

Manual Analysis:

contract name **CyberSyndicate**

Variables:

maxSupply: variable should be constant because it not going to change in future.

BaseExtension: variable is initialized but never used.

publicmintActiveTime: variable is past time so if we use this to check public active time it always returns same results which is in past.

metadataFolderIpfsLink: variable not defined by default. Its great to define this variable in constructor or hardcode where variable initialized.

Functions:

SetSaleActiveTime: you can remove this function and set **publicmintActiveTime** in constructor or pass in constant variable in top. Because it supposed to no update in future it only setup once.

Finding:

it uses **ERC4907A** contract because it allows owners and authorized addresses to add a time-limited role with restricted permissions to ERC721 tokens.

Visibility Modifier: We can see that there are number of functions use public visibility modifier. Its good approach is to used them as external if they are not called with in the contract. Or if they are called within the contract and outside of the contract then use of public modifier is fine. Here are list of functions from main contract you can use external modifier on them.

1. purchaseTokens
2. sendPreMintedNFT
3. adminMint
4. withdraw
5. setnftsForOwner
6. setDefaultRoyalty
7. setCostPerNft
8. setMetadataFolderIpfsLink
9. setSaleActiveTime