



# Revolution Audit



## Audit Report

Name	: <b>PetZ Gold Token</b>
Symbol	: <b>PGT</b>
Decimals	: <b>18</b>
Address	: <b>0xb78bf2a671ef8d52a62390772445165507ab7029</b>
Owner	: <b>0xbc1f556f327da219be7age66cde0a1dcbega1e65</b>
Network	: <b>Binance Smart Chain (Mainnet)</b>
Type	: <b>BEP20</b>
Audited on	: <b>1 November 2022</b>
Updated on	: <b>16 November 2022</b>



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## Project Overview

Name	PetZ Gold Token
Symbol	PGT
Decimals	18
Total Supply	100,000,000 ( Initial ) 500,000,000 ( Capped )
Tax	N/A
Compiler Version	v0.8.0+commit.c7dfd78e
Optimization	Yes with 200 runs
License Type	None
Explorer Link	<a href="https://bscscan.com/address/0xb78bf2a671ef8d52a62390772445165507ab7029">https://bscscan.com/address/0xb78bf2a671ef8d52a62390772445165507ab7029</a>
Create Tx	0x4587a240c071448a45da804bad8786c6aa752408a1d4a2eafda618428785c478
Creator	0xbc1f556f327da219be7a9e66cde0a1dcbega1e65
GitHub Link	<a href="https://github.com/petzofficial/petz_contracts">https://github.com/petzofficial/petz_contracts</a>
Website	<a href="https://petz.money">https://petz.money</a>



## Project Description

### According to the owner

PetZ Money is a web3 virtual pet that combines game-fi elements with productivity-based rewards. With the PetZ Money Focus to Earn ecosystem, you can earn money while you work or take a break in \$PGT + \$PST.

**Release Date** : TBA

**Category** : Governance and utility Token



## Online Presence

### About Website

**Registrar** : <https://www.sav.com>

**Domain Expiration** : 2023-08-13

**SSL Certificate** : Issued by Let's Encrypt

### Official Links

Website	<a href="https://petz.money">https://petz.money</a>
Twitter	<a href="https://twitter.com/petzofficial">https://twitter.com/petzofficial</a>
GitHub	<a href="https://github.com/petzofficial">https://github.com/petzofficial</a>
Telegram Group	<a href="https://t.me/petz_money">https://t.me/petz_money</a>



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## The Team

<b>About</b>	We only interacted with the owner for the audit. However, there are no KYC procedure being conducted by Revolution on any of PetZGoldToken's team members.
<b>KYC Issuer</b>	N/A
<b>Member's KYC'd</b>	N/A
<b>KYC Date</b>	N/A
<b>Certificate Link</b>	N/A
<b>Task Completed</b>	N/A



## Audit Overview

### Threat Level

When conducting audit on smart contract(s), we first look for known vulnerabilities and issues within the code because any exploitation on such vulnerabilities and issues by malicious actors could potentially result in serious financial damage to the projects. All the issues and vulnerabilities will be categorized into the categories as provided below.

#### Critical

This category provides issues and vulnerabilities that are critical to the performance/functionality of the smart contract and should be fixed by project creator before moving to a live environment.

#### Medium

This category provides issues and vulnerabilities that are not that critical to the performance/functionality of the smart contract but is recommended to be fixed by project creator before moving to a live environment.

#### Minor

This category provides issues and vulnerabilities that are minor to the performance/functionality of the smart contract and can remain unfixed by project creator before moving to a live environment.

#### Informational

This category provides issues and vulnerability that have insignificant effect on the performance/functionality of the smart contract and can remain unfixed by project creator before moving to a live environment. However, fixing them can further improve the efficacy or security for features with a risk-free factor.



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## Notable Information

- Contract Owner cannot stop or pause transactions.
- Contract Owner cannot transfer tokens from specific address.
- Contract Owner cannot burn tokens from specific wallet.
- Contract Owner cannot blacklist wallets from selling.
- Contract is using safe Zeppelin modules.





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## Caution

- Contract Owner can mint new tokens after deploying smart contract with a cap set at 500,000,000 tokens.
- There is one minor compiler warning when compiling the smart contract that should not affect the functionality since it is due to SPDX license identifier not being provided.



## Contract Diagnostic

Link for initial smart contract commit being audited on GitHub:

[https://github.com/petzofficial/petz\\_contracts/commit/19f89330ed014c668a60e85afefa7a65312775b6](https://github.com/petzofficial/petz_contracts/commit/19f89330ed014c668a60e85afefa7a65312775b6)

CODE	SEVERITY	DESCRIPTION
<b>SWC-120</b>	<b>Minor</b>	Potential use of "block.number" as source of randomness.
<b>DC</b>	<b>Informational</b>	Dead code.
<b>NC</b>	<b>Informational</b>	Naming convention.



## SWC-120 — Potential use of "block.number" as source of randomness

SEVERITY	Minor
LOCATION(S)	PetZGoldToken.sol#L1167, 1247
DESCRIPTION	The environment variable "block.number" looks like it might be used as a source of randomness to trigger a function.
RECOMMENDATIONS	<p>We would recommend project owner to not use any of the environment variables like coinbase, gaslimit, block number and timestamp as sources of randomness since they are predictable and be aware that such usage could introduces a certain level of trust into miners. Keep in mind that malicious miner can manipulate the value of those variables and that any attackers could also predetermine the hashes of earlier blocks.</p> <p>However, based on our analysis, there's nothing to be done by project owner since in each of the "block.number" value was used as a means to keep track of time/epoch that relates to the trigger of a specific function.</p>
STATUS	N/A



## DC — Dead code

SEVERITY	Informational — Medium
LOCATION(S)	PetZGoldToken.sol#L99-103, 110-113, 120-128, 135-138, 145, 148, 160-164, 176-179, 191-196, 210-213, 227-230, 245-248, 265-268, 285-288, 382-391, 409-415, 435-437, 445-447, 460-462, 470-477, 485-487, 495-501, 509-511, 519-525, 527-544, 913-928,
DESCRIPTION	<p>[Context._msgData()] (#L76-78) is never used and should be removed.</p> <p>[SafeMath.tryAdd()] (#L99-103) is never used and should be removed.</p> <p>[SafeMath.trySub()] (#L110-113) is never used and should be removed.</p> <p>[SafeMath.tryMul()] (#L120-128) is never used and should be removed.</p> <p>[SafeMath.tryDiv()] (#L135-138) is never used and should be removed.</p> <p>[SafeMath.tryMod()] (#L145-148) is never used and should be removed.</p> <p>[SafeMath.add()] (#L160-164) is never used and should be removed.</p> <p>[SafeMath.sub()] (#L176-179) is never used and should be removed.</p> <p>[SafeMath.mul()] (#L191-196) is never used and should be removed.</p> <p>[SafeMath.div()] (#L210-213) is never used and should be removed.</p> <p>[SafeMath.mod()] (#L227-230) is never used and should be removed.</p> <p>[SafeMath.sub()] (#L245-248) is never used and should be removed.</p>



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	<p>[SafeMath.div()] (#L265-268) is never used and should be removed.</p> <p>[SafeMath.mod()] (#L285-288) is never used and should be removed.</p> <p>[Address.isContract()] (#L382-391) is never used and should be removed.</p> <p>[Address.sendValue()] (#L409-415) is never used and should be removed.</p> <p>[Address.functionCall()] (#L435-437) is never used and should be removed.</p> <p>[Address.functionCall()] (#L445-447) is never used and should be removed.</p> <p>[Address.functionCallWithValue()] (#L460-462) is never used and should be removed.</p> <p>[Address.functionCallWithValue()] (#L470-477) is never used and should be removed.</p> <p>[Address.functionStaticCall()] (#L485-487) is never used and should be removed.</p> <p>[Address.functionStaticCall()] (#L495-501) is never used and should be removed.</p> <p>[Address.functionDelegateCall()] (#L509-511) is never used and should be removed.</p> <p>[Address.functionDelegateCall()] (#L519-525) is never used and should be removed.</p> <p>[Address._verifyCallResult()] (#L527-544) is never used and should be removed.</p> <p>[ERC20._burn()] (#L913-928) is never used and should be removed.</p>
<b>RECOMMENDATIONS</b>	<p>Based on our analysis, the ERC20 smart contract is the standard that is a direct fork from Open Zeppelin and were used within the contract itself. Although those functions were never used elsewhere, especially in PetZGoldToken, it's still okay to leave them be.</p>



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	<p>It is the same situation for Address and SafeMath smart contracts since they are both a direct fork / reference of the respective library as provided by Open Zeppelin.</p> <p>However, for Context smart contract, it is okay for project creator to remove those functions to further optimize the smart contract since they are not used anywhere at all. Doing so will reduce the amount gas required when deploying the smart contract.</p>
<b>STATUS</b>	<b>N/A</b>



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## NC — Naming convention

SEVERITY	Informational — Minor
LOCATION(S)	PetZGoldToken.sol#L189, 1044, 1049
DESCRIPTION	<p>[PetZGoldToken.mint()] (#L1027) parameter “_to” and “_amount” are not in mixedCase.</p> <p>[PetZGoldToken._delegates] (#L1039) variable is not in mixedCase.</p>
RECOMMENDATIONS	For PetZGoldToken smart contract, it is okay for project creator to update the name of the parameters in those functions so that they conform to the standard naming convention.
STATUS	N/A



## Disclaimer

**This report only shows findings based on our limited project analysis** according to the good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall online presence and team transparency details of which are set out in this report. To get a full view of our analysis, **it is important for you to read the full report**. Under no circumstances did Revoluzion Audit receive a payment to manipulate those results or change the awarding badge that we will be adding in our website. **Our team provides no guarantees against the sale of team tokens or the removal of liquidity by the project** audited in this document.

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The analysis of the security is purely based on the smart contracts, website, social media, and team.