nonReentrant		
redeem	Public	Can Modify State	onlyRole nonReentrant		
_farm	Internal	Can Modify State	-		
_redeem	Internal	Can Modify State	-		
_safeSwap	Private	Can Modify State	-		

TrancheMaster			
Function Name	Visibility	Mutability	Modifiers
<constructor></constructor>	Public	Can Modify State	CoreRef
setStrategy	Public	Can Modify State	onlyGovernor
setStaker	Public	Can Modify State	onlyGovernor
setDuration	Public	Can Modify State	onlyGovernor



TrancheMaster			
add	Public	Can Modify State	onlyGovernor
set	Public	Can Modify State	onlyGovernor checkTranchelD
updateInvest	Internal	Can Modify State	-
balanceOf	Public	-	-
getInvest	Public	-	checkTranchelD
_tryStart	Internal	Can Modify State	-
investDirect	Public	Can Modify State	checkTrancheID checkNotActive updateInvest nonReentrant
deposit	Public	Can Modify State	updateInvest nonReentrant
invest	Public	Can Modify State	checkTrancheID checkNotActive updateInvest nonReentrant
_invest	Private	Can Modify State	-
redeem	Public	Can Modify State	checkTrancheID checkNotActive updateInvest nonReentrant
_redeem	Private	Can Modify State	-
redeemDirect	Public	Can Modify State	checkTrancheID checkNotActive updateInvest nonReentrant
withdraw	Public	Can Modify State	updateInvest nonReentrant
_startCycle	Internal	Can Modify State	checkNotActive
_stopCycle	Internal	Can Modify State	-
lculateExchang eRate	Internal	-	-



TrancheMaster			
_processExit	Internal	Can Modify State	-
stop	Public	Can Modify State	checkActive nonReentrant
withdrawFee	Public	Can Modify State	onlyGovernor

WTF				
Function Name	Visibility	Mutability	Modifiers	
<constructor></constructor>	Public	Can Modify State	ERC20 ERC20Capped	

# 4.3 Vulnerability Summary

### [N1] [Suggestion] ProducedFee management security reminder

# **Category: Others**

#### Content

Governor can extract the handling fee in the contract. If the Governor is an EOA address, there may be a situation where the private key is stolen, and the handling fee will be maliciously transferred.

contracts/main/TrancheMaster.sol#L561-L566

```
function withdrawFee(uint256 amount) public onlyGovernor {
    require(amount <= producedFee, "not enough balance for fee");
    producedFee = producedFee.sub(amount);
    IERC20(currency).safeTransfer(msg.sender, amount);
    emit WithdrawFee(msg.sender, amount);
}</pre>
```

# Solution

It is recommended to transfer the ProducedFee to the designated multi-signature address.



#### **Status**

Fixed; The project team using multi-sgin contract for management: https://gnosis-safe.io/app/bnb:0x46D0C754463E3Bd07c1451CF4a683fEcD507d36B/settings/owners

# [N2] [Medium] Excessive authority issues

# **Category: Authority Control Vulnerability**

#### Content

The Governor role can modify the configuration of the contract and modify the address of the external contract to be called. External contracts that have not undergone security audits may be at risk, which will affect the user's funds. In addition, there is no event record for the function to modify contract parameters, which is not conducive to the review of community users.

contracts/main/Strategy.sol#L83-L113

```
function setFarms(
       address cream,
       uint256 s1,
        address venus,
        uint256 s2,
        address alpaca,
       uint256 s3
    ) public onlyGovernor {
       CreamFarm = cream;
       VenusFarm = venus;
        AlpacaFarm = alpaca;
        farms[0].addr = cream;
        farms[1].addr = venus;
        farms[2].addr = alpaca;
        farms[0].shares = s1.mul(PercentageScale).div(PercentageParamScale);
        farms[1].shares = s2.mul(PercentageScale).div(PercentageParamScale);
        farms[2].shares = s3.mul(PercentageScale).div(PercentageParamScale);
    }
function setAlpacaToken(address a) public onlyGovernor {
        AlpacaToken = a;
    }
```



```
function setVenusToken(address a) public onlyGovernor {
     VenusToken = a;
}

function setPancakeRouter(address a) public onlyGovernor {
     PancakeRouter = a;
}
```

contracts/main/MasterChef.sol#L67-L70

```
function updateMultiplier(uint256 multiplierNumber) public onlyGovernor {
     BONUS_MULTIPLIER = multiplierNumber;
}
```

contracts/main/MasterChef.sol#L75-L95

```
function add(uint256 allocPoint) public onlyGovernor {
        totalAllocPoint = totalAllocPoint.add( allocPoint);
        poolInfo.push(PoolInfo({
            allocPoint: allocPoint
        }));
    }
function set(uint256 _pid, uint256 _allocPoint, bool _withUpdate)
        public
       onlyGovernor
       validatePid(_pid)
    {
       if (_withUpdate) {
            massUpdatePools();
        uint256 prevAllocPoint = poolInfo[_pid].allocPoint;
        poolInfo[_pid].allocPoint = _allocPoint;
       if (prevAllocPoint != _allocPoint) {
            totalAllocPoint = totalAllocPoint.sub(prevAllocPoint).add(_allocPoint);
        }
    }
```

contracts/main/TrancheMaster.sol#L170-L222



```
function setStrategy(address _strategy) public onlyGovernor {
        strategy = _strategy;
    }
    function setStaker(address _staker) public onlyGovernor {
        staker = _staker;
    }
    function setDuration(uint256 _duration) public onlyGovernor {
        duration = _duration;
    }
function add(
        uint256 target,
        uint256 apy,
        uint256 fee
    )
        public
        onlyGovernor
    {
        require(target > 0, "invalid target");
        require(apy <= MaxAPY, "invalid APY");</pre>
        require(fee <= MaxFee, "invalid fee");</pre>
        tranches.push(
            Tranche({
                target: target,
                apy: apy.mul(PercentageScale).div(PercentageParamScale),
                fee: fee,
                principal: 0
            })
        );
        emit TrancheAdd(tranches.length - 1, target, apy, fee);
    }
function set(
        uint256 tid,
        uint256 target,
        uint256 apy,
        uint256 fee
    )
        public
        onlyGovernor
        checkTrancheID(tid)
    {
        require(target >= tranches[tid].principal, "invalid target");
```



```
require(apy <= MaxAPY, "invalid APY");
require(fee <= MaxFee, "invalid fee");
tranches[tid].target = target;
tranches[tid].apy = apy.mul(PercentageScale).div(PercentageParamScale);
tranches[tid].fee = fee;
emit TrancheUpdated(tid, target, apy, fee);
}</pre>
```

contracts/refs/CoreRef.sol#L43-L46

```
function setCore(address core_) external onlyGovernor {
    _core = ICore(core_);
    emit CoreUpdate(core_);
}
```

#### Solution

It is recommended that the authority of the Governor role be transferred to a timelock contract or governance contract, and the function of modifying contract parameters adopts event recording.

#### **Status**

Fixed; The project team using multi-sgin contract for management: https://gnosis-safe.io/app/bnb:0x46D0C754463E3Bd07c1451CF4a683fEcD507d36B/settings/owners

### [N3] [Low] DoS issue

# **Category: Denial of Service Vulnerability**

# Content

When poolInfo.length is lager, it will cause out of gas due to too many for loops.

contracts/main/MasterChef.sol#L119-L124

```
function massUpdatePools() public {
    uint256 length = poolInfo.length;
    for (uint256 pid = 0; pid < length; ++pid) {
        updatePool(pid);
    }
}</pre>
```



### contracts/main/TrancheMaster.sol#L277-L288

```
function _tryStart() internal returns (bool) {
    for (uint256 i = 0; i < tranches.length; i++) {
        Tranche memory t = tranches[i];
        if (t.principal < t.target) {
            return false;
        }
    }
    _startCycle();
    return true;
}</pre>
```

#### Solution

It is recommended not to add too many pools, and a manual update mechanism in batches is required.

#### **Status**

Confirmed; After communicating with the project team, the project will not add too many pools.

# [N4] [High] Underflow issue

# Category: Integer Overflow and Underflow Vulnerability

#### Content

There is no underflow check when performing arithmetic operations, there has a underflow issue.

contracts/main/Strategy.sol#L125-L150

```
function _farm(uint256 total) internal {
    if (total == 0) {
        return;
    }
    uint256 used = 0;
    uint256 amount = 0;

    // cream mint
    amount = total.mul(farms[0].shares).div(PercentageScale);
    IERC20(currency).approve(farms[0].addr, amount);
```



```
ICompoundLike(farms[0].addr).mint(amount);
used += amount;

// venus mint
amount = total.mul(farms[1].shares).div(PercentageScale);
IERC20(currency).approve(farms[1].addr, amount);
ICompoundLike(farms[1].addr).mint(amount);
used += amount;

// alpaca deposit
amount = total - used;
IERC20(currency).approve(farms[2].addr, amount);
IAlpacaLike(farms[2].addr).deposit(amount);
emit Farm(total);
}
```

#### Solution

It is recommended to use SafeMath for arithmetic operations.

#### **Status**

Fixed; The issues has been fixed in commit: https://github.com/WaterfallDefi/Waterfall-

contracts/commit/bf4dcee5ce2389f80902a16d6aff766fdb7c3e4f

# [N5] [Critical] Slippage check is missing

# **Category: Design Logic Audit**

### Content

During the swap operation, the amountOutmin was not checked, and there were sandwich attacks and malicious arbitrage issues.

contracts/main/Strategy.sol#L194-L211

```
function _swapForBUSDFromPancake(
    address _fromToken,
    address _toToken,
    uint256 amount
) private returns (uint256) {
    address[] memory swapPath2 = new address[](2);
```



#### **Solution**

It is recommended to use an oracle to get the price and check the slippage.

#### **Status**

Fixed; This issue has been fixed in commit: https://github.com/WaterfallDefi/Waterfall-contracts/commit/

3cbe73c638af377fe9516fa342a2703df1becade

# [N6] [Critical] Missing permission check

### **Category: Authority Control Vulnerability**

#### Content

The stop function does not perform authentication checks, anyone can call the stop method to stop the cycle.

• contracts/main/TrancheMaster.sol#L557-L560

```
function stop() public checkActive nonReentrant {
    _stopCycle();
}
```

### **Solution**

It is recommended to add a permission check in the stop function.



#### **Status**

Fixed

# [N7] [Suggestion] Compatibility security reminder

**Category: Others** 

#### Content

The project is not compatible with deflationary and inflationary tokens.

#### **Solution**

It is recommended to evaluate the compatibility when docking related tokens.

#### **Status**

Confirmed

### [N8] [Suggestion] Modifier name optimization

### **Category: Others**

#### Content

The withdraw function is called by the Multiistrategy contract. Because it will execute

IERC20(wantAddress).safeTransfer(owner(), balance); ,May cause community users to misunderstand

that Owner will transfer assets to EOA addresses.

Waterfall-contracts/contracts/strategy/StrategyAlpaca.sol#L89



Waterfall-contracts/contracts/strategy/StrategyVenus.sol#L162

```
function withdraw(uint256 minReturnWant) public override onlyOwner nonReentrant {
        require(minReturnWant > 0, "Min return is zero");
        withdraw();
        if (isComp) {
            IVenusDistribution(distributionAddress).claimComp(address(this));
        } else {
            IVenusDistribution(distributionAddress).claimVenus(address(this));
        }
        uint256 earnedAmt = IERC20(earnedAddress).balanceOf(address(this));
        if (earnedAddress != wantAddress && earnedAmt != 0) {
            IPancakeRouter02(uniRouterAddress).swapExactTokensForTokens(
                earnedAmt,
                minReturnWant,
                earnedToWantPath,
                address(this),
                now.add(600)
            );
        }
        uint256 wantBal = wantLockedInHere();
        IERC20(wantAddress).safeTransfer(owner(), wantBal);
    }
```

# Solution

It is recommended to change onlyOwner to onlyMultistrategy to avoid misunderstanding by community users.



# **Status**

Fixed; This issue has been fixed in commit: https://github.com/WaterfallDefi/Waterfall-contracts/commit/0a14f6b3443de91ac217483a574b3d97ea526293

# **5 Audit Result**

Audit Number	Audit Team	Audit Date	Audit Result
0X002111150004	SlowMist Security Team	2021.09.13 - 2021.09.22 2021.11.13 - 2021.11.14	Low Risk

Summary conclusion: The SlowMist security team uses a manual and SlowMist team's analysis tool to audit the project, during the audit work we found 2 critical risk, 1 high risk, 2 medium risk, 3 suggestion vulnerabilities. 2 suggestion vulnerabilities were confirmed; All other findings were fixed. The code was deployed to the mainnet.



# 6 Statement

SlowMist issues this report with reference to the facts that have occurred or existed before the issuance of this report, and only assumes corresponding responsibility based on these.

For the facts that occurred or existed after the issuance, SlowMist is not able to judge the security status of this project, and is not responsible for them. The security audit analysis and other contents of this report are based on the documents and materials provided to SlowMist by the information provider till the date of the insurance report (referred to as "provided information"). SlowMist assumes: The information provided is not missing, tampered with, deleted or concealed. If the information provided is missing, tampered with, deleted, concealed, or inconsistent with the actual situation, the SlowMist shall not be liable for any loss or adverse effect resulting therefrom. SlowMist only conducts the agreed security audit on the security situation of the project and issues this report. SlowMist is not responsible for the background and other conditions of the project.





# **Official Website**

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# **Github**

https://github.com/slowmist