Instructions to set up the development environment
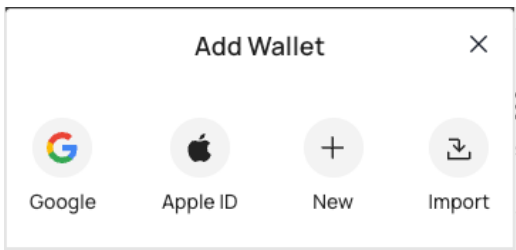
- Create your Endless Wallet
    - Open https://scan.endless.link/
    - Click "Connect Wallet" to create a wallet, following the on-screen instructions.
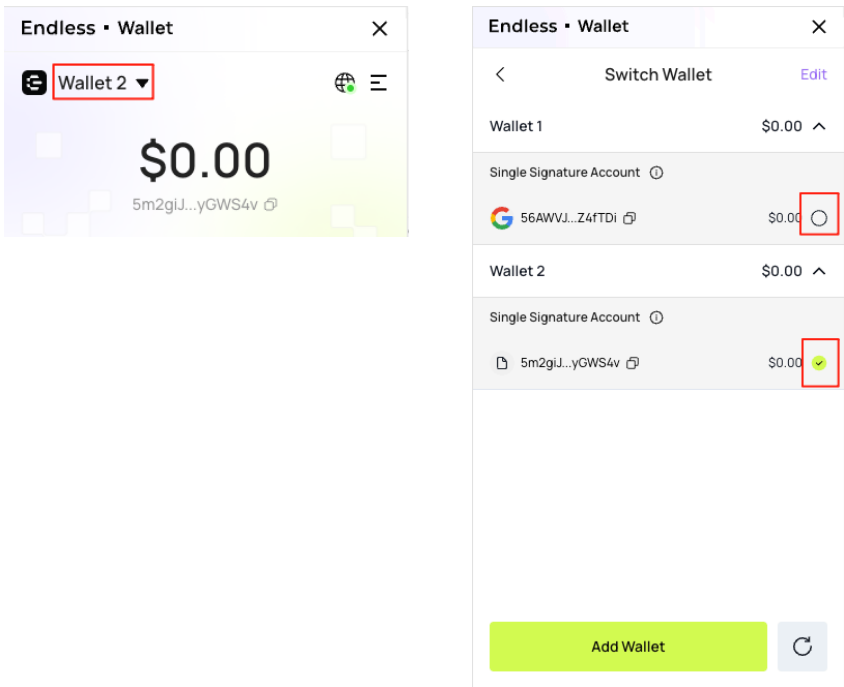
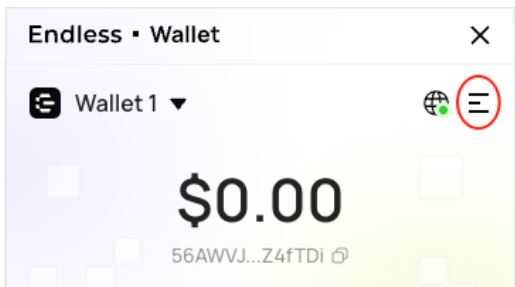

    - After the wallet is created, click "Open Wallet".

    - Click "Wallet 1 ▼" in the top-left corner, select "New Wallet", then choose "**New**" or "**Import**" to add a new wallet.
        - If you want to import a wallet into the Luffa App, follow the instructions below to first obtain the account's private key from the app.
    - After creating a new account, Click "Wallet 2 ▼" to switch wallet.
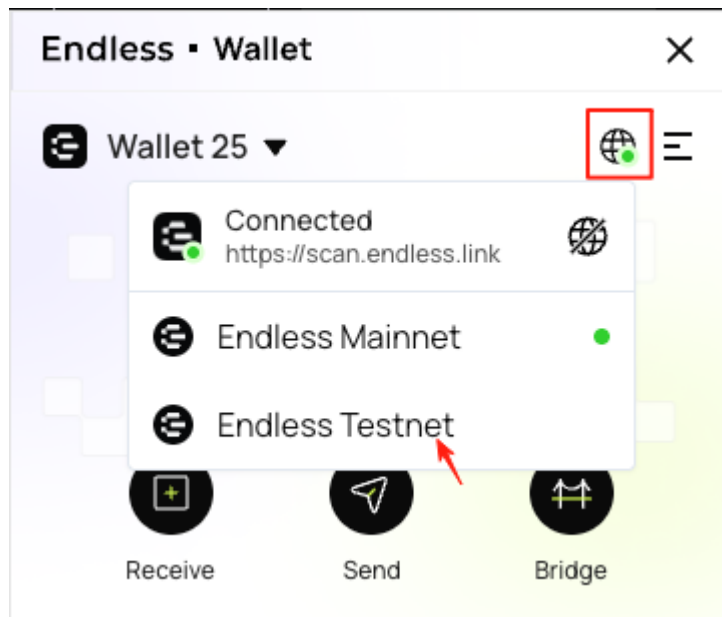

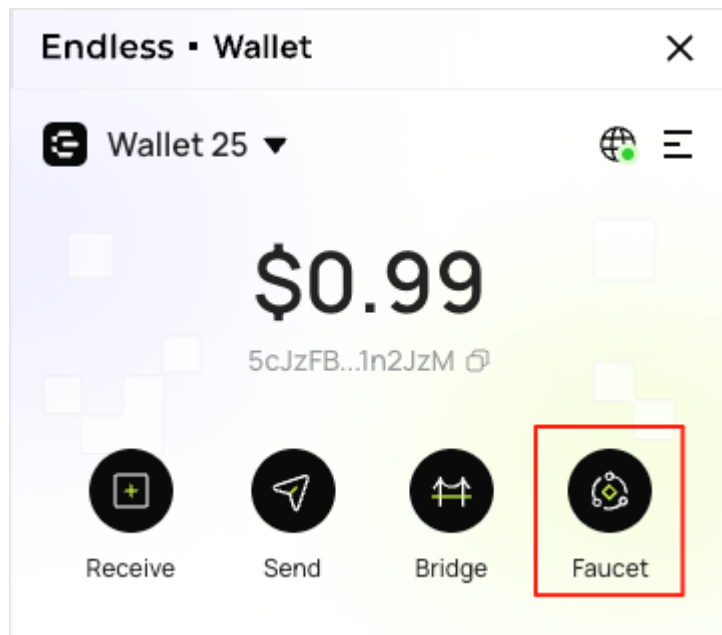   - After creating a new account, Click "Wallet 2 ▼" to switch wallet.

    - Click the icon highlighted with a red circle, and choose "Export Private Key" to view your private key.
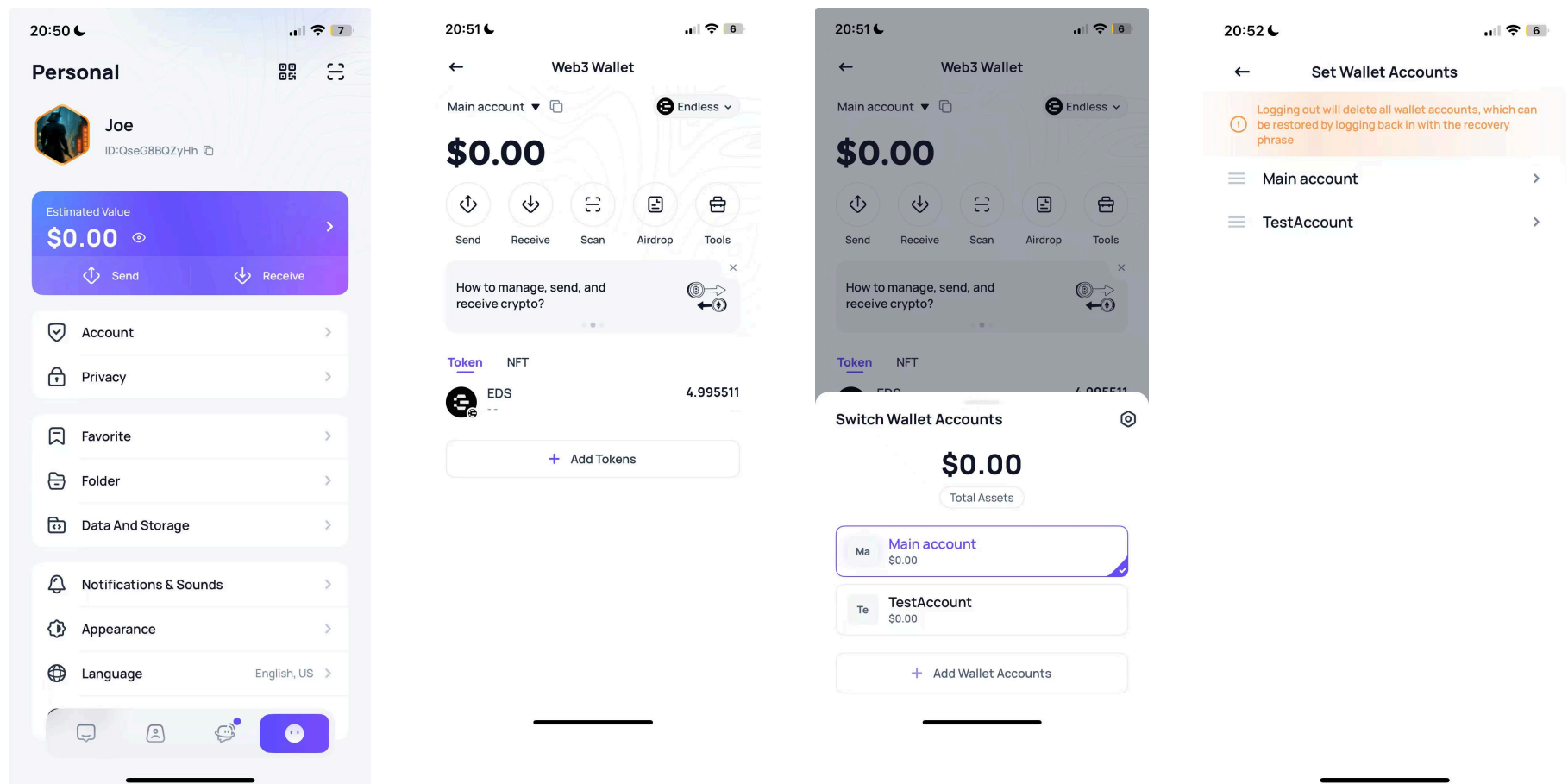
- the icon highlighted with a red circle to switch network.

- Click "Faucet" to receive test token

- Create Endless Wallet on Luffa App
  - Click the colored section below the avatar to enter the wallet.
  - Click "Main Account ▼" in the top-left corner to switch accounts or create a new one.
  - Click the config icon in the top-right corner of the "Switch Wallet Accounts" floating window to view or set the account's private key.

- Endless CLI
  Download the latest version from https://github.com/endless-labs/endless-release/releases
  - Install on Mac
    - Move the extracted Endless binary file, ie: `endless` into your preferred folder.
    - Open a terminal and navigate to your preferred folder.
    - Make `endless` an executable by running `chmod +x endless`
    - Verify that this installed version works by running `endless --help`
      - You should see instructions for how to use all CLI commands. These can be helpful in the future when you are trying to understand how to use specific commands.
    - (Optional) It can be helpful to add the Endless CLI to a folder in your PATH, or to add it to your PATH directly. The steps to add a folder to your PATH are shell dependent.
      - You can run echo $SHELL to print the default shell for your machine, then google specific steps to add a folder to your PATH for that shell.
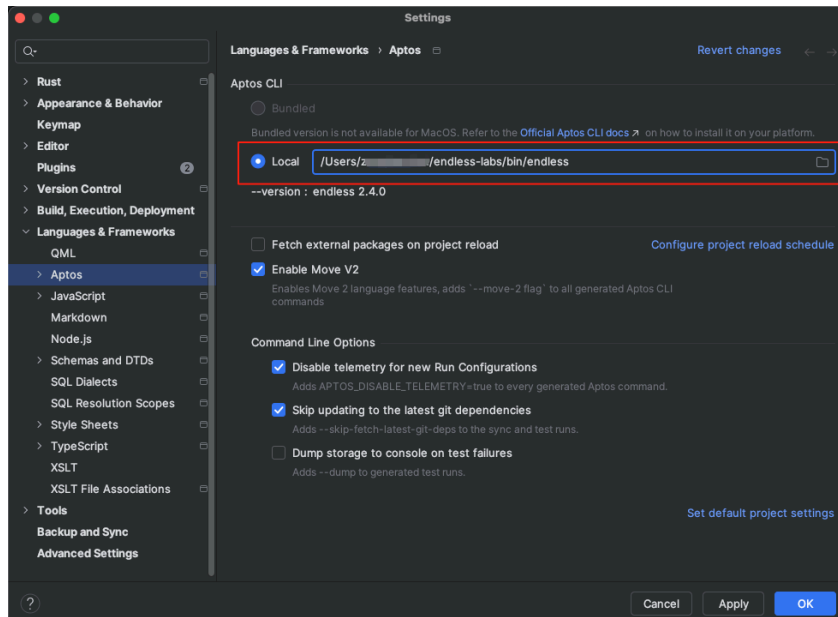 - Install on Windows
    - Unzip the downloaded file.
    - Move the extracted Endless binary file, ie: `endless.exe` into your preferred folder.
    - Right click, then copy the path to the executable.
      - Ex. `C:\Users\<username>\Downloads\endless.exe` .
    - Open PowerShell via the Start Menu.
      - Verify the installation by running the help command.
        - Ex. `C:\Users\<username>\Downloads\endless.exe --help` .

- How to Create a New Project
  - Taking macOS as an example below

```
cd /Users/xxx/Documents
mkdir endless_move_demo
cd endless_move_demo
endless move init --name endless_move_demo
```
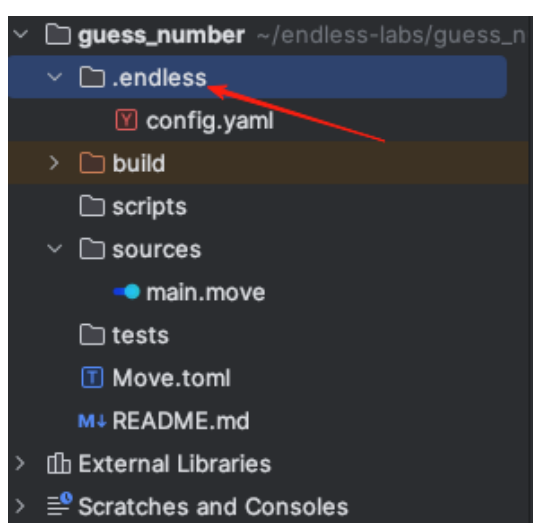
- Use an IDE to open the project (e.g., RustRover)
  Locate the red-highlighted section in the image and set the path of your
  `Endless` binary.

- Setup CLI Initial Configuration

  - Follow the instructions above to obtain the account's private key.

    - It is recommended to use the account created via "**New**" or "**Import**".

    ```
    cd /Users/xxx/Documents/endless_move_demo
    endless init --network testnet --private-key your-private-key --assume-yes
    ```

  - After execution, the structure of the project will be like this.

- Compile the smart contract

  ```
  cd /Users/xxx/Documents/endless_move_demo
  endless move compile --named-addresses guess_number=default
  ```
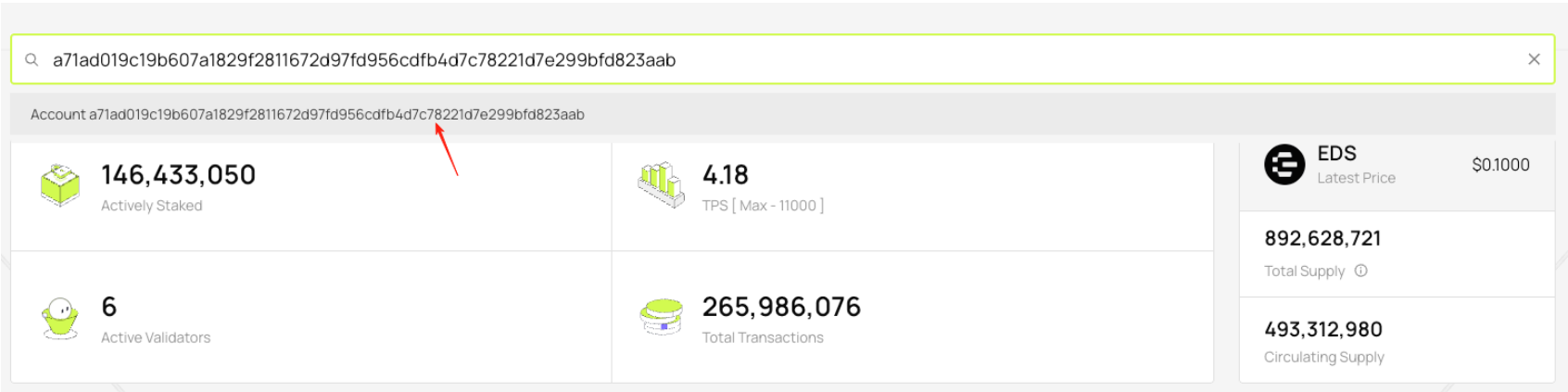
  - The following are the compile results.

    ```
    Compiling, may take a little while to download git dependencies...
    UPDATING GIT DEPENDENCY https://github.com/endless-labs/endless-move-framework
    INCLUDING DEPENDENCY EndlessFramework
    ```

```
INCLUDING DEPENDENCY EndlessStdlib
INCLUDING DEPENDENCY MoveStdlib
BUILDING guess_number
[a71ad019c19b607a1829f2811672d97fd956cdfb4d7c78221d7e299bfd823aab::main]
```
⬆️ ⬆️
Remember this — it's important. You'll need it later when interacting with the contract in code.

- You can use the bold red text to find the smart contract on the Endless Explorer.
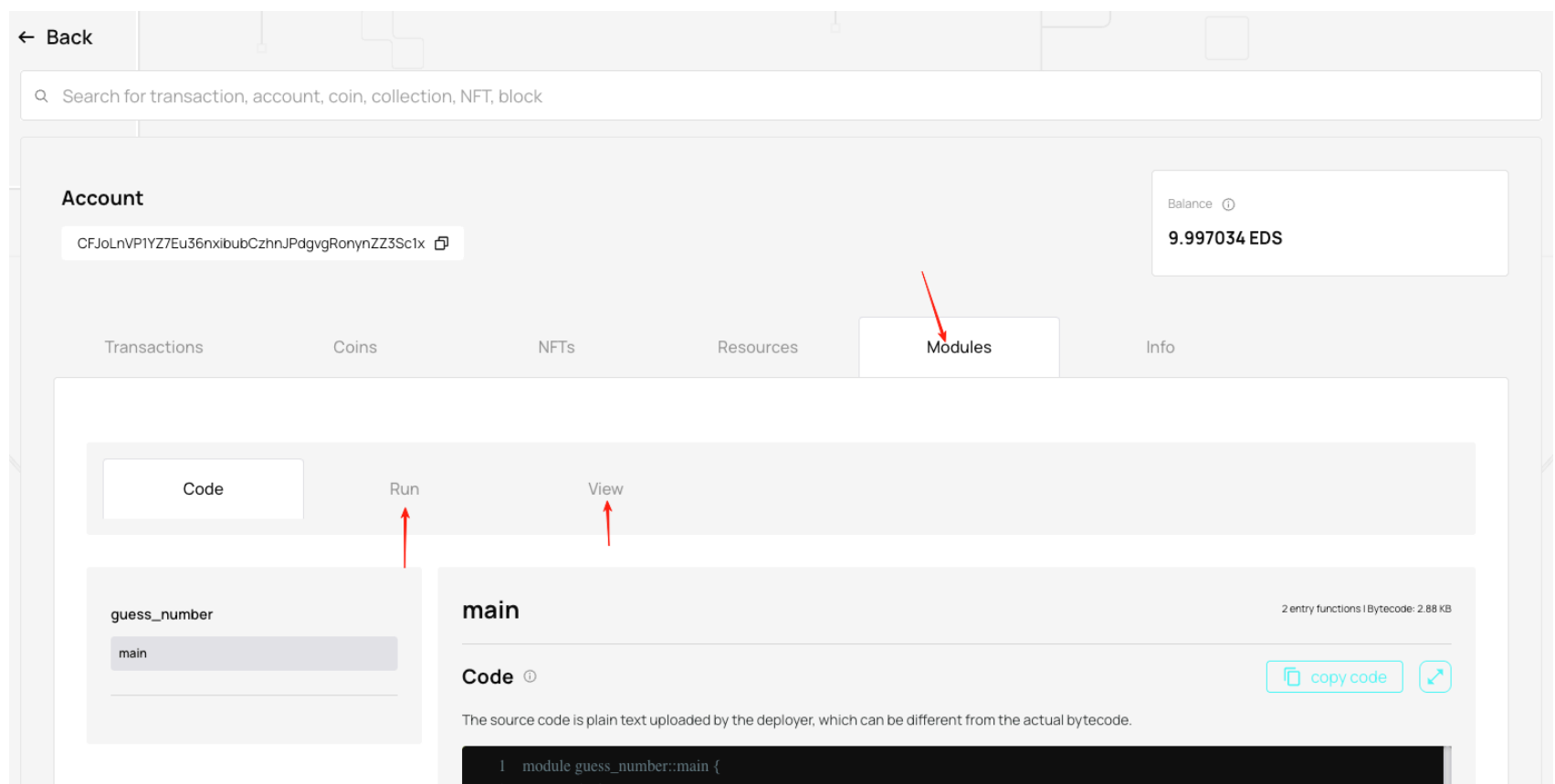

- Publish or Upgrade the smart contract

```
cd /Users/xxx/Documents/endless_move_demo
endless move publish --named-addresses guess_number=default --assume-yes
```

  - The following are the publish results.

```
Compiling, may take a little while to download git dependencies...
UPDATING GIT DEPENDENCY https://github.com/endless-labs/endless-move-framework
INCLUDING DEPENDENCY EndlessFramework
INCLUDING DEPENDENCY EndlessStdlib
INCLUDING DEPENDENCY MoveStdlib
BUILDING guess_number
package size 2572 bytes
transaction_hash:AUMNaupuKMBgx4p5vzBM6f6MHmvbekzGfAA3ZvCJ3Ujy
gas_used:2366
gas_unit_price:100
sender:35ef2da3a6d728a58adf0e1232968c90881c1848ef5facb4a6596864d4c5cebc
sequence_number:0
success:true
timestamp_us:1752152013015152
version:264385247
vm_status:Executed successfully
```

  - After publishing, you can find the module on a blockchain explorer using the bold red text.
    You can also click "Run" and "View" to execute the function.

- Execute the function using Endless CLI.

```
cd /Users/xxx/Documents/endless_move_demo
endless move run \
    --function-id a71ad019c19b607a1829f2811672d97fd956cdfb4d7c78221d7e299bfd823aab::main::start_game \
    --args u64:123 \
    --assume-yes
```