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How to deploy a smart contract on ethereum testnet?

This is a step by step tutorial for people who want to learn how to deploy a contract to ethereum testnet. More and more people are interested on smart contract development on ethereum nowadays. When I started to learn solidity, the first thing I wanted to do is to deploy a contract and see what a smart contract can do on the blockchain. Therefore I decided to write a blog to share my experience about how I deployed contracts on ethereum testnet.

1. Write a contract. In this case, we are using the simplest contract from [solidity official document](#).

```
pragma solidity ^0.4.0;

contract SimpleStorage {
    uint storedData;

    function set(uint x) {
        storedData = x;
    }

    function get() constant returns (uint) {
        return storedData;
    }
}
```

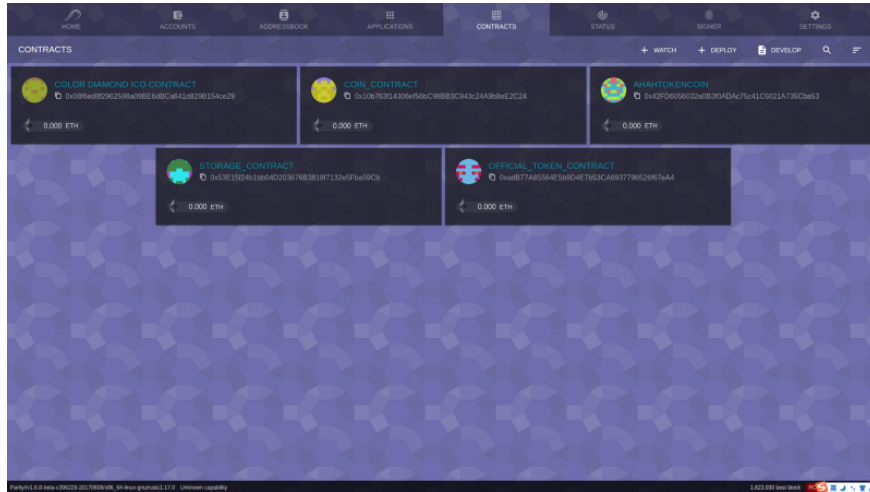
2. The testnet I'm using here is [Ropsten](#). You can get some free ether for deploying contracts at this faucet website:
<http://faucet.ropsten.be:3001/>.

3. Using a wallet to deploy the contract. I'm using Parity for myself. There are many other options on the market. Should be very similar. For starting parity to connect with Ropsten testnet, you can use following command:

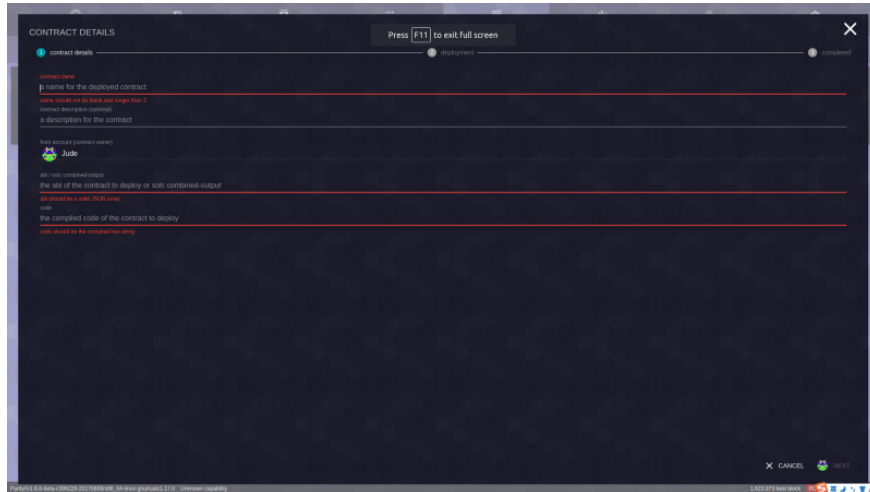
```
$ parity --chain ropsten --bootnodes
"enode://20c9ad97c081d63397d7b685a412227a40e23c8bdc6688c6f37
e97cfbc22d2b4d1db1510d8f61e6a8866ad7f0e17c02b14182d37ea7c3c8
b9c2683aeb6b733a1@52.169.14.227:30303,enode://6ce05930c72abc
632c58e2e4324f7c7ea478cec0ed4fa2528982cf34483094e9cbc9216e7a
```

```
a349691242576d552a2a56aaeae426c5303ded677ce455ba1acd9d@13.84
.180.240:30303"
```

open your browser at localhost:8080, you can see parity web UI:



4. Open the *contract* tab, click *deploy* button, you can fill the form to submit your contract to the testnet.



5. To complete the form, you need to get the abi / solc combined output for the contract. You can save the contract in a *storage.sol* file. Using the following command to compile this file to get the output (you might need to install solc first):

```
$ solc --combined-json abi,bin storage.sol
```

[illegible]

The screenshot shows the 'DEPLOYMENT' window of the Polkadot Studio application. At the top, there is a navigation bar with a 'contract details' button (active) and a 'deployment' button. A button labeled 'Press F11 to exit full screen' is also visible. The main area displays the status 'The deployment is currently in progress.' and 'Waiting for the contract deployment transaction receipt.' Below this, it states 'The transaction has been posted to the network with a hash of `0x5020f...02020a`' followed by a progress bar. At the bottom, it says 'waiting for confirmations'. The bottom status bar shows 'Polkadot Studio 0.8.0 (2023-08-08) 1.0.0 (2023-08-08) 1.0.0 (2023-08-08) 1.0.0 (2023-08-08)' and a 'CLOSE' button.

Deploying smart contracts is fun. It is even more fun to interact with them on the blockchain. I usually learn more and faster when my hands get dirty. If you have any other questions, please leave your questions in the comments. Thanks!

