

REPORT 63CC15C5AA1300001A78BA3A

Created Sat Jan 21 2023 16:41:41 GMT+0000 (Coordinated Universal Time)

Number of analyses 1

User 62b1a8425ec4948f52c83856

REPORT SUMMARY

Analyses ID Main source file Detected vulnerabilities

<u>65331abe-9f2b-4a37-9c8a-85cedd64186c</u> NFTInfo.sol 6

Started Sat Jan 21 2023 16:41:44 GMT+0000 (Coordinated Universal Time)

Finished Sat Jan 21 2023 18:07:18 GMT+0000 (Coordinated Universal Time)

Mode

Client Tool Remythx

Main Source File NFTInfo.Sol

DETECTED VULNERABILITIES

(HIGH	(MEDIUM	(LOW
0	0	6

ISSUES

LOW A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.8.9". 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 NFTInfo.sol Locations

1 //SPDX-License-Identifier:MIT
2 pragma solidity ^0.8.9

LOW

Write to persistent state following external call

SWC-107

The contract account state is accessed after an external call to a fixed address. To prevent reentrancy issues, consider accessing the state only before the call, especially if the callee is untrusted. Alternatively, a reentrancy lock can be used to prevent untrusted callees from re-entering the contract in an intermediate state.

Source file

NFTInfo.sol

Locations

```
if (_pathno == 0) {
setARTinWrapper(4, dummy, _tokennumber, _holder); //Resets to default URI
artenabled _tokennumber = 0;
}
if (_pathno == 1) {
```

LOW

Write to persistent state following external call

SWC-107

The contract account state is accessed after an external call to a fixed address. To prevent reentrancy issues, consider accessing the state only before the call, especially if the callee is untrusted. Alternatively, a reentrancy lock can be used to prevent untrusted callees from re-entering the contract in an intermediate state.

Source file

NFTInfo.sol

Locations

```
if (_pathno == 1) {
setARTinWrapper(4, dummy, _tokennumber, _holder); //Art path 1
artenabled _tokennumber = 1;
}
if (_pathno == 2) {
```

LOW

Write to persistent state following external call

SWC-107

The contract account state is accessed after an external call to a fixed address. To prevent reentrancy issues, consider accessing the state only before the call, especially if the callee is untrusted. Alternatively, a reentrancy lock can be used to prevent untrusted callees from re-entering the contract in an intermediate state.

Source file

NFTInfo.sol

Locations

```
if (_pathno == 2) {

setARTinWrapper(4, dummy, _tokennumber, _holder); //Art path 2

artenabled _tokennumber] = 2;

149 }

150 }
```

LOW

Multiple calls are executed in the same transaction.

SWC-113

This call is executed following another call within the same transaction. It is possible that the call never gets executed if a prior call fails permanently. This might be caused intentionally by a malicious callee. If possible, refactor the code such that each transaction only executes one external call or make sure that all callees can be trusted (i.e. they're part of your own codebase).

Source file

NFTInfo.sol

Locations

```
"Not Auth(U)"

106  );

107  wrapper wrapperaddress setStringArtPaths

108  _pathtype.

109  _path

111  _fokenid

111  _holder

112  i;

113 }
```

LOW Requirement violation.

A requirement was violated in a nested call and the call was reverted as a result. Make sure valid inputs are provided to the nested call (for instance, via passed arguments).

SWC-123

Source file NFTInfo.sol

Locations

```
"Not Auth!"

135 );

136 temp = wrapper wrapperaddress getArtApproval_tokennumber _holder; //requires the users approval to adjust the path!

137 require(temp == true, "Owner not approved!");

138 if (_pathno == 0) {
```

Source file NFTInfo.sol

```
Locations
       42
       43
             contract NFTInfo {
             //Arrays///
        45
             uint[] private blockednfts; //Array to handle a blocked nfts
        47
             address public wrapperaddress; //Address of Wrapper Contract
        48
             address public ruggedproject = 0x4bCa2A290bf88bdf3fc6Ea25c377134aE1C7cFed; //Address of the Rugged Project
        49
             address public Owner;
        50
             address public upgradecontract: //Additional contract which will be allowed to manage the TOKEN URI's
            uint private numwraps;
        52
        53
            uint <mark>public numholders</mark>;
            uint public numblocked;
        54
             /////Important Mappings//////
        55
             mapping(address => bool) internal wrapped; //Whether a holder has wrapped
        56
            mapping(address => bool) internal holder; //Whether they are a holds
        57
            mapping(uint => bool) internal blocked; //blocking due to mapping
        58
            mapping(uint => uint) internal artenabled. //Dynamic mapping of art path selection
mapping(address => bool) internal blockedaddresses. //Additional addresses to blacklist
        59
        60
        61
             address[] internal holderaddresses; //array to store the holders
        62
             63
             modifier onlyOwner() {
        65
            require(msg.sender == Owner);
        66
        68
            constructor() public {
        70
            Owner = msg sender; //Owner of Contract
        71
        72
        73
            ///Configure the important addresses for the contract
function configNBAddresses(uint option, address _address)
        74
        75
        76
            onlyOwner
        77
        78
            if (option == 1) {
        79
            wrapperaddress = _address;
        80
       81
            if (option == 2) {
        82
        83
            ruggedproject = _address;
       84
        85
            if (option == 3) {
             upgradecontract = _address;
```

```
88
89
90
      //Users to upgrade the TOKEN at a global level i.e Default URI
91
      // 1) 0 = Default URI for all toker
92
     // 2) 1 = Art Path 1 -> Customizable for all tokens
93
     // 3) 2 = Art Path 1 -> Customizable for all tokens
// 4) 3 = Specifies custom art for a single token
// 5) 4 = Sets token back to default URI (negates option 3)
function setARTinWrapper
95
97
98
     uint _pathtype,
99
     string memory _path,
      address _holder
101
102
     ) public {
     require(
     msg_sender == Owner || msg_sender == upgradecontract,
104
106
      wrapper(wrapperaddress).setStringArtPaths(
107
108
      _pathtype,
109
      _path,
      _tokenid,
      <u>_holder</u>
112
113
114
115
      //Obtain Art status for Token
116
      function getArtStatus(uint _tokenid)public view returns(uint)
117
118
      temp = artenabled[_tokenid];
120
     return temp;
121
123
      //This is slightly different from the above as this is used to set the ONLY the PATH for a token and not the Custom one (4)
     //This is used when the token needs to be running a different path or reset back. function setArtPath(
124
125
126
      uint _tokennumber,
      address _holder,
127
      uint _pathno
129
     ) external {
130
     bool temp;
131
     string memory dummy = ""; //dummy string to pass in
132
133
     msg_sender == Owner || msg_sender == upgradecontract,
134
      "Not Auth!"
135
      temp = wrapper(wrapperaddress).getArtApproval(_tokennumber, _holder); //requires the users approval to adjust the path!
136
     require(temp == true, "Owner not approved!");
137
138
139
      setARTinWrapper(4, dummy, _tokennumber, _holder); //Resets to default URI
     artenabled[_tokennumber] = 0;
140
141
142
     if (_pathno == 1) {
      setARTinWrapper(4, dummy, _tokennumber, _holder); //Art path 1
143
     artenabled[_tokennumber] = 1;
145
     if (_pathno == 2) {
146
     setARTinWrapper(4, dummy, _tokennumber, _holder); //Art path 2
147
148
     artenabled[_tokennumber] = 2;
149
```

```
151
152
     //Function to Verify whether an NFT is blocked
     function isBlockedNFT(uint _tokenID) external view returns (bool, uint256) {
153
154
     address tempaddress;
156
     temp = blocked[_tokenID]; //Is the block at Token Level?
     if (temp == false) // If not at token level,lets verify at address level
158
159
     tempaddress = ownerOfToken(_tokenID);
160
     temp = blockedaddresses[tempaddress]; // returns Bool dependant on block at address level
161
162
163
     return (temp, 0);
165
     //Function to return whether they are a holder or not
166
167
     function isHolder(address _address) external view returns (bool) {
168
     bool temp;
169
     if (holder[_address] == true) {
170
     temp = true;
171
     return temp;
174
     //Manage the user status i.e wrap=holder, unwarp=not a holder function manageHolderAddresses(bool status, address _holder) external
175
176
177
     require(
178
     msg_sender == wrapperaddress || msg_sender == Owner.
     "Not Oracle/Owner!"
179
180
181
     if (status == true) {
     (bool _isholder, ) = isHolderInArray(_holder);
183
184
     if (!_isholder) holderaddresses.push(_holder);
185
186
     if (status == false) {
187
     (bool _isholder, uint256 s) = isHolderInArray(_holder);
188
     if (_isholder) {
189
     holderaddresses[s] = holderaddresses[
190
     holderaddresses length - 1
191
192
     holderaddresses.pop();
193
194
     holder[_holder] = status;
195
196
197
198
     ////To keep track of holders for future use
     function manageNumHolders(uint _option) external (
199
200
     require(
201
     msg.sender == wrapperaddress || msg.sender == Owner,
202
     "Not Oracle/Owner!"
203
204
     if (_option == 1) //remove holder
206
     numholders -= numholders - 1;
207
208
     if (_option == 2) //add holder
209
210
     numholders += 1;
211
```

```
////Returns whether the user is stored in the array///////
function isHolderInArray(address _wallet) public view returns (bool, uint)
214
215
216
      for (uint256 s = 0; s < holderaddresses length; s += 1) {
      if (_wallet == holderaddresses[s]) return (true, s);
218
219
      return (false, 0);
220
221
223
     ///Function to manage addresses
224
225
226
      uint _tokenID,
227
228
      address _wallet,
229
     uint _numNFT,
230
231
      ) external onlyOwner {
      address temp;
233
     if (option == 1) // Add NFT to block list
234
235
      blocked[_tokenID] = true;
236
     numblocked += 1;
237
238
     if (option == 2) //Remove from mapping
239
240
     bool _isblocked = blocked[_tokenID];
241
     if (_isblocked) {
242
     blocked[_tokenID] = false;
243
     if (numblocked > 0) {
244
      numblocked -= 1;
245
246
247
248
249
     option == 3
250
      ) //Iterate through entire colletion and add. Added as a nice to have, but an iteration through an enite collection is expensive
251
252
     for (uint256 s = 0; s < _numNFT; s += 1) {</pre>
253
254
      temp = ownerOfToken(s);
255
256
     if (temp == _wallet) {
257
     blocked[s] = true;
258
     numblocked += 1;
260
261
262
263
      if (option == 4) {
264
      //setup blocking of addresses
265
     blockedaddresses[_wallet] = _onoroff;
266
267
268
269
     //Set the status of a user if they have wrapped!
270
     function setUserStatus(address _wrapper, bool _haswrapped) external {
271
      msg.sender == Owner || msg.sender == wrapperaddress,
273
      "Not Auth(WS)"
274
     wrapped[_wrapper] = _haswrapped;
```

```
numwraps += 1; //track number of wraps
277
278
       //Returns whether a user has wrapped before...

function getWrappedStatus(address _migrator) external view returns (bool) -
279
280
281
       bool temp;
282
       if (wrapped[_migrator] == true) {
283
       temp = true;
284
285
      return temp;
286
287
      //Returns stats based off
// 1) numbolders based off the number of wrappers
// 2) The length of the array with addresss of wrappers
// 3) The number of current blockedNFT's
function getNumHolders/uint _feed/ external view returns (uint) |
288
289
290
291
292
293
       uint temp;
294
      if (_feed == 1) {
295
       temp = numholders;
296
297
      if (_feed == 2) {
298
       temp = holderaddresses length;
299
       if (_feed == 3) {
301
       temp = blockednfts.length;
302
303
      return temp;
304
305
       ///Returns the holder address given an Index
function getHolderAddress(uint _index)
306
307
308
       external
309
310
      returns (address payable)
311
312
       address temp;
313
       address payable temp2;
314
       temp = holderaddresses[_index];
       temp2 = payable(temp);
315
316
       return temp2;
317
319
       //Returns OwnerOf the original Rugged NFT itself
      //Saves having to add an additional ABI in a webpage/contract to verify
320
       function ownerOfToken(uint _tid) public view returns (address)
321
322
       address temp;
323
      temp = ruggedNFT(ruggedproject).owner0f(_tid);
324
      return temp;
325
326
```