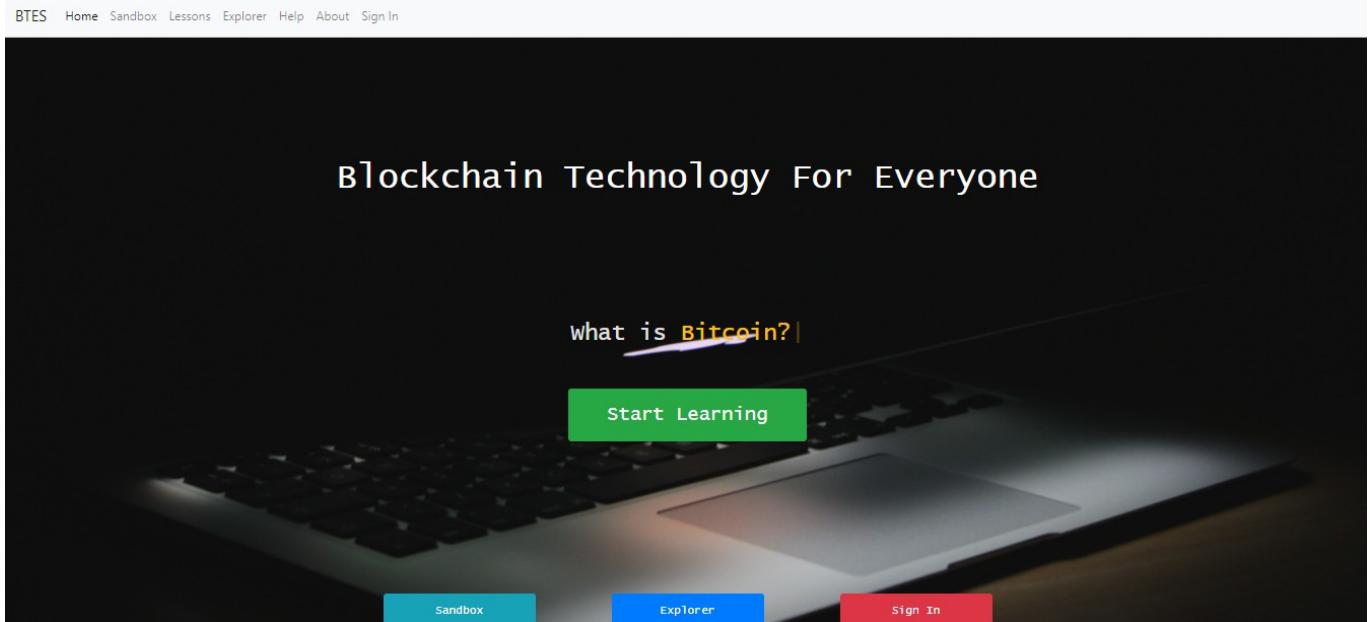


# BTES : BLOCKCHAIN TECHNOLOGY EDUCATIONAL SOFTWARE

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## USER MANUAL

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## INTRODUCTION

### What is BTES?

BTES is an educational web-based platform about blockchain technology, catering towards absolutely everyone. With a simplified blockchain simulation; we will portray the exact structures of real-world blockchains, without suffocating the user with expert-level technical information.

### What is Project Purpose?

Our aim is making a educational web-based platform about blockchain technology, catering towards absolutely everyone.

### Which Devices Do Support BTES?

BTES is basically an application that uses web-based with blockchain technology.

### Site Map

#### **1. Home**

There exist;

- Start Learning button to open Lessons page.
- Sandbox button to join simulation.
- Explorer button to monitor independent bitcoin, ethereum markets.
- Sign In button to route sign in or authentication for the user.

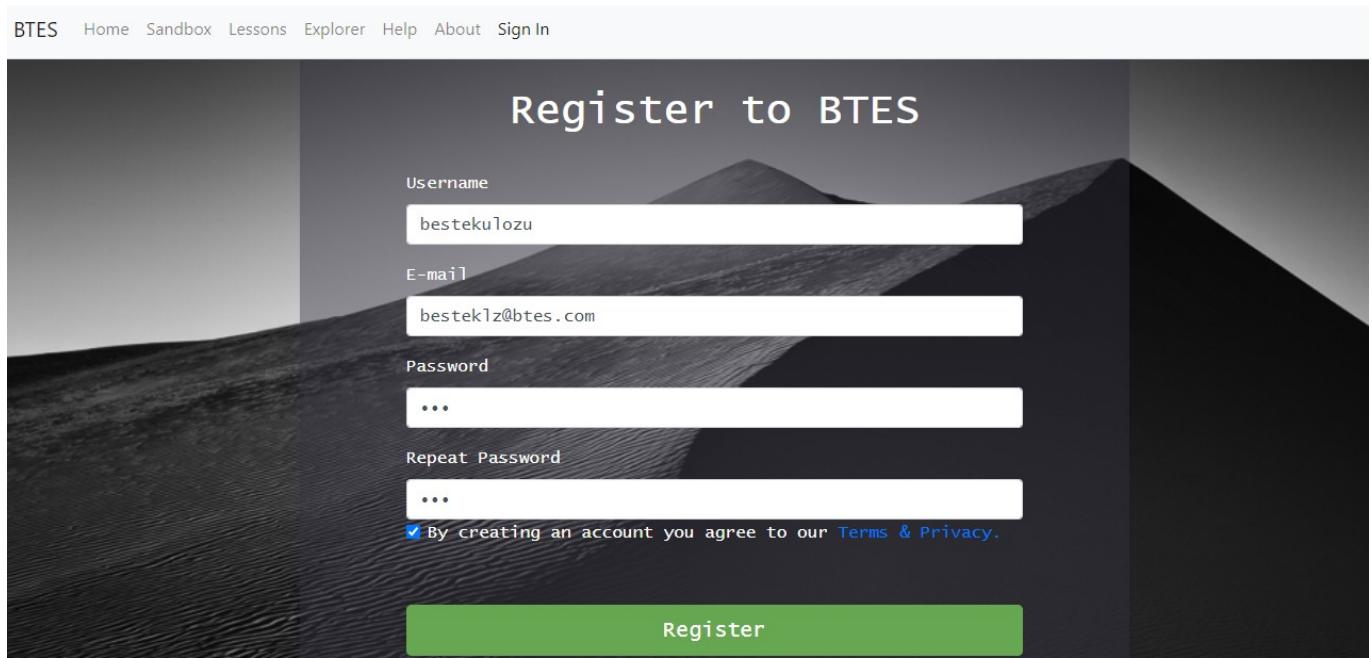
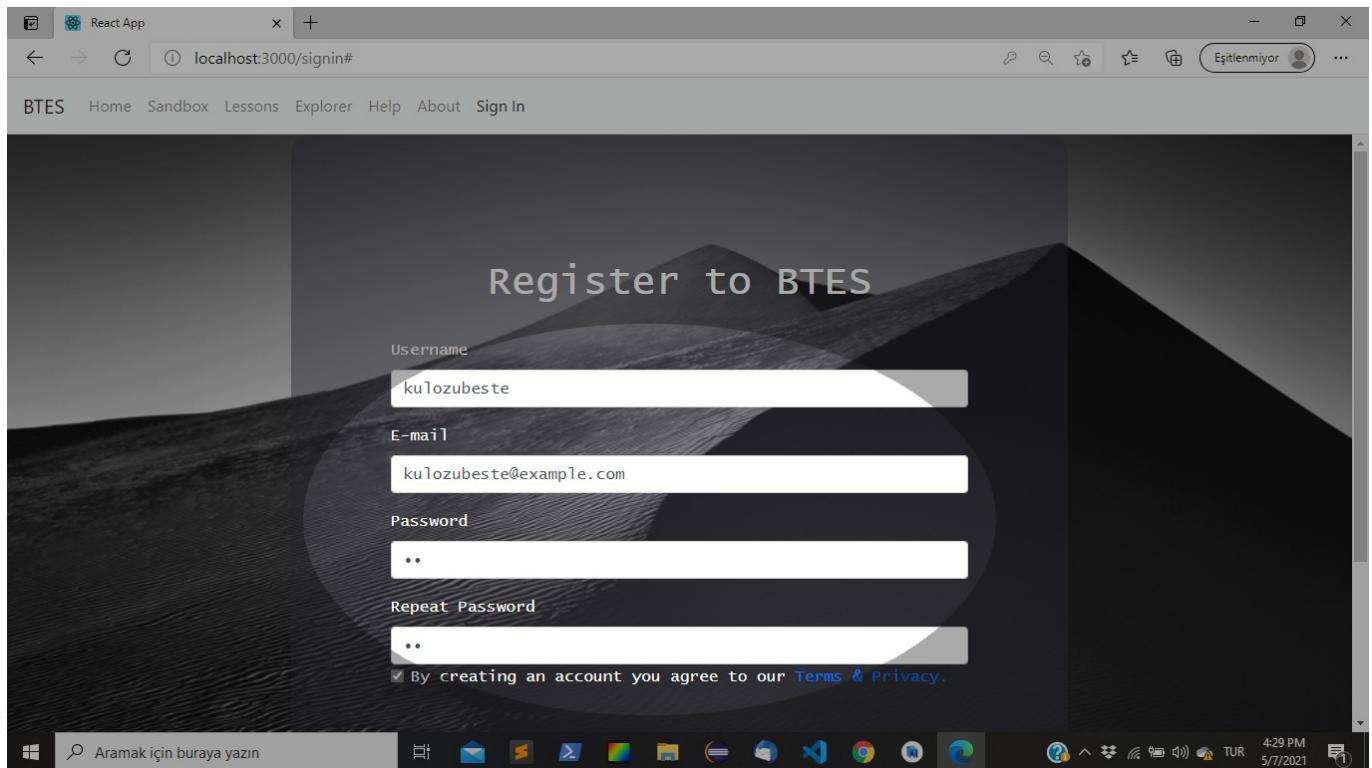


## 2. Registration/Sign In

### 2.1 Register

The image shows the registration page for BTES. At the top, the text "Register to BTES" is displayed. Below it are four input fields: "Username" (with placeholder "username"), "E-mail" (with placeholder "example@example.com"), "Password" (with placeholder "password"), and "Repeat Password" (with placeholder "password"). Below these fields is a checkbox labeled "By creating an account you agree to our [Terms & Privacy](#).  
At the bottom of the form is a green "Register" button. Below the button, the text "Already have an account? [Sign in](#)" is displayed.

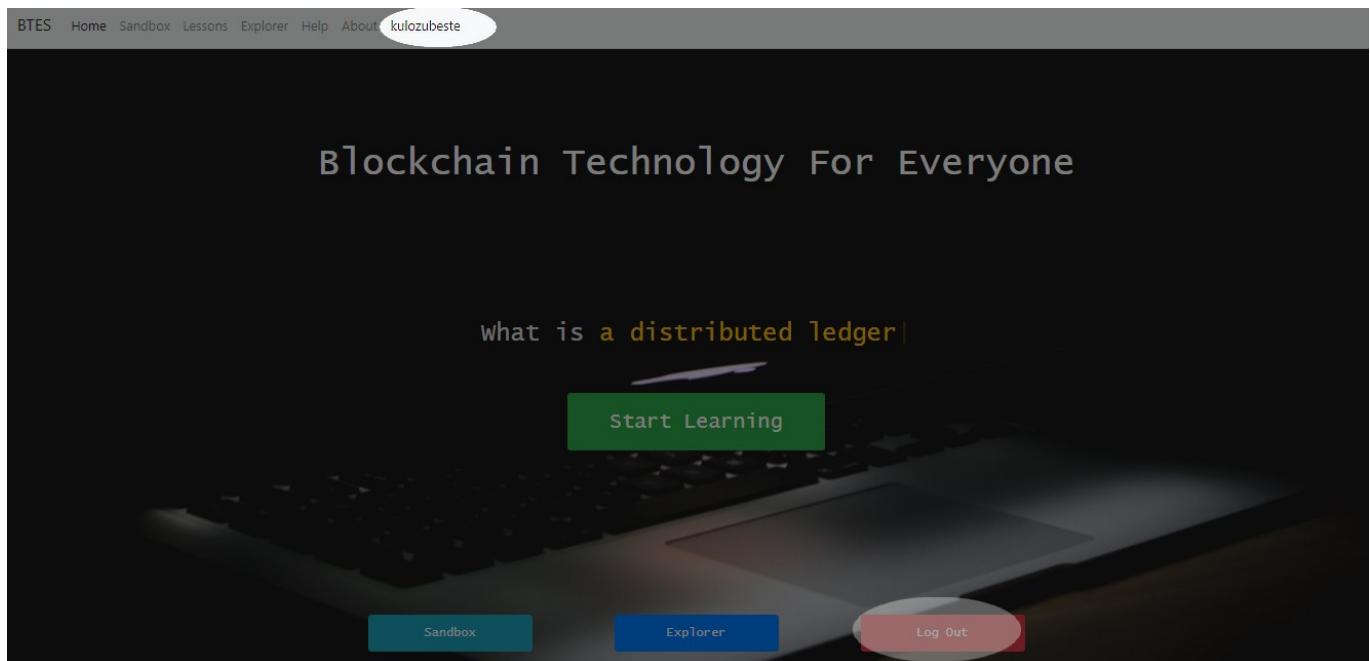
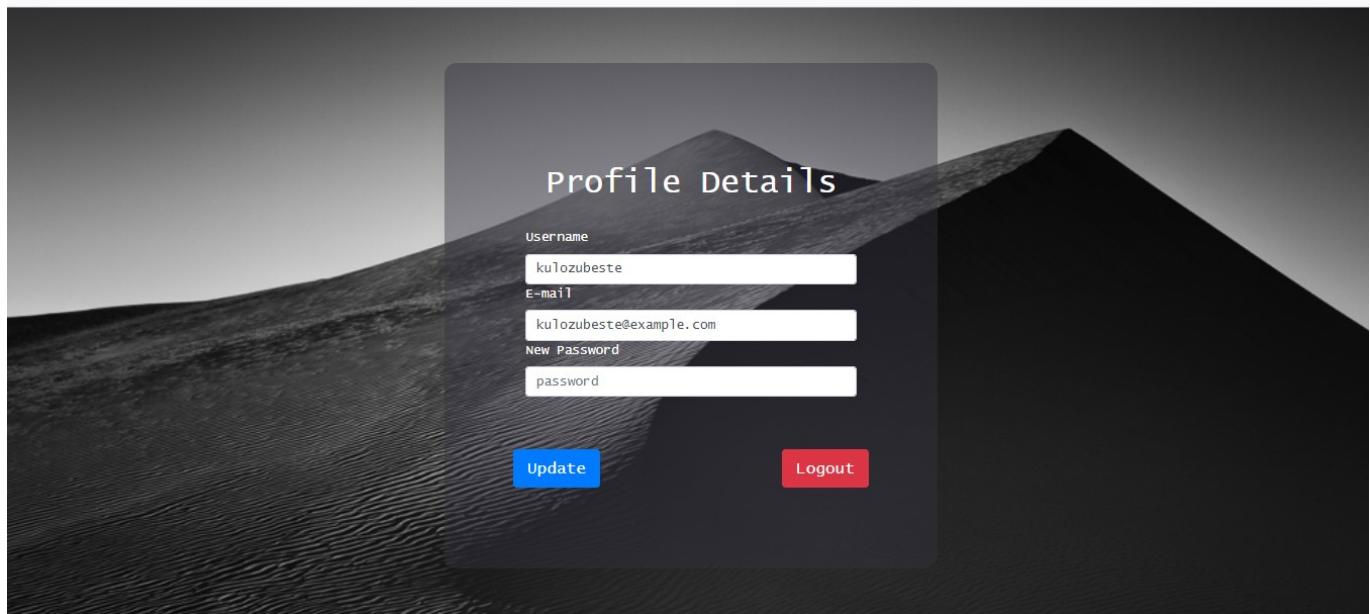
Clicking on the register button in the upper middle of the main page will go to the registration page. Or at home page you can click the red button for to direct you for registering.



## 2.2 Sign In

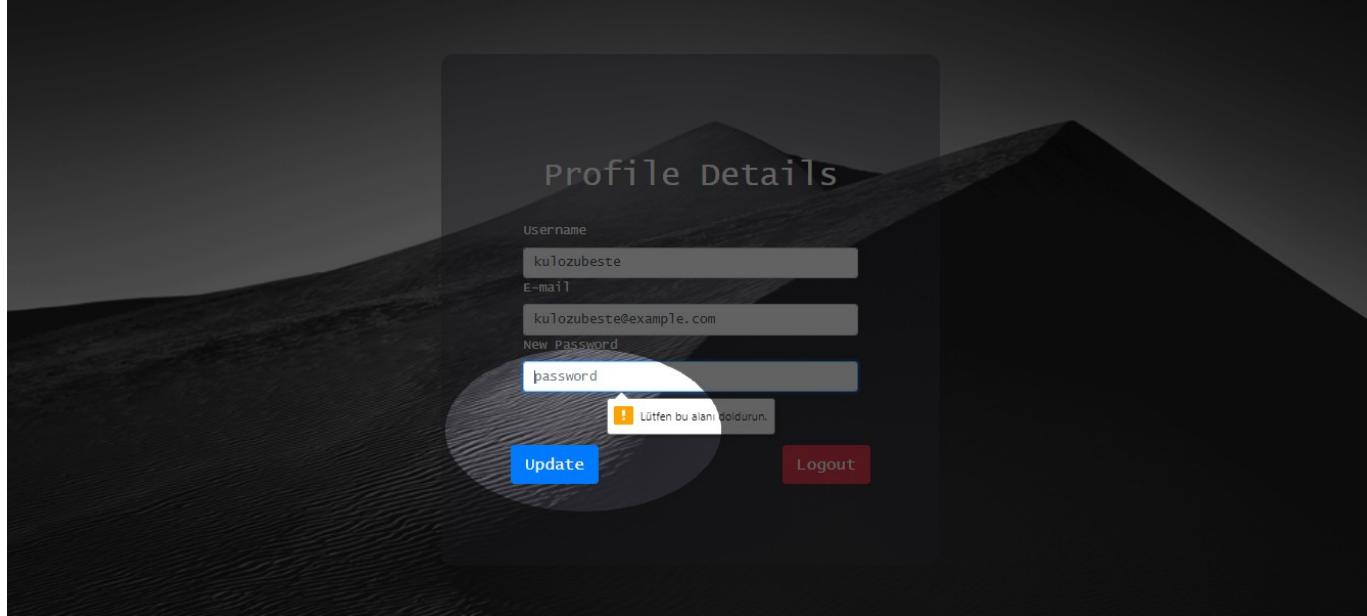
Clicking on the register button in the upper middle of the main page will go to the signin/registration page.

Or at home page you can click the red button for sign in.



## 2.3 Update

You can change your password from update button.

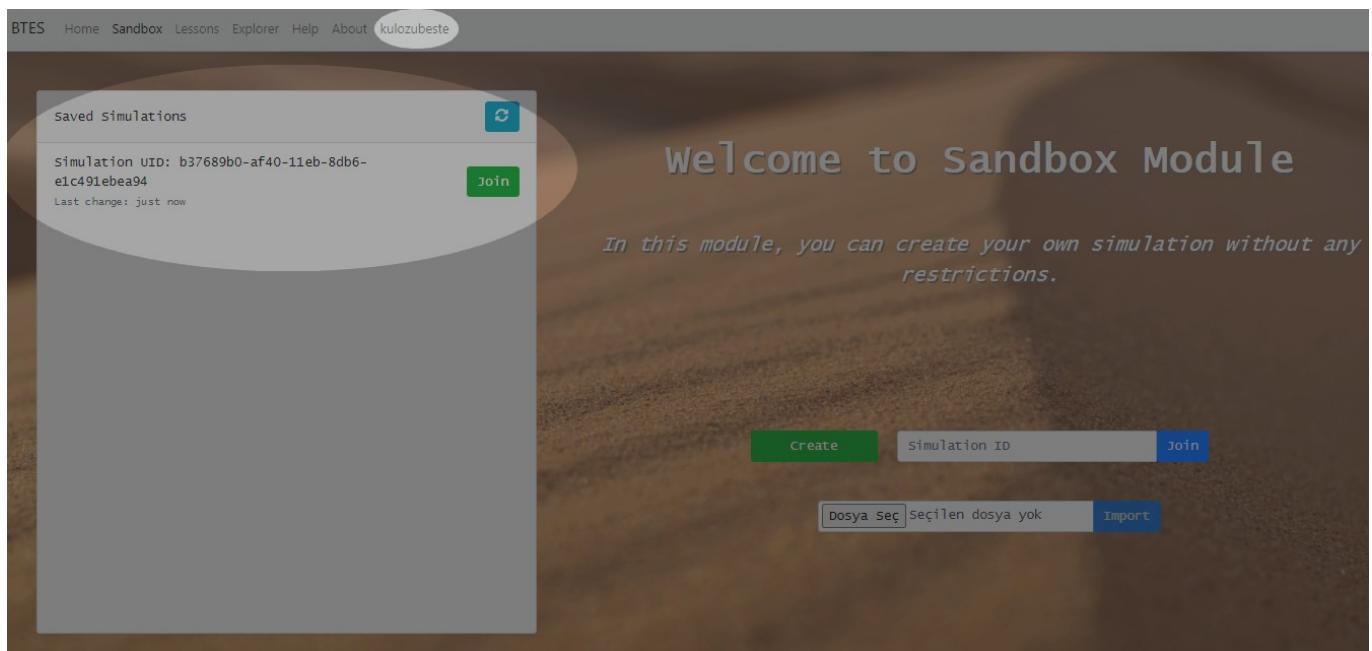
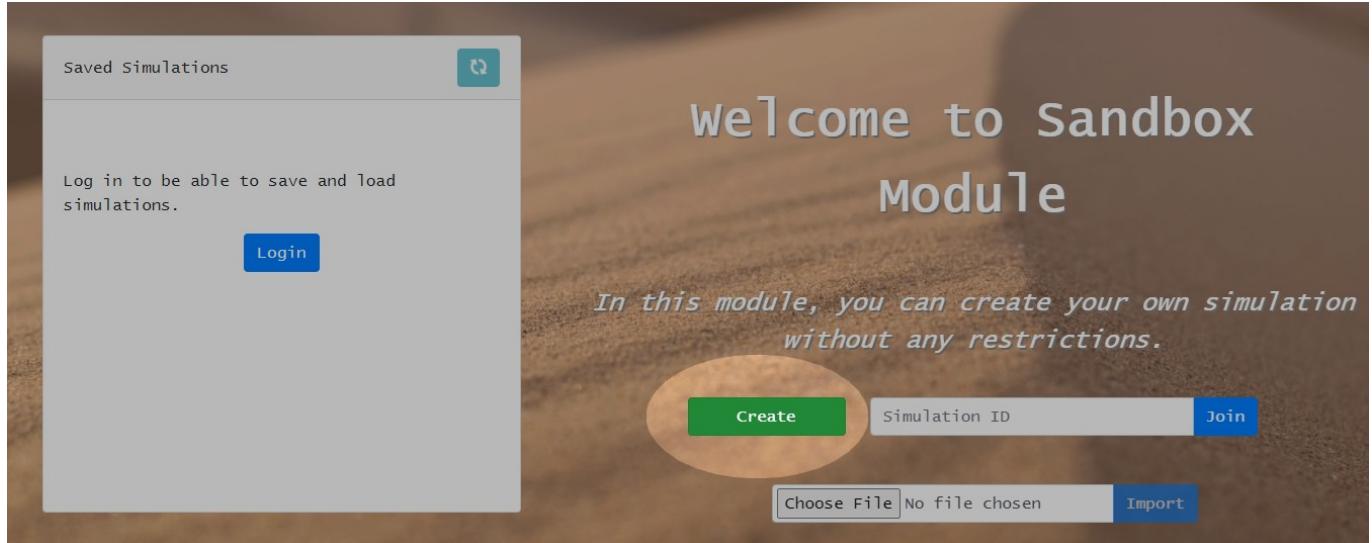


### 3. Sandbox

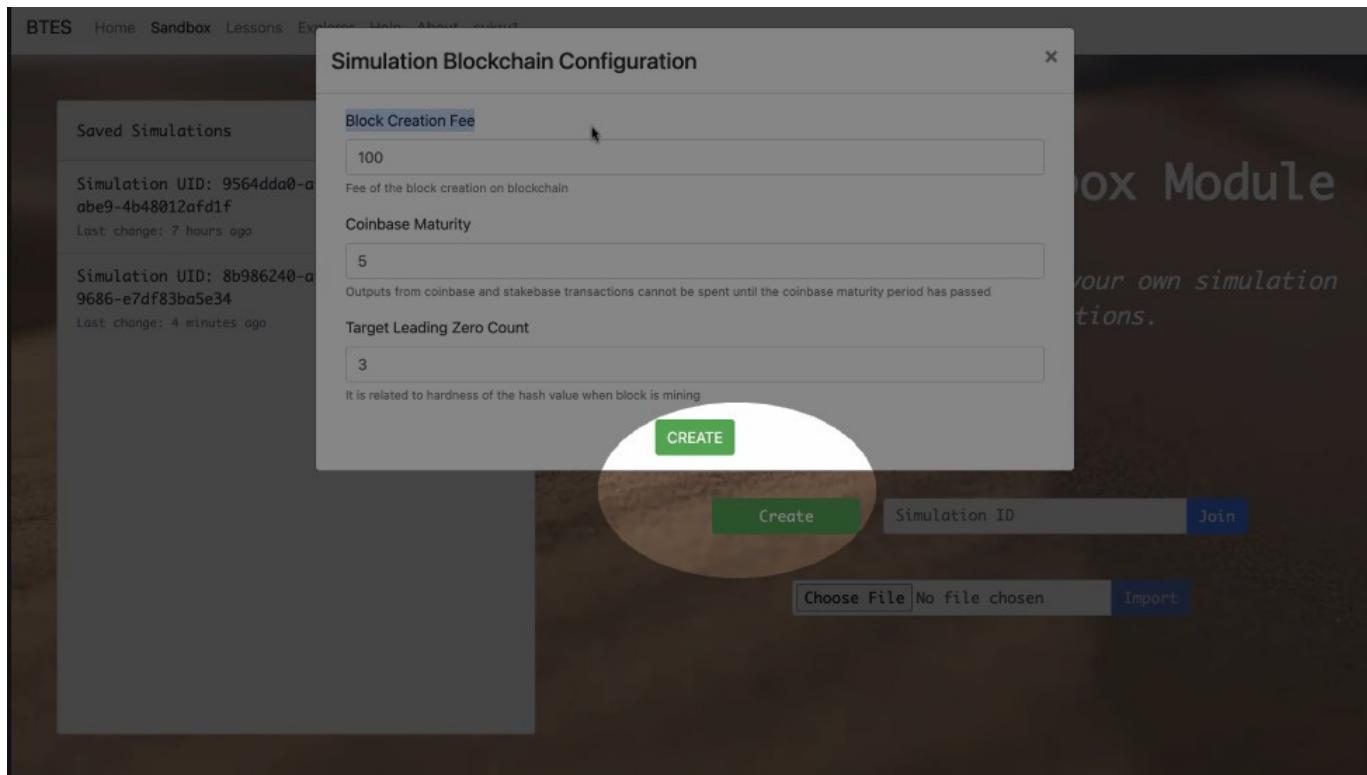
BTES will serve a sandbox simulation environment, enabling total control. Various control options will include pausing, undoing/redoing, inspecting the simulation, controlling the timescale, and so on. This sandbox control will grant the user with the ability to truly understand each step of the execution and how they fit together.

#### 3.1 Login for Listed Simulation

*Important Note: Keep in mind that if you not logged in, saved datas not be seen at listed table or user can not be able to save their simulation activity.*

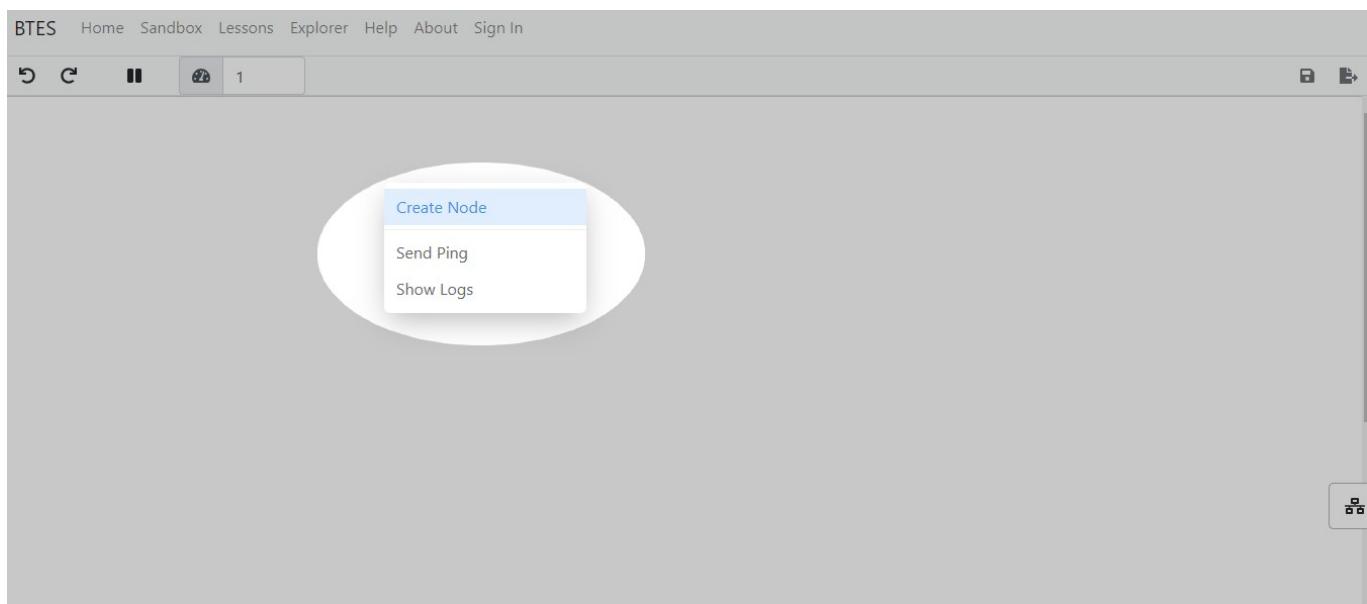


You can set the features that you want to see in your simulation.

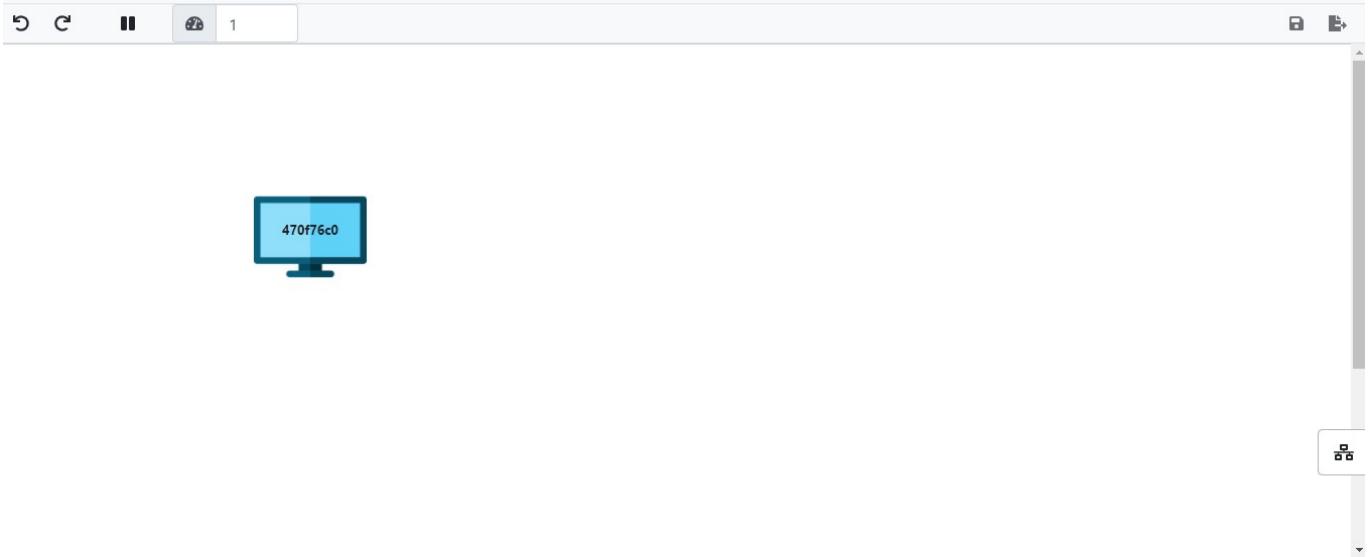


### 3.2 Create Node

- Create or put number to create a new simulation



- Simulation page is opened
- Right Click to create node



- Double click on node to open "Node Details Modal"
- Click network

A screenshot of the "Node Details" modal window. The window has a title bar with the text "Node Details" and a close button. Below the title bar is a navigation bar with tabs: Summary (which is selected), Network, Mails, Blockchain, and Log. The main content area contains five data rows:

ID:	470f76c0-af12-11eb-8666-6f4a42fcfb27
Status:	Active
Wallet:	Yes
Funds:	2345
Current Activity:	Idle

The background of the entire application is dark gray, and the modal window has a light gray background.

- Click Target Node
- Click Connect button

The screenshot shows the 'Node Details' modal for a node with UID `470f76c0`. The 'Network' tab is selected. In the 'Connected Nodes' section, there is one entry:

Node UID	Latency (ms)	Actions
<code>6fa664e0-af12-11eb-8666-6f4a42fcfb27</code>	10	<button>Disconnect</button>

In the 'Target Node' section, the target node is set to `6fa664e0-af12-11eb-8666-6f4a42fcfb27`, and a green 'Connect' button is visible.

- The targeted connection information created at Node detail modal

The screenshot shows the 'Node Details' modal for the same node with UID `470f76c0`. The 'Network' tab is selected. In the 'Connected Nodes' section, the previous entry now has a red 'Disconnect' button replaced by a green 'Connect' button.

Node UID	Latency (ms)	Actions
<code>6fa664e0-af12-11eb-8666-6f4a42fcfb27</code>	10	<button>Connect</button>

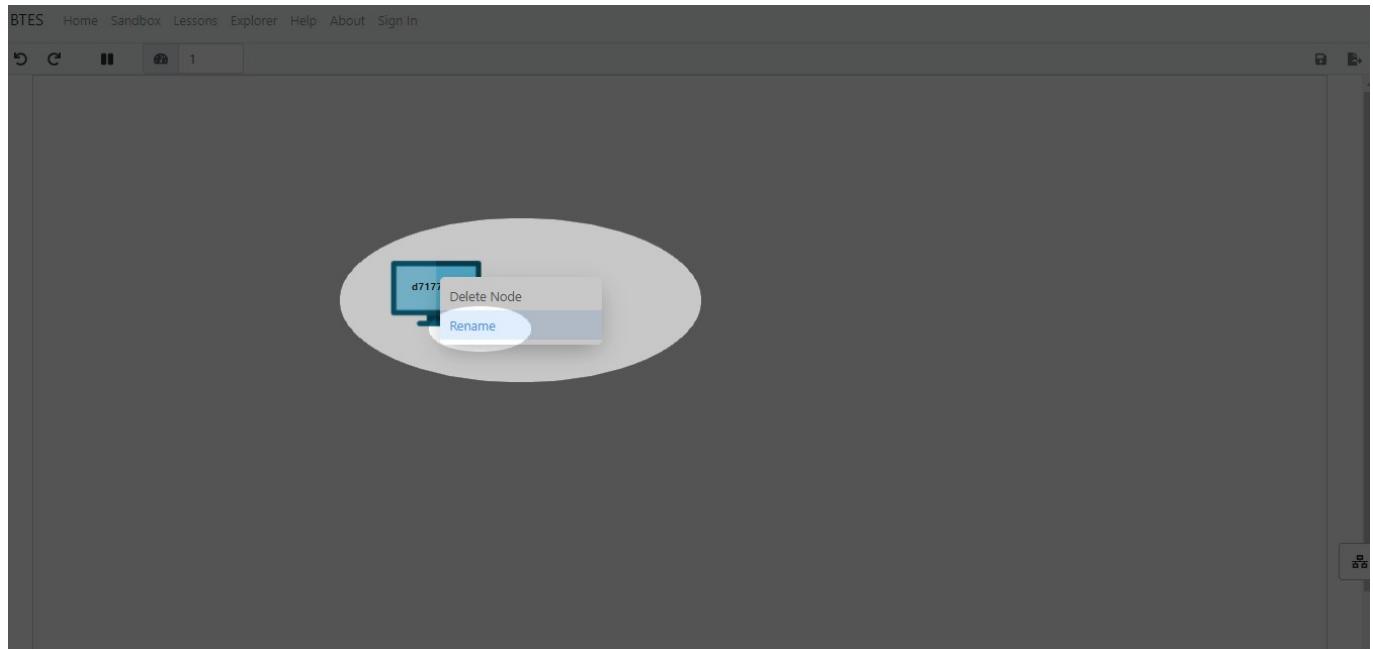
In the 'Target Node' section, the target node is set to 'Select...', and a green 'Connect' button is visible.

- Two nodes are connected with each other

The screenshot shows the main BTES interface. At the top, the node UIDs `470f76c0` and `6fa664e0` are connected by a blue line. In the bottom right corner, a network status indicator shows 'Network Status: Online' with a signal icon.

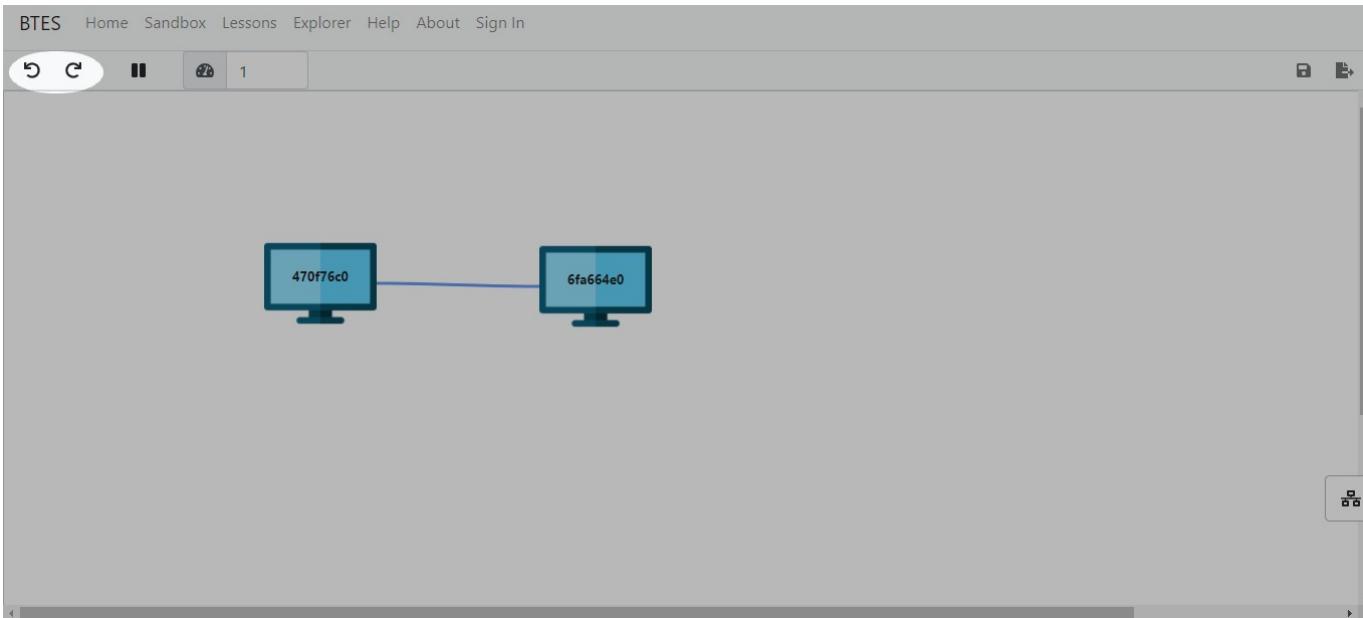
### 3.3 Rename Node

- To better understand and teach, node Uids can be changed another name to represent.



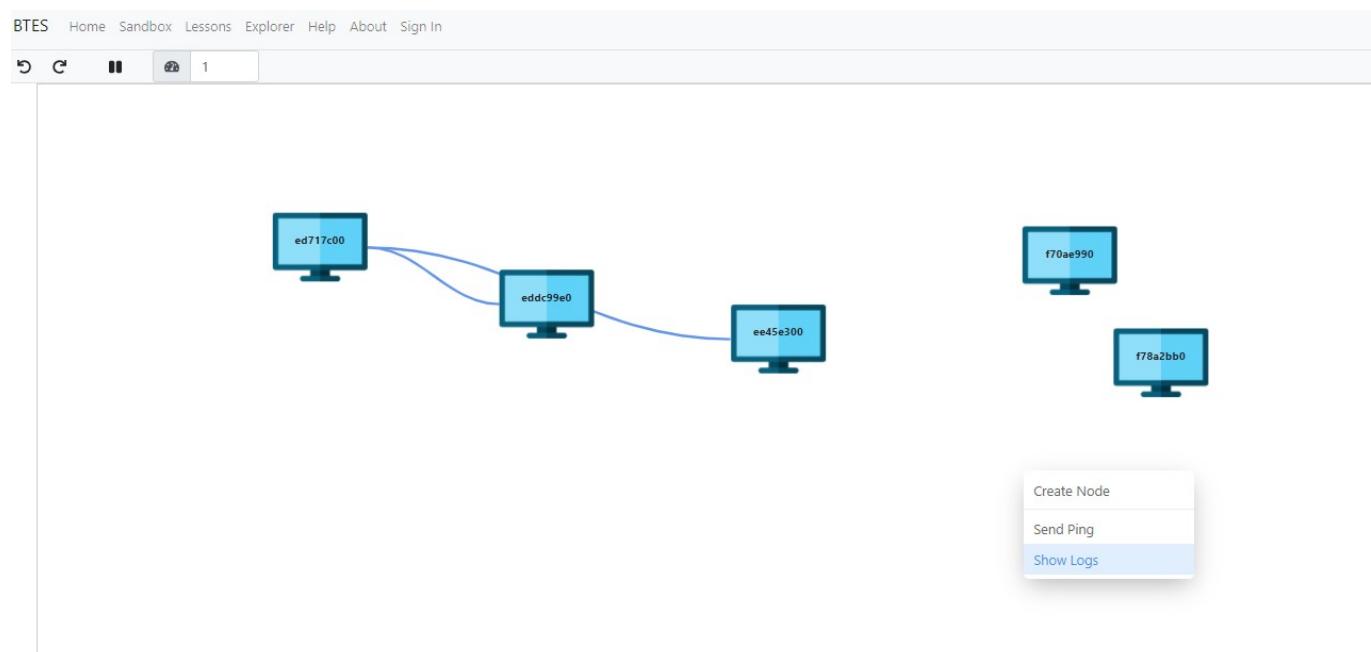
### 3.4 Undo & Redo Activity

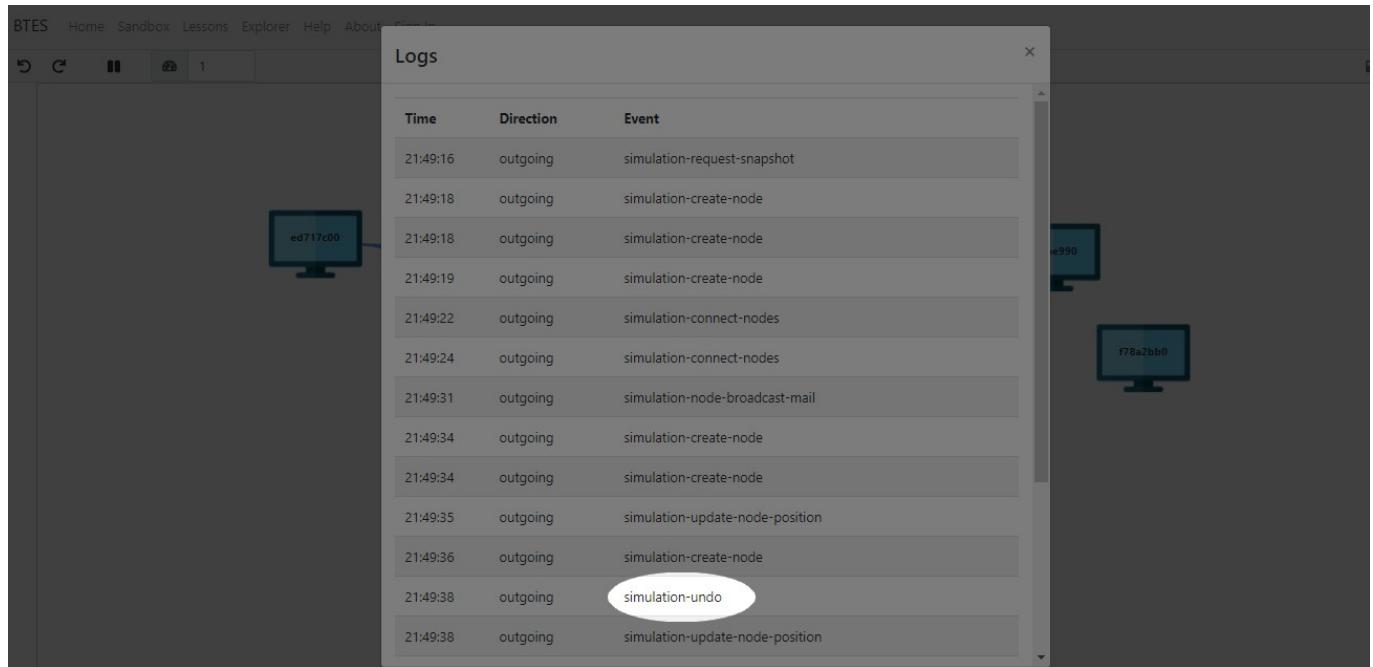
- If you want to go back to your activity for some changes, there exist undo and redo button.



### 3.5 View Log

- After undo, redo activity you can check the logs.





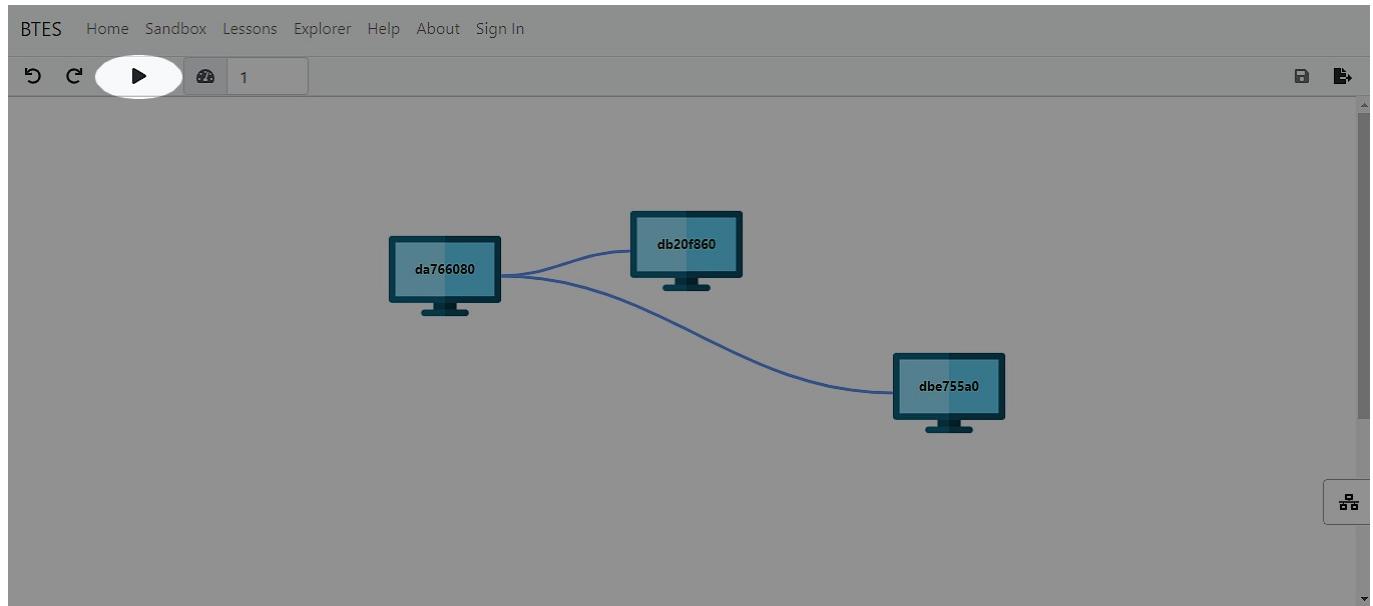
The screenshot shows the BTES application window. In the center, there is a network visualization with three computer monitor icons labeled `ed717c00`, `e990`, and `f78a2bb0`. Blue lines connect the first two monitors. A tooltip or callout points to the connection between the first two monitors. On the right side of the screen, a vertical toolbar has several icons: a magnifying glass, a play/pause button, a circular arrow, a square, a triangle, and a double triangle.

**Logs**

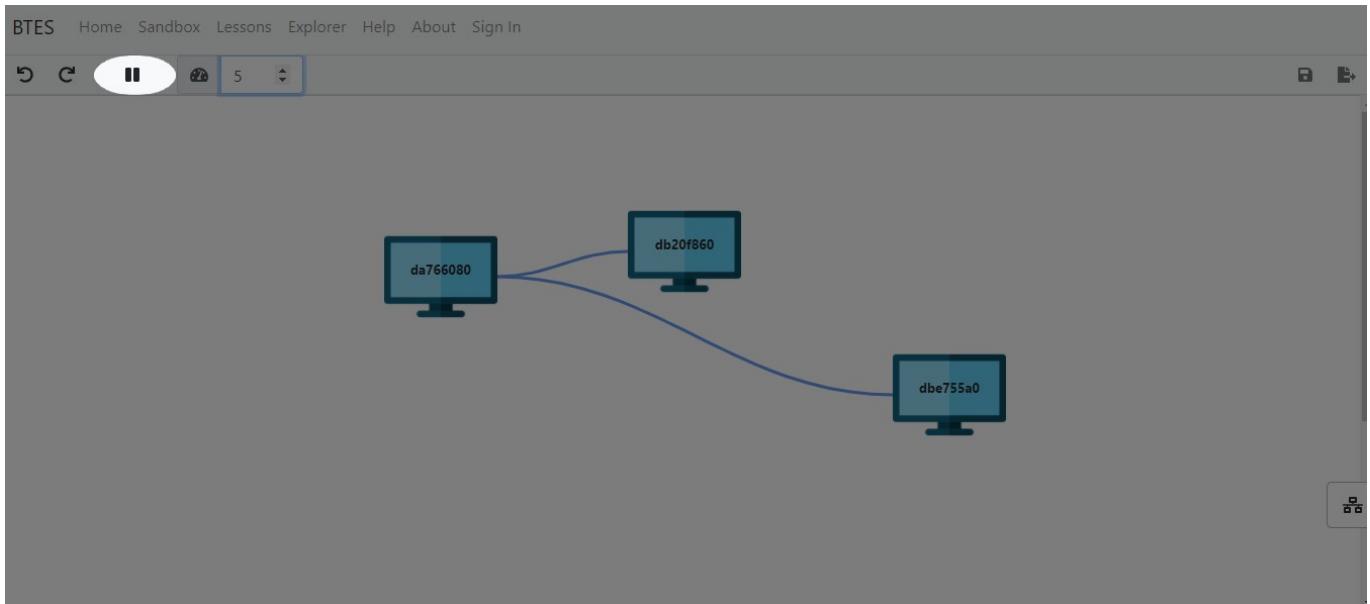
Time	Direction	Event
21:49:16	outgoing	simulation-request-snapshot
21:49:18	outgoing	simulation-create-node
21:49:18	outgoing	simulation-create-node
21:49:19	outgoing	simulation-create-node
21:49:22	outgoing	simulation-connect-nodes
21:49:24	outgoing	simulation-connect-nodes
21:49:31	outgoing	simulation-node-broadcast-mail
21:49:34	outgoing	simulation-create-node
21:49:34	outgoing	simulation-create-node
21:49:35	outgoing	simulation-update-node-position
21:49:36	outgoing	simulation-create-node
21:49:38	outgoing	simulation-undo
21:49:38	outgoing	simulation-update-node-position

### 3.6 Resume & Pause Activity

- You can click "resume-play" button to resume simulation.



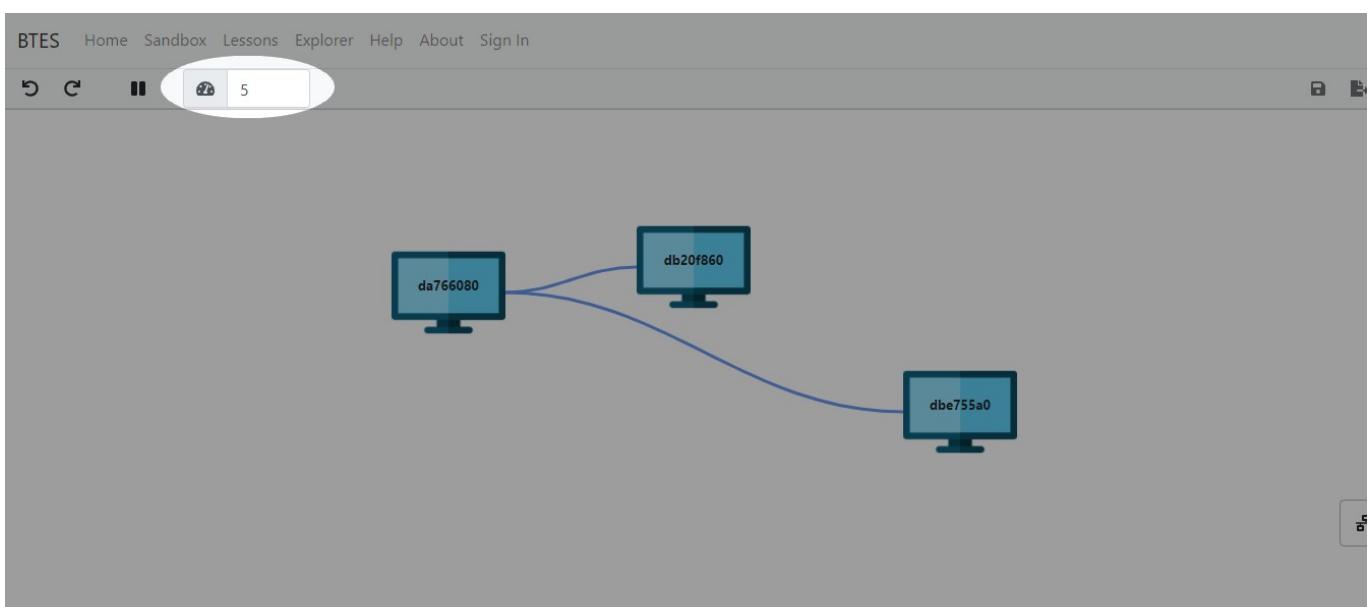
- You can click "pause" button to stop simulation.



*Note: You should stop the simulation to save.*

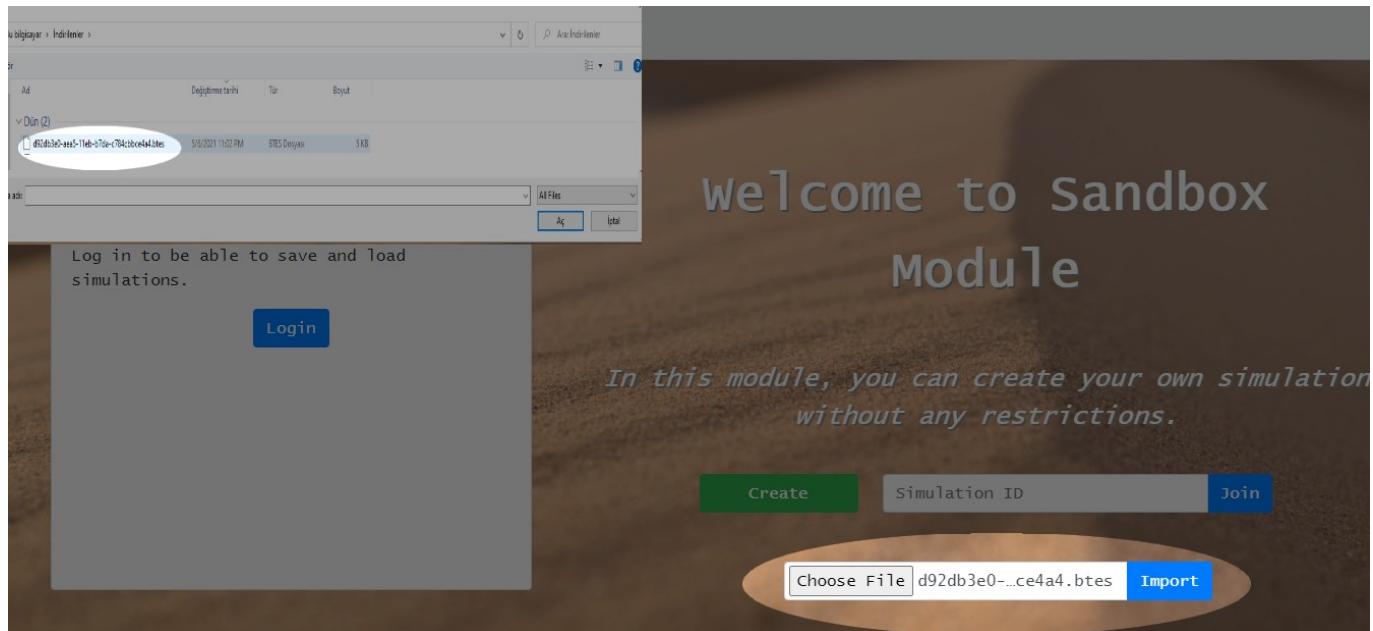


- You can change, decrease/increase time scale from barometer.

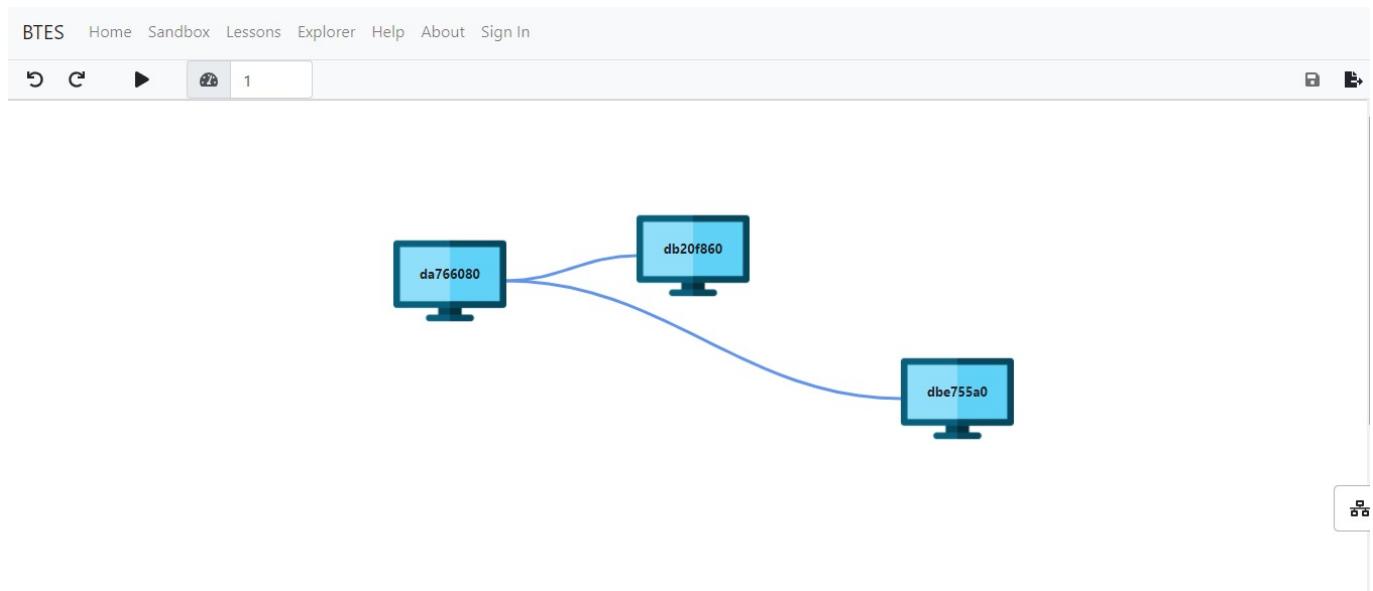


### 3.7 Import & Export

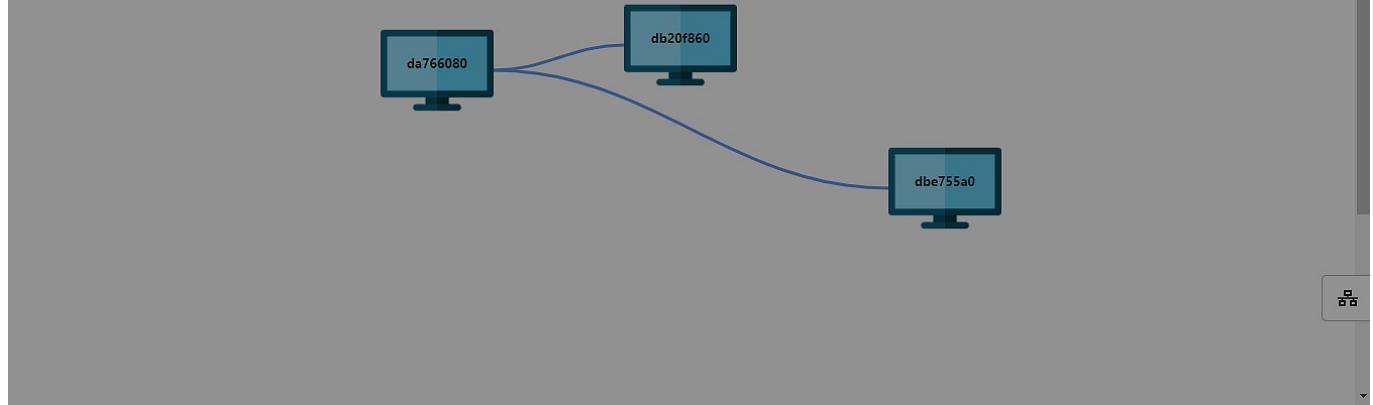
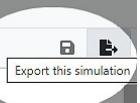
- You can upload your old simulation from Import button.



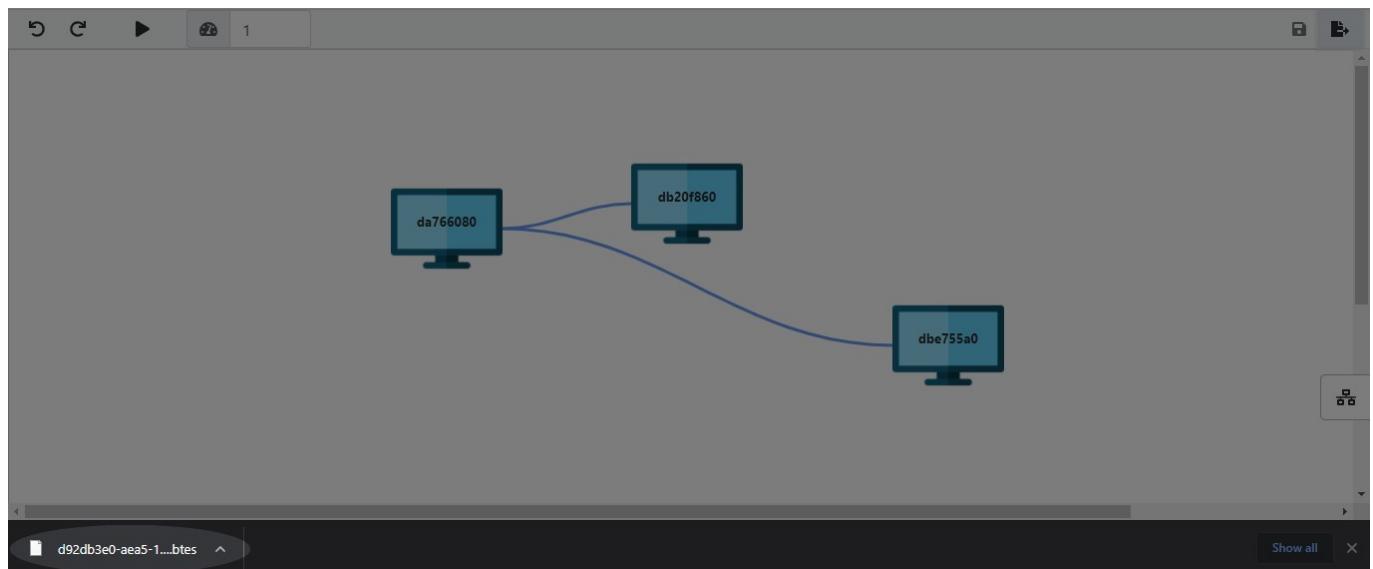
- Previous simulation can be seen after importing.



- When you are done, you can save and export your Simulation at the top right corner.



- You can see the downloading .btes extention file.



### 3.8 Blockchain

Node details modal offers Blockchain operation.

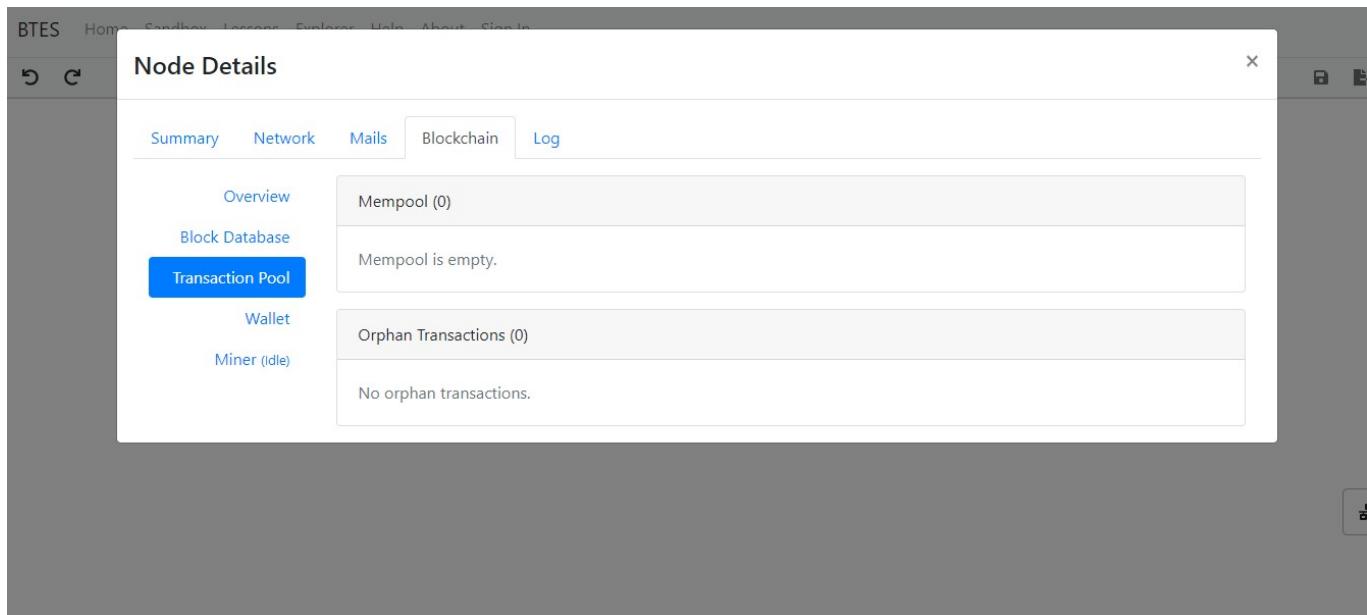
Overview panel for general information about blockchain.

This screenshot shows the 'Node Details' window of the BTES application. The title bar includes links for Home, Sandbox, Lessons, Explorer, Help, About, and Sign In. The main area has tabs for Summary, Network, Mails, Blockchain, and Log, with 'Blockchain' selected. On the left, a sidebar lists Overview, Block Database (selected), Transaction Pool, Wallet, and Miner (Idle). The main panel displays node statistics: Address: Not set, Total funds: 0, Main branch head: 339516038c41fa454caea3fb9ef3093044ee00ad2b62420d343f6e985c4a23fb, Orphan blocks: 0, Mempool size: 0, and Orphan transactions: 0.

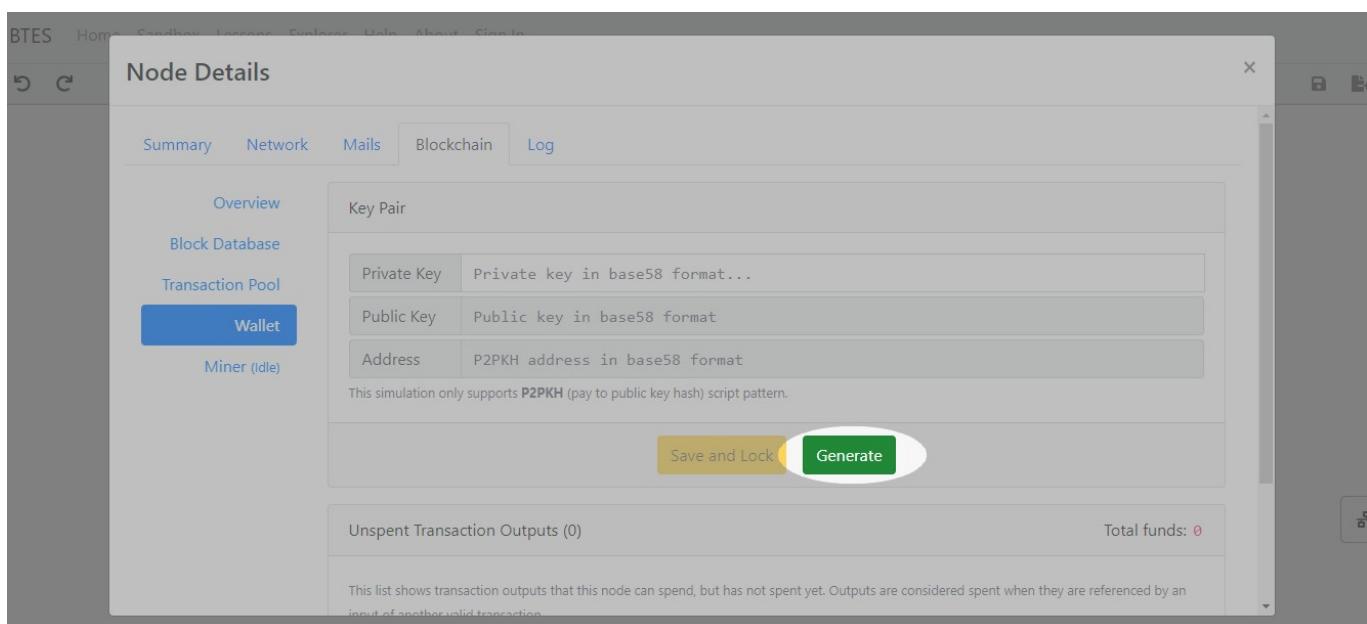
Block Database panel for details of block and previous hash.

This screenshot shows the 'Node Details' window with the 'Block Database' tab selected. The sidebar on the left remains the same. The main panel shows a single block entry with a red circular icon and the ID 0..339516. Below it, a section titled 'Details of block 339516038c41fa454caea3fb9ef3093044ee00ad2b62420d343f6e985c4a23fb' provides header information: Previous hash: 00, Difficulty target: 0, Timestamp: 0 (1/1/1970, 3:00:00 AM), andNonce: 0. A 'Transactions (1)' section is also visible.

Transaction pool panel for having mempool and orphan transactions.



Wallet panel for generation public/private key and address.



With save and lock button, you can have saved public and private key.

The screenshot shows the 'Node Details' window with the 'Blockchain' tab selected. On the left, a sidebar lists 'Overview', 'Block Database', 'Transaction Pool', 'Wallet' (which is highlighted in blue), and 'Miner (idle)'. The main area is titled 'Key Pair' and contains three fields: 'Private Key' (46b3PAMZRLSk1p9aXqCBaiYs1KhhWRSEqicftvBbEv57), 'Public Key' (24GDVGJeTj3Z6p6cvo2HnBbjvvCo8VmjkCjcu7xisW6H), and 'Address' (13baG7PCDcV9ucr5qfLtaJpWgkLPP). A note below states: 'This simulation only supports P2PKH (pay to public key hash) script pattern.' Another note says: 'In this simulation, key pairs are permanent after they are locked, for simplicity. In real-life, you can change your key pairs whenever you want.' Below this is a section for 'Unspent Transaction Outputs (0)' with a 'Total funds: 0' label. A note here says: 'This list shows transaction outputs that this node can spend, but has not spent yet. Outputs are considered spent when they are referenced by an input of another valid transaction.'

Once the wallet operations are finished, the transaction can be initiated.

This screenshot is identical to the one above, showing the 'Node Details' window with the 'Blockchain' tab selected. The sidebar shows 'Overview', 'Block Database', 'Transaction Pool', 'Wallet' (highlighted in blue), and 'Miner (idle)'. The 'Key Pair' section remains the same. The 'Unspent Transaction Outputs (0)' section also remains the same. However, a blue button labeled 'Create Transaction' is now visible at the bottom of the screen, indicating that a transaction has been initiated.

Transaction core operations can be done in New Transaction Panel that is inside Wallet Panel.

BTES Home Coinbase Transaction Explorer Help About Close

### New Transaction

**Inputs**

Input	-
<input type="checkbox"/> Is coinbase?	
Previous Tx Hash	
<input type="text"/>	
Previous Tx Output Index	
<input type="text"/> 0	
Private Key for Unlocking Script	
<input type="text"/> Base58 encoded private key...	

**Outputs**

+
Total: 0

Mining operation can be done in Miner Panel. Idle represents status of the Miner.

BTES Home Coinbase Transaction Explorer Help About Close

### Node Details

- [Overview](#)
- [Block Database](#)
- [Transaction Pool](#)
- [Wallet](#)
- [Miner \(Idle\)](#)

**Block Template**

**Coinbase Transaction**

Each miner has the right to put a single transaction at the top of the block they are creating, which generates currency out of thin air. This transaction is called a **coinbase transaction**.

**Coinbase**

Arbitrary data to be put in the coinabase transaction's input...

This field carries no algorithmic significance. Fill it to your heart's content.

**Recipient Address**

Base58 encoded blockchain address of the recipient...

Please note that we use `base58` encoding for the addresses and keys, not `base58check`.

**Value**

100  + Fees of included transactions

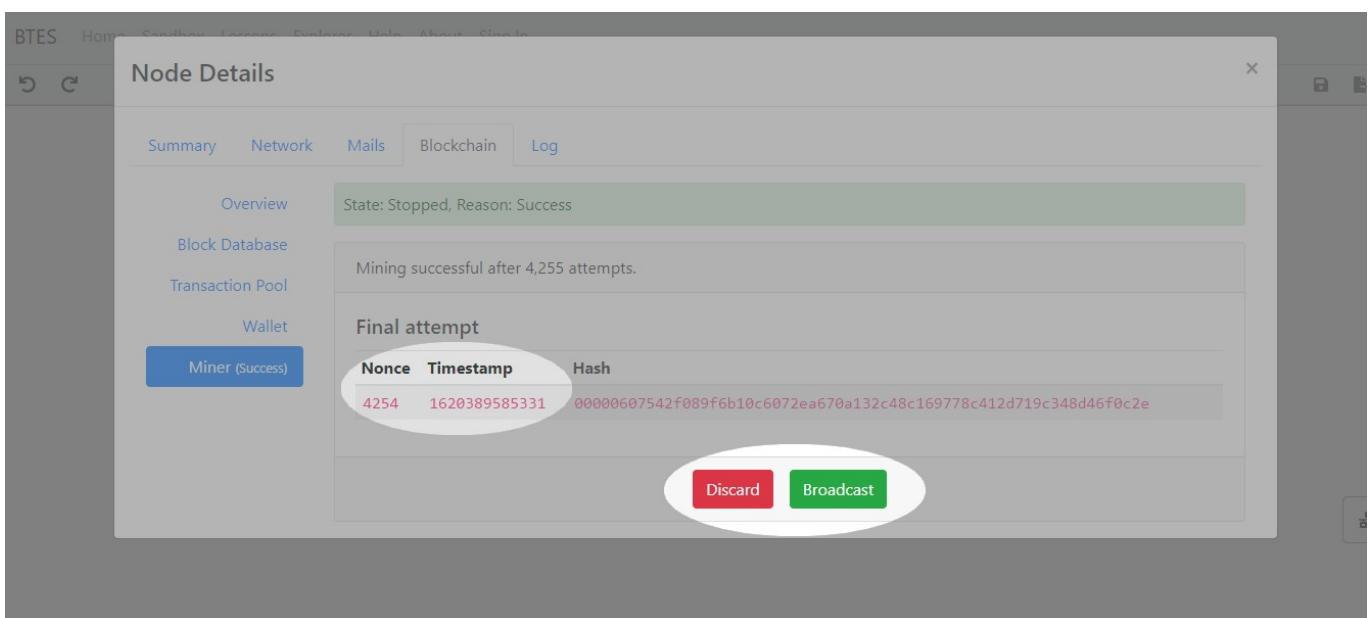
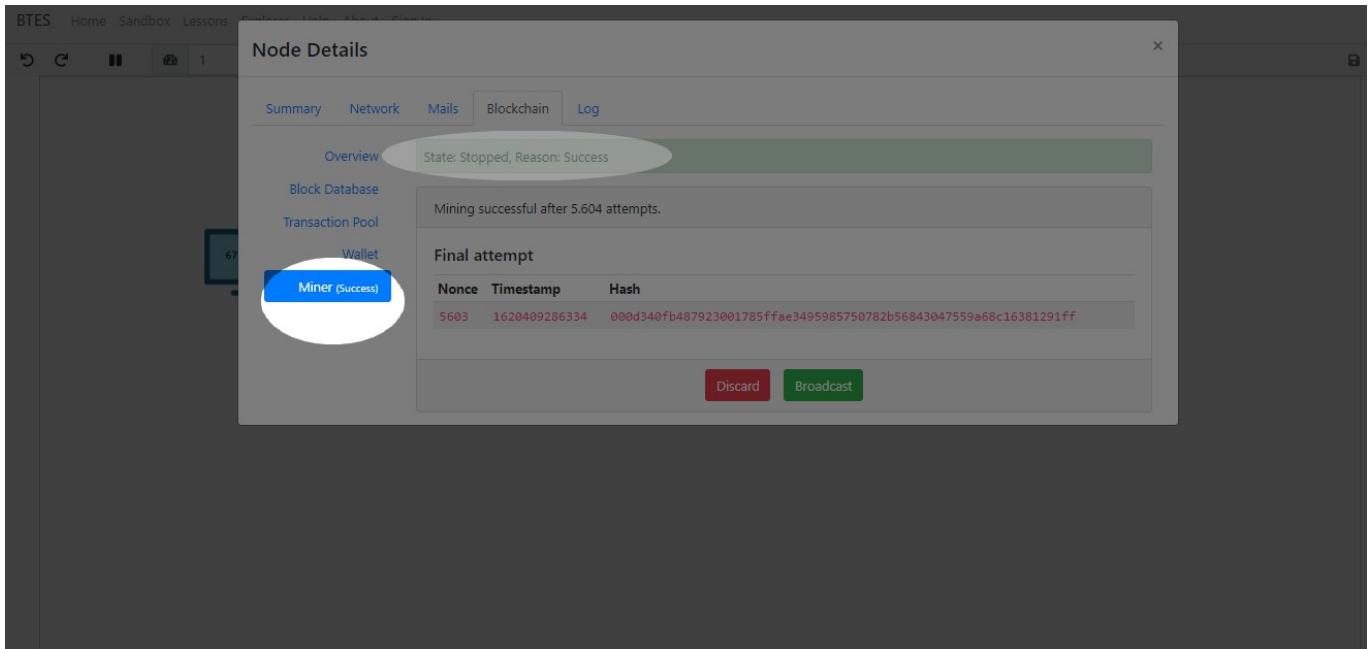
*Step-1,*

The screenshot shows the 'Node Details' page of the BTES application. The left sidebar has tabs for Overview, Block Database, Transaction Pool, Wallet, and Miner (Idle). The Miner (Idle) tab is selected. The main area is titled 'Block Template' and contains a section for 'Coinbase Transaction'. It explains that each miner can add a 'coinbase transaction' at the top of the block to generate currency. Below this is a 'Coinbase' field with placeholder text 'Arbitrary data to be put in the coinabase transaction's input...'. A note below it says 'This field carries no algorithmic significance. Fill it to your heart's content.' To the right of the Coinbase field is a 'Recipient Address' input containing the value '13baG7PCDcV9ucr5qfLtaJpWgkLPP'. Next to this is a teal button labeled 'Set to own address'. Below the address is a note: 'Please note that we use `base58` encoding for the addresses and keys, not `base58check`'. There is also a 'Value' input set to '100' and two buttons: 'Use configuration' and '+ Fees of included transactions'.

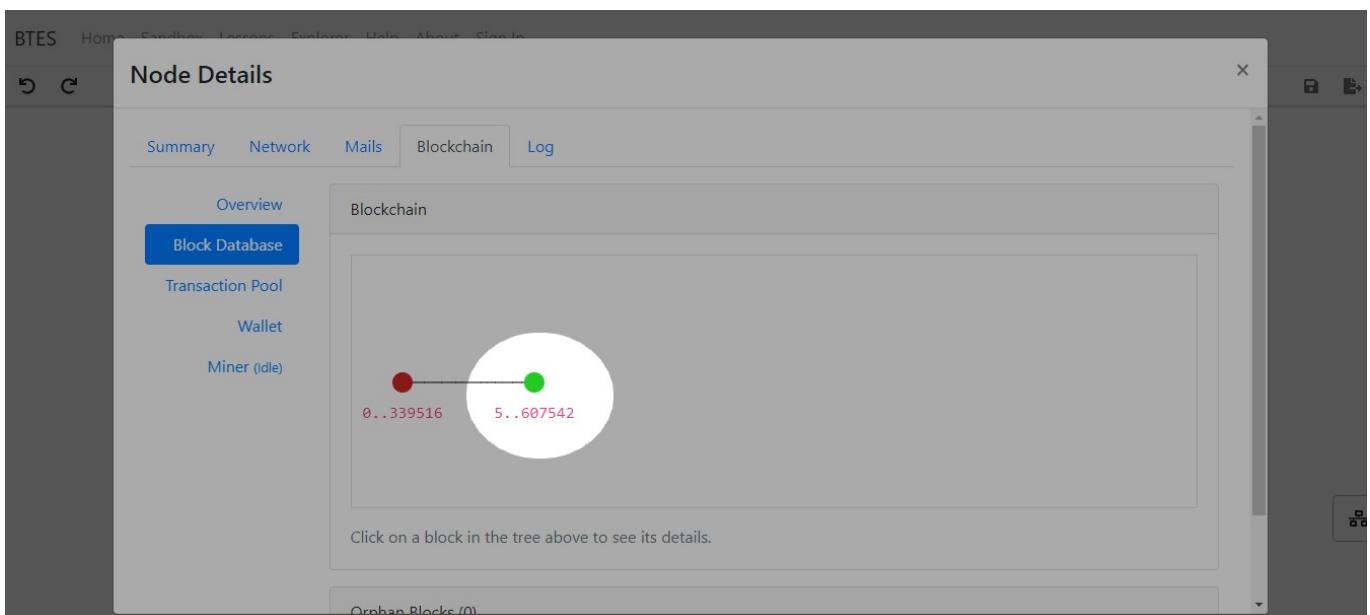
*Step-2,*

The screenshot shows the 'Node Details' page of the BTES application. The left sidebar has tabs for Overview, Block Database, Transaction Pool, Wallet, and Miner (Idle). The Miner (Idle) tab is selected. The main area contains a note about the required number of leading zeros for the block hash. Below this is a section for 'Other Transactions' which states: 'You can add other transacitons to your block in order to collect their **transaction fees**'. It shows two sections: 'Included Transactions (0)' with 'Total fee: 0' and 'Available Transactions in Mempool (0)' with 'No available transactions'. At the bottom is a large green button labeled 'Start Mining'.

*After, mining operation finish;*



Block database and connection can be seen in Block Database Panel, when the operations finish.



At the end, to understand activity process, it can be checked log history from Node Details Panel.

The screenshot shows the 'Node Details' panel in the BTES application. The 'Log' tab is selected. A table displays a single log entry:

Time	Direction	Event
3:09:14 PM	incoming	simulation-blockchain-key-pair-saved

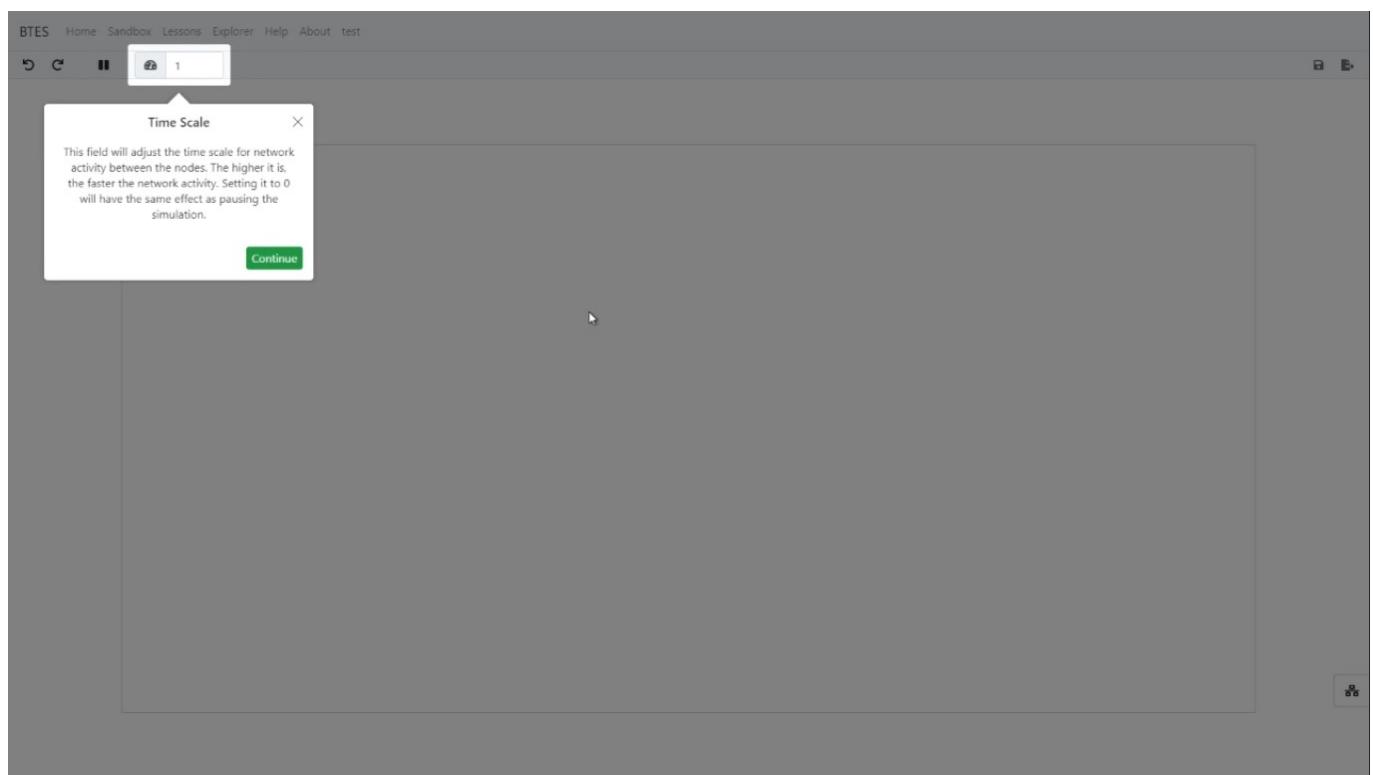
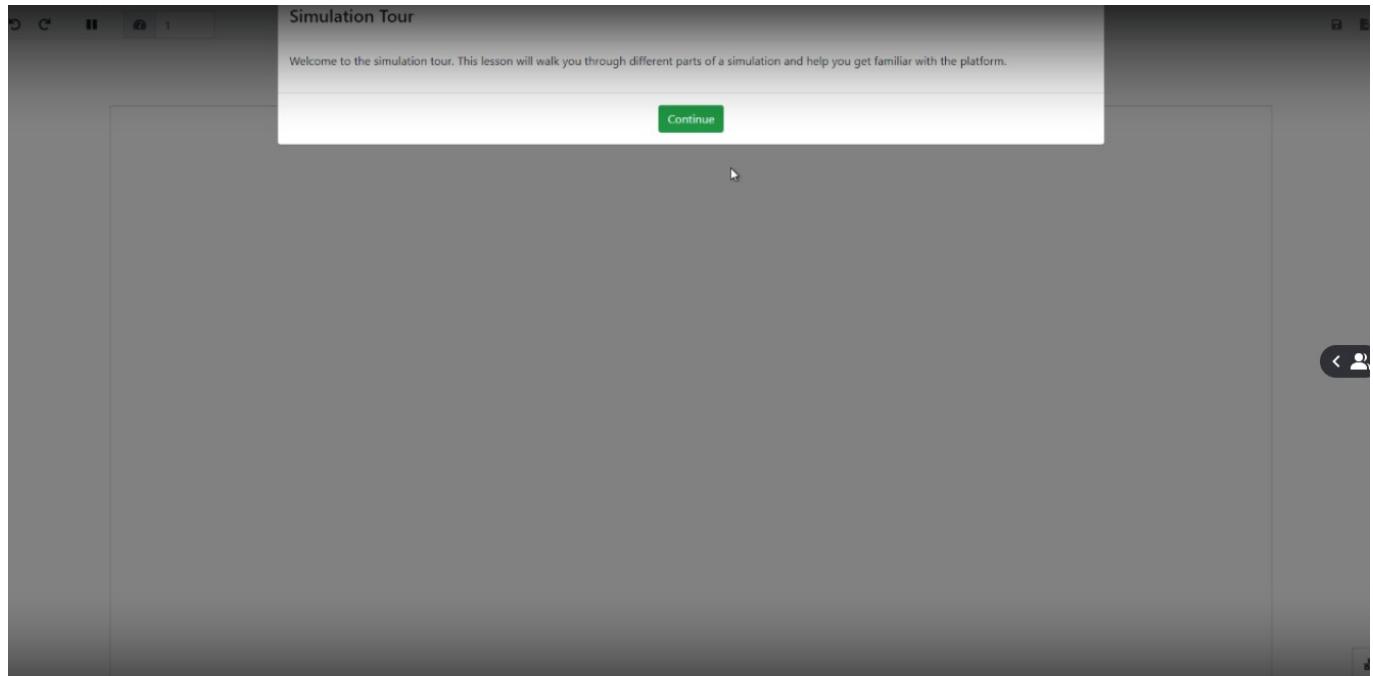
A white oval highlights the event column of the log entry. In the background, there is a network diagram with nodes and connections, and a monitor icon labeled 'dbe755a0'.

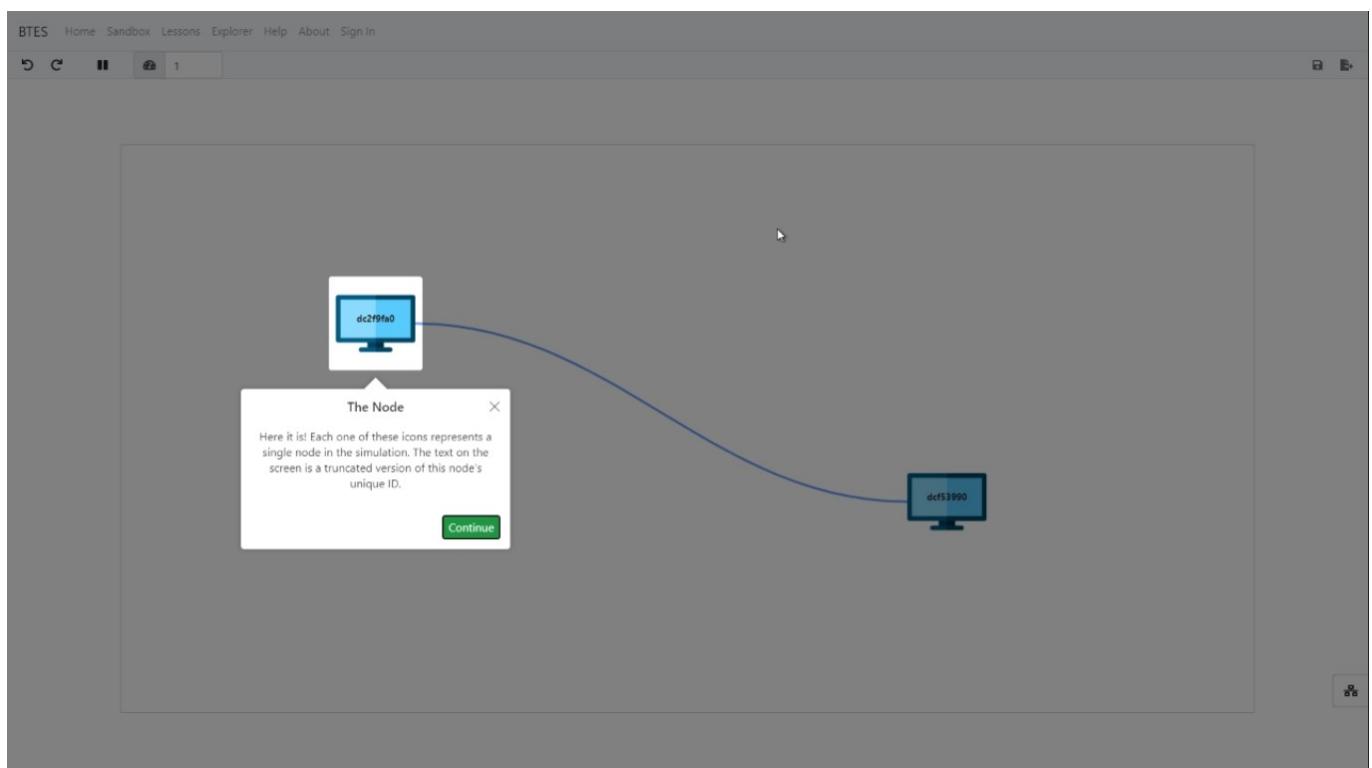
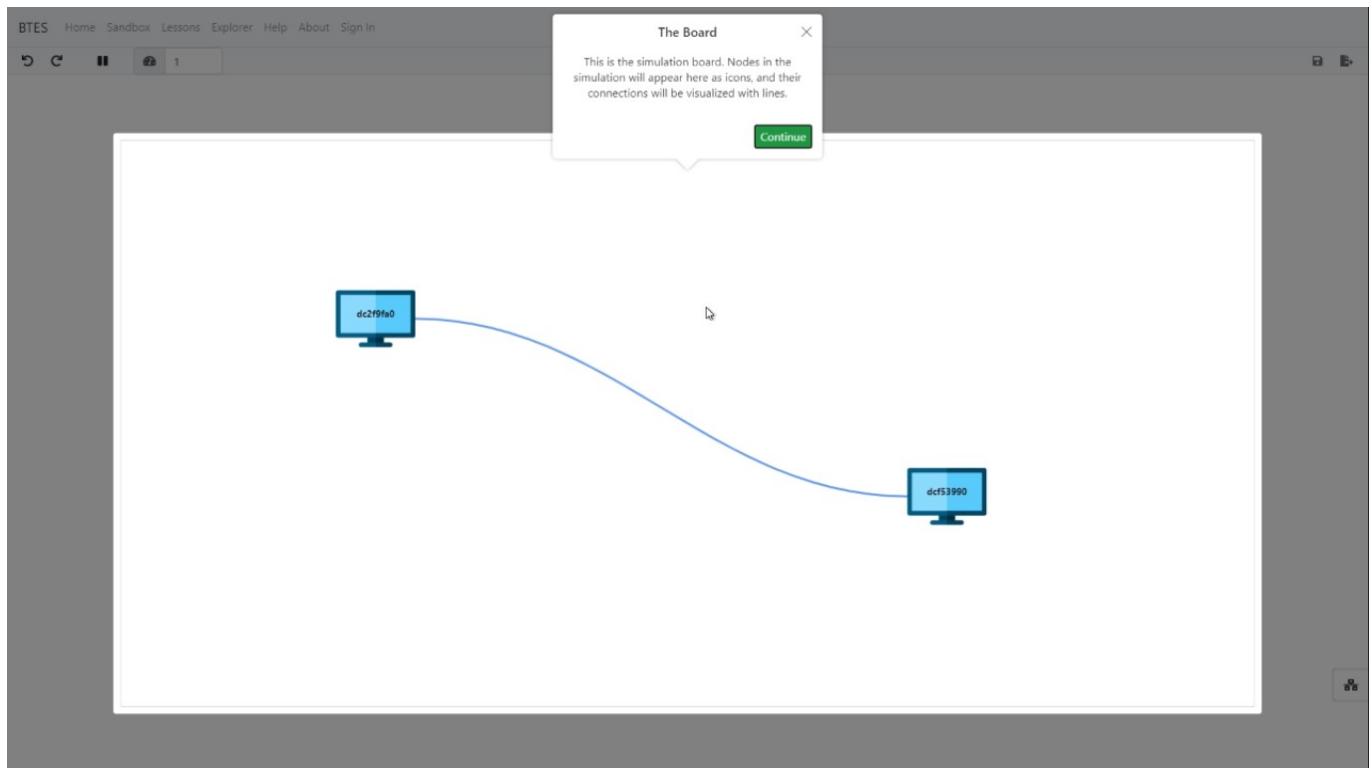
## 4. Lessons

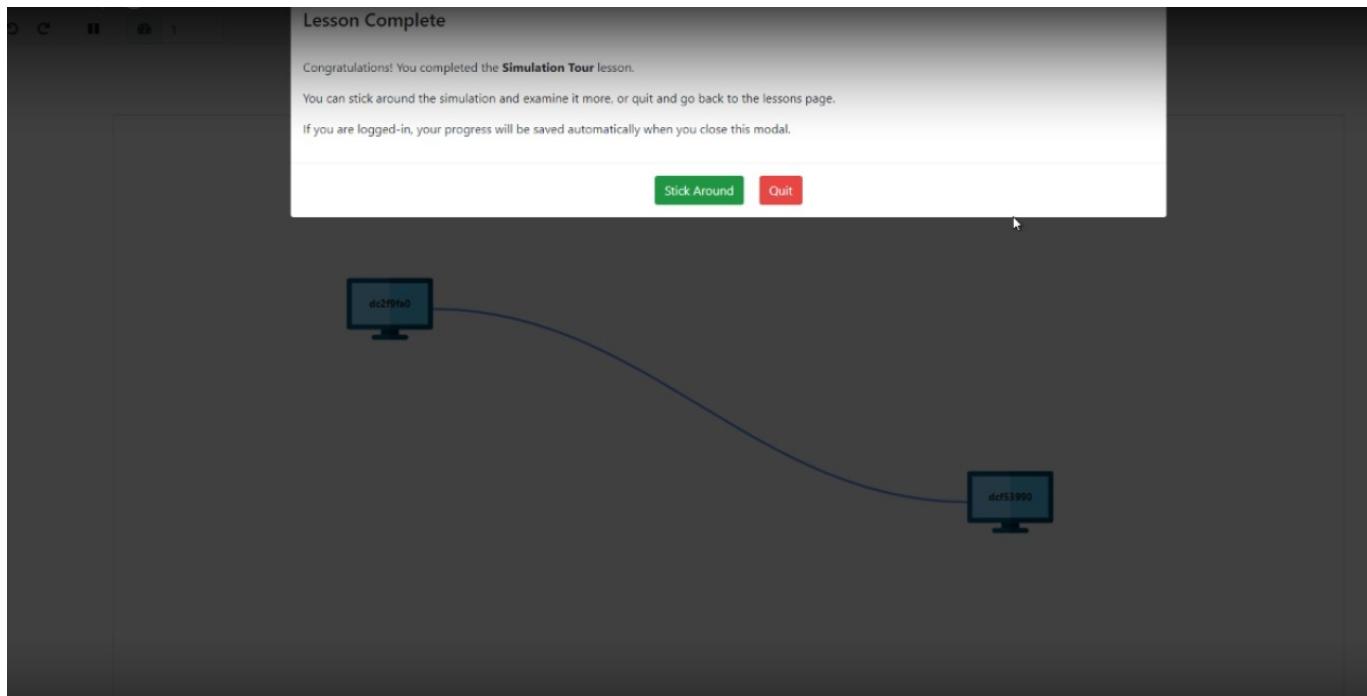
### 4.1 Lessons and Sandbox Collaborations

You can click "Continue" button and do the activities to learn chapters.

The screenshot shows the 'Lessons' module in the BTES application. The top navigation bar includes 'BTES', 'Home', 'Sandbox', 'Lessons' (which is highlighted), 'Explorer', 'Help', 'About', and 'test'. The main area features a dark background with a book and glasses theme. The title 'Welcome to Lessons Module' is displayed. Below it, a text block reads: 'In this module, you can follow along with a set of guided simulations to get started on learning the blockchain technology. Pick a lesson from the list to get started.' A green 'Begin' button is visible on the right. On the left, a section titled '#1: Simulation Tour' is shown with the subtext 'This lesson will teach you the basics of a simulation.' and a status message '→ Did not complete'.

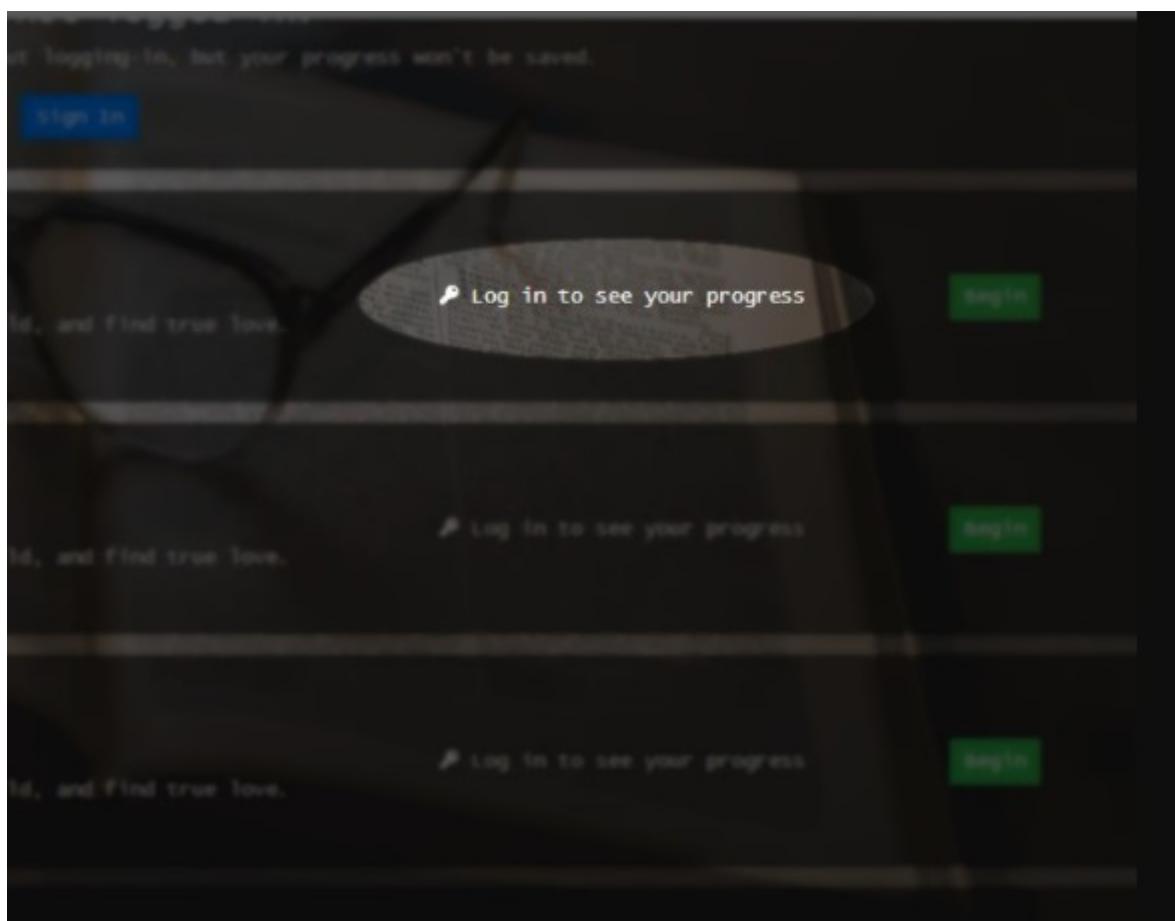




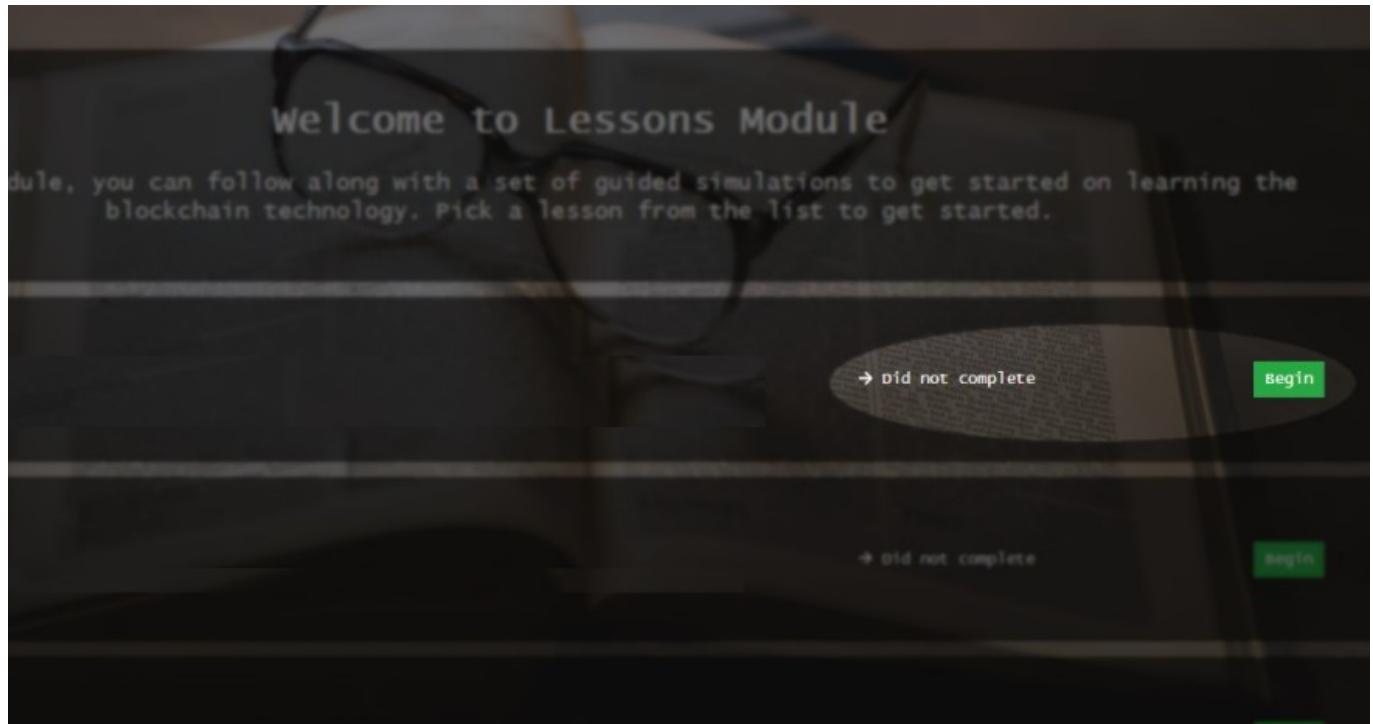


## 4.2 Lessons with Sign In

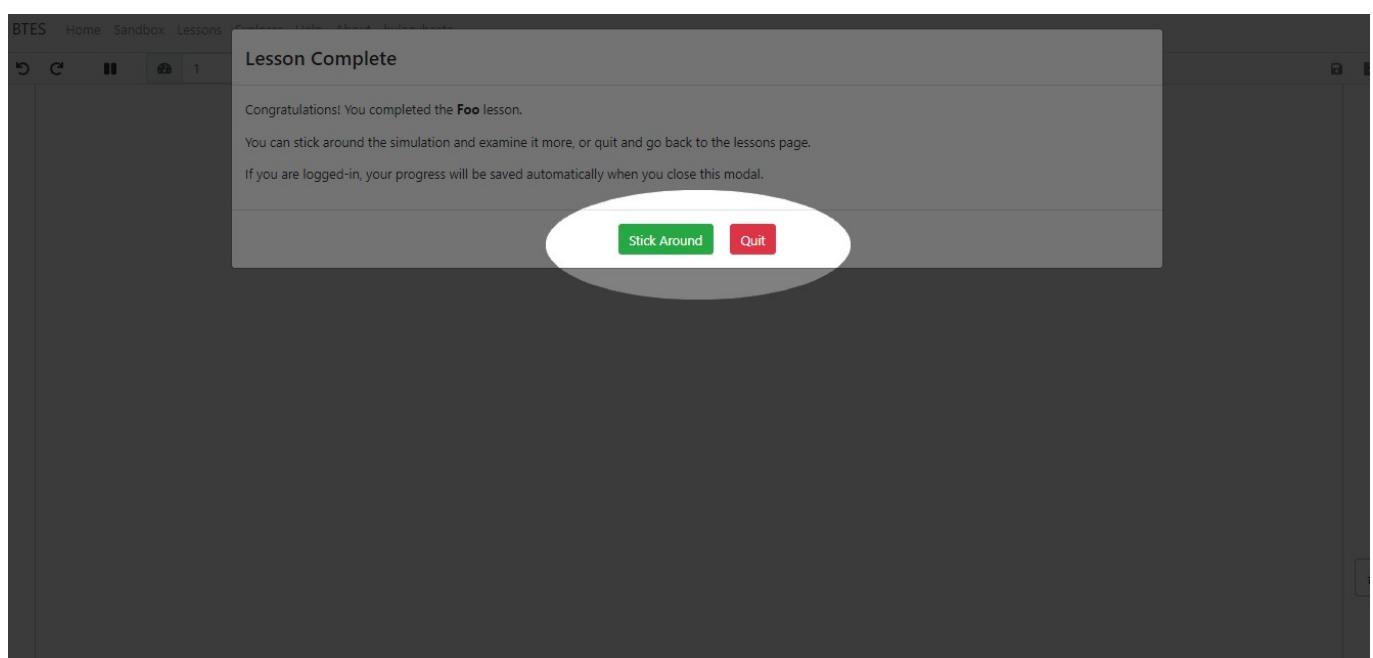
If you did not log in, completion can not be seen.



When you finish, you will take a complete message.

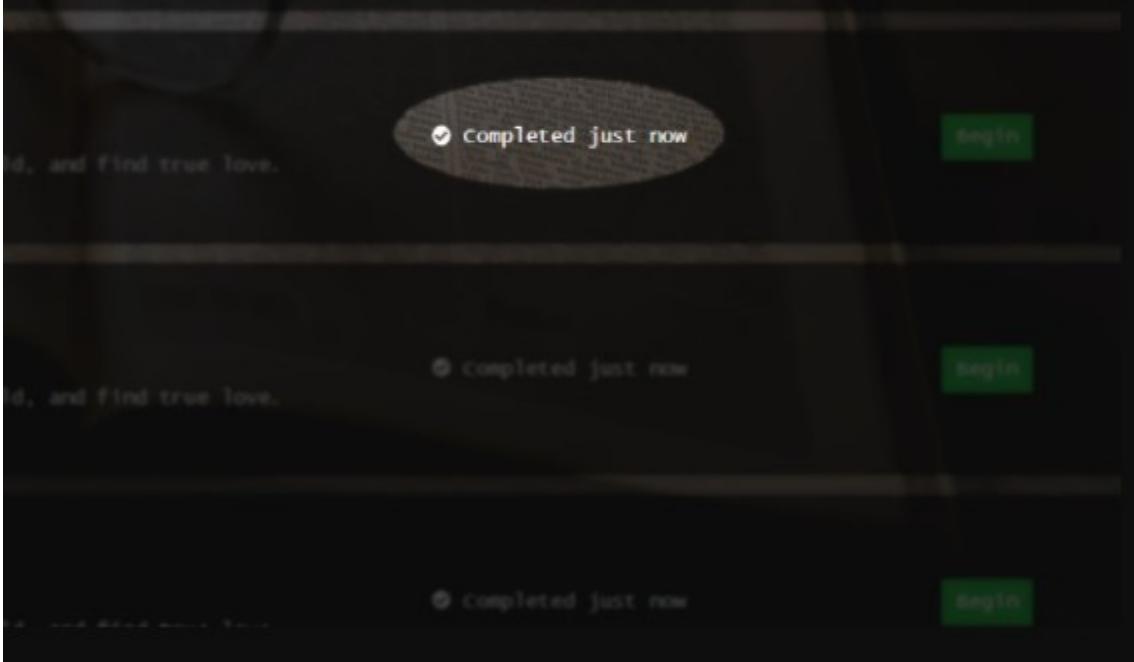


#### 4.3 Lessons Completed



## Lessons Module

of guided simulations to get started on learning the lesson from the list to get started.



## 5. Explorer

It can be tracked the real world blockchain exchange, market and graphics.



Also, Bitcoin (BTC) and Ethereum price charts in USD can be seen.

### 5.1 Price of Bitcoin

It can be monitored the price of bitcoin over the last day.

BITCOIN ▾

USD ▾

\$56,492.00

\$1,055,540.17M

\$72,183.55M

-1.23

24H Volume

24H Change

### Price in USD

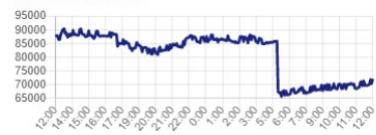
The price of bitcoin over the last day



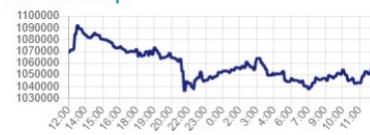
## 5.2 Latest Blocks and Transactions

It can be monitored be seen latest blocks and transactions history.

### Total Volume



### Market Cap



### Latest Blocks

The most recently mined blocks

Height	Hash	Tx Count	Time
682375	0xb010ccb3b93ee76698e...	1	21:06:19
682374	0xeadd4e0f99887bd0a7ae...	2	21:06:19
682373	0x9c2ddb018a7e6694a3...	1	21:06:19
682371	0x79eb395f3e0a6cd4cc9...	3	21:06:18
682370	0x1656c2a9493ee1db029...	6	21:06:18
682369	0x83f329fe3a1067d5d27...	4	21:06:17

### Latest Transactions

The most recently published unconfirmed transactions

Hash	Time	Size	Weight
ae9d97c4bc3af7381365d...	21:06:20	422 Byte	1358
9131de3a1bdfe91e572ff9...	21:06:20	380 Byte	755
727cb3a4d1fa9f28d2180...	21:06:20	374 Byte	1496
1b3cc77766f6e8ea0099fc...	21:06:20	226 Byte	904
aca86cd48d982cbf6ed47...	21:06:20	226 Byte	904
ee572a558bc9aad6cbc1f...	21:06:20	247 Byte	661

## 5.3 Details of Blocks

- Click the all blocks button at the bottom of the page to see the details.

682374	0xead4e0f99887bd0a7ae...	2	21
682373	0x9c2ddb018a7e6694a3...	1	21
682371	0x79eb395f3e0a6cd4cc9...	3	21
682370	0x1656c2a9493ee1db029...	6	21

[All Blocks](#)

<http://bt3000/explorer-blocks/full>

- You can analyze Latest Blocks: the most recently mined blocks.

BTES Home Sandbox Lessons Explorer Help About Sign In

### Blok 682377

Hash	000000000000000000675085a1866754044d3bd980c25be1fbe7b3f5a15b11
Time Stamp	21:06:21
Height	682377
Tx Count	1881
Merkle Root	25dc5d790741be23af34db915324e068fc46e0f88c0ecba88783066d48b0e79
Version	536870916
Bit Count	386771043
Size	1277555 Bytes
Nonce	35903241
Fee Reward	0.24317289 BTC

#### Block Transactions

« < 1 2 ... 188 189 > »

## 6. Help

### 6.1 BTES Home Page

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**Home**

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Table of Contents

Blockchain Technology Education Software (BTES)

# Blockchain Technology Education Software (BTES)

BTES is an educational web-based platform about blockchain technology. BTES will serve a sandbox simulation environment, enabling total control. Various control options will include pausing, undoing/redoing, inspecting the simulation, controlling the timescale, and so on. This sandbox control will grant the user with the ability to truly understand each step of the execution and how they fit together. It will also provide numerous interactive lessons that will step-by-step explain how a blockchain works. BTES will guide the user throughout the lesson with the help of informational prompts, automated execution control, various highlights, and so on. These lessons will help beginners to quickly start learning about the critical topics with an easy to follow structure.

## 6.2 BTES Page

This is BTES web site rotation to understand page's functions.

The screenshot shows the BTES website interface. At the top, there is a navigation bar with links: BTES, Home, Sandbox, Lessons, Explorer, Help, About, and Sign In. Below the navigation bar is a sidebar on the left containing links: Home, How Btes Works, Course Content, Platform Basics, Core Blockchain, Acknowledgements, and Glossary. The main content area features a large, colorful background image of a network of nodes connected by lines. Below the image, the word "Home" is displayed in a large, bold font. A sub-section titled "Sandbox" follows, with a brief description: "Sandbox simulation environment, enabling total control. Various control options will include pausing, undoing/redoing, inspecting the simulation, controlling the timescale, and so on." To the right of the main content area is a vertical sidebar titled "Table of Contents" which lists the same navigation links as the top bar.

## 6.3 Chapters

Blockchain chapters unit by unit.

The screenshot shows the BTES website interface. At the top, there is a navigation bar with links: BTES, Home, Sandbox, Lessons, Explorer, Help, About, and Sign In. Below the navigation bar is a sidebar on the left containing links: Home, How Btes Works, Course Content, Platform Basics, Core Blockchain, Acknowledgements, and Glossary. The main content area features a large, colorful background image of hexagonal blocks forming a chain, with the words "BLOCK CHAIN" prominently displayed. Below the image, the section title "Course Content" is shown in a large, bold font. A detailed list of chapters follows: 1. Platform Basics (1.1 Sandbox, 1.2 Lessons), 2. Introduction - Blockchain Basics (2.1 What is Blockchain ?), 3. Core Elements of Blockchain, 4. Peer to Peer Network, 5. Transactions, 6. Blocks, 7. Mining, and 8. Distribution & Consensus. To the right of the main content area is a vertical sidebar titled "Table of Contents" which lists the navigation links.

## 6.4 Blockchain Book & Core Blockchain

This module acts like a book/documents for who wants to learn and teach.

[Home](#)  
[How Btes Works](#)  
[Course Content](#)  
[Platform Basics](#)  
**Core Blockchain**  
[Acknowledgements](#)  
[Glossary](#)



## What is Blockchain?

A blockchain is a special type of database. You may also have heard the term [distributed ledger](#) technology (or DLT) – in many cases, they're referring to the same thing.

A blockchain has certain unique properties. There are rules about how data can be added, and once the data has been stored, it's virtually impossible to modify or delete it.

## What Blockchain is NOT?

Blockchain is not [Bitcoin](#), but it is the technology behind Bitcoin. Bitcoin is the digital token and blockchain is the ledger to keep track of who owns the digital tokens. You can't have Bitcoin without blockchain, but you can have blockchain without Bitcoin.



<b>Table of Contents</b>
<a href="#">What is Blockchain?</a>
<a href="#">What Blockchain is NOT!</a>
<a href="#">What is Cryptocurrency?</a>
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<a href="#">Mining</a>
<a href="#">Consensus</a>
<a href="#">Consensus mechanisms</a>
<a href="#">Summary</a>

## 6.5 Explorer API

This part for our used explorer apis who wants to check and use.

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<a href="#">Explorer APIs</a>

## Explorer APIs

### URL

<https://www.blockchain.com/api>

<https://blockstack.github.io/stacks-blockchain-api/>

<https://www.coingecko.com/en/api>

### Description

Balance and transactions of an address. Single block detail. Latest unconfirmed transactions.

The latest blocks.

Changes on price, market caps, and total volume of coin based USD and Euro. General market data.

## 6.6 Blockchain Glossary

We hope you find this tool very useful as you dive in and learn blockchain related specific words. Our team has been collecting this list for a while now and we decided to share it with you.

Home  
How BTES Works  
Course Content  
Platform Basics  
Core Blockchain  
Acknowledgements  
**Glossary**



## A

### Address (Wallet Address)

Used to send and receive transactions on a blockchain network. An address is an alphanumeric character string, which can also be represented as a scannable QR code.

### Airdrop

A token distribution method used to send cryptocurrency or tokens to wallet addresses. Sometimes airdrops are used for marketing purposes in exchange for simple tasks like reshares, referrals, or app downloads.

### Air-gapping

A method for securing computers in which the device does not connect to the internet or any other open networks.

### Altcoin

Any digital currency alternative to Bitcoin. Many altcoins are forks [see below for definition] of Bitcoin with minor changes (e.g., Litecoin).

### API (Application Programming Interface)

Application Programming Interface. A software intermediary that allows two separate applications to communicate with one another. APIs define methods of communication between various components.

### ASIC (Application Specific Integrated Circuit)

Application Specific Integrated Circuit. ASICs are silicon chips designed to do a specific task. In ASIC use for mining cryptocurrencies, the ASIC will perform a calculation to find values that provide a desired

### Table of Contents

**A**  
Address (Wallet Address)  
Airdrop  
Air-gapping  
Altcoin  
API (Application Programming Interface)  
ASIC (Application Specific Integrated Circuit)

**B**  
Bitcoin (BTC)  
Block  
Blockchain  
Block explorer  
Block Height  
Block Reward  
Bounty / Bug Bounty

**C**  
Chain linking  
Client  
Coin  
Cold Wallet / Cold Storage  
Context-sensitive  
Context-sensitive Help  
Confirmation / Block Confirmation  
Consensus  
Cryptocurrency  
Cryptography

**D**  
DAO (digital decentralized autonomous organization)

## 6.7 User Manual

User manual for users.

# BTES : BLOCKCHAIN TECHNOLOGY EDUCATIONAL SOFTWARE

Blockchain Technology For Everyone

What is Bitcoin?

Start Learning

## USER MANUAL

### INTRODUCTION

What is BTES ?

## 7. About

Here, you can find the product we made and information about us.

## 7.1 Aims of BTES

Project purpose for the users.

## 7.2 BTES Benefits and Objectives

BTES benefits, objectives and it's features.

## 7.3 Project to be Open Source and Transparency

We can answer your feedback and questions about the project on GitHub.

## 7.4 Contact Us

Co-Founders' mails and profiles.

The screenshot shows two main sections of the BTES website:

- About Us:** This section includes a brief description of their aim to create an educational web-based platform about blockchain technology, catering to everyone. It also mentions "Bilkent CTIS - Senior Project". Below this is a large, colorful illustration of three people interacting with a large computer screen displaying a bar chart and a shopping cart icon.
- Our Team:** This section is titled "We are ready to help". It features four team members in circular profile pictures, each with their name and title: Beste Kulozu (CO-FOUNDER), Sukru Kirman (CO-FOUNDER), S. Tanik Cetin (CO-FOUNDER), and Elnur Alizada (CO-FOUNDER). Each profile includes a small icon representing their role or interest.

The screenshot shows the "Contact Us" section of the BTES website:

- Contact Us:** Includes a GitHub repository link: [ctibtes/btes](#).
- Illustration:** An illustration of a person sitting at a desk with a laptop, surrounded by icons representing blockchain concepts like a bar chart, a shopping cart, and a network.
- Text:** "How can we help you? Having trouble understanding blockchain? Are you looking for an environment explain blockchain collectively?"
- Text:** "Simulation, documentation, and teaching tools all meet interactively at BTES. Providing a collaborative and interactive platform with the aim of making it simpler and easier for everyone to learn the blockchain technology."