

Installation and Configuration Manual of *BSIEM*

Installation and Configuration

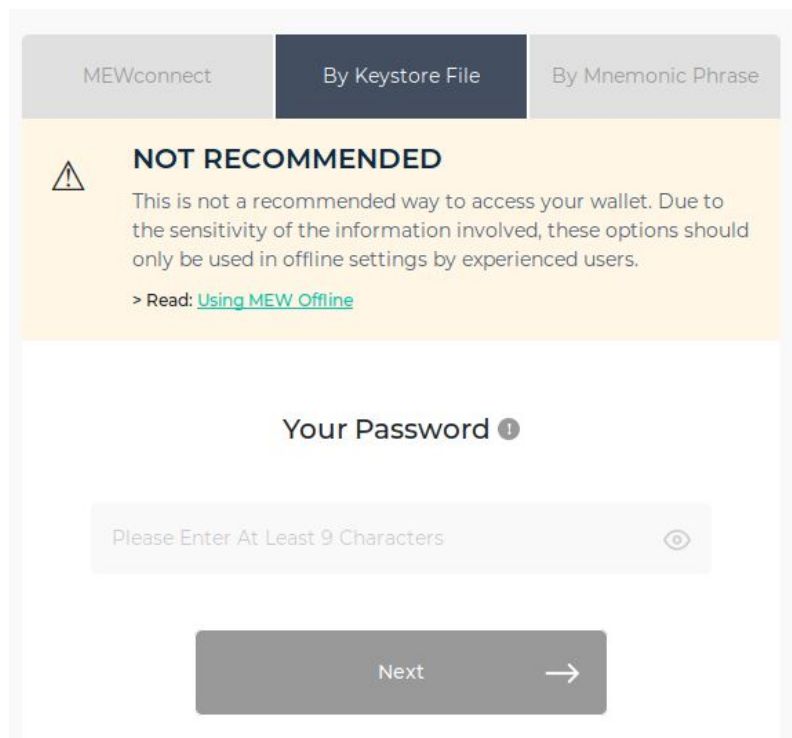
First you need to install and configure the different nodes in your blockchain network, considering that *BSIEM* use two types of nodes, miner nodes running on desktop or laptop machines and sentinel nodes running on raspberries

How to install and configure a node of ethereum:

To install a node on Ubuntu follow the steps bellow:

To create a node you need to install Ethereum protocol, in this case we are going to install Geth an Ethereum client based in Go.

- Write the following commands in the console
 - `sudo apt-get install software-properties-common`
 - `sudo add-apt-repository -y ppa:ethereum/ethereum`
 - `sudo apt-get update`
 - `sudo apt-get install ethereum`
- Now create a Wallet in <https://www.myetherwallet.com/> use the method by keystore file, put a password and download the UTC file.



The screenshot shows the MyEtherWallet (MEW) interface. At the top, there are three tabs: 'MEWconnect', 'By Keystore File' (which is selected and highlighted in dark blue), and 'By Mnemonic Phrase'. Below the tabs, there is a yellow warning box with a triangle icon and the text 'NOT RECOMMENDED'. The warning text reads: 'This is not a recommended way to access your wallet. Due to the sensitivity of the information involved, these options should only be used in offline settings by experienced users.' Below the warning, there is a link: '> Read: [Using MEW Offline](#)'. Underneath the warning box, the text 'Your Password' is followed by an information icon. Below this is a password input field with the placeholder text 'Please Enter At Least 9 Characters' and a toggle icon (an eye). At the bottom of the form, there is a grey button labeled 'Next' with a right-pointing arrow.

- Create a new folder and here create a genesis JSON file, set the values of chainId, difficulty, gasLimit and alloc

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How to Install and configure *BSIEM* clients

- First clone the repo <https://github.com/pardo6162/BSIEM>
- Install dependencies
 - npm install
- Configure the ip address in the instantiation of web3 in each one of clients.

```
web3 = new Web3(new Web3.providers.WebsocketProvider('ws://192.168.0.11:4002'));
```

```
web3 = new Web3(new Web3.providers.HttpProvider('http://192.168.0.25:4000'));
```

- In the variables directory you will find a file with the smart contract information, update it, put the smart contract address and the respective ABI

```
exports.EC={
  "address":"0xe3503B4b876F70Ec2584e9d50945Cd2AF2Fc4232",
  "abi":[
    {
```