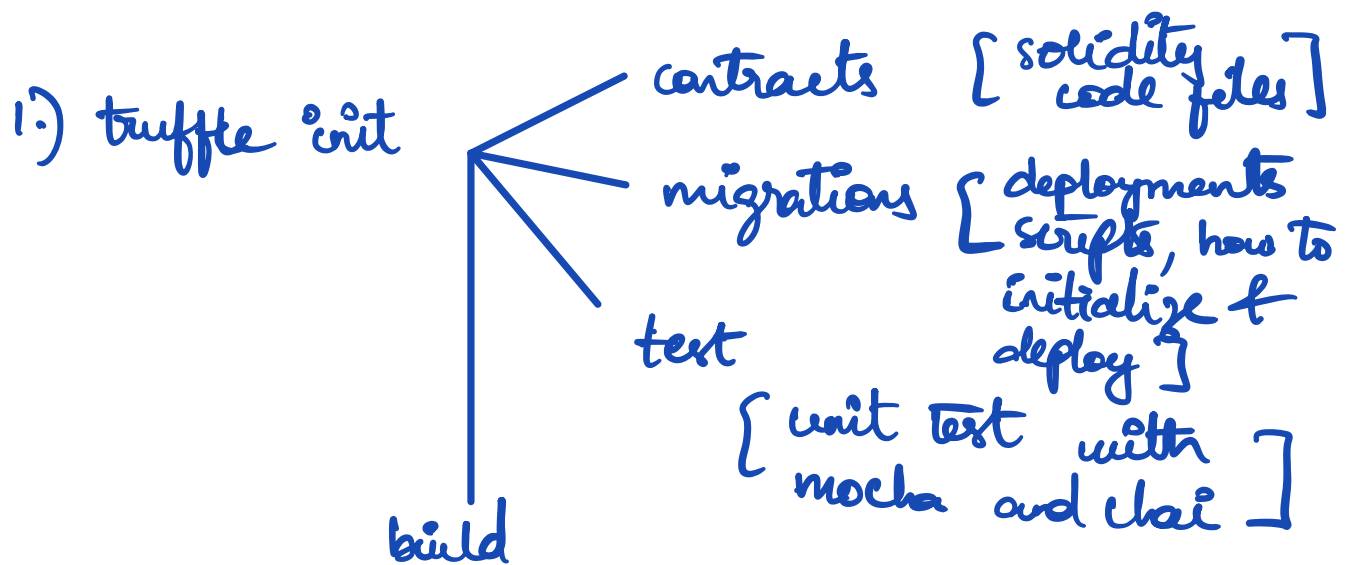


Truffle Development Tool

Truffle - It is a smart contract development tool used for compiling, testing and deploying in testnets & mainnets.



(this folder will be generated when smart contract is deployed & it creates the config file (json) which is used to deploy in mainnets / testnets.)

2.) Truffle deployment - Create a separate file for your respective contract in migrations

folder (numbering is important to Truffle which deploys in order).

truffle-migrate - runs all migrations files.

3.) truffle develop - sets up a local ethereum nodes, few account addresses, & some private keys for development.

- interact with contracts via console using instance.

```
let instance = await HelloWorld.  
    deployed()
instance.hello()
```

Note :- Do truffle develop before using truffle console.

4.) We can pass the constructor arguments in the migrations file.

Ex:- `deployer.deploy (TestContract, "Hello")`

5.) After contract changes, simply migrate doesn't work, ^{it doesn't deploy new change} instead **migrate --reset** command helps [^] to rebuild the contract with new changes & deploy.

6.) If a 'payable' function needs to be called & Let's say we should send some ether. web3 provides utility method to pass the value.

Ex:- `Instance.sendMessage ("abcd",
{value: web3.utils.toWei("2", ether)})`

7.) If you want to try with different account

`(—, {value: web3..., from: accounts[2]})`

How to run
8.) 2 Contracts in a single migration file

```
deployer.deploy(HelloWorld, "hi").then  
(async) => {  
  let instance = HelloWorld.deployed();  
  let message = instance.message();  
}); return deployer.deploy(Contract2, message);
```

9.) How to deploy contracts on testnet/mainnet?

1.) Get moralis.io test node link
→ ropsten n/w

2.) Create mnemonic using npx

npx mnemonics

3.) Create secrets.json & add mnemonic

4.) Uncomment ropsten n/w config
add node link & secret.

5.) truffle console --network ropsten
truffle migrate