

XSPACE

Smart Contract Audit Report





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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain	
XSPACE	XSPACE	Binance Smart Chain	

Addresses

Contract address	0xad90c05bc51672eedfee36e58b3ff1a78bbc146d
Contract deployer address	0xaA9D8301140eD16Cf91948585cE6171aB6842A80

Project Website

https://twitter.com/xspaceofficial

Codebase

https://bscscan.com/address/0xad90c05bc51672eedfee36e58b3ff1a78bbc146d#code



SUMMARY

Contract Summary

Documentation Quality

XSPACE provides a very good documentation with standard of solidity base code.

• The technical description is provided clearly and structured and also dont have any high risk issue.

Code Quality

The Overall quality of the basecode is standard.

 Standard solidity basecode and rules are already followed by XSPACE with the discovery of several low issues.

Test Coverage

Test coverage of the project is 100% (Through Codebase)

Audit Findings Summary

- SWC-100 SWC-108 | Explicitly define visibility for all state variables on lines 733.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 121, 153, 176, 177, 212, 248, 475, 716, 716, 716, 716, 717, 717, 736, 736, 736, 736, 737, 737, 737, 868, 870, 907, 953, 972, 978 and 870.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 22.
- SWC-110 SWC-123 | It is recommended to use of revert(), assert(), and require() in Solidity, and the new REVERT opcode in the EVM on lines 869, 870, 870, 954, 954, 955, 956, 1081 and 1082.



CONCLUSION

We have audited the XSPACE project released on April 2021 to discover issues and identify potential security vulnerabilities in XSPACE Project. This process is used to find technical issues and security loopholes which might be found in the smart contract.

The security audit report provides satisfactory results with low-risk issues.

The issues found in the XSPACE smart contract code do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issues found are some arithmetic operation issues, a floating pragma is set, a state variable visibility is not set, and out-of-bounds array access which the index access expression can cause an exception in case of the use of an invalid array index value. The current pragma Solidity directive is ""^0.6.12"". Specifying a fixed compiler version is recommended to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code. State variable visibility is not set, the best practice is to set the visibility of state variables explicitly. The default visibility for "inSwapAndLiquify" is internal. Other possible visibility settings are public and private.



AUDIT RESULT

Article	Category	Description	Result	
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.		
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	ISSUE FOUND	
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS	
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	ISSUE FOUND	
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	ould be PASS	
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.	PASS	
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	e while it PASS	
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	ould be followed PASS	
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.	PASS	
Assert Violation	SWC-110 SWC-123	. ,		
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	sed. PASS	
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.		



DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	
Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	
Signature Unique ID	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id.	
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	
Shadowing State Variable	SWC-119	C-119 State variables should not be shadowed.	
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	
Write to Arbitrary Storage Location	The contract is responsible for ensuring that only authorized user or contract accounts may write to sensitive storage locations.		PASS
Incorrect Inheritance Order	SWC-125		PASS
Insufficient Gas Griefing	Insufficient gas griefing attacks can be performed on contracts which accept data and use it in a sub-call on another contract.		PASS
Arbitrary Jump Function	SWC-127	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	PASS



Typographical Error	SWC-129	A typographical error can occur for example when the intent of a defined operation is to sum a number to a variable.	PASS
Override control character	SWC-130	Malicious actors can use the Right-To-Left-Override unicode character to force RTL text rendering and confuse users as to the real intent of a contract.	
Unused variables	SWC-131 SWC-135	Unused variables are allowed in Solidity and they do not pose a direct security issue.	PASS
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	
Hash Collisions Variable	SWC-133	Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	
Hardcoded gas amount	SWC-134	The transfer() and send() functions forward a fixed amount of 2300 gas.	PASS
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	PASS



SMART CONTRACT ANALYSIS

Started	Thursday Apr 01 2021 15:05:58 GMT+0000 (Coordinated Universal Time)		
Finished	Friday Apr 02 2021 14:51:47 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	xSpace.sol		

Detected Issues

ID	Title	Severity	Status
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged



SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged



SWC-101	COMPILER-REWRITABLE " <uint> - 1" DISCOVERED</uint>	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged



LINE 121

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
function add(uint256 a, uint256 b) internal pure returns (uint256) {
  uint256 c = a + b;
  require(c >= a, "SafeMath: addition overflow");
  return c;
  return c;
}
```



LINE 153

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
152  require(b <= a, errorMessage);
153  uint256 c = a - b;
154
155  return c;
156  }
157</pre>
```



LINE 176

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
175
176    uint256    c = a * b;
177    require(c / a == b, "SafeMath: multiplication overflow");
178
179    return c;
180
```



LINE 177

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
176    uint256    c = a * b;
177    require(c / a == b, "SafeMath: multiplication overflow");
178
179    return c;
180    }
181
```



LINE 212

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
211    require(b > 0, errorMessage);
212    uint256 c = a / b;
213    // assert(a == b * c + a % b); // There is no case in which this doesn't hold
214
215    return c;
216
```



LINE 248

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
247 require(b != 0, errorMessage);
248 return a % b;
249 }
250 }
251
252
```



LINE 475

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
474  _owner = address(0);
475  _lockTime = now + time;
476  emit OwnershipTransferred(_owner, address(0));
477  }
478
479
```



LINE 716

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
715 uint256 private constant MAX = ~uint256(0);
716 uint256 private _tTotal = 10000000000 * 10**6 * 10**9;
717 uint256 private _rTotal = (MAX - (MAX % _tTotal));
718 uint256 private _tFeeTotal;
719
720
```



LINE 716

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
715 uint256 private constant MAX = ~uint256(0);
716 uint256 private _tTotal = 10000000000 * 10**6 * 10**9;
717 uint256 private _rTotal = (MAX - (MAX % _tTotal));
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720
```



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```



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716 uint256 private _tTotal = 10000000000 * 10**6 * 10**9;
717 uint256 private _rTotal = (MAX - (MAX % _tTotal));
718 uint256 private _tFeeTotal;
719
720
```



LINE 717

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
716    uint256    private _tTotal = 1000000000 * 10**6 * 10**9;

717    uint256    private _rTotal = (MAX - (MAX % _tTotal));

718    uint256    private _tFeeTotal;

719

720    string private _name = "XSPACE";

721
```



LINE 717

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
716    uint256    private _tTotal = 1000000000 * 10**6 * 10**9;

717    uint256    private _rTotal = (MAX - (MAX % _tTotal));

718    uint256    private _tFeeTotal;

719

720    string private _name = "XSPACE";

721
```



LINE 736

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
735
736 uint256 public _maxTxAmount = 5000000 * 10**6 * 10**9;
737 uint256 private numTokensSellToAddToLiquidity = 500000 * 10**6 * 10**9;
738
739 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
740
```



LINE 736

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
735
736 uint256 public _maxTxAmount = 5000000 * 10**6 * 10**9;
737 uint256 private numTokensSellToAddToLiquidity = 500000 * 10**6 * 10**9;
738
739 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
740
```



LINE 736

low SEVERITY

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Source File

- xSpace.sol

```
735
736 uint256 public _maxTxAmount = 5000000 * 10**6 * 10**9;
737 uint256 private numTokensSellToAddToLiquidity = 500000 * 10**6 * 10**9;
738
739 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
740
```



LINE 736

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
735
736 uint256 public _maxTxAmount = 5000000 * 10**6 * 10**9;
737 uint256 private numTokensSellToAddToLiquidity = 500000 * 10**6 * 10**9;
738
739 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
740
```



LINE 737

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
736  uint256 public _maxTxAmount = 5000000 * 10**6 * 10**9;
737  uint256 private numTokensSellToAddToLiquidity = 500000 * 10**6 * 10**9;
738
739  event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
740  event SwapAndLiquifyEnabledUpdated(bool enabled);
741
```



LINE 737

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
736  uint256 public _maxTxAmount = 5000000 * 10**6 * 10**9;
737  uint256 private numTokensSellToAddToLiquidity = 500000 * 10**6 * 10**9;
738
739  event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
740  event SwapAndLiquifyEnabledUpdated(bool enabled);
741
```



LINE 737

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
vuint256 public _maxTxAmount = 5000000 * 10**6 * 10**9;
uint256 private numTokensSellToAddToLiquidity = 500000 * 10**6 * 10**9;

event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);

event SwapAndLiquifyEnabledUpdated(bool enabled);

741
```



LINE 737

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
vuint256 public _maxTxAmount = 5000000 * 10**6 * 10**9;
uint256 private numTokensSellToAddToLiquidity = 500000 * 10**6 * 10**9;

event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);

event SwapAndLiquifyEnabledUpdated(bool enabled);

741
```



LINE 868

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
867 require(_isExcluded[account], "Account is already excluded");
868 for (uint256 i = 0; i < _excluded.length; i++) {
869    if (_excluded[i] == account) {
870        _excluded[i] = _excluded.length - 1];
871        _tOwned[account] = 0;
872</pre>
```



LINE 870

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
if (_excluded[i] == account) {
870    _excluded[i] = _excluded[_excluded.length - 1];
871    _tOwned[account] = 0;
872    _isExcluded[account] = false;
873    _excluded.pop();
874
```



LINE 907

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol



LINE 953

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
952  uint256 tSupply = _tTotal;
953  for (uint256 i = 0; i < _excluded.length; i++) {
954   if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
955   rSupply = rSupply.sub(_rOwned[_excluded[i]]);
956   tSupply = tSupply.sub(_tOwned[_excluded[i]]);
957
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 972

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
971 return _amount.mul(_taxFee).div(
972    10**2
973 );
974 }
975
976
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 978

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
977 return _amount.mul(_liquidityFee).div(
978    10**2
979    );
980    }
981
982
```



SWC-101 | COMPILER-REWRITABLE "<UINT> - 1" DISCOVERED

LINE 870

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- xSpace.sol

```
if (_excluded[i] == account) {
870    _excluded[i] = _excluded[_excluded.length - 1];
871    _tOwned[account] = 0;
872    _isExcluded[account] = false;
873    _excluded.pop();
874
```



SWC-103 | A FLOATING PRAGMA IS SET.

LINE 22

low SEVERITY

The current pragma Solidity directive is ""^0.6.12"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- xSpace.sol

```
21 **/
22 pragma solidity ^0.6.12;
23 // SPDX-License-Identifier: Unlicensed
24 interface IERC20 {
25
26
```



SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 733

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "inSwapAndLiquify" is internal. Other possible visibility settings are public and private.

Source File

- xSpace.sol

```
732
733 bool inSwapAndLiquify;
734 bool public swapAndLiquifyEnabled = true;
735
736 uint256 public _maxTxAmount = 5000000 * 10**6 * 10**9;
737
```



LINE 869

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- xSpace.sol

```
868 for (uint256 i = 0; i < _excluded.length; i++) {
869   if (_excluded[i] == account) {
870    _excluded[i] = _excluded[_excluded.length - 1];
871   _tOwned[account] = 0;
872    _isExcluded[account] = false;
873</pre>
```



LINE 870

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- xSpace.sol

```
if (_excluded[i] == account) {
870    _excluded[i] = _excluded[_excluded.length - 1];
871    _t0wned[account] = 0;
872    _isExcluded[account] = false;
873    _excluded.pop();
874
```



LINE 870

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- xSpace.sol

```
if (_excluded[i] == account) {
870    _excluded[i] = _excluded[_excluded.length - 1];
871    _t0wned[account] = 0;
872    _isExcluded[account] = false;
873    _excluded.pop();
874
```



LINE 954

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- xSpace.sol

```
953 for (uint256 i = 0; i < _excluded.length; i++) {
954    if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
955    rSupply = rSupply.sub(_rOwned[_excluded[i]]);
956    tSupply = tSupply.sub(_tOwned[_excluded[i]]);
957    }
958
```



LINE 954

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- xSpace.sol

```
953 for (uint256 i = 0; i < _excluded.length; i++) {
954    if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
955    rSupply = rSupply.sub(_rOwned[_excluded[i]]);
956    tSupply = tSupply.sub(_tOwned[_excluded[i]]);
957    }
958
```



LINE 955

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- xSpace.sol

```
954  if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
955   rSupply = rSupply.sub(_rOwned[_excluded[i]]);
956   tSupply = tSupply.sub(_tOwned[_excluded[i]]);
957  }
958   if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
959</pre>
```



LINE 956

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- xSpace.sol

```
955  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
956  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
957  }
958  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
959  return (rSupply, tSupply);
960</pre>
```



LINE 1081

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- xSpace.sol

```
1080 address[] memory path = new address[](2);
1081 path[0] = address(this);
1082 path[1] = uniswapV2Router.WETH();
1083
1084 _approve(address(this), address(uniswapV2Router), tokenAmount);
1085
```



LINE 1082

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- xSpace.sol

```
1081 path[0] = address(this);
1082 path[1] = uniswapV2Router.WETH();
1083
1084 _approve(address(this), address(uniswapV2Router), tokenAmount);
1085
1086
```



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Sysfixed is a blockchain security certification organization established in 2021 with the objective to provide smart contract security services and verify their correctness in blockchain-based protocols. Sysfixed automatically scans for security vulnerabilities in Ethereum and other EVM-based blockchain smart contracts. Sysfixed a comprehensive range of analysis techniques—including static analysis, dynamic analysis, and symbolic execution—can accurately detect security vulnerabilities to provide an in-depth analysis report. With a vibrant ecosystem of world-class integration partners that amplify developer productivity, Sysfixed can be utilized in all phases of your project's lifecycle. Our team of security experts is dedicated to the research and improvement of our tools and techniques used to fortify your code.