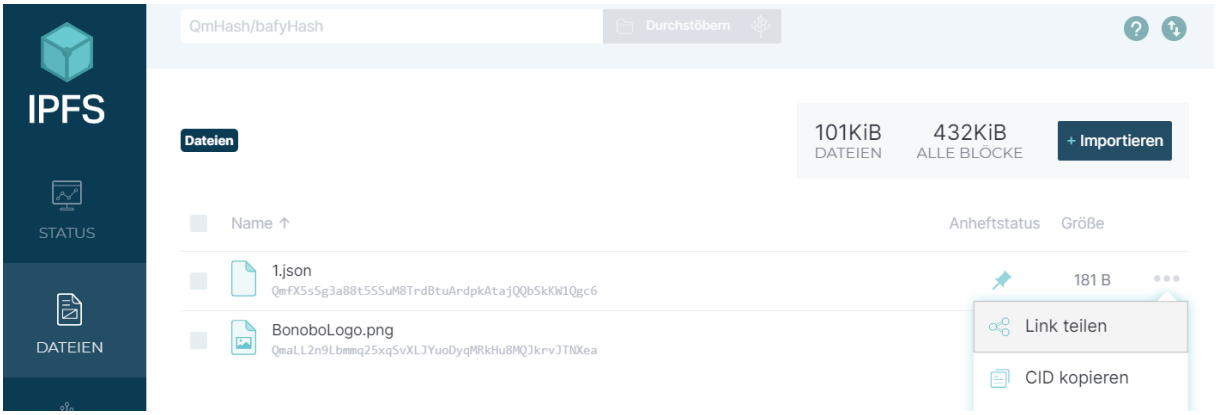
Hot to publish NFT to https://testnets.opensea.io/

With IPFS, Remix.etherium, Metamask and testnets.opensea

Setup IPFS:

„1.json“ is required.
Images can be stored anywhere (e.g. in a github repo), you just need to link them correctly in „1.json“



„share link“ will give you the url to the specific asset.

1.json:

```
{
   "name": "any name",
   "description": "any description ",
   "image": "link to your png, jpeg etc"
}
```

In remix (https://remix.ethereum.org/):

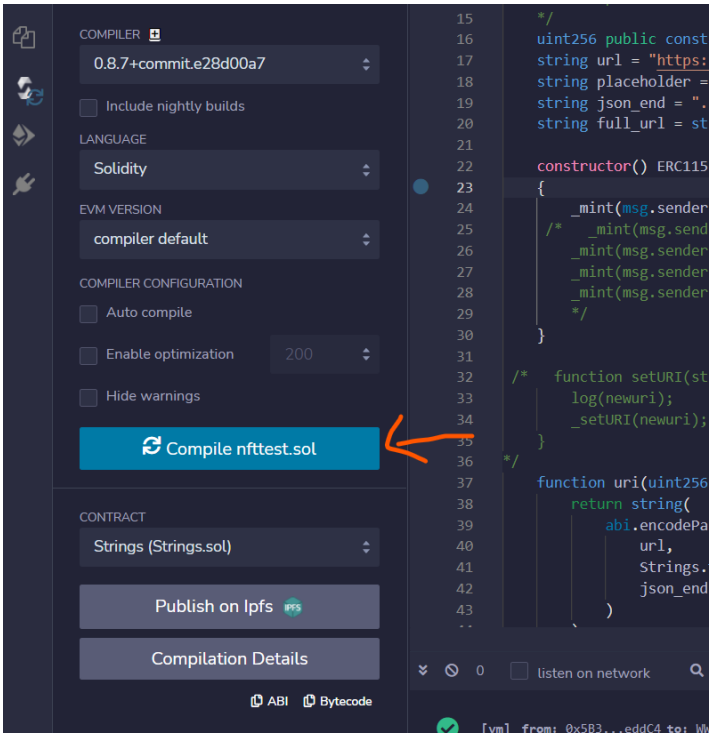
```
pragma solidity ^0.8.2;

import "https://github.com/OpenZeppelin/openzeppelin-contracts/blob/release-
v4.4/contracts/token/ERC1155/ERC1155.sol";
import "https://github.com/OpenZeppelin/openzeppelin-contracts/blob/release-
v4.4/contracts/access/Ownable.sol";
import "https://raw.githubusercontent.com/smart-contract-modules-
solidity/solidity-logger/main/src/logger.sol";
import "@openzeppelin/contracts/utils/Strings.sol";

contract WWI19SEBSEMIFUNGIBLENFTS is ERC1155, Ownable, Loggable {
    uint256 public constant NFTTYPE1ID = 1;
```

```
    uint256 public constant NUMBEROFCOPIES = 10;
    string url =
"https://ipfs.io/ipfs/QmfX5sSg3a88t5SSuM8TrdBtuArdpkAtajQQbSkKW1Qgc6?filename=
";
    string placeholder = "{id}";
    string json_end = ".json";
    string full_url = string(abi.encodePacked(url, placeholder, json_end));

    constructor() ERC1155(full_url)
    {
        _mint(msg.sender, NFTTYPE1ID, NUMBEROFCOPIES, "");
    }

    function uri(uint256 _tokenID) override public view returns (string
memory) {
        return string(
            abi.encodePacked(
                url,
                Strings.toString(_tokenID),
                json_end
            )
        );
    }
}
```

The „url“ should be the url to your „1.json“ you got from IPFS or the service you are using.

The hardcoded name of your asset needs to be replaced later, if you are minting multiple assets. That’s the reason for the string parsing.

First compile your code:

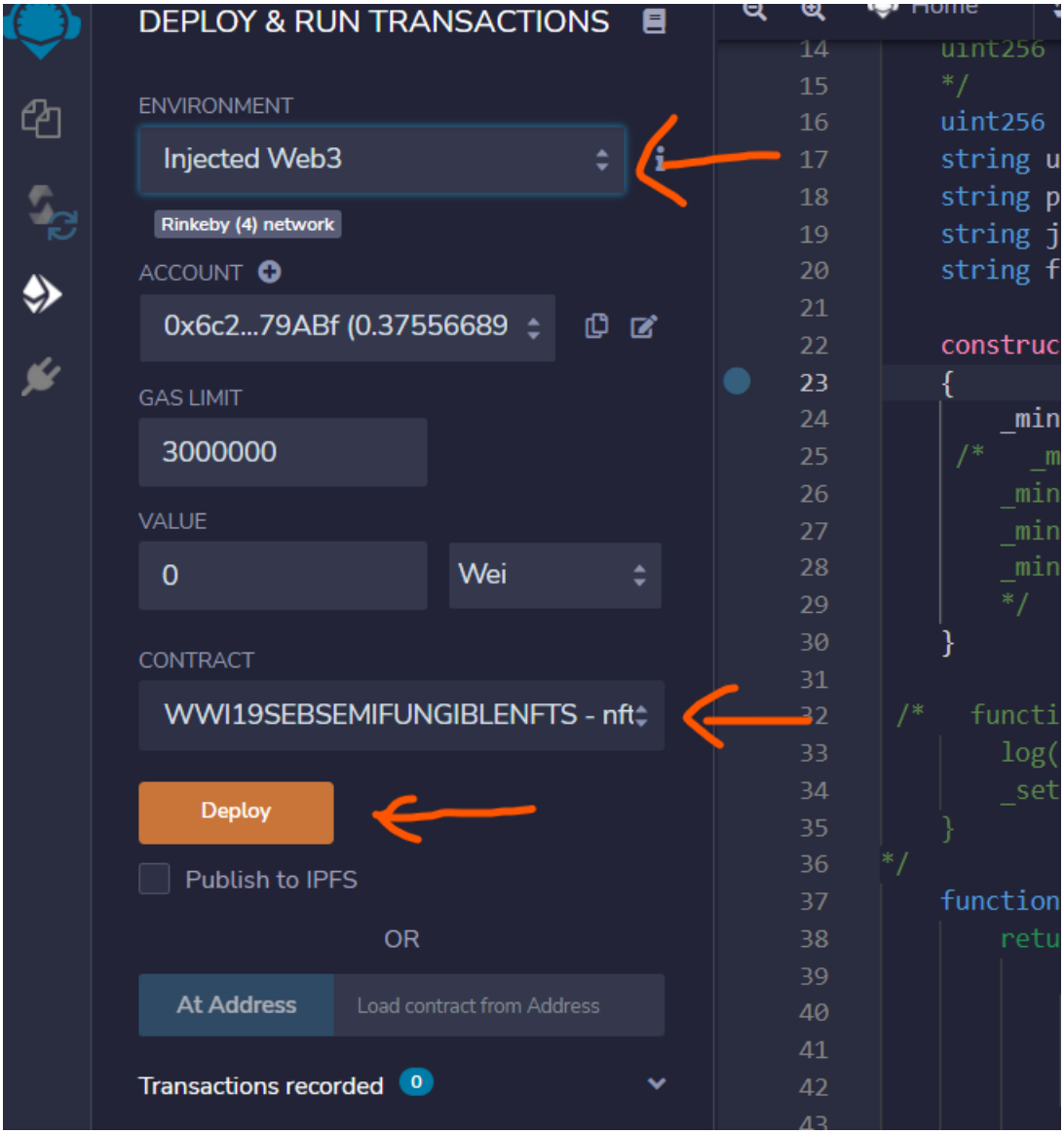


Then swap to deployment

select injected web3

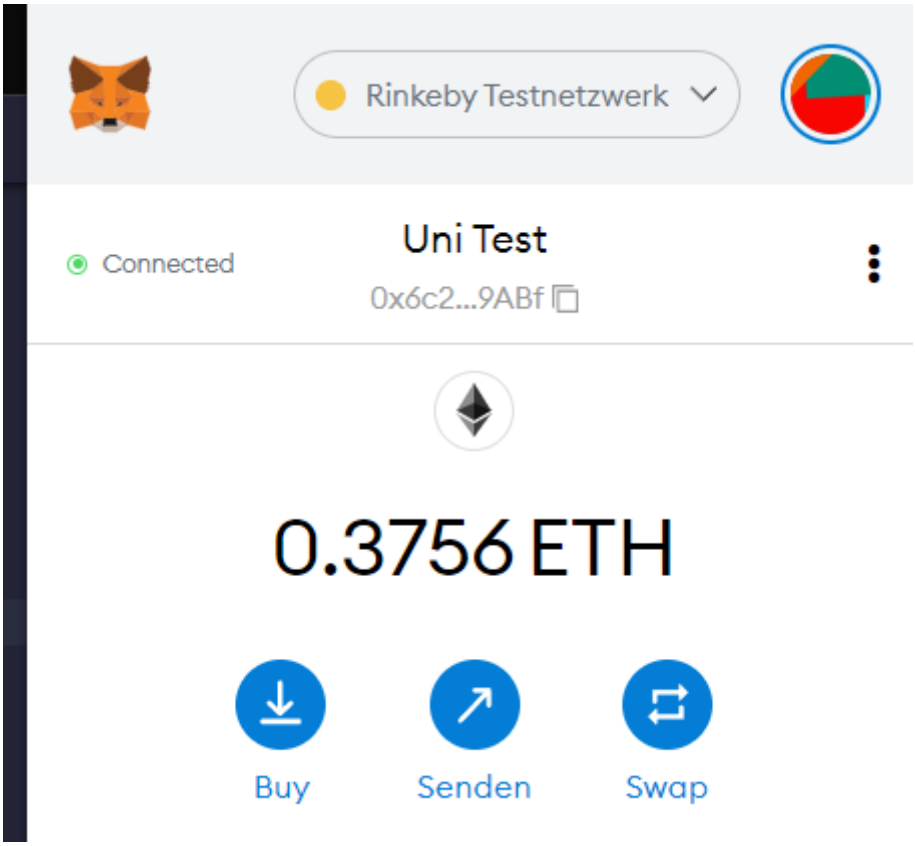
select your contract

deploy



Your metamask should open in the meanwhile

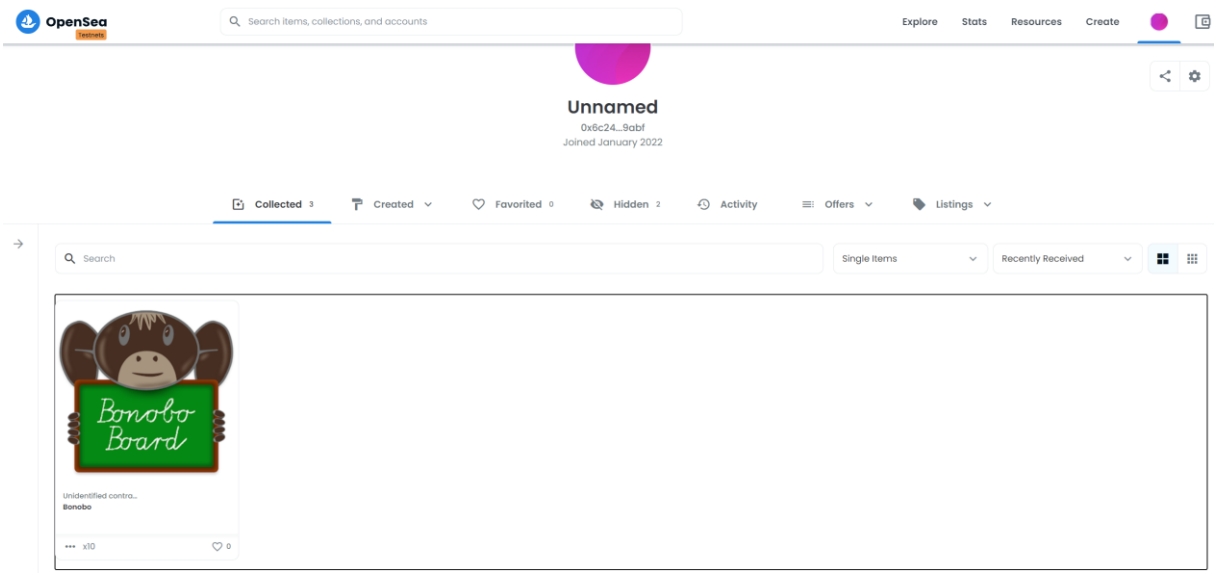
Make sure you have selected Rinkeby testnetwork and have some eth on Rinkeby (Checkout this for some eth and Link: https://faucets.chain.link/rinkeby)



Switch to https://testnets.opensea.io/

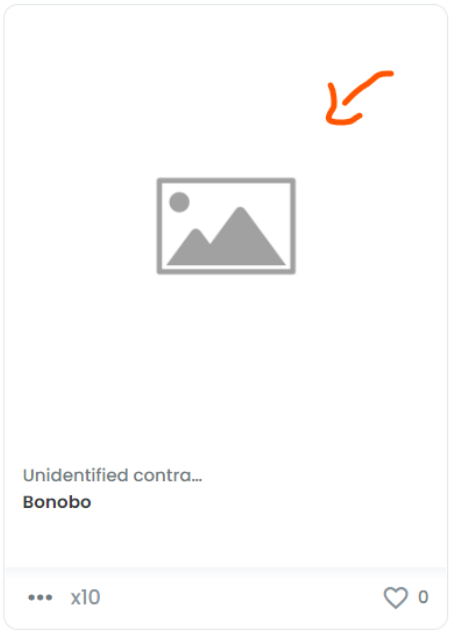
In your account you should see your newly minted NFT

If nothing is there, just keep refreshing, it can take up to 10 min on the eth mainnet. There are no timeframes given for Rinkeby by opensea tho…

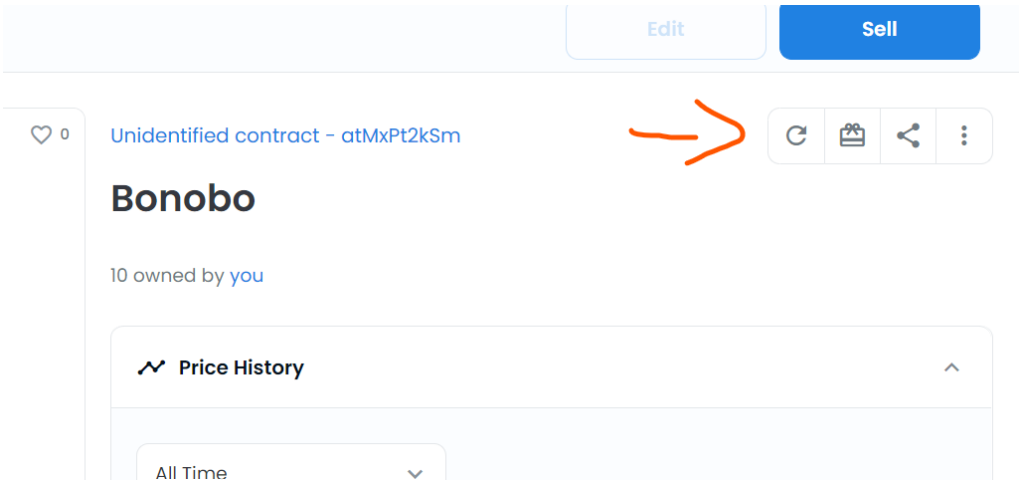


If your NFT is there, but the image is not loaded, follow these steps:

- Check, if you can see the image in the browser, with the link you inserted into “1.json”
- If you can’t, just wait a couple of minutes (IPFS needs time to distribute your imagefragments to different nodes.) If you don’t use IPFS, you need to fix the issue on your own, sorry.
- When the image can be visited in the browser, go back to https://testnets.opensea.io/



- Click on your NFT with no image



- Click “refresh” metadata and refresh your browser window
- This can take up to two minutes to work

Have fun!