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Deploying a smart contract on a test network using Ganache involves several steps. Here's a clear, precise guide on how to do it, including where to run each command:

Prerequisites

- 1. Node.js and npm: Ensure Node.js and npm are installed on your system.
- 2. Truffle: A development framework for Ethereum smart contracts. Install it globally using npm.
- 3. Ganache: A local Ethereum blockchain for development purposes.

Step-by-Step Guide

1. Install Ganache

- Download Ganache from Truffle Suite and install it. Ganache provides a local Ethereum blockchain for testing purposes.
- 2. Install Truffle

Open your terminal or command prompt and run:



bash Copy code

npm install -g truffle

3. Create a Truffle Project

Navigate to your desired project directory and initialize a new Truffle project:

bash

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mkdir my-smart-contract cd my-smart-contract truffle init

This will create a basic Truffle project structure.

4. Write Your Smart Contract

Create a new smart contract file in the contracts directory. For example, create MyContract.sol in contracts/ with the following content:

solidity Copy code

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pragma solidity ^0.8.0;

```
contract MyContract {
   string public greeting = "Hello, World!";
}
```

5. Compile the Smart Contract

Run the following command in the terminal to compile your smart contract:

bash

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truffle compile

This will compile the smart contract and generate the necessary artifacts in the build/contracts directory.

6. Configure Truffle to Use Ganache

Open the truffle-config.js file in your project directory and configure it to use the Ganache network. Add the following configuration:

javascript

Copy code module.exports = { networks: { development