

Report Lesson 4: Group 6

In the next [contract address](#) we can see the first 8 transactions that were the result of the first experimentation of the group.

The [first transaction](#) was sent by the address

`0x2d31C441bcc39A107E5648Ae2A246B4b939795c0` to deploy the contract. The contract is deployed (instantiated) in the address `0xe4e6801e89540247c71628b63c134c5ee60f5acc`.

When the contract is instantiated the `constructor` is executed, in it the private state variable `test` is set to `Hello World` and the public state variable `owner` is set to the sender of the deploy transaction. In the [second transaction](#) the owner of the contract set the text to his name and the transaction success. In this case the `setText` method is called and the `onlyOwner` modifier is executed. The `require` function in the `onlyOwner` is executed testing that the sender of the second transaction is the owner and after that the rest of the body in the `setText` function is executed, setting the text correctly. In the [third transaction](#) the ownership of the contract is transferred to address `0x5f0b5C7D5939D6fEd09B27c7449F4D7d813AEfe4`. In this case the method `transferOwnership` is executed, the modifier `onlyOwner` is executed first, the `require` function success and the rest of the body of the `transferOwnership` success too. In the [transaction number four](#) the `setText` method is executed again by the new owner. Now is the same

case that [transaction two](#), the transaction executed successful. In the [transaction number five](#) a new owner is set executing the `transferOwnership` method, this is the same case that [transaction number three](#). In the [transaction number six](#) a new text is set, this case is the same that [transaction number two](#). In the [transaction number eleven](#) something interesting happens. The `setText` method is executed by an address that is not the owner, in this case the address `0x5f0b5C7D5939D6fEd09B27c7449F4D7d813AEfe4`. In this case the modifier is executed and failed due to the fact that the sender of the transaction that executed the method is not the owner. The execution is reverted. In the [transaction number eight](#) something similar to the previous transaction occurs, somebody that is not the owner tries to set the owner to himself executing the method `transferOwnership`. Again, the modifier executes the `require` function and this reverts with an error.