



SHELLBOXES

Gnars V2

Smart Contract Security Audit

Prepared by ShellBoxes

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Document Properties

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Scope

The Gnars V2 Contracts in the Gnars V2 Repository

Repo	Commit Hash
https://github.com/ artdothaus/gnars-contracts	5cc1793946938c439d952730c6156c10562a9d08

Re-Audit

Contract Name	Contract Address
SkateContractV2	0x558BFFF0D583416f7C4e380625c7865821b8E95C
SkateContractV2AuctionHouse	0x46e57901ea1edd8a200cf982af4fd8cc3a957974

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1 Introduction

Bitlabs.dev engaged ShellBoxes to conduct a security assessment on the Gnars V2 beginning on April 25th, 2022 and ending April 29th, 2022. In this report, we detail our methodical approach to evaluate potential security issues associated with the implementation of smart contracts, by exposing possible semantic discrepancies between the smart contract code and design document, and by recommending additional ideas to optimize the existing code. Our findings indicate that the current version of smart contracts can still be enhanced further due to the presence of many security and performance concerns.

This document summarizes the findings of our audit.

1.1 About Bitlabs.dev

Bitlabs is contributing to decentralised ecosystems by developing software products. The most known brand from Bitlabs is art.haus, which is one of the leading art curators in the NFT space.

Issuer	Bitlabs.dev
Website	https://bitlabs.dev
Type	Solidity Smart Contract
Audit Method	Whitebox

1.2 Approach & Methodology

ShellBoxes used a combination of manual and automated security testing to achieve a balance between efficiency, timeliness, practicability, and correctness within the audit's scope. While manual testing is advised for identifying problems in logic, procedure, and implementation, automated testing techniques help to expand the coverage of smart contracts and can quickly detect code that do not comply with security best practices.

1.2.1 Risk Methodology

Vulnerabilities or bugs identified by ShellBoxes are ranked using a risk assessment technique that considers both the LIKELIHOOD and IMPACT of a security incident. This framework is effective at conveying the features and consequences of technological vulnerabilities.

Its quantitative paradigm enables repeatable and precise measurement while also revealing the underlying susceptibility characteristics that were used to calculate the Risk scores. A risk level will be assigned to each vulnerability on a scale of 5 to 1, with 5 indicating the greatest possibility or impact.

- Likelihood quantifies the probability of a certain vulnerability being discovered and exploited in the untamed.
- Impact quantifies the technical and economic costs of a successful attack.
- Severity indicates the risk's overall criticality.

Probability and impact are classified into three categories: H, M, and L, which correspond to high, medium, and low, respectively. Severity is determined by probability and impact and is categorized into four levels, namely Critical, High, Medium, and Low.

	Impact	High	Critical	High	Medium
	Medium		High	Medium	Low
Impact	Low		Medium	Low	Low
		Likelihood			

2 Findings Overview

2.1 Summary

The following is a synopsis of our conclusions from our analysis of the Gnars V2 implementation. During the first part of our audit, we examine the smart contract source code and run the codebase via a static code analyzer. The objective here is to find known coding problems statically and then manually check (reject or confirm) issues highlighted by the tool. Additionally, we check business logics, system processes, and DeFi-related components manually to identify potential hazards and/or defects.

2.2 Key Findings

In general, these smart contracts are well-designed and constructed, but their implementation might be improved by addressing the discovered flaws, which include 1 medium-severity, 7 low-severity vulnerabilities.

Vulnerabilities	Severity	Status
Missing Transfer Verification	MEDIUM	Fixed
Missing Value Verification	LOW	Fixed
Missing Address Verification	LOW	Fixed
Renounce Ownership	LOW	Acknowledged
Floating Pragma	LOW	Fixed
Missing Address Verification	LOW	Fixed
Renounce Ownership	LOW	Acknowledged
Floating Pragma	LOW	Fixed

3 Findings Details

A SkateContractV2AuctionHouse.sol

A.1 Missing Transfer Verification [MEDIUM]

Description:

The ERC20 standard token implementation functions return the transaction status as a Boolean. It is good practice to check for the return status of the function call to ensure that the transaction was successful. It is the developer's responsibility to enclose these function calls with `require()` to ensure that, when the intended ERC20 function call returns `false`, the caller transaction also fails. However, it is mostly missed by developers when they carry out checks in effect, the transaction would always succeed, even if the token transfer did not.

Code:

Listing 1: SkateContractV2AuctionHouse (Line 308)

```
function _safeTransferETHWithFallback(address to, uint256 amount) internal {
    if (!_safeTransferETH(to, amount)) {
        IWETH(weth).deposit{value: amount}();
        IERC20(weth).transfer(to, amount);
    }
}
```

Recommendation:

It is recommended to put the transfer call inside an `assert` or `require` to verify that the transfer has passed successfully.

Status - Fixed

The issue was fixed by adding a `require` in the `transfer` function.

Code:

Listing 2: SkateContractV2AuctionHouse (Line 280)

```
function _safeTransferETHWithFallback(address to, uint256 amount)
internal {
    if (!_safeTransferETH(to, amount)) {
        IWETH(weth).deposit{value: amount}();
        require(IERC20(weth).transfer(to, amount), "Transfer failed");
    }
}
```

A.2 Missing Value Verification [LOW]

Description:

Certain functions lack a safety check in the values, the values of the arguments should be verified to allow only the ones that go with the contract's logic.

- The `_reservePrice` variable should be different from zero.
- The `_minBidIncrementPercentage` variable should be less than 100%.

Code:

Listing 3: SkateContractV2AuctionHouse (Line 62)

```
function initialize(
    address _skate,
    address _dao,
    ISkateContractV2 _gnars,
    address _weth,
    uint256 _reservePrice,
    uint8 _minBidIncrementPercentage
) external initializer {
    __Pausable_init();
    __ReentrancyGuard_init();
```

```

    __Ownable_init();
    __UUPSUpgradeable_init();

    _pause();

    skate = _skate;
    dao = _dao;
    gnars = _gnars;
    weth = _weth;
    reservePrice = _reservePrice;
    minBidIncrementPercentage = _minBidIncrementPercentage;
    auctionPeriodBlocks = 666;
}

}

```

Recommendation:

It is recommended to verify the values provided in the arguments. The concerns can be resolved by utilizing a require statement.

Status - Fixed

The issue was fixed by validating the following variable `_reservePrice` and `_minBidIncrementPercentage`.

Code:

Listing 4: SkateContractV2AuctionHouse (Line 90)

```

function initialize(
    address _skate,
    address _dao,
    ISkateContractV2 _gnars,
    address _weth,
    uint256 _reservePrice,
    uint8 _minBidIncrementPercentage,
}

```

```

        uint256 _baseAuctionTime,
        uint256 _timeDoublingCount
    ) external initializer {
        __Pausable_init();
        __ReentrancyGuard_init();
        __Ownable_init();
        __UUPSUpgradeable_init();

        _pause();

        require(
            _skate != address(0) && _dao != address(0) &&
            address(_gnars) != address(0) && _weth != address(0),
            "ZERO ADDRESS"
        );
        require(_reservePrice > 0, "Reserve price is zero");
        require(_minBidIncrementPercentage <= 100, "Min bid increment
            percentange too high");
        require(_baseAuctionTime > 0, "Base auction time is zero");
        require(_timeDoublingCount > 0, "Time doubling count is zero");
    }
}

```

A.3 Missing Address Verification [LOW]

Description:

Certain functions lack a safety check in the address, the address-type argument should include a zero-address test, otherwise, some of the contract's functionality may become inaccessible. The `_skate` , `_dao` , `_gnars` and `_weth` addresses should be verified to be different from `address(0)` .

Code:

Listing 5: SkateContractV2AuctionHouse (Line 62)

```
function initialize(
    address _skate,
    address _dao,
    ISkateContractV2 _gnars,
    address _weth,
    uint256 _reservePrice,
    uint8 _minBidIncrementPercentage
) external initializer {
    __Pausable_init();
    __ReentrancyGuard_init();
    __Ownable_init();
    __UUPSUpgradeable_init();

    _pause();

    skate = _skate;
    dao = _dao;
    gnars = _gnars;
    weth = _weth;
    reservePrice = _reservePrice;
    minBidIncrementPercentage = _minBidIncrementPercentage;
    auctionPeriodBlocks = 666;
}
```

Recommendation:

It is recommended to verify that the addresses provided in the arguments are different from the `address(0)`.

Status - Fixed

The issue was fixed by validating the following variables `_skate`, `_dao`, `_gnars` and `_weth`.

Code:

Listing 6: SkateContractV2AuctionHouse (Line 90)

```
function initialize(
    address _skate,
    address _dao,
    ISkateContractV2 _gnars,
    address _weth,
    uint256 _reservePrice,
    uint8 _minBidIncrementPercentage,
    uint256 _baseAuctionTime,
    uint256 _timeDoublingCount
) external initializer {
    __Pausable_init();
    __ReentrancyGuard_init();
    __Ownable_init();
    __UUPSUpgradeable_init();

    _pause();

    require(
        _skate != address(0) && _dao != address(0) &&
        address(_gnars) != address(0) && _weth != address(0),
        "ZERO ADDRESS"
    );
    require(_reservePrice > 0, "Reserve price is zero");
    require(_minBidIncrementPercentage <= 100, "Min bid increment
percentange too high");
    require(_baseAuctionTime > 0, "Base auction time is zero");
    require(_timeDoublingCount > 0, "Time doubling count is zero");
}
```

A.4 Renounce Ownership [LOW]

Description:

Typically, the contract's owner is the account that deploys the contract. As a result, the owner can perform certain privileged activities. The `renounceOwnership` function is used in smart contracts to renounce ownership. However, if the contract's ownership has never been transferred before renouncing it, it will never have an Owner, which may result in a denial of service.

Code:

Listing 7: SkateContractV2AuctionHouse (Line 24)

```
contract SkateContractV2AuctionHouse is
    ISkateContractV2AuctionHouse,
    PausableUpgradeable,
    ReentrancyGuardUpgradeable,
    OwnableUpgradeable,
    UUPSUpgradeable
{
```

Recommendation:

It is advised that the Owner cannot call `renounceOwnership` without first transferring ownership to a different address. Additionally, if a multi-signature wallet is utilized, executing the `renounceOwnership` method will require two or more users to sign the transaction. Alternatively, the renounced ownership functionality can be disabled by overriding it.

Status - Acknowledged

The team decided to acknowledge the risk.

A.5 Floating Pragma [LOW]

Description:

The contract makes use of the floating-point pragma `0.8.6`. Contracts should be deployed using the same compiler version and flags that were used during the testing process. Locking the pragma helps ensure that contracts are not unintentionally deployed using another pragma, such as an obsolete version, that may introduce issues in the contract system.

Code:

Listing 8: SkateContractV2AuctionHouse (Line 13)

```
pragma solidity ^0.8.6;
```

Recommendation:

Consider locking the pragma version. It is advised that floating pragma should not be used in production. Both truffle-config.js and hardhat.config.js support locking the pragma version.

Status - Fixed

The issue has been fixed by locking the pragma version to 0.8.6.

B SkateContractV2.sol

B.1 Missing Address Verification [LOW]

Description:

Certain functions lack a safety check in the address, the address-type argument should include a zero-address test, otherwise, some of the contract's functionality may become inaccessible. The `_minter`, `_descriptor` and `_seeder` variables should be verified to be different from the `address(0)`.

Code:

Listing 9: SkateContractV2 (Line 79)

```
constructor(
    address _minter,
    IGnarDescriptor _descriptor,
    IGnarSeeder _seeder,
    uint256 initialGnarId
) ERC721("Skate or DAO", "GNAR") {
    minter = _minter;
    descriptor = _descriptor;
    seeder = _seeder;
    _currentGnarId = initialGnarId;
}
```

Listing 10: SkateContractV2 (Line 127)

```
function setMinter(address _minter)
    external
    override
    onlyOwner
    whenMinterNotLocked
{
    minter = _minter;

    emit MinterUpdated(_minter);
}
```

Listing 11: SkateContractV2 (Line 152)

```
function setDescriptor(IGnarDescriptor _descriptor)
    external
    override
    onlyOwner
    whenDescriptorNotLocked
{
```

```
descriptor = _descriptor;

emit DescriptorUpdated(_descriptor);
}
```

Listing 12: SkateContractV2 (Line 182)

```
function setSeeder(IGnarSeeder _seeder)
    external
    override
    onlyOwner
    whenSeederNotLocked
{
    seeder = _seeder;

    emit SeederUpdated(_seeder);
}
```

Recommendation:

It is recommended to verify that the addresses provided in the arguments are different from the `address(0)`.

Status - Fixed

The issue was fixed by validating the following variables `_minter`, `_descriptor` and `_seeder`.

Code:

Listing 13: SkateContractV2 (Line 102)

```
constructor(
    address _noundersDAO,
    address _minter,
    IGnarDescriptorV2 _descriptor,
```

```

    IGnarSeederV2 _seeder,
    IProxyRegistry _proxyRegistry,
    uint256 _initialGnarId
) ERC721("Gnars", "GNAR") {
    require(
        _noundersDAO != address(0) &&
        _minter != address(0) &&
        address(_descriptor) != address(0) &&
        address(_seeder) != address(0) &&
        address(_proxyRegistry) != address(0),
        "ZERO ADDRESS"
    );
}

```

B.2 Renounce Ownership [LOW]

Description:

Typically, the contract's owner is the account that deploys the contract. As a result, the owner can perform certain privileged activities. The `renounceOwnership` function is used in smart contracts to renounce ownership. However, if the contract's ownership has never been transferred before renouncing it, it will never have an Owner, which may result in a denial of service.

Code:

Listing 14: SkateContractV2.sol (Line 22)

```
contract SkateContractV2 is ISkateContractV2, Ownable, ERC721Enumerable {
```

Recommendation:

It is advised that the Owner cannot call `renounceOwnership` without first transferring ownership to a different address. Additionally, if a multi-signature wallet is utilized, executing the `renounceOwnership` method will require two or more users to sign the

transaction. Alternatively, the renounced ownership functionality can be disabled by overriding it.

Status - Acknowledged

The team decided to acknowledge the risk.

B.3 Floating Pragma [LOW]

Description:

The contract makes use of the floating-point pragma [0.8.6](#). Contracts should be deployed using the same compiler version and flags that were used during the testing process. Locking the pragma helps ensure that contracts are not unintentionally deployed using another pragma, such as an obsolete version, that may introduce issues in the contract system.

Code:

Listing 15: SkateContractV2 (Line 12)

```
pragma solidity ^0.8.6;
```

Recommendation:

Consider locking the pragma version. It is advised that floating pragma should not be used in production. Both truffle-config.js and hardhat.config.js support locking the pragma version.

Status - Fixed

The issue has been fixed by locking the pragma version to 0.8.6.

4 Best Practices

BP.1 Low-level function calls

Description:

The low-level function call is being utilized in this contract, which can introduce several unexpected risks or errors. Even though we did not find any potential hacks via this low-level function for this contract. Nevertheless, please ensure to avoid using low-level calls.

Code:

Listing 16: SkateContractV2AuctionHouse (Line 319)

```
function _safeTransferETH(address to, uint256 value)
    internal
    returns (bool)
{
    (bool success, ) = to.call{value: value, gas: 30_000}(new bytes(0));
    return success;
}
```

5 Static Analysis (Slither)

Description:

ShellBoxes expanded the coverage of the specific contract areas using automated testing methodologies. Slither, a Solidity static analysis framework, was one of the tools used. Slither was run on all-scoped contracts in both text and binary formats. This tool can be used to test mathematical relationships between Solidity instances statically and variables that allow for the detection of errors or inconsistent usage of the contracts' APIs throughout the entire codebase.

Results:

```
ERC721._checkOnERC721Received(address,address,uint256,bytes) (../../openzeppelin-contracts/contracts/token/ERC721/ERC721.sol#369-390) ignores return value by IERC721Receiver(to).onERC721Received(_msgSender(),from,tokenId,_data) (../../openzeppelin-contracts/contracts/token/ERC721/ERC721.sol#376-386)  
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unused-return
```

```
IGnarDescriptor.addManyBackgrounds(string[]).backgrounds (./interfaces/IGNARDDescriptor.sol#49) shadows:
```

```
    - IGnarDescriptor.backgrounds(uint256) (./interfaces/IGNARDDescriptor.sol#24) (function)
```

```
IGnarDescriptor.addManyBodies(bytes[]).bodies (./interfaces/IGNARDDescriptor.sol#51) shadows:
```

```
    - IGnarDescriptor.bodies(uint256) (./interfaces/IGNARDDescriptor.sol#26) (function)
```

```
IGnarDescriptor.addManyAccessories(bytes[]).accessories (./interfaces/IGNARDDescriptor.sol#53) shadows:
```

```
    - IGnarDescriptor.accessories(uint256) (./interfaces/IGNARDDescriptor.sol#28) (function)
```

```
IGnarDescriptor.addManyHeads(bytes[]).heads (./interfaces/IGNARDDescriptor.sol#55) shadows:
```

```

- IGnarDescriptor.heads(uint256) (./interfaces/IGNARDescriptor.sol
#30) (function)
IGnarDescriptor.addManyGlasses(bytes[]).glasses (./interfaces/IGNARDescriptor.sol#57) shadows:
- IGnarDescriptor.glasses(uint256) (./interfaces/IGNARDescriptor.sol#32) (function)
IGnarDescriptor.addGlasses(bytes).glasses (./interfaces/IGNARDescriptor.sol#70) shadows:
- IGnarDescriptor.glasses(uint256) (./interfaces/IGNARDescriptor.sol#32) (function)
IGnarDescriptor.setBaseURI(string).baseURI (./interfaces/IGNARDescriptor.sol#76) shadows:
- IGnarDescriptor.baseURI() (./interfaces/IGNARDescriptor.sol#17)
(function)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```

SkateContractV2.constructor(address,IGnarDescriptor,IGnarSeeder,uint256)._m
inter (SkateContractV2.sol#80) lacks a zero-check on :
- minter = _minter (SkateContractV2.sol#85)
SkateContractV2.setMinter(address)._minter (SkateContractV2.sol#127) lacks
a zero-check on :
- minter = _minter (SkateContractV2.sol#133)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#missing-zero-address-validation
```

```

Variable 'ERC721._checkOnERC721Received(address,address,uint256,bytes).retv
al (../../openzeppelin-contracts/contracts/token/ERC721/ERC721.sol#376)' in
ERC721._checkOnERC721Received(address,address,uint256,bytes) (../../openze
ppelin-contracts/contracts/token/ERC721/ERC721.sol#369-390) potentially use
d before declaration: retval == IERC721Receiver.onERC721Received.selector (
../../openzeppelin-contracts/contracts/token/ERC721/ERC721.sol#377)
Variable 'ERC721._checkOnERC721Received(address,address,uint256,bytes).reas
on (../../openzeppelin-contracts/contracts/token/ERC721/ERC721.sol#378)' in
```

ERC721._checkOnERC721Received(address,address,uint256,bytes) (../../openzeppelin-contracts/contracts/token/ERC721/ERC721.sol#369-390) potentially used before declaration: reason.length == 0 (../../openzeppelin-contracts/contracts/token/ERC721/ERC721.sol#379)
Variable 'ERC721._checkOnERC721Received(address,address,uint256,bytes).reason' (../../openzeppelin-contracts/contracts/token/ERC721/ERC721.sol#378)' in ERC721._checkOnERC721Received(address,address,uint256,bytes) (../../openzeppelin-contracts/contracts/token/ERC721/ERC721.sol#369-390) potentially used before declaration: revert(uint256,uint256)(32 + reason,mload(uint256)(reason)) (../../openzeppelin-contracts/contracts/token/ERC721/ERC721.sol#383)
Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#pre-declaration-usage-of-local-variables>

ERC721._checkOnERC721Received(address,address,uint256,bytes) (../../openzeppelin-contracts/contracts/token/ERC721/ERC721.sol#369-390) uses assembly
- INLINE ASM (../../openzeppelin-contracts/contracts/token/ERC721/ERC721.sol#382-384)
Address.isContract(address) (../../openzeppelin-contracts/contracts/utils/Address.sol#26-36) uses assembly
- INLINE ASM (../../openzeppelin-contracts/contracts/utils/Address.sol#32-34)
Address.verifyCallResult(bool,bytes,string) (../../openzeppelin-contracts/contracts/utils/Address.sol#195-215) uses assembly
- INLINE ASM (../../openzeppelin-contracts/contracts/utils/Address.sol#207-210)
Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#assembly-usage>

Different versions of Solidity is used:

- Version used: ['^0.8.0', '^0.8.6']
- ^0.8.6 (./interfaces/IGNARDescriptor.sol#2)
- ^0.8.6 (./interfaces/IGNARSeeder.sol#2)
- ^0.8.6 (./interfaces/ISkateContractV2.sol#18)
- ^0.8.0 (../../openzeppelin-contracts/contracts/access/Ownable.sol

```

#3)
  - ^0.8.0 (../../openzeppelin-contracts/contracts/token/ERC721/ERC72
1.sol#3)
    - ^0.8.0 (../../openzeppelin-contracts/contracts/token/ERC721/IERC7
21.sol#3)
      - ^0.8.0 (../../openzeppelin-contracts/contracts/token/ERC721/IERC7
21Receiver.sol#3)
        - ^0.8.0 (../../openzeppelin-contracts/contracts/token/ERC721/exten
sions/ERC721Enumerable.sol#3)
          - ^0.8.0 (../../openzeppelin-contracts/contracts/token/ERC721/exten
sions/IERC721Enumerable.sol#3)
            - ^0.8.0 (../../openzeppelin-contracts/contracts/token/ERC721/exten
sions/IERC721Metadata.sol#3)
              - ^0.8.0 (../../openzeppelin-contracts/contracts/utils/Address.sol#
3)
                - ^0.8.0 (../../openzeppelin-contracts/contracts/utils/Context.sol#
3)
                  - ^0.8.0 (../../openzeppelin-contracts/contracts/utils/Strings.sol#
3)
                    - ^0.8.0 (../../openzeppelin-contracts/contracts/utils/introspectio
n/ERC165.sol#3)
                      - ^0.8.0 (../../openzeppelin-contracts/contracts/utils/introspectio
n/IERC165.sol#3)
                        - ^0.8.6 (SkateContractV2.sol#12)

```

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#di
fferent-pragma-directives-are-used>

```

Address.functionCall(address,bytes) (../../openzeppelin-contracts/contracts
/utils/Address.sol#79-81) is never used and should be removed
Address.functionCall(address,bytes,string) (../../openzeppelin-contracts/co
ntracts/utils/Address.sol#89-95) is never used and should be removed
Address.functionCallWithValue(address,bytes,uint256) (../../openzeppelin-co
ntracts/contracts/utils/Address.sol#108-114) is never used and should be re
moved

```

```
Address.functionCallWithValue(address,bytes,uint256,string) (../../openzeppelin-contracts/contracts/utils/Address.sol#122-133) is never used and should be removed
Address.functionDelegateCall(address,bytes) (../../openzeppelin-contracts/contracts/utils/Address.sol#168-170) is never used and should be removed
Address.functionDelegateCall(address,bytes,string) (../../openzeppelin-contracts/contracts/utils/Address.sol#178-187) is never used and should be removed
Address.functionStaticCall(address,bytes) (../../openzeppelin-contracts/contracts/utils/Address.sol#141-143) is never used and should be removed
Address.functionStaticCall(address,bytes,string) (../../openzeppelin-contracts/contracts/utils/Address.sol#151-160) is never used and should be removed
Address.sendValue(address,uint256) (../../openzeppelin-contracts/contracts/utils/Address.sol#54-59) is never used and should be removed
Address.verifyCallResult(bool,bytes,string) (../../openzeppelin-contracts/contracts/utils/Address.sol#195-215) is never used and should be removed
Context._msgData() (../../openzeppelin-contracts/contracts/utils/Context.sol#20-22) is never used and should be removed
ERC721._baseURI() (../../openzeppelin-contracts/contracts/token/ERC721/ERC721.sol#104-106) is never used and should be removed
ERC721._safeMint(address,uint256) (../../openzeppelin-contracts/contracts/token/ERC721/ERC721.sol#250-252) is never used and should be removed
ERC721._safeMint(address,uint256,bytes) (../../openzeppelin-contracts/contracts/token/ERC721/ERC721.sol#258-268) is never used and should be removed
Strings.toHexString(uint256) (../../openzeppelin-contracts/contracts/utils/Strings.sol#39-50) is never used and should be removed
Strings.toHexString(uint256,uint256) (../../openzeppelin-contracts/contracts/utils/Strings.sol#55-65) is never used and should be removed
Strings.toString(uint256) (../../openzeppelin-contracts/contracts/utils/Strings.sol#14-34) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code
```

```
Pragma version^0.8.6 (../interfaces/IGNARDescriptor.sol#2) necessitates a v  
ersion too recent to be trusted. Consider deploying with 0.6.12/0.7.6  
Pragma version^0.8.6 (../interfaces/IGNARSeeder.sol#2) necessitates a versi  
on too recent to be trusted. Consider deploying with 0.6.12/0.7.6  
Pragma version^0.8.6 (../interfaces/ISkateContractV2.sol#18) necessitates a  
version too recent to be trusted. Consider deploying with 0.6.12/0.7.6  
Pragma version^0.8.0 (../../openzeppelin-contracts/contracts/access/Ownable  
.sol#3) necessitates a version too recent to be trusted. Consider deploying  
with 0.6.12/0.7.6  
Pragma version^0.8.0 (../../openzeppelin-contracts/contracts/token/ERC721/E  
RC721.sol#3) necessitates a version too recent to be trusted. Consider depl  
oying with 0.6.12/0.7.6  
Pragma version^0.8.0 (../../openzeppelin-contracts/contracts/token/ERC721/I  
ERC721.sol#3) necessitates a version too recent to be trusted. Consider dep  
loying with 0.6.12/0.7.6  
Pragma version^0.8.0 (../../openzeppelin-contracts/contracts/token/ERC721/I  
ERC721Receiver.sol#3) necessitates a version too recent to be trusted. Cons  
ider deploying with 0.6.12/0.7.6  
Pragma version^0.8.0 (../../openzeppelin-contracts/contracts/token/ERC721/e  
xtensions/ERC721Enumerable.sol#3) necessitates a version too recent to be t  
rusted. Consider deploying with 0.6.12/0.7.6  
Pragma version^0.8.0 (../../openzeppelin-contracts/contracts/token/ERC721/e  
xtensions/IERC721Enumerable.sol#3) necessitates a version too recent to be  
trusted. Consider deploying with 0.6.12/0.7.6  
Pragma version^0.8.0 (../../openzeppelin-contracts/contracts/token/ERC721/e  
xtensions/IERC721Metadata.sol#3) necessitates a version too recent to be tr  
usted. Consider deploying with 0.6.12/0.7.6  
Pragma version^0.8.0 (../../openzeppelin-contracts/contracts/utils/Address.  
sol#3) necessitates a version too recent to be trusted. Consider deploying  
with 0.6.12/0.7.6  
Pragma version^0.8.0 (../../openzeppelin-contracts/contracts/utils/Context.  
sol#3) necessitates a version too recent to be trusted. Consider deploying  
with 0.6.12/0.7.6  
Pragma version^0.8.0 (../../openzeppelin-contracts/contracts/utils/Strings.
```

sol#3) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6

Pragma version^0.8.0 (../../openzeppelin-contracts/contracts/utils/introspection/ERC165.sol#3) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6

Pragma version^0.8.0 (../../openzeppelin-contracts/contracts/utils/introspection/IERC165.sol#3) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6

Pragma version^0.8.6 (SkateContractV2.sol#12) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6

solc-0.8.6 is not recommended for deployment

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity>

Low level call in `Address.sendValue(address,uint256)` (../../openzeppelin-contracts/contracts/utils/Address.sol#54-59):

- (success) = recipient.call{value: amount}() (../../openzeppelin-contracts/contracts/utils/Address.sol#57)

Low level call in `Address.functionCallWithValue(address,bytes,uint256,string)` (../../openzeppelin-contracts/contracts/utils/Address.sol#122-133):

- (success,returndata) = target.call{value: value}(data) (../../openzeppelin-contracts/contracts/utils/Address.sol#131)

Low level call in `Address.functionStaticCall(address,bytes,string)` (../../openzeppelin-contracts/contracts/utils/Address.sol#151-160):

- (success,returndata) = target.staticcall(data) (../../openzeppelin-contracts/contracts/utils/Address.sol#158)

Low level call in `Address.functionDelegateCall(address,bytes,string)` (../../openzeppelin-contracts/contracts/utils/Address.sol#178-187):

- (success,returndata) = target.delegatecall(data) (../../openzeppelin-contracts/contracts/utils/Address.sol#185)

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls>

Parameter `ERC721.safeTransferFrom(address,address,uint256,bytes)._data` (../

```
./openzeppelin-contracts/contracts/token/ERC721/ERC721.sol#181) is not in
mixedCase

Parameter SkateContractV2.setMinter(address)._minter (SkateContractV2.sol#1
27) is not in mixedCase

Parameter SkateContractV2.setDescriptor(IGnarDescriptor)._descriptor (Skate
ContractV2.sol#152) is not in mixedCase

Parameter SkateContractV2.setSeeder(IGnarSeeder)._seeder (SkateContractV2.s
ol#182) is not in mixedCase

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#co
nformance-to-solidity-naming-conventions
```

```
renounceOwnership() should be declared external:
    - Ownable.renounceOwnership() (../../openzeppelin-contracts/contrac
ts/access/Ownable.sol#53-55)

transferOwnership(address) should be declared external:
    - Ownable.transferOwnership(address) (../../openzeppelin-contracts/
contracts/access/Ownable.sol#61-64)

name() should be declared external:
    - ERC721.name() (../../openzeppelin-contracts/contracts/token/ERC72
1/ERC721.sol#78-80)

symbol() should be declared external:
    - ERC721.symbol() (../../openzeppelin-contracts/contracts/token/ERC
721/ERC721.sol#85-87)

tokenURI(uint256) should be declared external:
    - ERC721.tokenURI(uint256) (../../openzeppelin-contracts/contrac
ts/token/ERC721/ERC721.sol#92-97)
    - SkateContractV2.tokenURI(uint256) (SkateContractV2.sol#113-121)

approve(address,uint256) should be declared external:
    - ERC721.approve(address,uint256) (../../openzeppelin-contracts/con
tracts/token/ERC721/ERC721.sol#111-121)

setApprovalForAll(address,bool) should be declared external:
    - ERC721.setApprovalForAll(address,bool) (../../openzeppelin-contra
cts/contracts/token/ERC721/ERC721.sol#135-140)

transferFrom(address,address,uint256) should be declared external:
```

- ERC721.transferFrom(address,address,uint256) (../../openzeppelin-contracts/contracts/token/ERC721/ERC721.sol#152-161)
safeTransferFrom(address,address,uint256) should be declared `external`:
 - ERC721.safeTransferFrom(address,address,uint256) (../../openzeppelin-contracts/contracts/token/ERC721/ERC721.sol#166-172)
- tokenOfOwnerByIndex(address,uint256) should be declared `external`:
 - ERC721Enumerable.tokenOfOwnerByIndex(address,uint256) (../../openzeppelin-contracts/contracts/token/ERC721/extensions/ERC721Enumerable.sol#36-39)
- tokenByIndex(uint256) should be declared `external`:
 - ERC721Enumerable.tokenByIndex(uint256) (../../openzeppelin-contracts/contracts/token/ERC721/extensions/ERC721Enumerable.sol#51-54)
- mint() should be declared `external`:
 - SkateContractV2.mint() (SkateContractV2.sol#95-97)
- burn(uint256) should be declared `external`:
 - SkateContractV2.burn(uint256) (SkateContractV2.sol#102-107)

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#public-function-that-could-be-declared-external>

SkateContractV2.sol analyzed (16 contracts with 75 detectors), 72 result(s) found

ERC1967UpgradeUpgradeable._functionDelegateCall(address,bytes) (../../openzeppelin-contracts-upgradeable/contracts/proxy/ERC1967/ERC1967UpgradeUpgradeable.sol#198-204) uses delegatecall to a input-controlled function id

- (success,returndata) = target.delegatecall(data) (../../openzeppelin-contracts-upgradeable/contracts/proxy/ERC1967/ERC1967UpgradeUpgradeable.sol#202)

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#controlled-delegatecall>

Reentrancy in SkateContractV2AuctionHouse.createBid(uint256,uint8,uint8) (SkateContractV2AuctionHouse.sol#111-147):

External calls:

- _safeTransferETHWithFallback(lastBidder,_auction.amount) (SkateCo

```

ntractV2AuctionHouse.sol#133)
    - (success) = to.call{gas: 30_000,value: value}(new bytes(0
)) (SkateContractV2AuctionHouse.sol#323)
        - IWETH(weth).deposit{value: amount}() (SkateContractV2Auct
ionHouse.sol#310)
        - IERC20(weth).transfer(to,amount) (SkateContractV2AuctionH
ouse.sol#311)

    External calls sending eth:
    - _safeTransferETHWithFallback(lastBidder,_auction.amount) (SkateCo
ntractV2AuctionHouse.sol#133)
        - (success) = to.call{gas: 30_000,value: value}(new bytes(0
)) (SkateContractV2AuctionHouse.sol#323)
        - IWETH(weth).deposit{value: amount}() (SkateContractV2Auct
ionHouse.sol#310)

    State variables written after the call(s):
    - auction.amount = msg.value (SkateContractV2AuctionHouse.sol#136)
    - auction.bidder = address(msg.sender) (SkateContractV2AuctionHouse
.sol#137)
    - auction.skatePercent = skatePercent (SkateContractV2AuctionHouse.
sol#138)
    - auction.daoPercent = daoPercent (SkateContractV2AuctionHouse.sol#
139)

Reentrancy in SkateContractV2AuctionHouse.settleCurrentAndCreateNewAuction(
) (SkateContractV2AuctionHouse.sol#89–97):

    External calls:
    - _settleAuction() (SkateContractV2AuctionHouse.sol#95)
        - (success) = to.call{gas: 30_000,value: value}(new bytes(0
)) (SkateContractV2AuctionHouse.sol#323)
        - IWETH(weth).deposit{value: amount}() (SkateContractV2Auct
ionHouse.sol#310)
        - IERC20(weth).transfer(to,amount) (SkateContractV2AuctionH
ouse.sol#311)
        - gnars.burn(_auction.gnarId) (SkateContractV2AuctionHouse.
sol#281)

```

```

        - gnars.transferFrom(address(this), _auction.bidder, _auction
.anarId) (SkateContractV2AuctionHouse.sol#283)
        - _createAuction() (SkateContractV2AuctionHouse.sol#96)
            - gnars.mint() (SkateContractV2AuctionHouse.sol#246-264)

External calls sending eth:
- _settleAuction() (SkateContractV2AuctionHouse.sol#95)
    - (success) = to.call{gas: 30_000,value: value}(new bytes(0
)) (SkateContractV2AuctionHouse.sol#323)
    - IWETH(weth).deposit{value: amount}() (SkateContractV2Auct
ionHouse.sol#310)

State variables written after the call(s):
- _createAuction() (SkateContractV2AuctionHouse.sol#96)
    - _paused = true (../../openzeppelin-contracts-upgradeable/
contracts/security/PausableUpgradeable.sol#81)
    - _createAuction() (SkateContractV2AuctionHouse.sol#96)
        - auction = Auction(gnarId,0,startBlock,endBlock,address(0)
,50,50,false) (SkateContractV2AuctionHouse.sol#250-259)

```

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities>

OwnableUpgradeable.__gap (../../openzeppelin-contracts-upgradeable/contract
s/access/OwnableUpgradeable.sol#87) shadows:

- ContextUpgradeable.__gap (../../openzeppelin-contracts-upgradeabl
e/contracts/utils/ContextUpgradeable.sol#36)

UUPSUpgradeable.__gap (../../openzeppelin-contracts-upgradeable/contrac
ts/proxy/utils/UUPSUpgradeable.sol#107) shadows:

- ERC1967UpgradeUpgradeable.__gap (../../openzeppelin-contracts-upg
radeable/contracts/proxy/ERC1967/ERC1967UpgradeUpgradeable.sol#211)

PausableUpgradeable.__gap (../../openzeppelin-contracts-upgradeable/contrac
ts/security/PausableUpgradeable.sol#102) shadows:

- ContextUpgradeable.__gap (../../openzeppelin-contracts-upgradeabl
e/contracts/utils/ContextUpgradeable.sol#36)

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#st
ate-variable-shadowing>

```
SkateContractV2AuctionHouse._safeTransferETHWithFallback(address,uint256) (SkateContractV2AuctionHouse.sol#308-313) ignores return value by IERC20(wet h).transfer(to,amount) (SkateContractV2AuctionHouse.sol#311)
```

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#unchecked-transfer>

SkateContractV2AuctionHouse (SkateContractV2AuctionHouse.sol#24-326) is an upgradeable contract that does not protect its initiliaze functions: SkateContractV2AuctionHouse.initialize(address,address,ISkateContractV2,address,uint256,uint8) (SkateContractV2AuctionHouse.sol#62-84). Anyone can delete the contract with: UUPSUpgradeable.upgradeTo(address) (../../openzeppelin-contracts-upgradeable/contracts/proxy/utils/UUPSUpgradeable.sol#72-75)UUPSUpgradeable.upgradeToAndCall(address,bytes) (../../openzeppelin-contracts-upgradeable/contracts/proxy/utils/UUPSUpgradeable.sol#85-88)**Reference:** <https://github.com/crytic/slither/wiki/Detector-Documentation#unprotected-upgradeable-contract>

SkateContractV2AuctionHouse._settleAuction() (SkateContractV2AuctionHouse.sol#271-303) uses a dangerous strict equality:

```
- _auction.bidder == address(0) (SkateContractV2AuctionHouse.sol#280)
```

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#dangerous-strict-equalities>

SkateContractV2AuctionHouse._createAuction().gnarId (SkateContractV2AuctionHouse.sol#246) is a local variable never initialized

ERC1967UpgradeUpgradeable._upgradeToAndCallUUPS(address,bytes,bool).slot (../../openzeppelin-contracts-upgradeable/contracts/proxy/ERC1967/ERC1967Upgradeable.sol#98) is a local variable never initialized

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#uninitialized-local-variables>

```
ERC1967UpgradeUpgradeable._upgradeToAndCallUUPS(address,bytes,bool) (../../
```

```
openzeppelin-contracts-upgradeable/contracts/proxy/ERC1967/ERC1967UpgradeUp  
gradeable.sol#87-105) ignores return value by IERC1822ProxiableUpgradeable(  
newImplementation).proxiableUUID() (../../openzeppelin-contracts-upgradeabl  
e/contracts/proxy/ERC1967/ERC1967UpgradeUpgradeable.sol#98-102)  
SkateContractV2AuctionHouse._createAuction() (SkateContractV2AuctionHouse.s  
ol#245-265) ignores return value by gnars.mint() (SkateContractV2AuctionHou  
se.sol#246-264)
```

Reference: [https://github.com/crytic/slither/wiki/Detector-Documentation#un
used-return](https://github.com/crytic/slither/wiki/Detector-Documentation#un
used-return)

```
IGnarDescriptor.addManyBackgrounds(string[]).backgrounds (../interfaces/IGN  
ARDDescriptor.sol#49) shadows:  
    - IGnarDescriptor.backgrounds(uint256) (../interfaces/IGNARDescript  
or.sol#24) (function)  
IGnarDescriptor.addManyBodies(bytes[]).bodies (../interfaces/IGNARDescripto  
r.sol#51) shadows:  
    - IGnarDescriptor.bodies(uint256) (../interfaces/IGNARDescriptor.so  
l#26) (function)  
IGnarDescriptor.addManyAccessories(bytes[]).accessories (../interfaces/IGNA  
RDescriptor.sol#53) shadows:  
    - IGnarDescriptor.accessories(uint256) (../interfaces/IGNARDescript  
or.sol#28) (function)  
IGnarDescriptor.addManyHeads(bytes[]).heads (../interfaces/IGNARDescriptor.  
sol#55) shadows:  
    - IGnarDescriptor.heads(uint256) (../interfaces/IGNARDescriptor.sol  
#30) (function)  
IGnarDescriptor.addManyGlasses(bytes[]).glasses (../interfaces/IGNARDescrip  
tor.sol#57) shadows:  
    - IGnarDescriptor.glasses(uint256) (../interfaces/IGNARDescriptor.s  
ol#32) (function)  
IGnarDescriptor.addGlasses(bytes).glasses (../interfaces/IGNARDescriptor.s  
ol#70) shadows:  
    - IGnarDescriptor.glasses(uint256) (../interfaces/IGNARDescriptor.s  
ol#32) (function)
```

```
IGnarDescriptor.setBaseURI(string).baseURI (.../interfaces/IGNARDescriptor.sol#76) shadows:
```

```
- IGnarDescriptor.baseURI() (.../interfaces/IGNARDescriptor.sol#17)  
(function)
```

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing>

```
SkateContractV2AuctionHouse.initialize(address,address,ISkateContractV2,address,uint256,uint8)._skate (SkateContractV2AuctionHouse.sol#63) lacks a zero-check on :
```

```
- skate = _skate (SkateContractV2AuctionHouse.sol#77)
```

```
SkateContractV2AuctionHouse.initialize(address,address,ISkateContractV2,address,uint256,uint8)._dao (SkateContractV2AuctionHouse.sol#64) lacks a zero-check on :
```

```
- dao = _dao (SkateContractV2AuctionHouse.sol#78)
```

```
SkateContractV2AuctionHouse.initialize(address,address,ISkateContractV2,address,uint256,uint8)._weth (SkateContractV2AuctionHouse.sol#66) lacks a zero-check on :
```

```
- weth = _weth (SkateContractV2AuctionHouse.sol#80)
```

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#missing-zero-address-validation>

Variable 'ERC1967UpgradeUpgradeable._upgradeToAndCallUUPS(address,bytes,bool).slot (.../openzeppelin-contracts-upgradeable/contracts/proxy/ERC1967/ERC1967UpgradeUpgradeable.sol#98)' in ERC1967UpgradeUpgradeable._upgradeToAndCallUUPS(address,bytes,bool) (.../openzeppelin-contracts-upgradeable/contracts/proxy/ERC1967/ERC1967UpgradeUpgradeable.sol#87-105) potentially used before declaration: require(bool,string)(slot == _IMPLEMENTATION_SLOT,ERC1967Upgrade: unsupported proxiableUUID) (.../openzeppelin-contracts-upgradeable/contracts/proxy/ERC1967/ERC1967UpgradeUpgradeable.sol#99)

Variable 'SkateContractV2AuctionHouse._createAuction().gnarId (SkateContractV2AuctionHouse.sol#246)' in SkateContractV2AuctionHouse._createAuction() (SkateContractV2AuctionHouse.sol#245-265) potentially used before declaration: auction = Auction(gnarId,0,startBlock,endBlock,address(0),50,50,false) (

SkateContractV2AuctionHouse.sol#250-259)

Variable 'SkateContractV2AuctionHouse._createAuction().gnarId (SkateContractV2AuctionHouse.sol#246)' in SkateContractV2AuctionHouse._createAuction() (SkateContractV2AuctionHouse.sol#245-265) potentially used before declaration: AuctionCreated(gnarId,startBlock,endBlock,`block.timestamp`) (SkateContractV2AuctionHouse.sol#261)

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#pre-declaration-usage-of-local-variables>

Reentrancy in SkateContractV2AuctionHouse._createAuction() (SkateContractV2AuctionHouse.sol#245-265):

External calls:

- gnars.mint() (SkateContractV2AuctionHouse.sol#246-264)

State variables written after the `call(s)`:

- `_pause()` (SkateContractV2AuctionHouse.sol#263)
 - `_paused = true` (../../openzeppelin-contracts-upgradeable/contracts/security/PausableUpgradeable.sol#81)
 - `auction = Auction(gnarId,0,startBlock,endBlock,address(0),50,50, false)` (SkateContractV2AuctionHouse.sol#250-259)

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-2>

Reentrancy in SkateContractV2AuctionHouse._createAuction() (SkateContractV2AuctionHouse.sol#245-265):

External calls:

- gnars.mint() (SkateContractV2AuctionHouse.sol#246-264)

Event emitted after the `call(s)`:

- `AuctionCreated(gnarId,startBlock,endBlock,block.timestamp)` (SkateContractV2AuctionHouse.sol#261)
 - `Paused(_msgSender())` (../../openzeppelin-contracts-upgradeable/contracts/security/PausableUpgradeable.sol#82)
 - `_pause()` (SkateContractV2AuctionHouse.sol#263)

Reentrancy in SkateContractV2AuctionHouse._settleAuction() (SkateContractV2AuctionHouse.sol#271-303):

External calls:

- gnars.burn(_auction.gnarId) (SkateContractV2AuctionHouse.sol#281)
- gnars.transferFrom(address(this),_auction.bidder,_auction.gnarId) (SkateContractV2AuctionHouse.sol#283)
 - _safeTransferETHWithFallback(skate,(_auction.amount * _auction.skatePercent) / 100) (SkateContractV2AuctionHouse.sol#287-290)
 - (success) = to.call{gas: 30_000,value: value}(new bytes(0)) (SkateContractV2AuctionHouse.sol#323)
 - IWETH(weth).deposit{value: amount}() (SkateContractV2AuctionHouse.sol#310)
 - IERC20(weth).transfer(to,amount) (SkateContractV2AuctionHouse.sol#311)
 - _safeTransferETHWithFallback(dao,(_auction.amount * _auction.daoPercent) / 100) (SkateContractV2AuctionHouse.sol#291-294)
 - (success) = to.call{gas: 30_000,value: value}(new bytes(0)) (SkateContractV2AuctionHouse.sol#323)
 - IWETH(weth).deposit{value: amount}() (SkateContractV2AuctionHouse.sol#310)
 - IERC20(weth).transfer(to,amount) (SkateContractV2AuctionHouse.sol#311)

External calls sending eth:

- _safeTransferETHWithFallback(skate,(_auction.amount * _auction.skatePercent) / 100) (SkateContractV2AuctionHouse.sol#287-290)
 - (success) = to.call{gas: 30_000,value: value}(new bytes(0)) (SkateContractV2AuctionHouse.sol#323)
 - IWETH(weth).deposit{value: amount}() (SkateContractV2AuctionHouse.sol#310)
- _safeTransferETHWithFallback(dao,(_auction.amount * _auction.daoPercent) / 100) (SkateContractV2AuctionHouse.sol#291-294)
 - (success) = to.call{gas: 30_000,value: value}(new bytes(0)) (SkateContractV2AuctionHouse.sol#323)
 - IWETH(weth).deposit{value: amount}() (SkateContractV2AuctionHouse.sol#310)

Event emitted after the call(s):

- AuctionSettled(_auction.gnarId, _auction.bidder, _auction.amount, block.timestamp) (SkateContractV2AuctionHouse.sol#297-302)

Reentrancy in SkateContractV2AuctionHouse.createBid(uint256,uint8,uint8) (SkateContractV2AuctionHouse.sol#111-147):

- External calls:
 - _safeTransferETHWithFallback(lastBidder, _auction.amount) (SkateContractV2AuctionHouse.sol#133)
 - (success) = to.call{gas: 30_000,value: value}(new bytes(0)) (SkateContractV2AuctionHouse.sol#323)
 - IWETH(weth).deposit{value: amount}() (SkateContractV2AuctionHouse.sol#310)
 - IERC20(weth).transfer(to,amount) (SkateContractV2AuctionHouse.sol#311)
- External calls sending eth:
 - _safeTransferETHWithFallback(lastBidder, _auction.amount) (SkateContractV2AuctionHouse.sol#133)
 - (success) = to.call{gas: 30_000,value: value}(new bytes(0)) (SkateContractV2AuctionHouse.sol#323)
 - IWETH(weth).deposit{value: amount}() (SkateContractV2AuctionHouse.sol#310)
- Event emitted after the call(s):
 - AuctionBid(_auction.gnarId, msg.sender, msg.value, block.timestamp) (SkateContractV2AuctionHouse.sol#141-146)

Reentrancy in SkateContractV2AuctionHouse.settleCurrentAndCreateNewAuction() (SkateContractV2AuctionHouse.sol#89-97):

- External calls:
 - _settleAuction() (SkateContractV2AuctionHouse.sol#95)
 - (success) = to.call{gas: 30_000,value: value}(new bytes(0)) (SkateContractV2AuctionHouse.sol#323)
 - IWETH(weth).deposit{value: amount}() (SkateContractV2AuctionHouse.sol#310)
 - IERC20(weth).transfer(to,amount) (SkateContractV2AuctionHouse.sol#311)
 - gnars.burn(_auction.gnarId) (SkateContractV2AuctionHouse.sol#312)

```

sol#281)
    - gnars.transferFrom(address(this),_auction.bidder,_auction
.gnarId) (SkateContractV2AuctionHouse.sol#283)
    - _createAuction() (SkateContractV2AuctionHouse.sol#96)
        - gnars.mint() (SkateContractV2AuctionHouse.sol#246-264)

External calls sending eth:
    - _settleAuction() (SkateContractV2AuctionHouse.sol#95)
        - (success) = to.call{gas: 30_000,value: value}(new bytes(0
)) (SkateContractV2AuctionHouse.sol#323)
        - IWETH(weth).deposit{value: amount}() (SkateContractV2Auct
ionHouse.sol#310)

Event emitted after the call(s):
    - AuctionCreated(gnarId,startBlock,endBlock,block.timestamp) (Skate
ContractV2AuctionHouse.sol#261)
        - _createAuction() (SkateContractV2AuctionHouse.sol#96)
    - Paused(_msgSender()) (.../openzeppelin-contracts-upgradeable/co
ntracts/security/PausableUpgradeable.sol#82)
        - _createAuction() (SkateContractV2AuctionHouse.sol#96)

```

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-3>

AddressUpgradeable.verifyCallResult(bool,bytes,string) (.../openzeppelin-
contracts-upgradeable/contracts/utils/AddressUpgradeable.sol#174-194) uses
assembly

- INLINE ASM (.../openzeppelin-contracts-upgradeable/contracts/utils/AddressUpgradeable.sol#186-189)

StorageSlotUpgradeable.getAddressSlot(bytes32) (.../openzeppelin-contract
s-upgradeable/contracts/utils/StorageSlotUpgradeable.sol#52-56) uses assemb
ly

- INLINE ASM (.../openzeppelin-contracts-upgradeable/contracts/utils/StorageSlotUpgradeable.sol#53-55)

StorageSlotUpgradeable.getBooleanSlot(bytes32) (.../openzeppelin-contract
s-upgradeable/contracts/utils/StorageSlotUpgradeable.sol#61-65) uses assemb
ly

- INLINE ASM (../../openzeppelin-contracts-upgradeable/contracts/utils/StorageSlotUpgradeable.sol#62-64)
`StorageSlotUpgradeable.getBytes32Slot(bytes32) (../../openzeppelin-contracts-upgradeable/contracts/utils/StorageSlotUpgradeable.sol#70-74) uses assembly`
- INLINE ASM (../../openzeppelin-contracts-upgradeable/contracts/utils/StorageSlotUpgradeable.sol#71-73)
`StorageSlotUpgradeable.getUint256Slot(bytes32) (../../openzeppelin-contracts-upgradeable/contracts/utils/StorageSlotUpgradeable.sol#79-83) uses assembly`
- INLINE ASM (../../openzeppelin-contracts-upgradeable/contracts/utils/StorageSlotUpgradeable.sol#80-82)

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#assembly-usage>

Different versions of Solidity is used:

- Version used: ['^0.8.0', '^0.8.1', '^0.8.2', '^0.8.6']
- ^0.8.6 (./interfaces/IGNARDescriptor.sol#2)
- ^0.8.6 (./interfaces/IGNARSeeder.sol#2)
- ^0.8.6 (./interfaces/ISkateContractV2.sol#18)
- ^0.8.6 (./interfaces/ISkateContractV2AuctionHouse.sol#18)
- ^0.8.6 (./interfaces/IWETH.sol#3)
- ^0.8.0 (../../openzeppelin-contracts-upgradeable/contracts/access/OwnableUpgradeable.sol#4)
 - ^0.8.0 (./../openzeppelin-contracts-upgradeable/contracts/interfaces/draft-IERC1822Upgradeable.sol#4)
 - ^0.8.2 (../../openzeppelin-contracts-upgradeable/contracts/proxy/ERC1967/ERC1967UpgradeUpgradeable.sol#4)
 - ^0.8.0 (./../openzeppelin-contracts-upgradeable/contracts/proxy/beacon/IBeaconUpgradeable.sol#4)
 - ^0.8.0 (./../openzeppelin-contracts-upgradeable/contracts/proxy/utils/Initializable.sol#4)
 - ^0.8.0 (./../openzeppelin-contracts-upgradeable/contracts/proxy/utils/UUPSUpgradeable.sol#4)

- ^0.8.0 (../../openzeppelin-contracts-upgradeable/contracts/security/PausableUpgradeable.sol#4)
 - ^0.8.0 (../../openzeppelin-contracts-upgradeable/contracts/security/ReentrancyGuardUpgradeable.sol#4)
 - ^0.8.1 (../../openzeppelin-contracts-upgradeable/contracts/utils/AddressUpgradeable.sol#4)
 - ^0.8.0 (../../openzeppelin-contracts-upgradeable/contracts/utils/ContextUpgradeable.sol#4)
 - ^0.8.0 (../../openzeppelin-contracts-upgradeable/contracts/utils/StorageSlotUpgradeable.sol#4)
 - ^0.8.0 (../../openzeppelin-contracts/contracts/token/ERC20/IERC20.sol#3)
 - ^0.8.0 (../../openzeppelin-contracts/contracts/token/ERC721/IERC721.sol#3)
 - ^0.8.0 (../../openzeppelin-contracts/contracts/utils/introspection/IERC165.sol#3)
 - ^0.8.6 (SkateContractV2AuctionHouse.sol#13)

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#different-pragma-directives-are-used>

AddressUpgradeable.functionCall(**address, bytes**) (../../openzeppelin-contracts-upgradeable/contracts/utils/AddressUpgradeable.sol#85-87) **is never used** and should be removed

AddressUpgradeable.functionCall(**address, bytes, string**) (../../openzeppelin-contracts-upgradeable/contracts/utils/AddressUpgradeable.sol#95-101) **is never used** and should be removed

AddressUpgradeable.functionCallWithValue(**address, bytes, uint256**) (../../openzeppelin-contracts-upgradeable/contracts/utils/AddressUpgradeable.sol#114-120) **is never used** and should be removed

AddressUpgradeable.functionCallWithValue(**address, bytes, uint256, string**) (../../openzeppelin-contracts-upgradeable/contracts/utils/AddressUpgradeable.sol#128-139) **is never used** and should be removed

AddressUpgradeable.functionStaticCall(**address, bytes**) (../../openzeppelin-contracts-upgradeable/contracts/utils/AddressUpgradeable.sol#147-149) **is never used**

r used and should be removed

AddressUpgradeable.functionStaticCall(address,bytes,string) (../../openzeppelin-contracts-upgradeable/contracts/utils/AddressUpgradeable.sol#157-166) is never used and should be removed

AddressUpgradeable.sendValue(address,uint256) (../../openzeppelin-contracts-upgradeable/contracts/utils/AddressUpgradeable.sol#60-65) is never used and should be removed

ContextUpgradeable.__Context_init() (../../openzeppelin-contracts-upgradeable/contracts/utils/ContextUpgradeable.sol#18-19) is never used and should be removed

ContextUpgradeable.__Context_init_unchained() (../../openzeppelin-contracts-upgradeable/contracts/utils/ContextUpgradeable.sol#21-22) is never used and should be removed

ContextUpgradeable._msgData() (../../openzeppelin-contracts-upgradeable/contracts/utils/ContextUpgradeable.sol#27-29) is never used and should be removed

ERC1967UpgradeUpgradeable.__ERC1967Upgrade_init() (../../openzeppelin-contracts-upgradeable/contracts/proxy/ERC1967/ERC1967UpgradeUpgradeable.sol#21-22) is never used and should be removed

ERC1967UpgradeUpgradeable.__ERC1967Upgrade_init_unchained() (../../openzeppelin-contracts-upgradeable/contracts/proxy/ERC1967/ERC1967UpgradeUpgradeable.sol#24-25) is never used and should be removed

ERC1967UpgradeUpgradeable._changeAdmin(address) (../../openzeppelin-contracts-upgradeable/contracts/proxy/ERC1967/ERC1967UpgradeUpgradeable.sol#139-142) is never used and should be removed

ERC1967UpgradeUpgradeable._getAdmin() (../../openzeppelin-contracts-upgradeable/contracts/proxy/ERC1967/ERC1967UpgradeUpgradeable.sol#122-124) is never used and should be removed

ERC1967UpgradeUpgradeable._getBeacon() (../../openzeppelin-contracts-upgradeable/contracts/proxy/ERC1967/ERC1967UpgradeUpgradeable.sol#158-160) is never used and should be removed

ERC1967UpgradeUpgradeable._setAdmin(address) (../../openzeppelin-contracts-upgradeable/contracts/proxy/ERC1967/ERC1967UpgradeUpgradeable.sol#129-132) is never used and should be removed

```
ERC1967UpgradeUpgradeable._setBeacon(address) (../../openzeppelin-contracts-upgradeable/contracts/proxy/ERC1967/ERC1967UpgradeUpgradeable.sol#165-172)
  is never used and should be removed

ERC1967UpgradeUpgradeable._upgradeBeaconToAndCall(address,bytes,bool) (../../openzeppelin-contracts-upgradeable/contracts/proxy/ERC1967/ERC1967UpgradeUpgradeable.sol#180-190)
  is never used and should be removed

Initializable._disableInitializers() (../../openzeppelin-contracts-upgradeable/contracts/proxy/utils/Initializable.sol#129-131)
  is never used and should be removed

StorageSlotUpgradeable.getBytes32Slot(bytes32) (../../openzeppelin-contracts-upgradeable/contracts/utils/StorageSlotUpgradeable.sol#70-74)
  is never used and should be removed

StorageSlotUpgradeable.getUint256Slot(bytes32) (../../openzeppelin-contracts-upgradeable/contracts/utils/StorageSlotUpgradeable.sol#79-83)
  is never used and should be removed

UUPSUpgradeable.__UUPSUpgradeable_init_unchained() (../../openzeppelin-contracts-upgradeable/contracts/proxy/utils/UUPSUpgradeable.sol#26-27)
  is never used and should be removed

UUPSUpgradeable._authorizeUpgrade(address) (../../openzeppelin-contracts-upgradeable/contracts/proxy/utils/UUPSUpgradeable.sol#100)
  is never used and should be removed

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code
```

```
Pragma version^0.8.6 (./interfaces/IGNARDescriptor.sol#2) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6

Pragma version^0.8.6 (./interfaces/IGNARSeeder.sol#2) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6

Pragma version^0.8.6 (./interfaces/ISkateContractV2.sol#18) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6

Pragma version^0.8.6 (./interfaces/ISkateContractV2AuctionHouse.sol#18) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6

Pragma version^0.8.6 (./interfaces/IWETH.sol#3) necessitates a version too
```

recent to be trusted. Consider deploying `with` 0.6.12/0.7.6

`Pragma version^0.8.0 (../../openzeppelin-contracts-upgradeable/contracts/access/OwnableUpgradeable.sol#4)` necessitates a version too recent to be trusted. Consider deploying `with` 0.6.12/0.7.6

`Pragma version^0.8.0 (../../openzeppelin-contracts-upgradeable/contracts/interfaces/draft-IERC1822Upgradeable.sol#4)` necessitates a version too recent to be trusted. Consider deploying `with` 0.6.12/0.7.6

`Pragma version^0.8.2 (../../openzeppelin-contracts-upgradeable/contracts/proxy/ERC1967/ERC1967Upgradeable.sol#4)` necessitates a version too recent to be trusted. Consider deploying `with` 0.6.12/0.7.6

`Pragma version^0.8.0 (../../openzeppelin-contracts-upgradeable/contracts/proxy/beacon/IBeaconUpgradeable.sol#4)` necessitates a version too recent to be trusted. Consider deploying `with` 0.6.12/0.7.6

`Pragma version^0.8.0 (../../openzeppelin-contracts-upgradeable/contracts/proxy/utils/Initializable.sol#4)` necessitates a version too recent to be trusted. Consider deploying `with` 0.6.12/0.7.6

`Pragma version^0.8.0 (../../openzeppelin-contracts-upgradeable/contracts/proxy/utils/UUPSUpgradeable.sol#4)` necessitates a version too recent to be trusted. Consider deploying `with` 0.6.12/0.7.6

`Pragma version^0.8.0 (../../openzeppelin-contracts-upgradeable/contracts/security/PausableUpgradeable.sol#4)` necessitates a version too recent to be trusted. Consider deploying `with` 0.6.12/0.7.6

`Pragma version^0.8.0 (../../openzeppelin-contracts-upgradeable/contracts/security/ReentrancyGuardUpgradeable.sol#4)` necessitates a version too recent to be trusted. Consider deploying `with` 0.6.12/0.7.6

`Pragma version^0.8.1 (../../openzeppelin-contracts-upgradeable/contracts/utils/AddressUpgradeable.sol#4)` necessitates a version too recent to be trusted. Consider deploying `with` 0.6.12/0.7.6

`Pragma version^0.8.0 (../../openzeppelin-contracts-upgradeable/contracts/utils/ContextUpgradeable.sol#4)` necessitates a version too recent to be trusted. Consider deploying `with` 0.6.12/0.7.6

`Pragma version^0.8.0 (../../openzeppelin-contracts-upgradeable/contracts/utils/StorageSlotUpgradeable.sol#4)` necessitates a version too recent to be trusted. Consider deploying `with` 0.6.12/0.7.6

`Pragma version^0.8.0 (../../openzeppelin-contracts/contracts/token/ERC20/IERC20.sol#3)` necessitates a version too recent to be trusted. Consider deploying `with` 0.6.12/0.7.6

`Pragma version^0.8.0 (../../openzeppelin-contracts/contracts/token/ERC721/IERC721.sol#3)` necessitates a version too recent to be trusted. Consider deploying `with` 0.6.12/0.7.6

`Pragma version^0.8.0 (../../openzeppelin-contracts/contracts/utils/introspection/IERC165.sol#3)` necessitates a version too recent to be trusted. Consider deploying `with` 0.6.12/0.7.6

`Pragma version^0.8.6 (SkateContractV2AuctionHouse.sol#13)` necessitates a version too recent to be trusted. Consider deploying `with` 0.6.12/0.7.6
solc-0.8.6 `is not recommended for deployment`

`Reference:` <https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity>

Low level call in `ERC1967UpgradeUpgradeable._functionDelegateCall(address, bytes) (../../openzeppelin-contracts-upgradeable/contracts/proxy/ERC1967/ERC1967UpgradeUpgradeable.sol#198-204)`:

- `(success,returndata) = target.delegatecall(data) (../../openzeppelin-contracts-upgradeable/contracts/proxy/ERC1967/ERC1967UpgradeUpgradeable.sol#202)`

Low level call in `AddressUpgradeable.sendValue(address,uint256) (../../openzeppelin-contracts-upgradeable/contracts/utils/AddressUpgradeable.sol#60-65)`:

- `(success) = recipient.call{value: amount}() (../../openzeppelin-contracts-upgradeable/contracts/utils/AddressUpgradeable.sol#63)`

Low level call in `AddressUpgradeable.functionCallWithValue(address,bytes,uint256,string) (../../openzeppelin-contracts-upgradeable/contracts/utils/AddressUpgradeable.sol#128-139)`:

- `(success,returndata) = target.call{value: value}(data) (../../openzeppelin-contracts-upgradeable/contracts/utils/AddressUpgradeable.sol#137)`

Low level call in `AddressUpgradeable.functionStaticCall(address,bytes,string) (../../openzeppelin-contracts-upgradeable/contracts/utils/AddressUpgradeable.sol#157-166)`:

```

- (success,returnData) = target.staticcall(data) (../../openzeppelin-
contracts-upgradeable/contracts/utils/AddressUpgradeable.sol#164)
Low level call in SkateContractV2AuctionHouse._safeTransferETH(address,uint
256) (SkateContractV2AuctionHouse.sol#319-325):
- (success) = to.call{gas: 30_000,value: value}(new bytes(0)) (Skat
eContractV2AuctionHouse.sol#323)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#lo
w-level-calls
```

Function OwnableUpgradeable.__Ownable_init() (../../openzeppelin-contracts-
upgradeable/contracts/access/OwnableUpgradeable.sol#29-31) is not in mixedCase

Function OwnableUpgradeable.__Ownable_init_unchained() (../../openzeppelin-
contracts-upgradeable/contracts/access/OwnableUpgradeable.sol#33-35) is not
in mixedCase

Variable OwnableUpgradeable.__gap (../../openzeppelin-contracts-upgradeable
/contracts/access/OwnableUpgradeable.sol#87) is not in mixedCase

Function ERC1967UpgradeUpgradeable.__ERC1967Upgrade_init() (../../openzeppelin-
contracts-upgradeable/contracts/proxy/ERC1967/ERC1967UpgradeUpgradeable
.sol#21-22) is not in mixedCase

Function ERC1967UpgradeUpgradeable.__ERC1967Upgrade_init_unchained() (../../
openzeppelin-contracts-upgradeable/contracts/proxy/ERC1967/ERC1967UpgradeU
pgradeable.sol#24-25) is not in mixedCase

Variable ERC1967UpgradeUpgradeable.__gap (../../openzeppelin-contracts-upgr
adeable/contracts/proxy/ERC1967/ERC1967UpgradeUpgradeable.sol#211) is not i
n mixedCase

Function UUPSUpgradeable.__UUPSUpgradeable_init() (../../openzeppelin-contr
acts-upgradeable/contracts/proxy/utils/UUPSUpgradeable.sol#23-24) is not in
mixedCase

Function UUPSUpgradeable.__UUPSUpgradeable_init_unchained() (../../openzepp
elin-contracts-upgradeable/contracts/proxy/utils/UUPSUpgradeable.sol#26-27)
is not in mixedCase

Variable UUPSUpgradeable.__gap (../../openzeppelin-contracts-upgradeable/co
ntracts/proxy/utils/UUPSUpgradeable.sol#107) is not in mixedCase

```

Variable UUPSUpgradeable.__self (../../openzeppelin-contracts-upgradeable/contracts/proxy/utils/UUPSUpgradeable.sol#29) is not in mixedCase
Function PausableUpgradeable.__Pausable_init() (../../openzeppelin-contracts-upgradeable/contracts/security/PausableUpgradeable.sol#34-36) is not in mixedCase
Function PausableUpgradeable.__Pausable_init_unchained() (../../openzeppelin-contracts-upgradeable/contracts/security/PausableUpgradeable.sol#38-40) is not in mixedCase
Variable PausableUpgradeable.__gap (../../openzeppelin-contracts-upgradeable/contracts/security/PausableUpgradeable.sol#102) is not in mixedCase
Function ReentrancyGuardUpgradeable.__ReentrancyGuard_init() (../../openzeppelin-contracts-upgradeable/contracts/security/ReentrancyGuardUpgradeable.sol#40-42) is not in mixedCase
Function ReentrancyGuardUpgradeable.__ReentrancyGuard_init_unchained() (../../openzeppelin-contracts-upgradeable/contracts/security/ReentrancyGuardUpgradeable.sol#44-46) is not in mixedCase
Variable ReentrancyGuardUpgradeable.__gap (../../openzeppelin-contracts-upgradeable/contracts/security/ReentrancyGuardUpgradeable.sol#74) is not in mixedCase
Function ContextUpgradeable.__Context_init() (../../openzeppelin-contracts-upgradeable/contracts/utils/ContextUpgradeable.sol#18-19) is not in mixedCase
Function ContextUpgradeable.__Context_init_unchained() (../../openzeppelin-contracts-upgradeable/contracts/utils/ContextUpgradeable.sol#21-22) is not in mixedCase
Variable ContextUpgradeable.__gap (../../openzeppelin-contracts-upgradeable/contracts/utils/ContextUpgradeable.sol#36) is not in mixedCase
Parameter SkateContractV2AuctionHouse.initialize(address,address,ISkateContractV2,address,uint256,uint8)._skate (SkateContractV2AuctionHouse.sol#63) is not in mixedCase
Parameter SkateContractV2AuctionHouse.initialize(address,address,ISkateContractV2,address,uint256,uint8)._dao (SkateContractV2AuctionHouse.sol#64) is not in mixedCase
Parameter SkateContractV2AuctionHouse.initialize(address,address,ISkateCont

```

```
ractV2,address,uint256,uint8)._gnars (SkateContractV2AuctionHouse.sol#65) i
s not in mixedCase
Parameter SkateContractV2AuctionHouse.initialize(address,address,ISkateCont
ractV2,address,uint256,uint8)._weth (SkateContractV2AuctionHouse.sol#66) is
not in mixedCase
Parameter SkateContractV2AuctionHouse.initialize(address,address,ISkateCont
ractV2,address,uint256,uint8)._reservePrice (SkateContractV2AuctionHouse.so
l#67) is not in mixedCase
Parameter SkateContractV2AuctionHouse.initialize(address,address,ISkateCont
ractV2,address,uint256,uint8)._minBidIncrementPercentage (SkateContractV2Au
ctionHouse.sol#68) is not in mixedCase
Parameter SkateContractV2AuctionHouse.setReservePrice(uint256)._reservePric
e (SkateContractV2AuctionHouse.sol#176) is not in mixedCase
Parameter SkateContractV2AuctionHouse.setMinBidIncrementPercentage(uint8)._
minBidIncrementPercentage (SkateContractV2AuctionHouse.sol#190) is not in m
ixedCase
Parameter SkateContractV2AuctionHouse.setAuctionPeriodBlocks(uint16)._aucti
onPeriodBlocks (SkateContractV2AuctionHouse.sol#202) is not in mixedCase
Parameter SkateContractV2AuctionHouse.setSkateDaoAddresses(address,address)
._skate (SkateContractV2AuctionHouse.sol#216) is not in mixedCase
Parameter SkateContractV2AuctionHouse.setSkateDaoAddresses(address,address)
._dao (SkateContractV2AuctionHouse.sol#216) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#co
nformance-to-solidity-naming-conventions
```

UUPSUpgradeable.__gap (.../openzeppelin-contracts-upgradeable/contracts/p
roxy/utils/UUPSUpgradeable.sol#107) is never used in SkateContractV2Auction
House (SkateContractV2AuctionHouse.sol#24-326)

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#un
used-state-variable>

renounceOwnership() should be declared external:

- OwnableUpgradeable renounceOwnership() (.../openzeppelin-contra
cts-upgradeable/contracts/access/OwnableUpgradeable.sol#59-61)

`transferOwnership(address)` should be declared `external`:

- `OwnableUpgradeable.transferOwnership(address)` (.../.../openzeppelin-contracts-upgradeable/contracts/access/OwnableUpgradeable.sol#67-70)

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#public-function-that-could-be-declared-external>

`SkateContractV2AuctionHouse.sol` analyzed (20 `contracts` with 75 detectors),
119 result(s) found

Conclusion:

Most of the vulnerabilities found by the analysis have already been addressed by the smart contract code review.

6 Conclusion

In this audit, we examined the design and implementation of Gnars V2 contract and discovered several issues of varying severity. Bitlabs.dev team addressed 6 issues raised in the initial report and implemented the necessary fixes, while classifying the rest as a risk with low-probability of occurrence. Shellboxes' auditors advised Bitlabs.dev Team to maintain a high level of vigilance and to keep those findings in mind in order to avoid any future complications.

7 Disclaimer

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