Deploy on Celo with Remix

How to deploy a smart contract to Celo testnet, mainnet, or a local network using Remix .

Introduction to Remix

The Remix IDE is an open-source web and desktop application for creating and deploying Smart Contracts. Originally created for Ethereum, it fosters a fast development cycle and has a rich set of plugins with intuitive GUIs. Remix is used for the entire journey of contract development and is a playground for learning and teaching Celo.

In this guide, you will learn to deploy a smart contract on Celo using remix.ethereum.org .

tip To learn more about the features available to you as a smart contract developer with Remix, visit the Remix documentation .

Create a Smart Contract

- Navigate to remix.ethereum.org
- and select contracts > 1_Storage.sol
- from the File Explorers
- pane.
- Review the smart contract code and learn more using the Solidity docs
- or with Solidity by Example
- .
- Complete any changes to your smart contract and save the final version (Command/Ctrl + S).

Compile the Contract

- Choose the Solidity Compiler Icon
- on the left side menu.
- Check that your compiler version is within the versions specified in the pragma solidity statement
- .
- Select the Compile
- button to compile your smart contract.

Deploy the Contract

- Click the Deploy and Run Transactions Icon
- on the left side menu.
- Choose Injected Web3
- as your environment.
- Connect MetaMask to Celo
- testnet and verify that the environment reads:* Custom (44787) network
-
  - for Celo testnet
-
  - Custom (42220) network
-
  - for Celo mainnet
- Click Deploy
- and select Confirm
- in the MetaMask notification window to pay for the transaction

Interacting with the Contract

- Select the dropdown
- on the newly deployed contract at the bottom of the left panel.
- View the deployed contract's functions using the Deployed Contracts
- window.
- Select functions to read or write on the Celo testnet using the function inputs as needed.
- Confirm write transactions in the MetaMask Notification Window
- to pay the transaction's gas fee.

View Contract Details

- Copy the contract address from theDeployed Contracts
- window on the left panel.
- Navigate to the[Celo Block Explorer](#)
- and use the contract address to search for your contract.
- Explore the details of your deployed smart contract and learn more about the explore[here](#)
- .

Verify Contracts on Celo

- [Using Celo Explorer](#)
- [Using Remix](#)
- [Using CeloScan](#)
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