



Security Assessment

Norexa

Date: 19/07/2025

Audit Status: FAIL

Audit Edition: Advanced+





Risk Analysis

Vulnerability summary

Classification	Description
High	High-level vulnerabilities can result in the loss of assets or manipulation of data.
Medium	Medium-level vulnerabilities can be challenging to exploit, but they still have a considerable impact on smart contract execution, such as allowing public access to critical functions.
Low	Low-level vulnerabilities are primarily associated with outdated or unused code snippets that generally do not significantly impact execution, sometimes they can be ignored.
Informational	Informational vulnerabilities, code style violations, and informational statements do not affect smart contract execution and can typically be disregarded.

Executive Summary

According to the Assure assessment, the Customer's smart contract is **Poorly Secured.**

Insecure	Poorly Secured	Secured	Well Secured

Scope

Target Code And Revision

For this audit, we performed research, investigation, and review of the Norexa contracts followed by issue reporting, along with mitigation and remediation instructions outlined in this report.

Target Code And Revision

Project	Assure
Language	Solidity
Codebase	https://etherscan.io/address/0xdE860ac02D0F 22363da499577CA7894afD8C98b4#readContr act
Audit Methodology	Static, Manual

Attacks made to the contract

In order to check for the security of the contract, we tested several attacks in order to make sure that the contract is secure and follows best practices.

Category	Item
Code review & Functional Review	 Compiler warnings. Race conditions and Reentrancy. Cross-function race conditions. Possible delays in data delivery. Oracle calls. Front running. Timestamp dependence. Integer Overflow and Underflow. DoS with Revert. DoS with block gas limit. Methods execution permissions. Economy model. Private user data leaks. Malicious Event log. Scoping and Declarations. Uninitialized storage pointers. Arithmetic accuracy. Design Logic. Cross-function race conditions. Safe Zeppelin module. Fallback function security. Overpowered functions / Owner privileges

AUDIT OVERVIEW



1. Privilege & Denial-of-Service via updateSwapThreshold

Issue:

```
function updateSwapThreshold(uint256 newAmount) public {
    require(msg.sender == TreasuryAddress, "only TreasuryAddress can change
swapThreshold");
    swapTokensAtAmount = newAmount * 1e18;
}
```

Because only TreasuryAddress can call this, but Owner can call setTreasuryAddress() to point TreasuryAddress at themselves or any malicious EOA/contract, the owner effectively regains control over swapTokensAtAmount. By setting swapTokensAtAmount = 0, every transfer where swapEnabled == true and the contract holds any tokens will trigger swapBack(). If the pool has zero reserves or the router misbehaves, every transfer will revert, locking trading (DoS). Conversely, setting it extremely high can prevent all auto-swaps, starving the treasury of fees.

Recommendation: Restrict updateSwapThreshold to onlyOwner or renounce ownership.

Enforce a sensible minimum (for example

require(newAmount >= 1, "threshold too low"); and require(newAmount <= totalSupply()/100, "threshold too high");).

Emit an event SwapThresholdUpdated(uint256 old, uint256 neu) for transparency.

2. Token Rescue Function Drains Native Tokens

Issue:

```
function transferForeignToken(address _token, address _to) public returns (bool) {
    require(msg.sender == TreasuryAddress, "only TreasuryAddress can withdraw");
    uint256 _contractBalance = IERC20(_token).balanceOf(address(this));
    return IERC20(_token).transfer(_to, _contractBalance);
}
```

There is no check preventing _token == address(this). A malicious or compromised TreasuryAddress can call: transferForeignToken(address(this), treasury);

and immediately withdraw all NRX tokens that have been accumulated in the contract—completely bypassing the normal swap-and-send process.

Recommendation: Add require(_token != address(this), "Cannot withdraw native tokens");

If rescuing is desired, split into two functions: one for foreign tokens, one for native (with distinct access control and events). Another option is to renounce ownership.



No medium issues were found.



No low issues were found.



1. Broken Anti-Bot / Fee-Bypass in "Dead Blocks" Logic [Already deployed N/A]

Issue: The contract declares a deadBlocks parameter and a penaltyAmount variable intended to punish bot trades in the first few blocks after trading is enabled but never actually uses them. Instead, fee-taking only occurs when

if (takeFee && tradingActiveBlock > 0 && (block.number > tradingActiveBlock))

Because block.number > tradingActiveBlock is false in the very first block (where block.number == tradingActiveBlock), all trades in that block incur zero fees. Bots can:

Wait for enableTrading() to be called.

In that same block, submit a swap on Uniswap, paying 0% fees, sniping pre-launch liquidity.

This completely defeats the intended anti-sniping mechanism and allows arbitrage/sniping with no penalty.

Recommendation: Change the fee-condition to block.number >= tradingActiveBlock + deadBlocks.

Compute a dynamic penaltyAmount = amount * penaltyRate / 100 for block.number < tradingActiveBlock + deadBlocks.

Fully remove the unused penaltyAmount placeholder and wire in the above logic so that the first N blocks incur a high punitive tax (for example 99%) and only then settle to the normal buyFee/sellFee.

2. Dead code

Issue: Unsued deadblocks in enableTradign() and unused penaltyAmonunt in _transfer()

Recommendation: Implement the logic or delete the variable/parameter declarations.

Testing coverage

During the testing phase, custom use cases were written to cover all the logic of contracts. *Check "Annexes" to see the testing code.

```
tests/test_norexa.py::test_update_max_buy_amount RUNNING
Transaction sent: 0x8e0e8887cb5d5f3f093fd75b02c2e4efb9134a508cd884cb40fle2510849d4de
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 0
UniswapV2Factory.constructor confirmed Block: 1 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0x3194cBDC3dbcd3Ella07892e7bA5c3394048Cc87
Transaction sent: 0x8921ble506ef8feecf0f0287e8391d1db3cb3ff012e9ed98debec7fe0c4eef69
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 1
WETH9.constructor confirmed Block: 2 Gas used: 476546 (3.97%)
WETH9 deployed at: 0x602C71e4DAC47a042Ee7f46E0aee17F94A3bA086
Transaction sent: 0x52602bfe59986e1046577eda43ad43d25254def838bfc2c3a0eb06944291f23c Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 2
UniswapV2Router02.constructor confirmed Block: 3 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0xE7eD6747FaC5360f88a2EFC03E00d25789F69291
Transaction sent: 0x83a67d2bc26905e8c6d97af5d4029761fc5446282c643e45913ba57f5b8846c5
   Gas price: 0.0 gwel Gas limit: 12000000 Nonce: 3
Norexa.constructor confirmed Block: 4 Gas used: 4892163 (40.77%)
Norexa deployed at: 0x6951b58d815043E3F842c1b026b0Fa888Cc2DD85
Transaction sent: 0x2e021d2a7e3a7f9c843a3fc3e5552504f113b2b3ebf03304f58a0b1569cfddb4
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 0
Norexa.updateMaxBuyAmount confirmed (Ownable: caller is not the owner) Block: 5 Gas used: 22562 (0.19%)
Transaction sent: 0x0b070d61935424fae8eaa67c4fa9c9621c12ef279f8ebd8f53f143b68fe6ef47
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 4
Norexa.updateMaxBuyAmount confirmed (Cannot set max buy amount lower than 0.1%) Block: 6 Gas used: 23590 (0.20%)
Transaction sent: 0x118b1da78dbf3ee2dbccfb5e6415d5cd5d9b35e1170ca11551b74e6ede54blea
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 5
Norexa.updateMaxBuyAmount confirmed Block: 7 Gas used: 29619 (0.25%)
tests/test_norexa.py::test_update_max_buy_amount PASSED
tests/test_norexa.py::test_update_max_sell_amount RUNNING
Transaction sent: 0xb407585473e3a7bbl172c7d8c764a9883cdc97e12f4798d657afd34c07d7a7e4
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 6
UniswapV2Factory.constructor confirmed Block: 8 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0x9E4c14403d7d9A8A782044E86a93CAE09D7B2ac9
Transaction sent: 0xd580a7c038bafa813be62226047d9a0bf05f9ceb1738cf3b53cffdcc79e146d8
    Gas price: 0.0 gwe1 Gas limit: 12000000 Nonce: 7
WETH9.constructor confirmed Block: 9 Gas used: 476546 (3.97%)
WETH9 deployed at: 0xcCB53c9429d32594F404d01fbe9E65ED1DCda8D9
Transaction sent: 0x7479d2743d0200d8f2b7a232c02484ac45ec2985af93d5e7f71d29d140658b62
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 8
UniswapV2Router02.constructor confirmed Block: 10 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0x420b1099B9eF5baba6D92029594eF45E19A04A4A
Transaction sent: 0xf1f1cf97cale8d3017766344c72e9006c1b1dc8f4b4d6588b674e580041531f0
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 9
Norexa.constructor confirmed Block: 11 Gas used: 4892165 (40.77%)
Norexa deployed at: 0xa3B53dDcd2E3fC28e8E13028BF2aBD8d5EE37472
Transaction sent: 0x0898ef5e75c8ad121c9639ea855d5ea9bdad0262880167bald692c22f1376c03
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 1
Norexa.updateMaxSellAmount confirmed (Ownable: caller is not the owner) Block: 12 Gas used: 22605 (0.19%)
Transaction sent: 0x87f3fca6e7bcc4adc208248d67064a2b97be459341f46dd9160e3e60da44ffee
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 10
Norexa.updateMaxSellAmount confirmed (Cannot set max sell amount lower than 0.1%)
                                                                                                                                                    ount lower than 0.1%) Block: 13 Gas used: 23633 (0.20%)
Transaction sent: 0xece50c7ad4a75caebdd532c06b7fb0fcdc0f054dd698c432fdccf5467d8b65e9
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 11
Norexa.updateMaxSellAmount confirmed Block: 14 Gas used: 29673 (0.25%)
tests/test_norexa.py::test_update_max_sell_amount PASSED
```

```
tests/test_norexa.py::test_exclude_from_max_tx RUNNING
Transaction sent: 0x1fe5f68554a998873a4d37b0e235b6e88aa01d0019b1bad9bd1efd83e7c91452
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 12
UniswapV2Factory.constructor confirmed Block: 15 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0x2c15A315610Bfa5248E4CbCbd693320e9D8E03Cc
Transaction sent: 0x86ccaad754ld8fa6d70fa9cd5ddbf3e65798dfefa273572e714cdabe980c0lba
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 13
WETH9.constructor confirmed Block: 16 Gas used: 476546 (3.97%)
WETH9 deployed at: 0xe692Cf21B12e0B2717C4bF647F9768Fa58861c8b
Transaction sent: 0xead3cccf4bb6bfe8eccdf36404ac96c6416660acd48al1876a53b17b3674d96e
   Gas price: 0.0 gwei Gas Limit: 12000000 Nonce: 14
UniswapV2Router02.constructor confirmed Block: 17 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0xe65A7a341978d59d40d30FC23F5014FACB4f575A
Transaction sent: 0x11c8cd3761a152805b7104a2ddca305f85a3df4a8fff5e302deae2d04024b4b9
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 2
Norexa.excludeFromMaxTransaction confirmed (Ownable:
                                                                                               le: caller is not the owner) Block: 19 Gas used: 23000 (0.19%)
Transaction sent: 0xcf853de559b8702d09f1be640bb0726cab86f2a097f878fae09ca62dfba0778c
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 16
Norexa.excludeFromMaxTransaction confirmed (Cannot remove uniswap pair from max txm
                                                                                                         ove uniswap pair from max txn) Block: 20 Gas used: 23081 (0.19%)
Transaction sent: 0xa6e86e820cb62d191ee38b14e772d0fb9cb4aa651bc6135f531337a3f8eec386
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 17
Norexa.excludeFromMaxTransaction confirmed Block: 21 Gas used: 43836 (0.37%)
tests/test_norexa.py::test_exclude_from_max_tx PASSE
tests/test_norexa.py::test_update_max_wallet_amount RUNNING
Transaction sent: 0x5114f2a3e633c54090f9a880727b6d66cc2a2fd94739dd146464821dc67f2c23
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 18
UniswapV2Factory.constructor confirmed Block: 22 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0xed00238F9A0F7b4d93842033cdF56cC832C781c2
Transaction sent: 0x8eeef26a875d0b720aad785a8bdcd281321c69cc6670524944e71d22efdb675c
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 19
WETH9.constructor confirmed Block: 23 Gas used: 476546 (3.97%)
WETH9 deployed at: 0xDae02e4fE488952cFB8c95177154D188647a0146
Transaction sent: 0x47897cfb02d82bb2laf9dd785565f14323435f8e57176c017fbb587cc828bcd7
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 20
UniswapV2Router02.constructor confirmed Block: 24 Gas used: 3895418 (32.46%)
UniswapV2Router02 deployed at: 0xdCF93F1lef216cEC9C07fd3ldD801c9b2b39Afb4
Transaction sent: 0xb21515584c5dad5b07604a020b3de7139c0ad14535a8cc16dc36d85b7858043a
  Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 21
Norexa.constructor confirmed Block: 25 Gas used: 4892165 (40.77%)
Norexa deployed at: 0xBcb61491F1859f53438918F1A5aFCA542Af9D397
Transaction sent: 0x1e1661cd11e7210bb3fa8618b550bdeb1949f9d21e15f2f22a9cbe98eb15f4bd
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 3
Norexa.updateMaxWalletAmount confirmed (Ownable: caller is not the owner) Block: 26 Gas used: 22539 (0.19%)
Transaction sent: 0xcc834649f6e8b7541f99e240f4803a94b89b11e82798d9d53c5faalcefbae2d3
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 22
Norexa.updateMaxWalletAmount confirmed (Cannot set max wallet amount lower than 0.3%) Block: 27 Gas used: 23567 (0.20%)
Transaction sent: 0xc23b6db9313c40e45ec4774819e46617918e1549ed9a33263e983a7e360d3cb3
  Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 23
Norexa.updateMaxWalletAmount confirmed Block: 28 Gas used: 29607 (0.25%)
tests/test norexa.pv::test update max wallet amount PA
```

```
tests/test_norexa.py::test_update_swap_treshold RINNING
Transaction sent: 0x8ac8313cbcb0af2e067204154c6422e3b8baalb71d0528800e5351bd467b97df
Gas price: 0.0 gwei Gas Limit: 12000000 Nonce: 24
UniswapVZFactory.constructor confirmed Block: 29 Gas used: 2412730 (20.11%)
UniswapVZFactory deployed at: 0xf9c8cf55f2E5208808d869df7bc76aa3d3dd0F913

Transaction sent: 0xb4f0eb925f6414d222fc7163297740lba96cbl2dfe72f3ba33392f201d77f49d
Gas price: 0.0 gwei Gas Limit: 12000000 Nonce: 25
WETH9: constructor confirmed Block: 30 Gas used: 476546 (3.97%)
WETH9 deployed at: 0x654f70d8442EA18904FA1A079114f7250FTE9336

Transaction sent: 0xb3095a42ec0a89a14dc9cca44fe7419d7865e723e841572e67507e2937cf7542
Gas price: 0.0 gwei Gas Limit: 12000000 Nonce: 26
UniswapVZRouter02.constructor confirmed Block: 31 Gas used: 3895430 (32.46%)
UniswapVZRouter02 deployed at: 0xA0eD61042dE866f9058386D100d739d20C7eAfC43

Transaction sent: 0xd1507a7a3ccfe93e62f2bda6e5380debd76ea4ab6ca00ab07ddcb33c96483425
Gas price: 0.0 gwei Gas Limit: 12000000 Nonce: 27
Norexa.constructor confirmed Block: 32 Gas used: 4892175 (40.77%)
Norexa deployed at: 0x832698Daec363C9A7a8036C224Af5821280b3AC6

Transaction sent: 0x439a963d1343a87ff415c7bdc1aac2ba142e7f84192f4c9076aba1f7b540a9ab
Gas price: 0.0 gwei Gas Limit: 12000000 Nonce: 4
Norexa.updateSwapThreshold confirmed (only TreasuryAddress can change swapThreshold)
Block: 33 Gas used: 22507 (0.19%)

Transaction sent: 0xd70564e591668644b485baf2344da32d9b3914ad037efcbaca5c1e5cd24c3d79
Gas price: 0.0 gwei Gas Limit: 12000000 Nonce: 0
Norexa.updateSwapThreshold confirmed Block: 34 Gas used: 27484 (0.23%)

tests/test_norexa.py::test_update_swap_treshold PASSED
```

```
tests/test_norexa.py::test_update_buy_fee RUNNING
Transaction sent: 0x09f7f9d5la4997d080bf2b663c3467a67160ldff7088659c2ald8cda00179cld
   Gas price: 0.0 gwel Gas limit: 12000000 Nonce: 34
UniswapV2Factory.constructor confirmed Block: 45 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0xc830Ad2FDfCC2f368fE5DeC93blDc72ecABb3691
Transaction sent: 0xb9732aa656blc3322b2a682a19ee661aecb239f2153e7305b575abd58f954007
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 35
WETH9.constructor confirmed Block: 46 Gas used: 476546 (3.97%)
WETH9 deployed at: 0xbc8eCccb89650c3E796e803CB009BF9b898CB359
Transaction sent: 0x4ac0eacfc81f4d932b25d33283e93b5f6d5c5c3ea3dc089abc03a99da5758f7d
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 36
UniswapV2Router02.constructor confirmed Block: 47 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0x74le3E1f81041c62C2A97d0b6E567AcaB09A6232
Transaction sent: 0x16e77810358f3ad7d64dclb77e7la140790ae3ed7cbf7c4829a12b5f73c56527
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 37
Norexa.constructor confirmed Block: 48 Gas used: 4892165 (40.77%)
Norexa deployed at: 0x480FccF53589c1F185835db88b8315a0bBF9a3e0
Transaction sent: 0x888daac788141e0b91cd7328fed456928d91b31d600725d8c2cc3c2877923335
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 7
Norexa.updateBuyFee confirmed (Ownable: caller is not the owner) Block: 49 Gas used: 22436 (0.19%)
Transaction sent: 0x676c589a9ad184dd34a0ed5ba3a7a138b091laee03fa107be647a89b4f8872aa
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 38
Norexa.updateBuyFee confirmed (Fees must be 30% or less) Block: 50 Gas used: 27459 (0.23%)
Transaction sent: 0xc44aaecel6cf0e20c8fddf306347bff7bf139fc6879478479d2266494722cf65
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 39
Norexa.updateBuyFee confirmed Block: 51 Gas used: 27348 (0.23%)
tests/test_norexa.py::test_update_buy_fee PASSED
tests/test_norexa.py::test_update_sell_fee RUNNING
Transaction sent: 0xcb1027b556e71c33c328aeb4c52f308alcde35156df023942baefff42ec3b33f
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 40
UniswapV2Factory.constructor confirmed Block: 52 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0x0AC45e945A008D3fc19da8f591be8601C1F63130
Transaction sent: 0x71fd93e382cba92052666bd0a575ed79571528690d5d24870dc8467962f0b3ef
   WETH9 deployed at: 0x5847798CE8c89e3Fff59AE5fA30BEC0d406b5687
Transaction sent: 0x31b4fblc0f3361325310e0e319dca65b0ac971f06fcf72c405084ff0efc1ld8f
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 42
UniswapV2Router02.constructor confirmed Block: 54 Gas used: 3895418 (32.46%)
UniswapV2Router02 deployed at: 0x0C60536783db9ED5A2B216970B10FF2243d317dD
Transaction sent: 0x4309ea62085cb6ad8f350b8ld9080f8ac0a7lb4l26157fba0493f871995b3daa
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 43
Norexa.constructor confirmed Block: 55 Gas used: 4892165 (40.77%)
Norexa deployed at: 0x0e19E87b363DD7a3af5c45C95ab6885367251B94
Transaction sent: 0x2516e1a23d8ee9260bafb6c51c802b6634ae3ae43c06a07bc5e75ef5534c1429
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 8
Norexa.updateSellFee confirmed (Ownable: caller is not the owner) Block: 56 Gas used: 22547 (0.19%)
Transaction sent: 0x5c7deb9764fa3ccecc58cf0f63caf8ea04a5e36328fadd22466c4de284cd7f30
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 44
Norexa.updateSellFee confirmed (Fees must be 30% or less) Block: 57 Gas used: 27570 (0.23%)
Transaction sent: 0xe826afe068a5af67c4a73679d651f765816f925a87711cf29b37c9feb39415eb
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 45
Norexa.updateSellFee confirmed Block: 58 Gas used: 27459 (0.23%)
tests/test_norexa.py::test_update_sell_fee PASSED
```

```
tests/test_norexa.py::test_transfer RUNNIN
tests/test_norexa.py::test_transfer numerum
Transaction sent: %%900f4656690bc2825990092dbeeb3a057c7debeedd65cff857b130f2aec9(
Gas price: 0.0 gwei Gas linit: 12000000 Nonce: 46
UniswapV2Factory.constructor confirmed Block: 59 Gas used: 2412730 (20.11%)
UniswapV2Factory deployed at: 0x80E168874F47371C42498b499837Ed8707661E86
   METH9.constructor confirmed Block: 60 Gas used: 476546 (3.97%)
METH9.constructor confirmed Block: 60 Gas used: 476546 (3.97%)
Transaction sent: 0xa94c015ac60e9fa519efb0855f9b7165181a253602b4b49280995141907cc48c
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 48
UniswapV2Router02.constructor confirmed Block: 61 Gas used: 3895418 (32.46%)
UniswapV2Router02 deployed at: 0x8b184407240Ce2EE9779058af841Ec59F5458388
Transaction sent: 0x1a830369ab0a5434625ca80a4e1b2cb93f53bc48146b56743df1a6ebe1b35621
   Gas price: 8.0 gwei Gas Limit: 12000000 Nonce: 49
Norexa.constructor confirmed Block: 62 Gas used: 4892175 (40.77%)
Norexa deployed at: 0xC60563d5c2243b27e7294511063f563ED701EA2C
Transaction sent: 0xe576602e8d12da85272ab071cc734908c8bf2473f71bc2298bb84cc55bff03dc
   Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 0
Norexa.transfer confirmed (ERC20: transfer from the zero address) Block: 63 Gas used: 24716 (0.21%)
Transaction sent: 0x5bb3daebfbfe5ec47bbec81f959ffcedf7f0bc6ded8be2b22b88a206b1575bb1
Gas price: 0.0 gwei Gas linit: 12000000 Nonce: 9
Norexa.transfer confirmed (ERC20: transfer to the zero address) Block: 64 Gas used: 24511 (0.20%)
Transaction sent: 0xb6ed767559b18lbd1b1a2b50f44e6bb073e44b428600e0e1b6caf7ea48855ab3
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 10
Norexa.transfer confirmed (amount must be greater than 0) Block: 65 Gas used: 2
                                                                                                      than 0) Block: 65 Gas used: 24645 (0.21%)
Transaction sent: 0x3ba80c0b9cb33bdcf8d30fe6fe09d0151bf3d88a8fdddd486746caae799bb629
   Gas price: 0.0 gwei Gas linit: 12000000 Nonce: 11
Norexa.transfer confirmed (Trading is not active.) Block: 66 Gas used: 30023 (0.25%)
Transaction sent: 0xfc3826ec7e6e3a9872f5aaeaa3272b2b14e3e06a0502e6614a60a69f1baedde3
Gas price: 0.0 gwel Gas limit: 12000000 Nonce: 12
Norexa.enableTrading confirmed (Ownable: caller is not the owner) Block: 67 Gas used: 22669 (0.19%)
Transaction sent: 0x64cbab3aea004237d17cc352393fe19b4bd9f6ebf00c0321519b4e87e0ccd793
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 50
Norexa.enableTrading confirmed Block: 68 Gas used: 42328 (0.35%)
Transaction sent: 0xa03d84alddbd810c34d42c483564be97752b7d6fc544bbb4e22fdb622d1e4963
Gas price: 0.0 gwei Gas linit: 12000000 Nonce: 51
Norexa.enableTrading confirmed (Cannot re enable trading) Block: 69 Gas used: 23488 (0.20%)
Transaction sent: 0xcf9be19f5a9lba4llebdeb179d13c9748a03ac4c5a6b59a29f3fe9c5ecaee119
Gas price: 0.0 gwei Gas linit: 12000000 Nonce: 13
Norexa.transfer confirmed (ERC20: transfer amount exceeds balance) Block: 70 Ga
                                                                                                               eds balance) Block: 70 Gas used: 42094 (0.35%)
Transaction sent: 0x19614dbb08848cb6ab25d9555ef5bedd486619e54079acbeb315ba6bc00ebdb1
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 52
Norexa.updateBuyFee confirmed Block: 71 Gas used: 27348 (0.23%)
Transaction sent: 0x23b637fa8800dlc0ldce036558ccb20fc66577083215fa56f7152195dbf69f08
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 53
Norexa.updateSellFee confirmed Block: 72 Gas used: 27459 (0.23%)
Transaction sent: 0xlcecle2859165011b689f40b8397fcl3c93a52dda898fa4le3adaelcd9f33586
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 54
Norexa.transfer confirmed Block: 73 Gas used: 58250 (0.49%)
Transaction sent: 0xbd9f13cd9ae5b66a8523a2fa03dce7312c4674b5c9371577c072222d12a33e7b
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 55
Norexa.transfer confirmed Block: 74 Gas used: 58238 (0.49%)
Transaction sent: 0x6ab0e54cbecc3cflbd0a55523e3c9760lee9b79c163032b49b65713d87524cce
Gas price: 0.0 gwel Gas limit: 12000000 Nonce: 14
Norexa.transfer confirmed (Cannot Exceed max wallet) Block: 75 Gas used: 33716 (0.28%)
Transaction sent: 0x94ffea8b2f4c2le9dc36fdc26ba44e4c22e49a56185ab5551le962638a9fb8c7
  Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 15
Norexa.transfer confirmed (Sell transfer amount exceed
                                                                                                          eds the max sell.) Block: 76 Gas used: 31845 (0.27%)
   ransaction sent: 0x5229765ac5e0e3d6f6903ldfla697560blc0a0dd682f8a2e67fa48b868efa98
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 1
Norexa.transfer confirmed (Buy transfer amount exceeds the max buy.) Block: 77 Gas used: 30912 (0.26%)
Transaction sent: 0x10e063b4775946c1fb29671e516c773715a9cfd6babaee380a4e20edc8315767
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 16
Norexa.transfer confirmed Block: 78 Gas used: 55021 (0.46%)
Transaction sent: 0x4956cd851f58fe704b88c6a298b014bfc0a72d3da5acla97b41646c17aecccb1
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 17
Norexa.transfer confirmed Block: 79 Gas used: 114666 (0.96%)
Transaction sent: 0xfd30e96fdda47ede8a03f0c874c70bd20e3efe668723944b8e5d139e49223af6
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 2
Norexa.transfer confirmed Block: 80 Gas used: 71431 (0.60%)
tests/test_norexa.py::test_transfer
```

Annexes

Testing code:

```
from brownie import (
    reverts,
from scripts.helpful_scripts import (
    ZERO_ADDRESS,
    DAY_TIMESTAMP,
    get_account,
    get_timestamp,
    get_chain_number,
    increase_timestamp
from scripts.deploy import (
   deploy_weth,
    deploy_factory,
    deploy_router,
    deploy_erc,
    deploy_norexa
def test_update_max_buy_amount(only_local):
   # Arrange
    owner = get_account(0)
    other = get_account(1)
    extra = get_account(2)
    factory = deploy_factory(owner, owner)
    weth = deploy_weth(owner)
    router = deploy_router(owner, factory.address, weth.address)
```

```
token = deploy_norexa(owner, router.address)
   with reverts("Ownable: caller is not the owner"):
        token.updateMaxBuyAmount(10e18, {"from": other})
   with reverts("Cannot set max buy amount lower than 0.1%"):
        token.updateMaxBuyAmount(90000, {"from": owner})
   tx = token.updateMaxBuyAmount(150000, {"from": owner})
   assert tx.events['UpdatedMaxBuyAmount'][0]['newAmount'] == 150000e18
def test_update_max_sell_amount(only_local):
   # Arrange
   owner = get_account(0)
   other = get_account(1)
   extra = get_account(2)
   factory = deploy_factory(owner, owner)
   weth = deploy_weth(owner)
   router = deploy_router(owner, factory.address, weth.address)
   token = deploy_norexa(owner, router.address)
   with reverts("Ownable: caller is not the owner"):
        token.updateMaxSellAmount(10e18, {"from": other})
   with reverts("Cannot set max sell amount lower than 0.1%"):
        token.updateMaxSellAmount(90000, {"from": owner})
   tx = token.updateMaxSellAmount(150000, {"from": owner})
   assert tx.events['UpdatedMaxSellAmount'][0]['newAmount'] == 150000e18
def test_exclude_from_max_tx(only_local):
   # Arrange
   owner = get_account(0)
   other = get_account(1)
   extra = get_account(2)
```

```
factory = deploy_factory(owner, owner)
   weth = deploy_weth(owner)
   router = deploy router(owner, factory.address, weth.address)
   token = deploy norexa(owner, router.address)
   with reverts("Ownable: caller is not the owner"):
        token.excludeFromMaxTransaction(router.address, False, {"from": other})
   pair = token.uniswapV2Pair()
   with reverts("Cannot remove uniswap pair from max txn"):
        token.excludeFromMaxTransaction(pair, False, {"from": owner})
   tx = token.excludeFromMaxTransaction(other, True, {"from": owner})
   assert token._isExcludedMaxTransactionAmount(other) == True
def test update max wallet amount(only local):
   # Arrange
   owner = get_account(0)
   other = get_account(1)
   extra = get account(2)
   factory = deploy_factory(owner, owner)
   weth = deploy_weth(owner)
   router = deploy_router(owner, factory.address, weth.address)
   token = deploy norexa(owner, router.address)
   with reverts("Ownable: caller is not the owner"):
        token.updateMaxWalletAmount(10e18, {"from": other})
   with reverts("Cannot set max wallet amount lower than 0.3%"):
        token.updateMaxWalletAmount(90000, {"from": owner})
   tx = token.updateMaxWalletAmount(350000, {"from": owner})
   assert tx.events['UpdatedMaxWalletAmount'][0]['newAmount'] == 350000e18
```

```
def test_update_swap_treshold(only_local):
   # Arrange
   owner = get_account(0)
   other = get account(1)
   extra = get account(2)
   factory = deploy_factory(owner, owner)
   weth = deploy weth(owner)
   router = deploy_router(owner, factory.address, weth.address)
   token = deploy_norexa(owner, router.address)
   with reverts("only TreasuryAddress can change swapThreshold"):
        token.updateSwapThreshold(100, {"from": other})
   tx = token.updateSwapThreshold(350, {"from":
'0x60c6C46Ee0180144099e40FA05eF855Ca2C04B75"})
   assert token.swapTokensAtAmount() == 350e18
def test_transfer_foreign(only_local):
   # Arrange
   owner = get_account(0)
   other = get_account(1)
   extra = get_account(2)
   treasury = "0x60c6C46Ee0180144099e40FA05eF855Ca2C04B75"
   factory = deploy_factory(owner, owner)
   weth = deploy_weth(owner)
   router = deploy_router(owner, factory.address, weth.address)
   token = deploy_norexa(owner, router.address)
   with reverts("_token address cannot be 0"):
        token.transferForeignToken(ZERO_ADDRESS, other, {"from": other})
   with reverts("only TreasuryAddress can withdraw"):
        token.transferForeignToken(token.address, other, {"from": other})
```

```
with reverts("amount must be greater than 0"):
        token.transferForeignToken(token.address, other, {"from": treasury})
   token.removeLimits({"from": owner})
   token.transfer(token.address, 1e18, {"from": owner})
   tx = token.transferForeignToken(token.address, other, {"from": treasury})
   assert tx.events['TransferForeignToken'][0]['token'] == token.address
   assert tx.events['TransferForeignToken'][0]['amount'] == 1e18
def test_update_buy_fee(only_local):
   # Arrange
   owner = get_account(0)
   other = get_account(1)
   extra = get_account(2)
   factory = deploy_factory(owner, owner)
   weth = deploy_weth(owner)
   router = deploy_router(owner, factory.address, weth.address)
   token = deploy_norexa(owner, router.address)
   with reverts("Ownable: caller is not the owner"):
        token.updateBuyFee(25, {"from": other})
   with reverts("Fees must be 30% or less"):
        token.updateBuyFee(35, {"from": owner})
   tx = token.updateBuyFee(10, {"from": owner})
   assert token.buyFee() == 10
def test_update_sell_fee(only_local):
   # Arrange
   owner = get_account(0)
   other = get_account(1)
   extra = get_account(2)
```

```
factory = deploy_factory(owner, owner)
   weth = deploy_weth(owner)
   router = deploy router(owner, factory.address, weth.address)
   token = deploy norexa(owner, router.address)
   with reverts("Ownable: caller is not the owner"):
        token.updateSellFee(25, {"from": other})
   with reverts("Fees must be 30% or less"):
        token.updateSellFee(35, {"from": owner})
   tx = token.updateSellFee(10, {"from": owner})
   assert token.sellFee() == 10
def test_transfer(only_local):
   # Arrange
   owner = get_account(0)
   other = get_account(1)
   extra = get_account(2)
   another = get_account(3)
   factory = deploy_factory(owner, owner)
   weth = deploy_weth(owner)
   router = deploy_router(owner, factory.address, weth.address)
   token = deploy norexa(owner, router.address)
   pair = token.uniswapV2Pair()
   with reverts("ERC20: transfer from the zero address"):
        token.transfer(other, 1e18, {"from": ZERO_ADDRESS})
   with reverts("ERC20: transfer to the zero address"):
        token.transfer(ZERO_ADDRESS, 1e18, {"from": other})
   with reverts("amount must be greater than 0"):
        token.transfer(extra, 0, {"from": other})
   with reverts("Trading is not active."):
```

```
token.transfer(extra, 1e18, {"from": other})
# enable trading
with reverts("Ownable: caller is not the owner"):
    token.enableTrading(True, 0, {"from": other})
tx = token.enableTrading(True, 0, {"from": owner})
assert tx.events['EnabledTrading'][0]['tradingActive'] == True
assert tx.events['EnabledTrading'][0]['deadBlocks'] == 0
with reverts("Cannot re enable trading"):
    token.enableTrading(True, 0, {"from": owner})
with reverts("ERC20: transfer amount exceeds balance"):
    token.transfer(extra, 1e18, {"from": other})
# set fee
token.updateBuyFee(10, {"from": owner})
token.updateSellFee(20, {"from": owner})
# some transfers
tx = token.transfer(other, 10e18, {"from": owner})
token.transfer(extra, 10e18, {"from": owner})
with reverts("Cannot Exceed max wallet"):
    token.transfer(extra, 50_000_000e18, {"from": other})
with reverts("Sell transfer amount exceeds the max sell."):
    token.transfer(pair, 50_000_000e18, {"from": other})
with reverts("Buy transfer amount exceeds the max buy."):
    token.transfer(other, 50_000_000e18, {"from": pair})
# normal transfer
tx = token.transfer(extra, 1e18, {"from": other})
assert tx.events['Transfer'][0]['from'] == other
assert tx.events['Transfer'][0]['to'] == extra
assert tx.events['Transfer'][0]['value'] == 1e18
```

```
tx = token.transfer(pair, 2e18, {"from": other})
assert tx.events['Transfer'][0]['from'] == other
assert tx.events['Transfer'][0]['to'] == token.address
assert tx.events['Transfer'][0]['value'] == 0.4e18
assert tx.events['Transfer'][1]['from'] == other
assert tx.events['Transfer'][1]['to'] == pair
assert tx.events['Transfer'][1]['value'] == 1.6e18
# buy fee check (10%)
tx = token.transfer(extra, 1e18, {"from": pair})
assert tx.events['Transfer'][0]['from'] == pair
assert tx.events['Transfer'][0]['to'] == token.address
assert tx.events['Transfer'][0]['value'] == 0.1e18
assert tx.events['Transfer'][1]['from'] == pair
assert tx.events['Transfer'][1]['to'] == extra
assert tx.events['Transfer'][1]['value'] == 0.9e18
assert token.tokensForTreasury() == 0.5e18
```

Technical Findings Summary

Findings

Vulnerability Level	Total	Pending	Not Apply	Acknowledged	Partially Fixed	Fixed
High	2					
Medium	0					
Low	0					
Informational	2		1			

Assessment Results

Score Results

Review	Score
Global Score	75/100
Assure KYC	Not completed
Audit Score	75/100

The Following Score System Has been Added to this page to help understand the value of the audit, the maximum score is 100, however to attain that value the project must pass and provide all the data needed for the assessment. Our Passing Score has been changed to 84 Points for a higher standard, if a project does not attain 85% is an automatic failure. Read our notes and final assessment below. The Global Score is a combination of the evaluations obtained between having or not having KYC and the type of contract audited together with its manual audit.

Audit FAIL

Following our comprehensive security audit of the token contract for the Norexa project, the project did not fulfill the necessary criteria required to pass the security audit.

Disclaimer

Assure Defi has conducted an independent security assessment to verify the integrity of and highlight any vulnerabilities or errors, intentional or unintentional, that may be present in the reviewed code for the scope of this assessment. This report does not constitute agreement, acceptance, or advocating for the Project, and users relying on this report should not consider this as having any merit for financial Norexa in any shape, form, or nature. The contracts audited do not account for any economic developments that the Project in question may pursue, and the veracity of the findings thus presented in this report relate solely to the proficiency, competence, aptitude, and discretion of our independent auditors, who make no guarantees nor assurance that the contracts are entirely free of exploits, bugs, vulnerabilities or deprecation of technologies.

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