

Ethereum CHEAT SHEET

Ether

Ether is the primary internal cryptographic token of the Ethereum network. Basically, ether is used to pay the transactional and computational fees required for Ethereum transactions.

Ethereum

Ethereum is a software platform, based on Block chain technology which enables the developers to build and deploy decentralized applications.

Decentralized

An application is decentralized when it can be accessed from any platform. Basically, it is a process of transferring an authority of a single entity to many small entities.

Encryption

The process of changing the string of letters/numbers to another string of letter/numbers through a method of private translation.

Wallet

An interface that is used to manage the Ethereum accounts.

Account

Account contains a public and private key pairs that holds the funds to be stored in a Block chain

Address

Also known as Public Key, which is used to send funds to an account. In Ethereum that address begins with 0x.

Private keys

In Ethereum, a private key is used to send funds from an account. It is a string of 64 hexadecimal characters.

Keystore file

It is an encrypted version of private key which is written in JSON format without a JSON extension.

Account nonce

A counter which is used for making transactions in each account

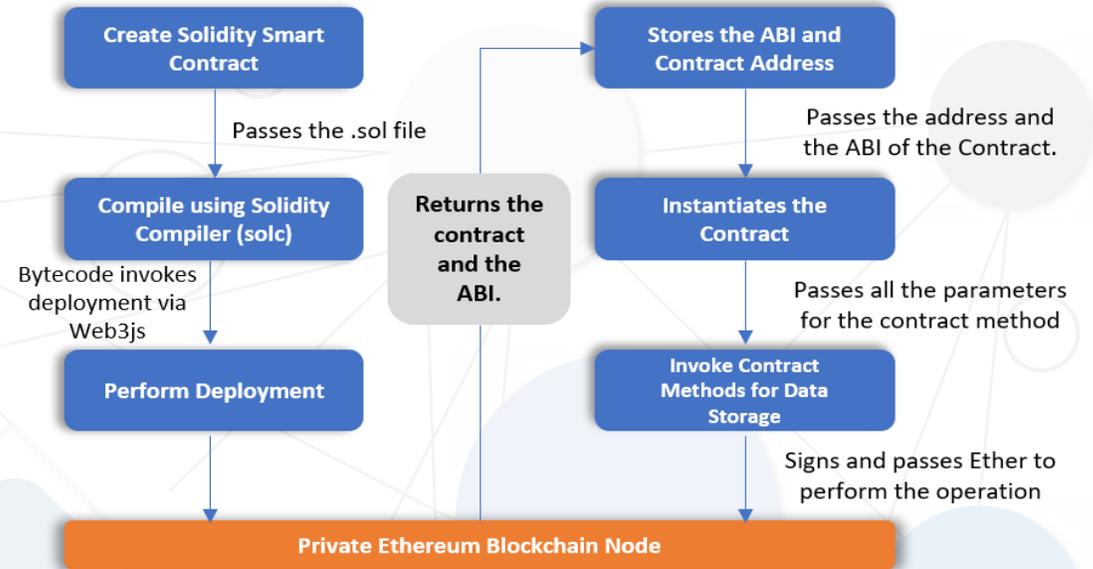
Uncle inclusion mechanism

A mechanism in Ethereum, where a block includes its uncles, which makes sure that miners that create blocks and are not included into the main chain will still be rewarded.

EVM code

Ethereum virtual machine (EVM) code, it is a programming language in which the codes are written in a Ethereum Blockchain account.

Workflow of Ethereum



Message

Message is a sort of Virtual transaction sent by EVM code from one account to other.

Transaction

In Ethereum, transaction is a piece of digitally signed data originating from a source other than executing EVM codes.

Storage

A key/value database in each account where keys and values are 32-byte strings.

Externally owned account

The accounts which are controlled by private keys and does not contain EVM codes.

Contract

An account which is controlled by EVM, and contains EVM codes.

Gas

A measurement roughly equivalent to the computational steps.

Serialization

Serialization is a process of converting data structure into a sequence of bytes.

RLP encoding

Recursive length prefix(RLP) encoding function takes in an item, an item can be a string or a list of items or strings.

Solidity

It is a contract oriented programming language for writing and implementing smart contracts on block chain.

ABI

A data encoding scheme called " Application Binary Interface" (ABI) is used in Ethereum for work with smart contracts .

FURTHERMORE:

[Blockchain Certification Training Course](#)

