

# Smart Contract Security Audit Report

### Hokkaidulnu

November 2022



### Audit Details



### Audited project

Hokkaidu Inu

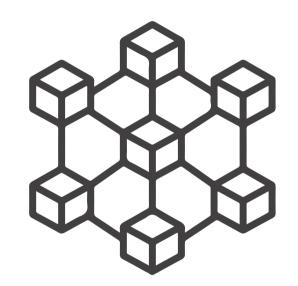


Deployer address
0xdf4fBD76a71A34C88bF428783c8849E193D4bD7A



### Client contacts

Hokkaidu Inu Team



Ethereum



#### Website

https://hokk.finance/

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### Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

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### Procedure

#### Step 1 - In-Depth Manual Review

Manual line-by-line code reviews to ensure the logic behind each function is sound and safe from various attack vectors. This is the most important and lengthy portion of the audit process (as automated tools often cannot find the nuances that lead to exploits such as flash loan attacks).

#### Step 2 - Automated Testing

Simulation of a variety of interactions with your Smart Contract on a test blockchain leveraging a combination of automated test tools and manual testing to determine if any security vulnerabilities exist.

#### Step 3 – Leadership Review

The engineers assigned to the audit will schedule meetings with our leadership team to review the contracts, any comments or findings, and ask questions to further apply adversarial thinking to discuss less common attack vectors.

#### Step 4 - Resolution of Issues

Consulting with the team to provide our recommendations to ensure the code's security and optimize its gas efficiency, if possible. We assist project team's in resolving any outstanding issues or implementing our recommendations.

#### Step 5 - Published Audit Report

Boiling down results and findings into an easy-to-read report tailored to the project. Our audit reports highlight resolved issues and any risks that exist to the project or its users, along with any remaining suggested remediation measures. Diagrams are included at the end of each report to help users understand the interactions which occur within the project.

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## Background

#### HackSafe was commissioned by Hokkaidu Inu to perform an audit of smart contracts:

• https://etherscan.io/address/0xC40AF1E4fEcFA05Ce6BAb79DcD8B373d2E436c4E#code

#### The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

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### Contract Details

#### Token contract details for 14.11.2022

Token Type	: MEME
Contract name	: Hokkaidulnu
Contract address	: 0xC40AF1E4fEcFA05Ce6BAb79DcD8B373d2E436c4E
Total supply	: 100,000,000,000,000
Token Ticker	: HOKK
Decimals	: 9
Token Holders	: 66,971
Transactions count	: 248,513
Compiler version	: v0.6.12+commit.27d51765
Contract deployer address	: 0xdf4fBD76a71A34C88bF428783c8849E193D4bD7A
Owner address	: 0x00000000000000000000000000000000000

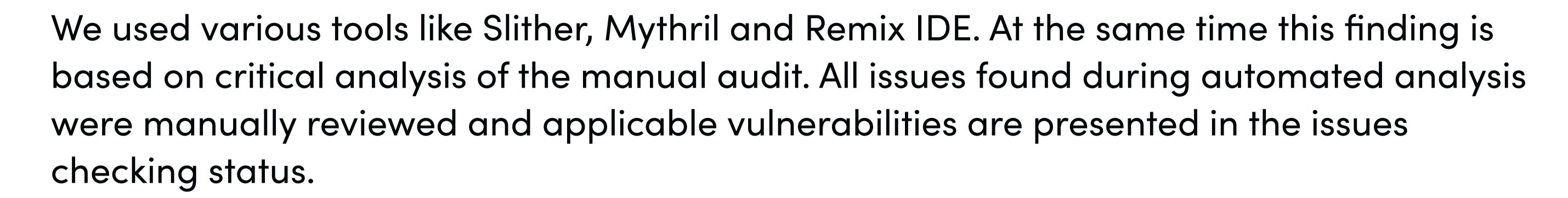
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## Audit Summary

According to the standard audit assessment, Customer`s solidity smart contracts are **"Secure".** This token contract does contain owner control, which do not make it fully decentralized as owner does have control over smart contract.

Insecure Poor secured Secure Well-secured

You are here



We found 0 critical, 0 high, 1 medium and 2 low.

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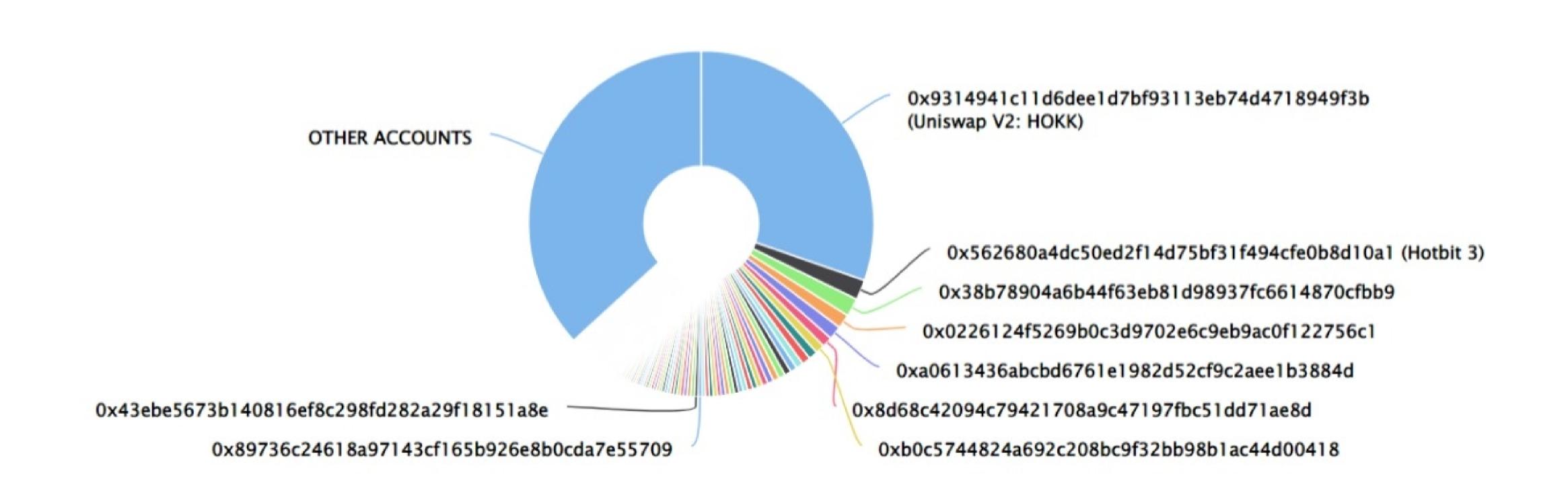
### Hokkaidulnu token Distribution

The top 100 holders collectively own 63.22% (63,224,447,292,193,400.00 Tokens) of Hokkaidu Inu

Token Total Supply: 100,000,000,000,000,000.00 Token | Total Token Holders: 66,971

#### Hokkaidu Inu Top 100 Token Holders

Source: Etherscan.io



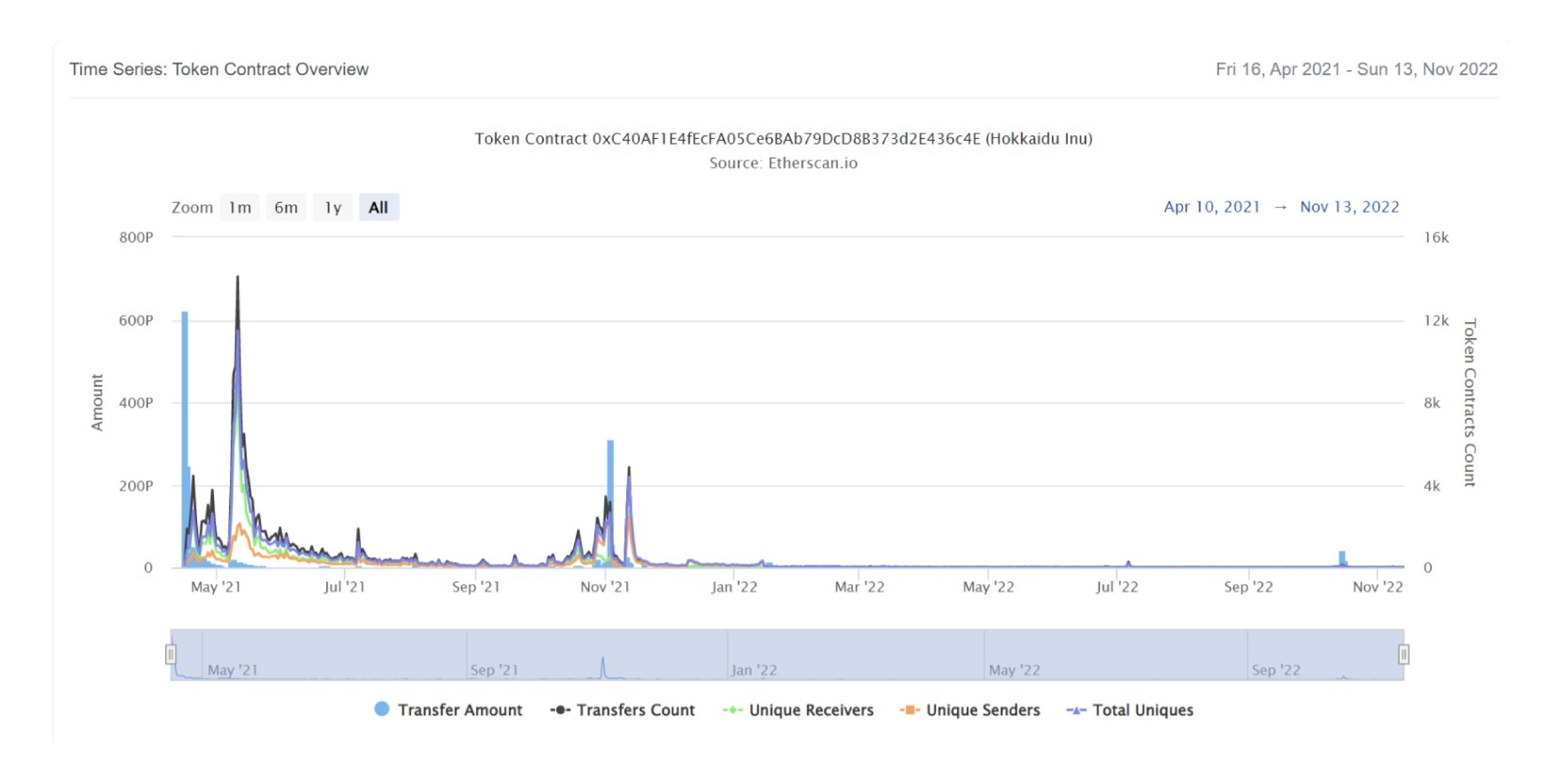
### Hokkaidulnu token Top 20 Token Holders

(A total of 63,224,447,292,193,400.00 tokens held by the top 100 accounts from the total supply of 100,000,000,000,000,000.00 token)

1         ☑ Uniswap V2: HOKK         30,3386/13,401,891,000.441838366         30,3386/h           2         Hobiti 3         1,871,118,882,905,400,802022899         1,8711%           3         ☑ 0x38578004a6b4485ab81d8937fc8014870chb9         1,771,624,387,754,530,299099785         1,7116%           4         0x022811458289bc03d9702e6cpe0p8c07122756c1         1,325,383,008,142,340,06931915         1,3254%           5         0xa6683436abcbd6781e1982d5zc9caee1b3884d         1,278,610,996,241,000,450346549         12786%           6         0x8c686c42064c79421708abc47197fbc51dd71ae8d         961,124,392,841,748,833168344         0,9611%           7         0xb0c5744824a692c208bc9/32bb98b1ac44d00418         883,335,574,577,151,362277885         0,8833%           8         Null Address: 0x00dEaD         826,045,115,541,425,583723396         0,8260%           9         0x387fc47706bff33883485cc2803123553400fc         806,934,361,713,422,954491937         0,8093%           10         0x36228235a652dd0be91777a91c5fd5a656949a75a         695,335,864,675,995,778802657         0,8953%           11         0x760b192c7690fb06d85b641585dad21eb472eb         636,251,173,70,281,16604965         0,8633%           12         0xd1c335395ddc9bba1dc0b8a87bc5add1b13         596,012,094,237,736,429150684         0,5990%           14         0x077765b100bbB7769614a7315b5a93acdd	Rank	Address	Quantity (Token)	Percentage
3	1	Uniswap V2: HOKK	30,338,613,401,891,000.441893636	30.3386%
4         0x0226124f5268b0c3d9702e6c9eb8ac0f122756c1         1,325,383,008,142,340,06931915         1,3254%           5         0xa0613436abcbd6761e1982d52cf9c2aee1b3884d         1,278,610,996,241,050,450346549         1,2786%           6         0x8d68c42094c79421708a9c47197fbc51dd71ee8d         961,124,392,641,748,833168344         0,9611%           7         0xb0c5744824a69c2c08bc9f32bb98b1ac44d00418         883,335,574,577,151,362277865         0,8833%           8         Null Address: 0x00dEaD         826,045,115,541,425,583723396         0,8260%           9         0x387fc74706fbf33983485cc260312f36f3400fc         806,934,361,713,422,954491937         0,8089%           10         0x3b228236a652dd0b691777a81c5ftd5a65649a75a         695,335,864,675,995,776802657         0,8953%           11         0x780b192c7690fb06ed85b941585dad21eb44729b         636,251,173,760,281,16604965         0,6363%           12         0xd1c335395ddc9bba1dd0a6eab8dg1s8e29d1dcd0         612,656,217,370,780,287594525         0,6127%           13         0xe62e2561fbb67334d41d5adbfb6a87bc5add1b13         598,012,094,237,736,429150684         0,5980%           14         0x077765b100bb8746904aa7315b5a93ec4d98fed         595,018,974,163,144,884276457         0,5950%           15         0xc522db184910dab5ad4b9c0212c69ecc91730c9b         552,471,530,850,700,767979602         0,5325%	2	Hotbit 3	1,871,118,882,905,400.802022899	1.8711%
5         0xa0613436abcbd6761e1982d52cf9c2aee1b3884d         1,278,610,996,241,050,450346549         1,2766%           6         0x8d68c42094c79421708a9c47197fbc51dd71ae8d         961,124,392,641,748.833168344         0,9611%           7         0xb0c5744824a692c208bc9f32bb98b1ac44d00418         883,335,574,577,151,362277865         0.8833%           8         Null Address: 0x00cEaD         826,045,115,541,425,583723396         0.8260%           9         0x387fe74706fbf33983485cc260312f35f3400fc         808,934,361,713,422,954491937         0.8089%           10         0x3b228235aa52dd0b691777a61c5fd5a65649875a         695,335,884,675,995.776802657         0.6953%           11         0x780b192c7680fb06ed85b641585dad21eb44729b         636,251,173,760,281.16604965         0.6363%           12         0xd1c335395ddc9bba1dd0a6eab8d91a8e29d1dcd0         612,856,217,370,780.287594525         0.6127%           13         0xe62e256flbb67334d41d5adbb6a67bc5add1b13         598,012,094,237,736.429150684         0.5980%           14         0x0777765b100bb8b746904aa7315b5a93ac4d98fed         595,018,974,163,144.864276457         0.5960%           15         0xc522db184910dab5ad4b9c0212c69ecc91730c9b         552,471,530,650,700.767979602         0.5525%           16         0x541ebad11c8875fa575a76562692a07883a1e36b         530,375,990,696,388.684234489         0.4949%	3	①x38b78904a6b44f63eb81d98937fc6614870cfbb9	1,711,624,387,754,530.299099785	1.7116%
6	4	0x0226124f5269b0c3d9702e6c9eb9ac0f122756c1	1,325,383,008,142,340.06931915	1.3254%
7         Oxb0c5744824a692c208bc9f32bb98b1ac44d00418         883,335,574,577,151,362277865         0.8833%           8         Null Address: 0x00dEaD         826,045,115,541,425,583723396         0.8260%           9         0x387fe74706bff33983485cc260312f35f3400fc         808,934,361,713,422,954491937         0.8089%           10         0x3b228235aa52dd0b691777a61c5fd5ac5649a75a         695,335,864,675,995,776802657         0.6953%           11         0x780b192c7650fb06ed85b941585dad21eb44729b         636,251,173,760,281.16604965         0.6393%           12         0xd1c335395ddc9bba1dd0a6eab8d91a8e29d1dcd0         612,656,217,370,780,287594525         0.6127%           13         0xe62a2561fbb67334d41d5adbfb8a87bc5add1b13         598,012,094,237,736,429150684         0.5980%           14         0x077765b100bb8b746904aa7315b5a93ec4d98fed         595,018,974,163,144,864276457         0.5950%           15         0xc522db184910dab5ad4b9c0212c69ecc91730c9b         552,471,530,650,700,767979602         0.5525%           16         0x541ebad11c8875fa575e76562692a07883a1e36b         530,375,990,696,388,684234489         0.5304%           17         B Hokkaido Inu: HOKK Token         494,908,558,731,599,488384468         0.4949%           18         Bitrue         459,774,076,519,153,085576812         0.45598%           19         0x64185793b(8ba90c497bf	5	0xa0613436abcbd6761e1982d52cf9c2aee1b3884d	1,278,610,996,241,050.450346549	1.2786%
8         Null Address: 0x00dEaD         826,045,115,541,425,583723396         0.8260%           9         0x387fe74706fbff33983485cc280312f35f3400fc         808,934,361,713,422,954491937         0.8089%           10         0x3b228235aa52dd0b691777a61c5fd5a65649a75a         695,335,864,675,995,776802657         0.6953%           11         0x780b192c7690fb06ed85b941585dad21eb44729b         636,251,173,760,281.16604965         0.6363%           12         0xd1c335395ddc9bba1dd0a6eab8d91a8e29d1dcd0         612,656,217,370,780.287594525         0.6127%           13         0xe62e2561fbb67334d41d5adbfb6a87bc5add1b13         598,012,094,237,736,429150684         0.5980%           14         0x077765b100bb8b746904aa7315b5a93ec4d98fed         596,018,974,163,144.864276457         0.5950%           15         0xc522db184910dab5ad4b9c0212c69ecc91730c9b         552,471,530,650,700.767979602         0.5525%           16         0x541ebad11c8875fa575e76562692a07883a1e36b         530,375,990,696,388,684234489         0.5304%           17         B Hokkaido Inu: HOKK Token         494,908,558,731,599,48384468         0.4949%           18         Bitrue         459,774,076,519,153,085576812         0.4559%           19         0x64185793b/8ba90c497bfee616e2a605bbacd050         455,384,772,407,441,08099171         0.4555%	6	0x8d68c42094c79421708a9c47197fbc51dd71ae8d	961,124,392,641,748.833168344	0.9611%
9	7	0xb0c5744824a692c208bc9f32bb98b1ac44d00418	883,335,574,577,151.362277865	0.8833%
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12       0xd1c335395ddc9bba1dd0a6eab8d91a6e29d1dcd0       612,656,217,370,780.287594525       0.6127%         13       0xe62e2561fbb67334d41d5adbfb6a87bc5add1b13       598,012,094,237,736.429150684       0.5980%         14       0x077765b100bb8b746904aa7315b5a93ec4d98fed       595,018,974,163,144.864276457       0.5950%         15       0xc522db184910dab5ad4b9c0212c69ecc91730c9b       552,471,530,650,700.767979602       0.5525%         16       0x541ebad11c8875fa575e76562692a07883a1e36b       530,375,990,696,388.684234489       0.5304%         17       □ Hokkaido Inu: HOKK Token       494,908,558,731,599.488384468       0.4949%         18       Bitrue       459,774,076,519,153.085576812       0.4598%         19       0x64185793bf8ba90c497bfee616e2a605bbacd050       455,384,772,407,441.08099171       0.4554%	10	0x3b228235aa52dd0b691777a61c5fd5a65649a75a	695,335,864,675,995.776802657	0.6953%
13	11	0x780b192c7690fb06ed85b941585dad21eb44729b	636,251,173,760,281.16604965	0.6363%
14       0x077765b100bb8b746904aa7315b5a93ec4d98fed       595,018,974,163,144.864276457       0.5950%         15       0xc522db184910dab5ad4b9c0212c69ecc91730c9b       552,471,530,650,700.767979602       0.5525%         16       0x541ebad11c8875fa575e76562692a07883a1e36b       530,375,990,696,388.684234489       0.5304%         17       □ Hokkaido Inu: HOKK Token       494,908,558,731,599.488384468       0.4949%         18       Bitrue       459,774,076,519,153.085576812       0.4598%         19       0x64185793bf8ba90c497bfee616e2a605bbacd050       455,384,772,407,441.08099171       0.4554%	12	0xd1c335395ddc9bba1dd0a6eab8d91a8e29d1dcd0	612,656,217,370,780.287594525	0.6127%
15       0xc522db184910dab5ad4b9c0212c69ecc91730c9b       552,471,530,650,700.767979602       0.5525%         16       0x541ebad11c8875fa575e76562692a07883a1e36b       530,375,990,696,388.684234489       0.5304%         17       □ Hokkaido Inu: HOKK Token       494,908,558,731,599.488384468       0.4949%         18       Bitrue       459,774,076,519,153.085576812       0.4598%         19       0x64185793bf8ba90c497bfee616e2a605bbacd050       455,384,772,407,441.08099171       0.4554%	13	0xe62e2561fbb67334d41d5adbfb6a87bc5add1b13	598,012,094,237,736.429150684	0.5980%
16	14	0x077765b100bb8b746904aa7315b5a93ec4d98fed	595,018,974,163,144.864276457	0.5950%
17       ☐ Hokkaido Inu: HOKK Token       494,908,558,731,599.488384468       0.4949%         18       Bitrue       459,774,076,519,153.085576812       0.4598%         19       0x64185793bf8ba90c497bfee616e2a605bbacd050       455,384,772,407,441.08099171       0.4554%	15	0xc522db184910dab5ad4b9c0212c69ecc91730c9b	552,471,530,650,700.767979602	0.5525%
18       Bitrue       459,774,076,519,153.085576812       0.4598%         19       0x64185793bf8ba90c497bfee616e2a605bbacd050       455,384,772,407,441.08099171       0.4554%	16	0x541ebad11c8875fa575e76562692a07883a1e36b	530,375,990,696,388.684234489	0.5304%
19 0x64185793bf8ba90c497bfee616e2a605bbacd050 455,384,772,407,441.08099171 0.4554%	17	Hokkaido Inu: HOKK Token	494,908,558,731,599.488384468	0.4949%
	18	Bitrue	459,774,076,519,153.085576812	0.4598%
20 0x0c99c716525888689f07012c432bd9c1c247cd9a 452,609,616,756,812.732403103 0.4526%	19	0x64185793bf8ba90c497bfee616e2a605bbacd050	455,384,772,407,441.08099171	0.4554%
	20	0x0c99c716525888689f07012c432bd9c1c247cd9a	452,609,616,756,812.732403103	0.4526%

### Hokkaidulnu token Distribution

#### Hokkaidulnu token Contract Overview



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### Contract functions details

```
+Context
    -[Int] _msgSender
    -[Int] _msgData
+[Int] IERC20
    -[Ext] totalSupply
    -[Ext] balanceOf
    -[Ext] transfer
    -[Ext] allowance
    -[Ext] approve
    -[Ext] transferFrom
+[Lib] SafeMath
    -[Int] add
    -[Int] sub
    -[Int] sub
    -[Int] mul
    -[Int] div
    -[Int] div
    -[Int] mod
    -[Int] mod
+[Lib] Address
    -[Int] isContract
    -[Int] sendValue
    -[Int] functionCall
    -[Int] functionCall
    -[Int] functionCallWithValue
    -[Int] functionCallWithValue
    -[Pvt] _functionCallWithValue
+Ownable (Context)
    -[Int] <constructor>
    -[Pub] owner
    -[Pub] renounceOwnership #
      -modifiers: onlyOwner
    -[Pub] transferOwnership #
      -modifiers: onlyOwner
```

### Contract functions details

```
+Hokkaidulnu (Context, IERC20, Ownable)
    -[Pub] <constructor>
    -[Pub] name
    -[Pub] symbol
    -[Pub] decimals
    -[Pub] totalSupply
    -[Pub] balanceOf
    -[Pub] transfer #
    -[Pub] allowance
    -[Pub] approve #
    -[Pub] transferFrom #
    -[Pub] increaseAllowance #
    -[Pub] decreaseAllowance #
    -[Pub] isExcluded
    -[Pub] totalFees
    -[Pub] reflect #
    -[Pub] reflectionFromToken
    -[Pub] tokenFromReflection
    -[Ext] excludeAccount #
     -modifiers: onlyOwner
    -[Ext] includeAccount
     -modifiers: onlyOwner
    -[Pvt] _approve #
    -[Pvt] _transfer #
    -[Pvt] _transferStandard#
    -[Pvt] _transferToExcluded #
    -[Pvt] _transferFromExcluded #
    -[Pvt] _transferBothExcluded #
    -[Pvt] _reflectFee #
    -[Pvt] _getValues
    -[Pvt] _getTValues
    -[Pvt] _getRValues
    -[Pvt] _getRate
    -[Pvt] _getCurrentSupply
($) = payable function
```

# = non-constant function

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# Issues Checking Status

No.	Title	Status
1.	Unlocked Compiler Version	Low issue
2.	Missing Input Validation	Passed
3.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
4.	Possible delays in data delivery	Passed
5.	Oracle calls.	Passed
6.	Timestamp dependence.	Passed
7.	Integer Overflow and Underflow	Passed
8.	DoS with Revert.	Passed
9.	DoS with block gas limit.	Medium issue
10.	Methods execution permissions.	Passed
11.	Economy model of the contract.	Passed
12.	Private use data leaks.	Passed
13.	Malicious Event log.	Passed
14.	Scoping and Declarations.	Passed
15.	Uninitialized storage pointers.	Passed
16.	Arithmetic accuracy.	Passed
17.	Design Logic.	Passed
18.	Safe Open Zeppelin contracts implementation and usage.	Passed
19.	Incorrect Naming State Variable	Passed
20.	Too old version	Low issue

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# Severity Definitions

Risk Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to assets loss or data manipulations.
High	High-level vulnerabilities are difficult to exploit; however, they also have a significant impact on smart contract execution, e.g., public access to crucial functions
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to assets loss or data manipulations.
Low	Low-level vulnerabilities are mostly related to outdated, unused, etc. code snippets that can't have a significant impact on execution.

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### Security Issues

#### Critical Severity Issues

No critical severity issue found.

#### High Severity Issues

No high severity issue found.

#### Medium Severity Issues

One medium severity issue found.

#### 1. Out of gas limit.

#### Description

The smart contract has functions which has used for includeAccount, \_getCurrentSupply. Large length of \_excluded can cause an error of out of gas for these two functions.

#### Recommendation

It is advisable to either remove for loop or use smaller length to avoid the gas limit error while transaction.

#### Low Severity Issues

Two low severity issue found.

#### 1. Old compiler version

#### Description

Contract has been deployed using too old solidity version.

#### Recommendation

It is advisable to deploy contract using any of the latest version of solidity.

#### 2.Unlocked Compiler Version.

#### Description

The contract utilizes an unlocked compiler version. An unlocked compiler version in the contract's source code permits the user to compile it at or above a particular version. This, in turn, leads to differences in the generated bytecode between compilations due to differing compiler version numbers. This can lead to ambiguity when debugging as compiler-specific bugs may occur in the codebase that would be difficult to identify over a span of multiple compiler versions rather than a specific one.

#### Recommendation

It is advisable that the compiler version is alternatively locked at the lowest version possible so that the contract can be compiled. For example, for version ^0.6.12 the contract should contain the following line: pragma solidity 0.6.12;

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### Centralization

#### Owner Privileges:

- Hokkaidu Inu Contract:
  - Owner can transfer and renounce ownership.
  - Owner can exclude and include account from fees.

This smart contract has some functions which can be executed by the Admin (Owner) only. If the admin wallet private key would be compromised, then it would create trouble but smart contract ownership has been renounced. Following are Admin functions:

- Excludeaccount
- Includeaccount
- Renounceownership
- Transferownership

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### Conclusion

Smart contract contains low and medium severity issues! The further transfer and operations with the fund raised are not related to this particular contract.

HackSafe note: Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.

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