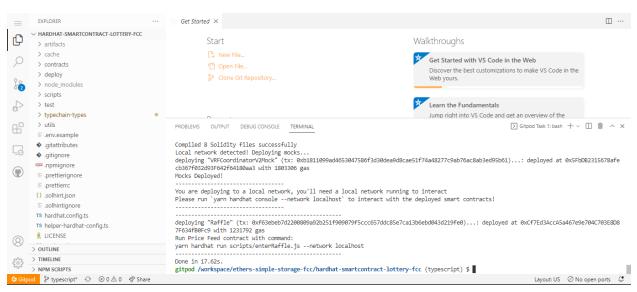
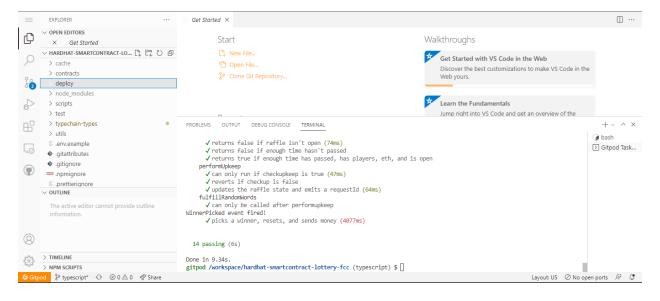
1. Deploy:

yarn hardhat deploy



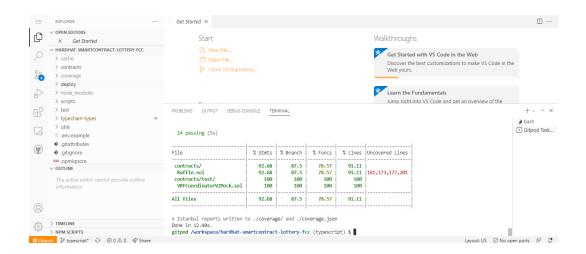
2. Testing

yarn hardhat test



3. Test Coverage

yarn hardhat coverage



Deployment to a testnet or mainnet

1. Setup environment variabltes

You'll want to set your RINKEBY_RPC_URL and PRIVATE_KEY as environment variables. You can add them to a .env file, similar to what you see in .env.example.

- PRIVATE_KEY: The private key of your account (like from <u>metamask</u>). NOTE: FOR DEVELOPMENT,
 PLEASE USE A KEY THAT DOESN'T HAVE ANY REAL FUNDS ASSOCIATED WITH IT.
 - o You can learn how to export it here.
- RINKEBY_RPC_URL: This is url of the rinkeby testnet node you're working with. You can get setup with one for free from <u>Alchemy</u>
- 2. Get testnet ETH

Head over to <u>faucets.chain.link</u> and get some tesnet ETH & LINK. You should see the ETH and LINK show up in your metamask. You can read more on setting up your wallet with LINK.

3. Setup a Chainlink VRF Subscription ID

Head over to <u>vrf.chain.link</u> and setup a new subscription, and get a subscriptionId. You can reuse an old subscription if you already have one.

You can follow the instructions if you get lost. You should leave this step with:

- 1. A subscription ID
- 2. Your subscription should be funded with LINK
- 3. Deploy

In your helper-hardhat-config.js add your subscriptionId under the section of the chainId you're using (aka, if you're deploying to rinkeby, add your subscriptionId in the subscriptionId field under the 4 section.)

Then run:

yarn hardhat deploy --network rinkeby
And copy / remember the contract address.

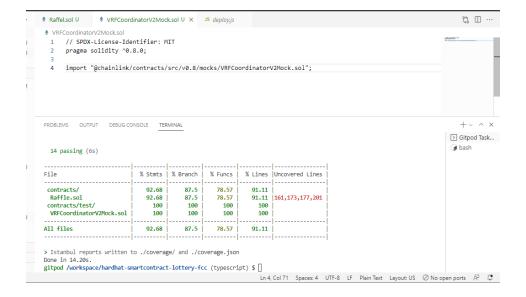
4. Add your contract address as a Chainlink VRF Consumer

Go back to <u>vrf.chain.link</u> and under your subscription add Add consumer and add your contract address. You should also fund the contract with a minimum of 1 LINK.

5. Register a Chainlink Keepers Upkeep

You can follow the documentation if you get lost.

Go to keepers.chain.link and register a new upkeep. Your UI will look something like this once



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