



# POLYSTAKE

Website: <https://polystake.site/>

Contract:

<https://polygonscan.com/address/0x83DAEf9c93fb64Ac2C698F37847b715686b10fb1#code/>

PowerSoli

23/07/2021

[www.powersoli.com](http://www.powersoli.com)

*PowerSoli Audit*

## **CRITICAL ISSUES (critical, high severity): 0**

Critical and harmful access for owners, user block ability, Bugs, and vulnerabilities that enable theft of funds, lock access to funds without possibility to restore it or lead to any other loss of funds to be transferred to any party.

## **ERRORS, BUGS AND WARNINGS (medium, low severity): 0**

Bugs can negatively affect the usability of a program, errors that can trigger a contract failure, Lack of necessary security precautions, other warnings for owners and users, warning codes that are valid code but the compiler thinks are suspicious.

## **OPTIMIZATION (low severity): 1**

Methods to decrease the cost of transactions in Smart-Contract.

## **RECOMMENDATIONS (very low severity): 0**

Hints and tips to improve contract functionality and trustworthy.

## **Conclusion:**

The **PolyStake** Smart-Contract were found to have no vulnerabilities, no backdoors, and **no scam scripts**.

The code was tested with compatible compilers and simulate manually reviewer for all commonly known and specific vulnerabilities.

So **PolyStake** Smart-Contract is safe for use in the Polygon Mainnet Network.

## Optimization suggestions.

### Loop on the dynamic variable (low severity).

If the user gets more parallel deposits his withdrawal transaction fee will cost more because the loop on the dynamic variable is used in the 'withdraw' function.

In case of the GAS limit exceeding the size of transaction withdrawal is not possible.

**Note:** This comment is relevant only if a user creates an excessive number of parallel deposits (more than 100).

### Independent description of the smart-contract functionality

The **PolyStake** smart-contract provides the opportunity to invest any amount in MATIC (from 10 MATIC) in the contract and get 120% to 289% return on investment in 12 to 20 days if the contract balance has enough funds for payment.

- ✓ Dividends are paid from deposits of users.
- ✓ All dividends are calculated at the moment of request and available for withdrawal anytime after deposit finished time based on plans.
- ✓ Each subsequent Deposit is kept separately in the contract, in order to maintain the payment amount for each Deposit.

**Launch Date:** Sun July 23 2021

Contract Fee Totally 12%

Prj1: 4%

adv1: 4%

adv2: 4%

## SIX INVESTMENT PLANS

Plans	Total Return	Daily Profit	Days	Withdraw Time	Refund
1	120%	10%	12	Any Time	No
2	128%	8%	16	Any Time	No
3	140%	7%	20	Any Time	No
4	209%	10%	12	End of Plan	No
5	230%	8%	16	End of Plan	No
6	269%	7%	20	End of Plan	No

- The minimum deposit amount is 10 MATIC
- Plans 4, 5 and 6 use capitalization of interest. This means the dividends generated are automatically reinvested to obtain a greater profit. Withdrawal of earnings is only possible at the end of Plan.

### Float Plans

**Important:** Plans return are float and daily

- Daily profit of plan 1 will increase 1% daily profit for a new deposit will increase by **0.1%** daily.

### Referral System (Match Bonus)

This contract pays 8% referrals commissions over 3 level deeps

- Level 1: 5%
- Level 2: 2%
- Level 3: 1%

### Notes:

- Referral should be an active user; it means referral address has at least one deposit

## POLYSTAKE Smart-Contract Functions

- Constructor: initial plans, owner address and start date
- invest: make a new deposit
- withdraw: transfer user profit to his wallet
- refund: refund plan 4 deposit amount
- getContractBalance: return contract balance
- getPlanInfo: return plan info
- getPercent: return calculated percent
- getResult: return deposit calculated percent, profit and finish date
- getUserDividends: return user dividends
- getUserCheckpoint: return user checkpoint
- getUserReferrer: return user referred
- getUserDownlineCount: return referral amount in three level
- getUserReferralBonus: return referral bonus
- getUserReferralTotalBonus: return total referrals
- getUserReferralWithdrawn: return total paid referrals
- getUserAvailable: return user available
- getUserAmountOfDeposits: return deposits amount
- getUserTotalDeposits: return total deposit
- getUserInPlan: return user all plan type status
- getContractLaunchTime: return launch time
- getUserDepositInfo: return a deposit info
- isContract: check the address type

## DISCLAIMER:

This audit is only to the Smart-Contract code at the specified address.

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The audit makes no statements or warranties about the suitability or sustainability of the business model or regulatory regime for the business model. Do take in consideration that you are doing all financial actions & transactions at your own risk, especially if you are dealing with high-risk projects / Dapps.

## PowerSoli

23/07/2021

If you are interested in developing/auditing Smart-Contracts, please contact us.

**All official info available:**

Website: <https://www.powersoli.com>

Telegram Channel: [https://t.me/PowerSoli\\_Audit](https://t.me/PowerSoli_Audit)

