Decentralized System

Solidity (cnt’d)

Verify Smart Contract

Verification what and why?

- Smart contract verification is the process of **matching** a smart contract's **source code** to its **on-chain bytecode**
- Important step to ensure its **transparency** and **security**
  - The source code becomes visible in the blockchain
  - Full advantage of **tools that rely on source code**
  - Contribute to the **trustlessness** of the entire ecosystem

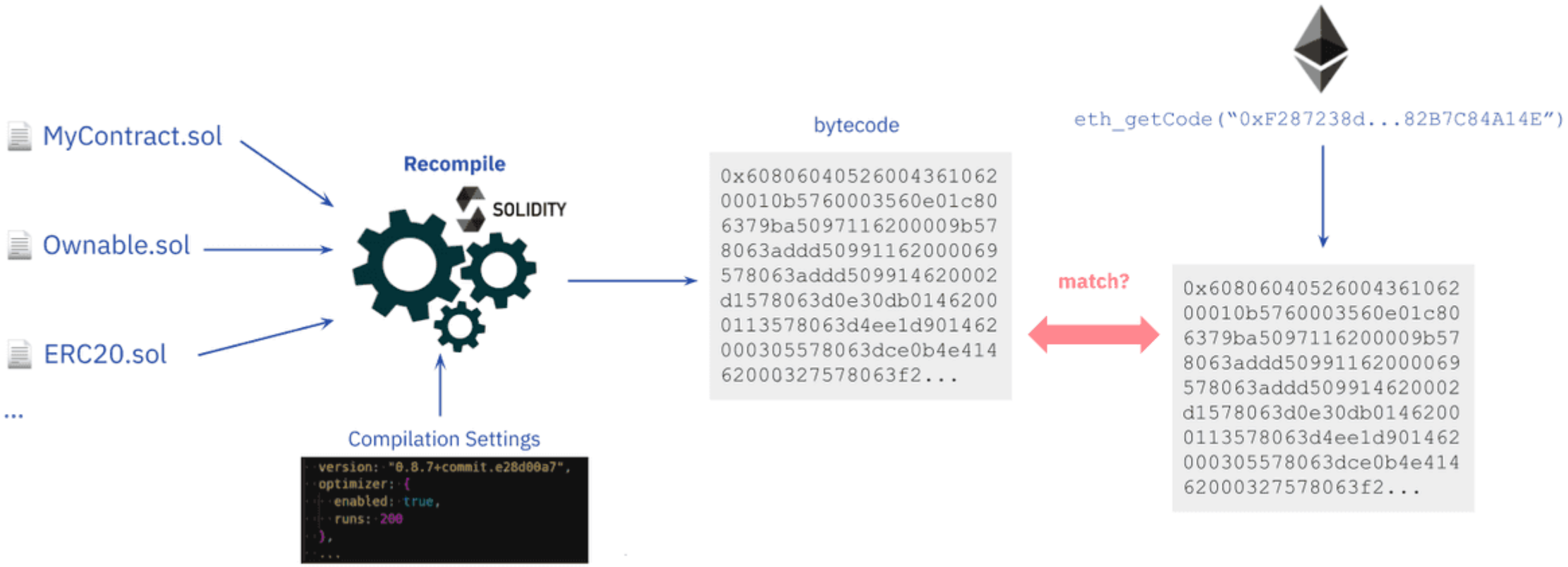
Verification how to?

- **Steps**
  - Compile the Solidity code
  - Obtain the bytecode and the ABI
  - Deploy the bytecode to the Ethereum blockchain (testnet)
  - Visit the Explorer (Etherscan) and find the page of the contract using its address

Verification how to?

- **Steps**
  - Open the contract details page and click on the “Verify and Publish” link
  - Input verification details: solidity compiler version, source code, appropriate license, any optimization settings
  - Enter constructor arguments, if any, in the correct order in the verification form
  - Click the “Verify and Publish” or equivalent button to submit the contract for verification

Verification how to?



You can also use Remix for Smart Contract verification, by installing a proper extension

Start
DEMO