# 1 Goerli Testnet:

Goerli Testnet is an Layer 1 (Ethereum side) of the Testnet. The ERC721 tokens are normally deployed in Layer1.

## 1.1 Network details:

RPC address/ChainId : <https://rpc.goerli.mudit.blog> (5)

Transaction explorer : <https://goerli.etherscan.io/>

Faucet for test ETHER : https://faucet.goerli.mudit.blog/

## 1.2 Token deployment:

ERC721 test token is deployed to the Goerli Testnet

Token Symbol/Name : RNFT / RunNFT

Address : 0x0C60862e9e44EC28A208AC99e24EA71cA9448132

# 2 Mumbai Testnet:

Mumbai Testnet is a Layer 2 (Polygon side) of the Testnet.

## 2.1 Network details:

RPC address/ChainId : <https://rpc-mumbai.maticvigil.com/> (80001)

Transaction explorer : https://mumbai.polygonscan.com/

Faucet for test MATIC : <https://faucet.polygon.technology/>

## 2.2 Token details:

The ERC721 token can be of two types. Both the token types allows the user to withdraw tokens from polygon to Ethereum

1. Poygon-non mintable : An Ethereum deployed ERC721 token can be bridged to a polygon ERC721 token. The ERC721 token minting will happen in Ethereum and then transferred to polygon.
2. Polygon mintable : ERC721 token that can be directly deployed and minted on Polygon.

## 2.3 Mapping ERC721 token from Ethereum to Polygon:

URL : <https://mapper.matic.today/map> Graphical user interface, application, Teams

Description automatically generated

Bridge Type : PoS

Choose Type of token : ERC721

Choose Network : Goerli Testnet – Mumbai Testnet

Ethereum Token address : Address of the ERC721 token in the Goerli Network <0x0C60862e9e44EC28A208AC99e24EA71cA9448132>

Polygon Token : N/A Optional

Token symbol/name : Should be auto-populated

Mintable/Non-Mintable : Non-Mintable (Refer section 2.3 for the difference)

Email : Email address for mapping notification

The created Polygon ERC721 token is <0xc26ba24c4bfb2e57497c002a032bc353b9723979>

## 2.4 Open sea for viewing tokens:

An ERC721 token successfully deployed can be verified in the opensea

<https://testnets.opensea.io/>

Our tokens can be verified at :

<https://testnets.opensea.io/collection/runnft-v2>

<https://testnets.opensea.io/collection/runnft-v3>

## 2.5 URI Handling for NFT Tokens:

In ERC721 the URI of each NFT token is made up of two components

1. baseURI
2. TokenId

The Base URI will be of the format. The URI for development purpose is hosted in <https://my-json-server.typicode.com/> which gives us a server with help of a db.json file in our github repository

The format of the server will be :  
my-json-server.typicode.com/user/repo/posts/1

Example : https://my-json-server.typicode.com/akp1989/ethereum/posts/

The token ID will be appended to the above base URI for each token

0 = https://my-json-server.typicode.com/akp1989/ethereum/posts/0

1= https://my-json-server.typicode.com/akp1989/ethereum/posts/1

The URI should contain the metadata for open sea

{

"description": "<description about the NFT>",

"external\_url": "<any external URL>",

"image": "<URL for the image>",

"name": "<name>",

"attributes": [ ... ],

}

Example metadata: 