

# 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

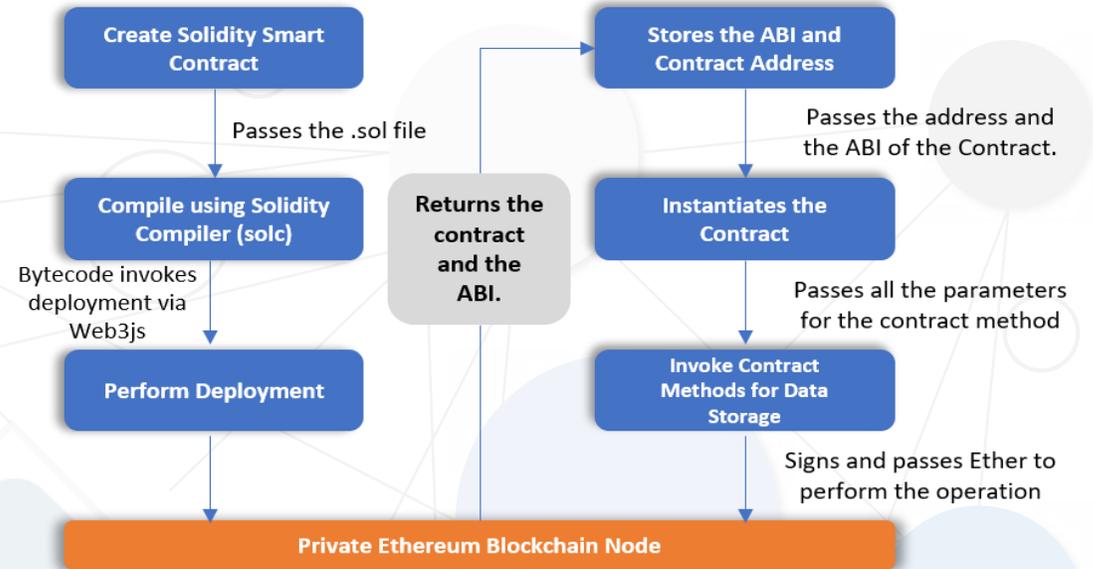
## Uncle inclusion mechanism

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](#)

