

Internship Report

Blockchain & Crypto Internship

Task 02: Create and Deploy an ERC-20 Token on Polygon Amoy(

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Intern at Future Interns

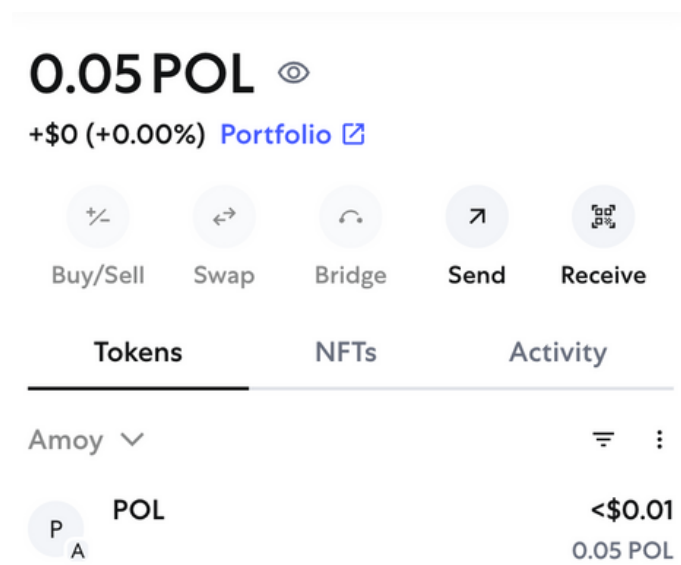
Date: June 26, 2025



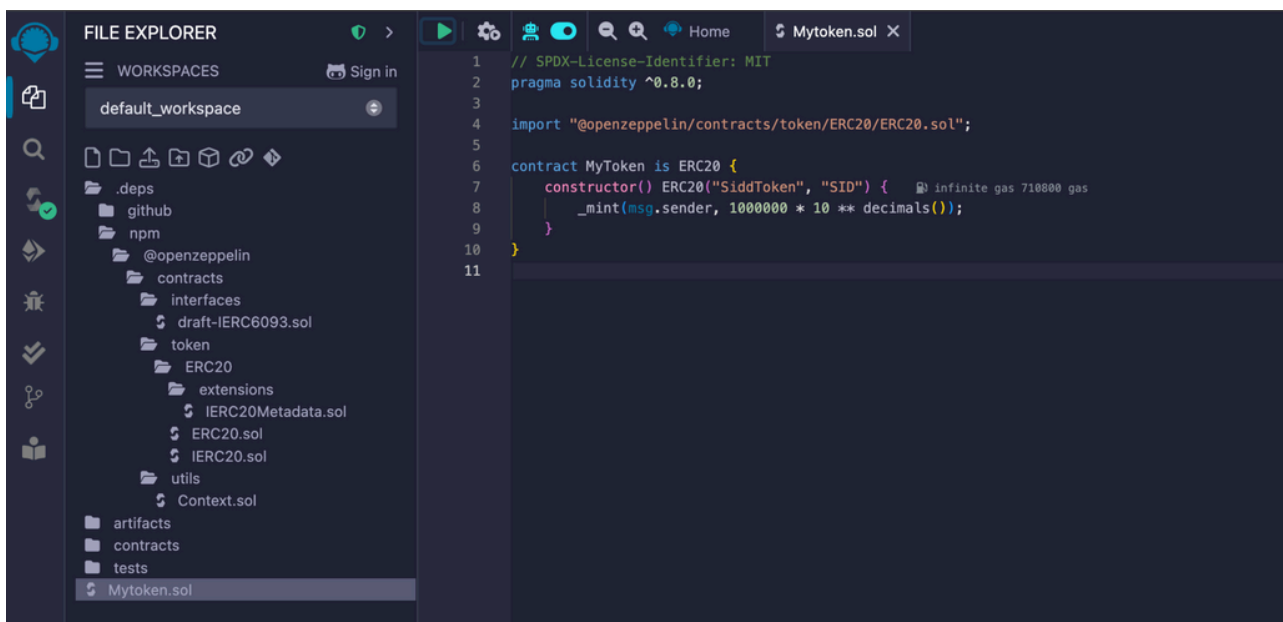
Task Overview:

The goal of Task 02 was to create a custom ERC-20 token using Solidity and deploy it on a public blockchain testnet. Due to the deprecation of the Polygon Mumbai Testnet, this task was completed using the upgraded and actively supported Polygon Amoy Testnet. The token was written in Solidity, compiled and deployed using Remix IDE, and verified via MetaMask and the Amoy explorer.

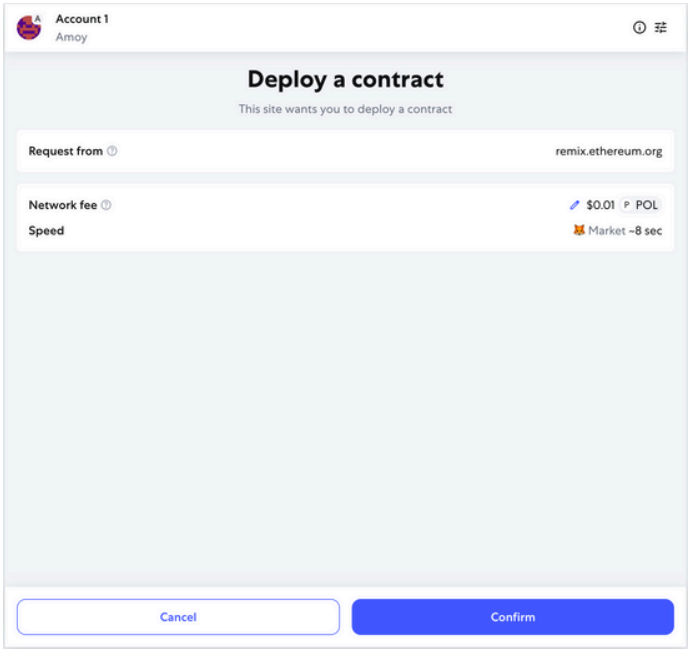
Step 1: Setup MetaMask with Amoy Testnet and Fund with 0.05 POL



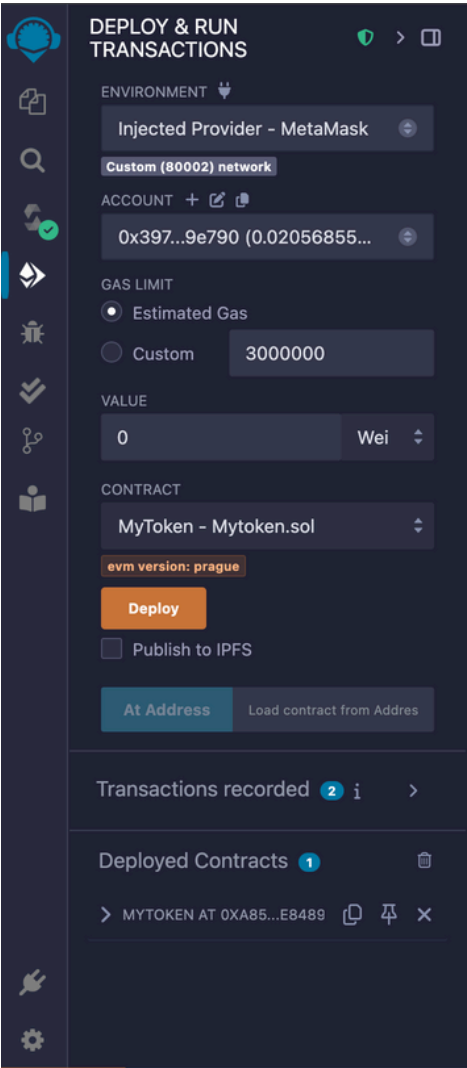
Step 2: Write the ERC-20 Token Smart Contract in Remix



Step 3: Confirm Contract Deployment via MetaMask on Polygon Amoy



Step 4: Use Remix's Injected Web3 to Deploy Contract to Amoy



Step 5: View Deployed Contract on Amoy Block Explorer

Contract

0xA856dCd63aebd6526f2e7e659e8756582faE8489

Overview

POL holdings

0 POL

Token holdings

0 tokens

NFT holdings

0 NFTs

Contract info

Contract creator

0x3972f31c4532ea67216b720710bdc7630e59e790

created at 0x5ddd31b82c552635d0b66e65a5abebcc150fc0f14bb943911ba1bba211...

Corresponding token

SID (SiddToken)

Transactions

Contracts

Events

Start date → End date

From/To Address

Amount

Q Method

Txn status: All

Txn type: All

Total 1 records

Hide zero-amount txns

Txn hash	Method	Block	Date time	From	To	Amount	Txn fee
0x5ddd31b82c5...	sanleo	23212263	06/26/2025, 09:53:11	0x3972...0e59e790	in 0xA856...ae8489	0 POL	0.02943144 POL

Step 6: Manually Import the Token into MetaMask

Import tokens

Custom token

Token detection is not available on this network yet. Please import token manually and make sure you trust it. Learn about [scams and security risks](#).

Amoy

Token contract address

d63aebd6526f2e7e659e8756582faE8489

Token symbol

SID

Next

Step 7: Verify Token is Added with Correct Balance

Your balance

 **SID** \$0.00
1,000,000 SID

Token details

Network A Amoy

Contract address 0xA856d...E8489 

Token decimal Copy to clipboard 8

Spending caps Edit in Portfolio




Solidity Code:

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;

import "@openzeppelin/contracts/token/ERC20/ERC20.sol";

contract MyToken is ERC20 {
    constructor() ERC20("SiddToken", "SID") {
        _mint(msg.sender, 1000000 * 10 ** decimals());
    }
}
```

Learnings

-  Mastered ERC-20 token deployment via OpenZeppelin and Remix IDE.
-  Understood MetaMask interaction with custom networks.
-  Became aware of Polygon Mumbai deprecation and Amoy migration.
-  Gained confidence working with smart contracts and testnets.