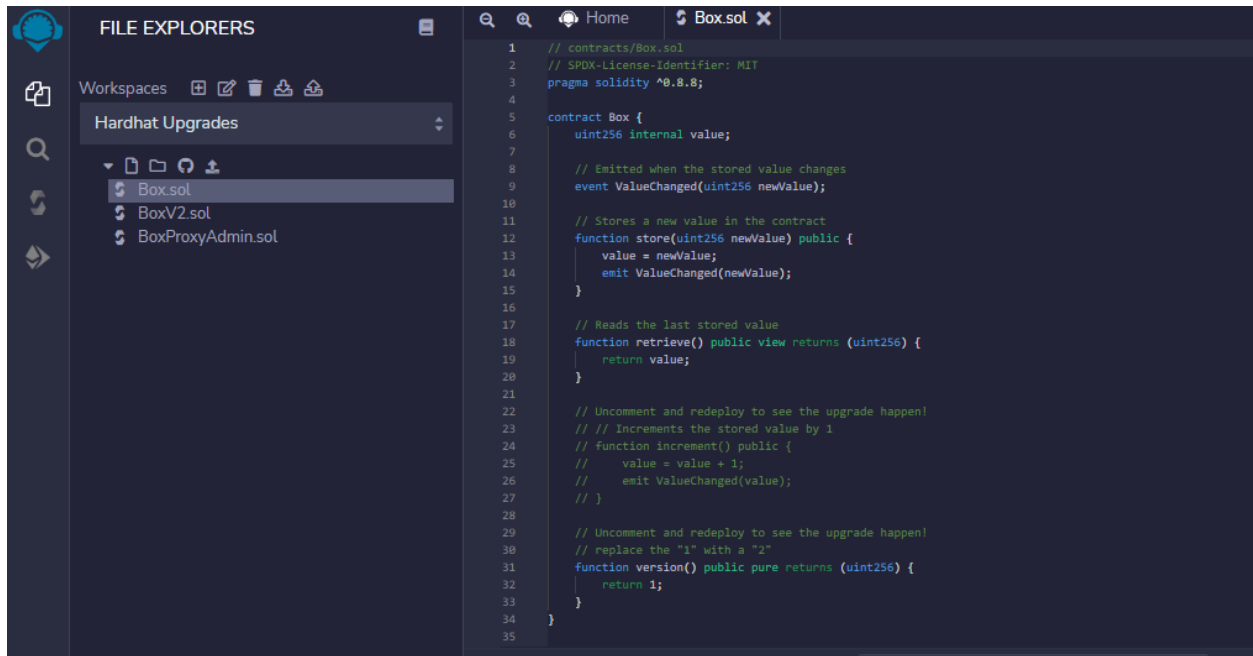
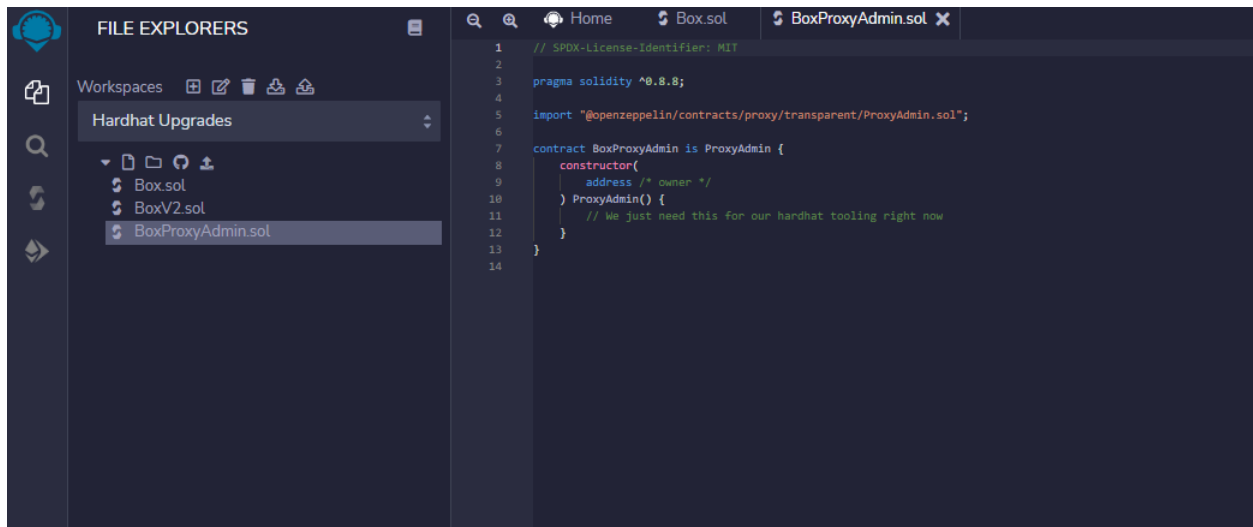


Hardhat Upgrades



The screenshot shows the VS Code interface with the 'Hardhat Upgrades' workspace. The 'FILE EXPLORERS' sidebar on the left lists the files: Box.sol, BoxV2.sol, and BoxProxyAdmin.sol. The main editor window displays the content of Box.sol, which is a Solidity contract. The code includes a pragma statement for Solidity version ^0.8.8, an internal uint256 variable, an event, a store function, a retrieve function, and an increment function with comments for redeployment.

```
1 // contracts/Box.sol
2 // SPDX-License-Identifier: MIT
3 pragma solidity ^0.8.8;
4
5 contract Box {
6     uint256 internal value;
7
8     // Emitted when the stored value changes
9     event ValueChanged(uint256 newValue);
10
11     // Stores a new value in the contract
12     function store(uint256 newValue) public {
13         value = newValue;
14         emit ValueChanged(newValue);
15     }
16
17     // Reads the last stored value
18     function retrieve() public view returns (uint256) {
19         return value;
20     }
21
22     // Uncomment and redeploy to see the upgrade happen!
23     // // Increments the stored value by 1
24     // function increment() public {
25     //     value = value + 1;
26     //     emit ValueChanged(value);
27     // }
28
29     // Uncomment and redeploy to see the upgrade happen!
30     // // replace the "1" with a "2"
31     function version() public pure returns (uint256) {
32         return 1;
33     }
34 }
35
```



The screenshot shows the VS Code interface with the 'Hardhat Upgrades' workspace. The 'FILE EXPLORERS' sidebar on the left lists the files: Box.sol, BoxV2.sol, and BoxProxyAdmin.sol. The main editor window displays the content of BoxProxyAdmin.sol, which is a Solidity contract that inherits from ProxyAdmin. It includes a pragma statement for Solidity version ^0.8.8, an import statement for ProxyAdmin, and a constructor that calls the ProxyAdmin constructor.

```
1 // SPDX-License-Identifier: MIT
2
3 pragma solidity ^0.8.8;
4
5 import "@openzeppelin/contracts/proxy/transparent/ProxyAdmin.sol";
6
7 contract BoxProxyAdmin is ProxyAdmin {
8     constructor(
9         address /* owner */
10     ) ProxyAdmin() {
11         // We just need this for our hardhat tooling right now
12     }
13 }
14
```

