



# Coinsult

## Advanced Manual Smart Contract Audit



**Project:** Infinity Gnomes

**Website:** <https://infinitygnomes.com>

**Low-Risk**

2 low-risk code  
issues found

**Medium-Risk**

0 medium-risk code  
issues found

**High-Risk**

0 high-risk code  
issues found

**Contract Address**

0xfD0307C6D7668cBac39A87B12D5004906A93d740

Disclaimer: Coinsult is not responsible for any financial losses. Nothing in this contract audit is financial advice, please do your own research.

# Disclaimer

Coinsult is not responsible if a project turns out to be a scam, rug-pull or honeypot. We only provide a detailed analysis for your own research.

Coinsult is not responsible for any financial losses. Nothing in this contract audit is financial advice, please do your own research.

The information provided in this audit is for informational purposes only and should not be considered investment advice. Coinsult does not endorse, recommend, support or suggest to invest in any project.

Coinsult can not be held responsible for when a project turns out to be a rug-pull, honeypot or scam.

# Tokenomics

NFT Supply = 6666

# Source Code

Coinsult was commissioned by Infinity Gnomes to perform an audit based on the following smart contract:

<https://etherscan.io/address/0xfD0307C6D7668cBac39A87B12D5004906A93d740#code>

# Manual Code Review

In this audit report we will highlight all these issues:

## Low-Risk

2 low-risk code  
issues found

## Medium-Risk

0 medium-risk code  
issues found

## High-Risk

0 high-risk code  
issues found

The detailed report continues on the next page...

● **Low-Risk:** Could be fixed, will not bring problems.

## Avoid relying on `block.timestamp`

`block.timestamp` can be manipulated by miners.

```
function _mint(
    address to,
    uint256 quantity,
    bytes memory _data,
    bool safe
) internal {
    uint256 startTokenId = _currentIndex;
    if (to == address(0)) revert MintToZeroAddress();
    if (quantity == 0) revert MintZeroQuantity();

    _beforeTokenTransfers(address(0), to, startTokenId, quantity);

    // Overflows are incredibly unrealistic.
    // balance or numberMinted overflow if current value of either + quantity > 1.8e19 (2**64) - 1
    // updatedIndex overflows if _currentIndex + quantity > 1.2e77 (2**256) - 1
    unchecked {
        _addressData[to].balance += uint64(quantity);
        _addressData[to].numberMinted += uint64(quantity);

        _ownerships[startTokenId].addr = to;
        _ownerships[startTokenId].startTimestamp = uint64(block.timestamp);
    }
}
```

## Recommendation

Do not use `block.timestamp`, `now` or `blockhash` as a source of randomness

## Exploit scenario

```
contract Game {

    uint reward_determining_number;

    function guessing() external{
        reward_determining_number = uint256(block.blockhash(10000)) % 10;
    }
}
```

Eve is a miner. Eve calls `guessing` and re-orders the block containing the transaction. As a result, Eve wins the game.

● **Low-Risk:** Could be fixed, will not bring problems.

## Too many digits

Literals with many digits are difficult to read and review.

```
function _feeDenominator() internal pure virtual returns (uint96) {  
    return 10000;  
}
```

## Recommendation

Use: Ether suffix, Time suffix, or The scientific notation

## Exploit scenario

```
contract MyContract{  
    uint 1_ether = 1000000000000000000;  
}
```

While 1\_ether looks like 1 ether, it is 10 ether. As a result, it's likely to be used incorrectly.

## Owner privileges

- ⚠ Owner can mint NFT's to address directly
- ⚠ Owner can set max NFT's per wallet during presale and normal NFT trading
- ⚠ Owner can change price of the NFT's
- ⚠ Owner can change royalty fees
- ⚠ Owner can withdraw NFT's
- ⚠ Owner can change SaleState at any moment also during presale

## Extra notes by the team

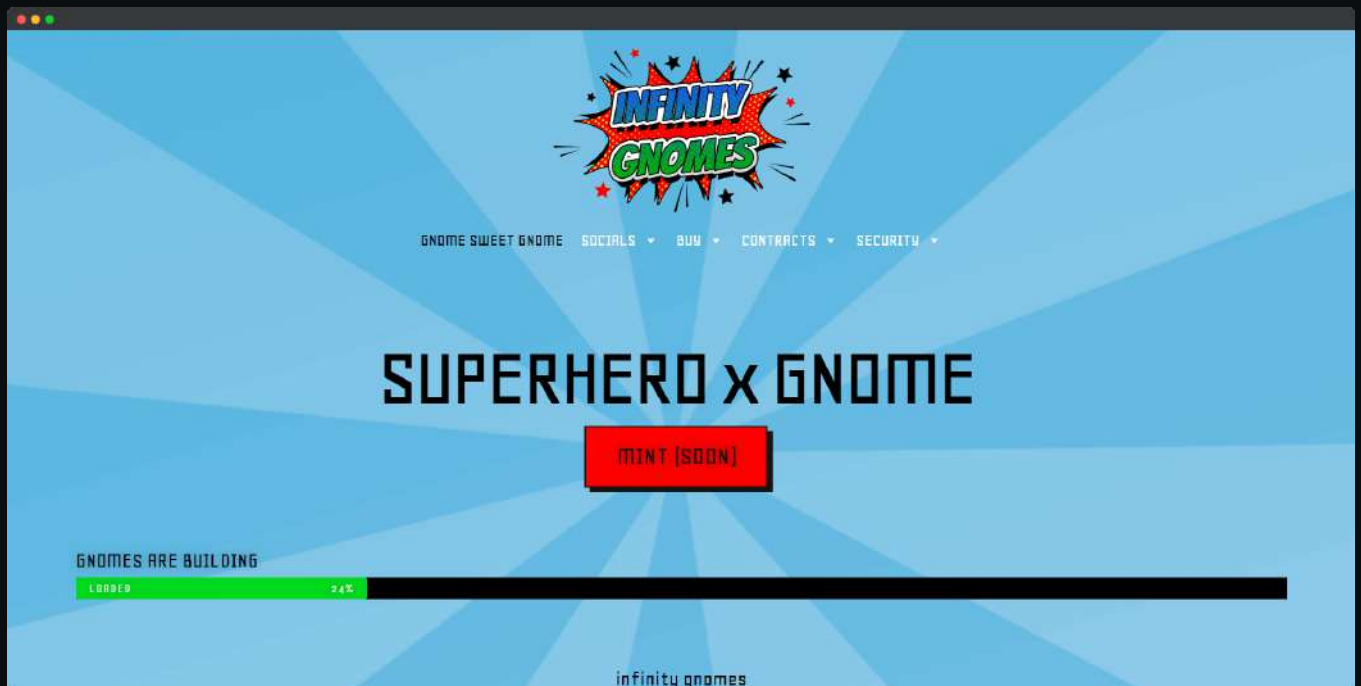
No notes

# Contract Snapshot

```
contract InfinityGnomes is ERC721A, Ownable, ERC2981 {  
    uint256 public price = 0.015 ether;  
    uint256 public presalePrice = 0.015 ether;  
    uint256 public maxPerWallet = 6;  
  
    uint256 public presaleMaxPerWallet = 6;  
  
    uint256 public immutable presaleSupply = 6666;  
    uint256 public immutable supply = 6666;
```

# Website Review

Coinsult checks the website completely manually and looks for visual, technical and textual errors. We also look at the security, speed and accessibility of the website. In short, a complete check to see if the website meets the current standard of the web development industry.



- Mobile Friendly
- Does not contain jQuery errors
- SSL Secured
- No major spelling errors



## Project Overview

● KYC verified by Coinsult

# Infinity Gnomes

Completed KYC Verification at Coinsult.net



Date: 5 August 2022

✓ Project Owner Identified

✓ Contract: 0xfD0307C6D7668cBac39A87B12D5004906A93d740

# Infinity Gnomes

Audited by Coinsult.net



Date: 5 August 2022

✓ Advanced Manual Smart Contract Audit