



Alcazar

# Smart Contract Audit Report

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## Disclaimer

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# AUDITED DETAILS

## Audited Project

Project name	Token ticker	Blockchain
Alcazar	ALCAZAR	Ethereum

## Addresses

Contract address	0x10f44a834097469ac340592d28c479c442e99bfe
Contract deployer address	0x2FF9d7be466f674c8640466A55fFdd02b3a00864

## Project Website

<https://alcazar.world/>

## Codebase

<https://etherscan.io/address/0x10f44a834097469ac340592d28c479c442e99bfe#code>

# SUMMARY

Alcazar is building a next generation dApp with the purpose of making it possible for Alcazar to raffle away many high quality luxurious items in between holders. The raffles consist of items such as high-end luxury watches, vehicles, tickets to different events and high amounts of other tokens.

## Contract Summary

### Documentation Quality

Alcazar 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 Alcazar 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 978, 982 and 990.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 250, 282, 305, 306, 341, 377, 947, 947, 948, 948, 951, 951, 952, 952, 1013, 1014, 1017, 1147, 1154, 1162 and 1236.
- 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 1237, 1238, 1356, 1357, 1386 and 1387.
- SWC-120 | It is recommended to use external sources of randomness via oracles on lines 1118.

## CONCLUSION

We have audited the Alcazar project released on October 2022 to discover issues and identify potential security vulnerabilities in Alcazar 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 Alcazar 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, State variable visibility is not set, Potential use of "block.number" as a source of randomness, 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.

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Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.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

DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	PASS
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	PASS
Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	PASS
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	PASS
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.	PASS
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	PASS
Shadowing State Variable	SWC-119	State variables should not be shadowed.	PASS
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	ISSUE FOUND
Write to Arbitrary Storage Location	SWC-124	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	When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/.	PASS
Insufficient Gas Griefing	SWC-126	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.	PASS
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.	PASS
Hash Collisions Variable	SWC-133	Using <code>abi.encodePacked()</code> with multiple variable length arguments can, in certain situations, lead to a hash collision.	PASS
Hardcoded gas amount	SWC-134	The <code>transfer()</code> and <code>send()</code> 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	Monday Oct 24 2022 04:10:16 GMT+0000 (Coordinated Universal Time)
Finished	Tuesday Oct 25 2022 12:34:50 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	Alcazar.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-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT 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
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 250

## low SEVERITY

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

## Source File

- Alcazar.sol

## Locations

```
249 function add(uint256 a, uint256 b) internal pure returns (uint256) {  
250     uint256 c = a + b;  
251     require(c >= a, "SafeMath: addition overflow");  
252  
253     return c;  
254 }
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 282

## low SEVERITY

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

## Source File

- Alcazar.sol

## Locations

```
281   require(b <= a, errorMessage);
282   uint256 c = a - b;
283
284   return c;
285   }
286
```

## SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 305

### low SEVERITY

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

### Source File

- Alcazar.sol

### Locations

```
304
305  uint256 c = a * b;
306  require(c / a == b, "SafeMath: multiplication overflow");
307
308  return c;
309
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 306

## low SEVERITY

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

## Source File

- Alcazar.sol

## Locations

```
305  uint256 c = a * b;
306  require(c / a == b, "SafeMath: multiplication overflow");
307
308  return c;
309  }
310
```

## SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 341

### low SEVERITY

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

### Source File

- Alcazar.sol

### Locations

```
340   require(b > 0, errorMessage);
341   uint256 c = a / b;
342   // assert(a == b * c + a % b); // There is no case in which this doesn't hold
343
344   return c;
345
```

# SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 377

## low SEVERITY

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

## Source File

- Alcazar.sol

## Locations

```
376   require(b != 0, errorMessage);
377   return a % b;
378   }
379   }
380
381
```



# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 947

## low SEVERITY

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

## Source File

- Alcazar.sol

## Locations

```
946 // Supply
947 uint256 private _totalSupply = 1 * 1e9 * 1e18;
948 uint256 private minimumTokensBeforeSwap = _totalSupply * 25 / 100000;
949
950 // Restrictions
951
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 947

## low SEVERITY

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

## Source File

- Alcazar.sol

## Locations

```
946 // Supply
947 uint256 private _totalSupply = 1 * 1e9 * 1e18;
948 uint256 private minimumTokensBeforeSwap = _totalSupply * 25 / 100000;
949
950 // Restrictions
951
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 948

## low SEVERITY

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

## Source File

- Alcazar.sol

## Locations

```
947 uint256 private _totalSupply = 1 * 1e9 * 1e18;  
948 uint256 private minimumTokensBeforeSwap = _totalSupply * 25 / 100000;  
949  
950 // Restrictions  
951 uint256 public _maxTxAmount = (_totalSupply * 8) / 1000;  
952
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 948

## low SEVERITY

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

## Source File

- Alcazar.sol

## Locations

```
947 uint256 private _totalSupply = 1 * 1e9 * 1e18;
948 uint256 private minimumTokensBeforeSwap = _totalSupply * 25 / 100000;
949
950 // Restrictions
951 uint256 public _maxTxAmount = (_totalSupply * 8) / 1000;
952
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 951

## low SEVERITY

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

## Source File

- Alcazar.sol

## Locations

```
950 // Restrictions
951 uint256 public _maxTxAmount = (_totalSupply * 8) / 1000;
952 uint256 public _walletMax = (_totalSupply * 8) / 1000;
953 bool public checkWalletLimit = true;
954
955
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 951

## low SEVERITY

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

## Source File

- Alcazar.sol

## Locations

```
950 // Restrictions
951 uint256 public _maxTxAmount = (_totalSupply * 8) / 1000;
952 uint256 public _walletMax = (_totalSupply * 8) / 1000;
953 bool public checkWalletLimit = true;
954
955
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 952

## low SEVERITY

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

## Source File

- Alcazar.sol

## Locations

```
951 uint256 public _maxTxAmount = (_totalSupply * 8) / 1000;
952 uint256 public _walletMax = (_totalSupply * 8) / 1000;
953 bool public checkWalletLimit = true;
954
955 // wallets
956
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 952

## low SEVERITY

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

## Source File

- Alcazar.sol

## Locations

```
951 uint256 public _maxTxAmount = (_totalSupply * 8) / 1000;
952 uint256 public _walletMax = (_totalSupply * 8) / 1000;
953 bool public checkWalletLimit = true;
954
955 // wallets
956
```



## SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1013

### low SEVERITY

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

### Source File

- Alcazar.sol

### Locations

```
1012 // load total fees
1013 totalFeesBuy = operationsFeeBuy + liquidityFeeBuy;
1014 totalFeesSell = operationsFeeSell + liquidityFeeSell;
1015
1016 // load total distribution
1017
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1014

## low SEVERITY

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

## Source File

- Alcazar.sol

## Locations

```
1013 totalFeesBuy = operationsFeeBuy + liquidityFeeBuy;
1014 totalFeesSell = operationsFeeSell + liquidityFeeSell;
1015
1016 // load total distribution
1017 _totalDistributionShares = _liquiditySharePercentage + _operationsSharePercentage;
1018
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1017

## low SEVERITY

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

## Source File

- Alcazar.sol

## Locations

```
1016 // load total distribution
1017 _totalDistributionShares = _liquiditySharePercentage + _operationsSharePercentage;
1018
1019 // create router -----
1020 IUniswapV2Router02 _uniswapV2Router;
1021
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1147

## low SEVERITY

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

## Source File

- Alcazar.sol

## Locations

```
1146 liquidityFeeBuy = _liquidityFee;
1147 totalFeesBuy = operationsFeeBuy + liquidityFeeBuy;
1148 require(totalFeesBuy <= maxTotalFeeBuy, "Must keep fees at maxTotalFeeBuy or
less");
1149 }
1150
1151
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1154

## low SEVERITY

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

## Source File

- Alcazar.sol

## Locations

```
1153 liquidityFeeSell = _liquidityFee;
1154 totalFeesSell = operationsFeeSell + liquidityFeeSell;
1155 require(totalFeesSell <= maxTotalFeeSell, "Must keep fees at maxTotalFeeSell or
less");
1156 }
1157
1158
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1162

## low SEVERITY

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

## Source File

- Alcazar.sol

## Locations

```
1161  _operationsSharePercentage = newOperationsShare;  
1162  _totalDistributionShares = _liquiditySharePercentage + _operationsSharePercentage;  
1163  require(_totalDistributionShares == 100, "Distribution needs to total to 100");  
1164  }  
1165  
1166
```

# SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1236

## low SEVERITY

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

## Source File

- Alcazar.sol

## Locations

```
1235   require(airdropWallets.length == amount.length, "airdropToWallets:: Arrays must be
the same length");
1236   for(uint256 i = 0; i < airdropWallets.length; i++){
1237     address wallet = airdropWallets[i];
1238     uint256 airdropAmount = amount[i];
1239     emit Transfer(msg.sender, wallet, airdropAmount);
1240
```

## SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 978

### low SEVERITY

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

### Source File

- Alcazar.sol

### Locations

```
977 // max amounts
978 mapping (address => uint256) _balances;
979 mapping (address => mapping (address => uint256)) private _allowances;
980 mapping (address => bool) public isExcludedFromFee;
981 mapping (address => bool) public isWalletLimitExempt;
982
```



## SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 982

### low SEVERITY

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

### Source File

- Alcazar.sol

### Locations

```
981 mapping (address => bool) public isWalletLimitExempt;  
982 mapping (address => bool) isTxLimitExempt;  
983  
984 // Router Information  
985 mapping (address => bool) public isMarketPair;  
986
```

## SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 990

### 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

- Alcazar.sol

### Locations

```
989 // toggle swap back (fees)
990 bool inSwapAndLiquify;
991 uint256 public tokensForLiquidity;
992 uint256 public tokensForOperations;
993
994
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1237

### low SEVERITY

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

### Source File

- Alcazar.sol

### Locations

```
1236 for(uint256 i = 0; i < airdropWallets.length; i++){
1237     address wallet = airdropWallets[i];
1238     uint256 airdropAmount = amount[i];
1239     emit Transfer(msg.sender, wallet, airdropAmount);
1240 }
1241
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1238

### low SEVERITY

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

### Source File

- Alcazar.sol

### Locations

```
1237     address wallet = airdropWallets[i];
1238     uint256 airdropAmount = amount[i];
1239     emit Transfer(msg.sender, wallet, airdropAmount);
1240 }
1241 }
1242
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1356

### low SEVERITY

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

### Source File

- Alcazar.sol

### Locations

```
1355     address[] memory path = new address[](2);
1356     path[0] = address(this);
1357     path[1] = uniswapV2Router.WETH();
1358     _approve(address(this), address(uniswapV2Router), tokenAmount);
1359     uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
1360
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1357

### low SEVERITY

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

### Source File

- Alcazar.sol

### Locations

```
1356 path[0] = address(this);
1357 path[1] = uniswapV2Router.WETH();
1358 _approve(address(this), address(uniswapV2Router), tokenAmount);
1359 uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
1360 tokenAmount,
1361
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1386

### low SEVERITY

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

### Source File

- Alcazar.sol

### Locations

```
1385     address[] memory path = new address[](2);
1386     path[0] = uniswapV2Router.WETH();
1387     path[1] = address(this);
1388
1389     // make the swap
1390
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1387

### low SEVERITY

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

### Source File

- Alcazar.sol

### Locations

```
1386 path[0] = uniswapV2Router.WETH();
1387 path[1] = address(this);
1388
1389 // make the swap
1390 uniswapV2Router.swapExactETHForTokensSupportingFeeOnTransferTokens{value:
ETHAmountInWei}(
1391
```



## SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.

LINE 1118

### low SEVERITY

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

### Source File

- Alcazar.sol

### Locations

```
1117 function getBlock()public view returns (uint256) {
1118     return block.number;
1119 }
1120
1121 // @dev Owner functions start -----
1122
```

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