

Deploying NFTs to Testnet

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What is a testnet?

- A testnet is a network meant for testing contracts and their functionalities on.
- Testnets for Ethereum include:
 - o Ropsten
 - Rinkeby
 - Kovan
 - o Goerli

To use a testnet, you need test ethers, generally obtained from a faucet.





Why use testnets?

- Test Ethereum software
- Experiment with software before mainnet launch
- Test how the contract interacts with other decentralized applications (other smart contracts on the testnet, MetaMask, etc.)





Ropsten

- Pros:
 - Best reproduces ETH mainnet environment (also PoW)
 - Can be used with all clients
 - Can be mined or obtained from a faucet

- Cons:
 - Not immune to spam attacks





Kovan

- Pros:
 - Immune to spam attacks

- Cons:
 - Not supported in Geth
 - Ether can't be mined (PoA)





Rinkeby

- Pros:
 - Immune to spam attacks

- Cons:
 - Only supported in Geth
 - Ether can't be mined (PoA)





Goerli

- Pros:
 - Supported by multiple clients

- Cons:
 - Ether can't be mined (PoA)







Faucets

- Websites that allow you to give an address that will then dispense test ethers for use
- Kovan requires Github Account
- Rinkeby requires you make a social media post







EVM Frameworks

- Truffle
- Remix
- Hardhat
- Brownie
- Waffle
- ...And many more!



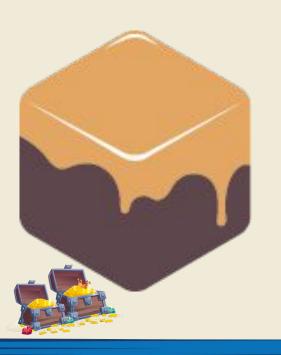


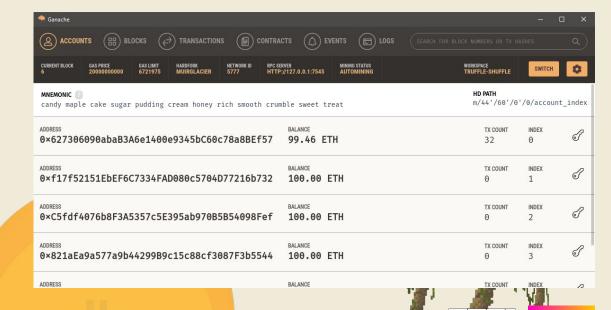






Ganache





Infura

- Provides tools for deploying on Ethereum blockchain
- Provides API that will be used in this tutorial







Metamask

- Cryptocurrency wallet browser extension
- Allows for interaction with decentralized applications on the blockchain







What is in an NFT?

- Minted to a blockchain via tokenURI
- Usually an IPFS file link, containing an image or a .json with information on the collectible







Now to deploy our test NFT...



Resources

- METAMASK
- Infura
- Truffle Suite
- Github Repository





Questions!





