



IOTA Technical Hands-on

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Event Organizers

 **dcenrtum** Community
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Venue Support

**Tech
Mahindra**

Agenda

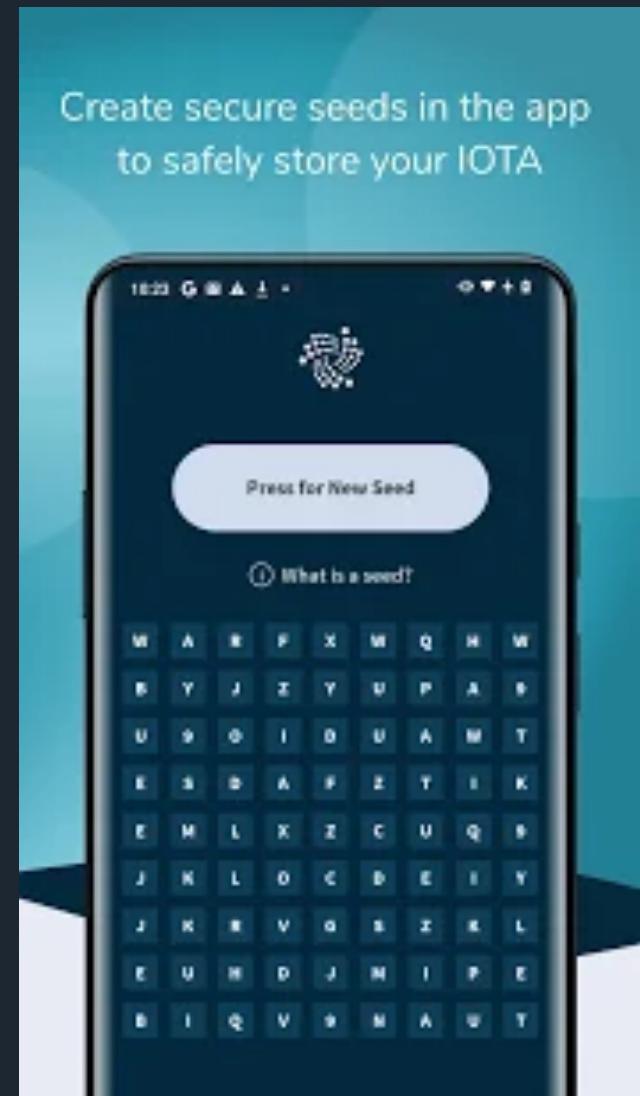
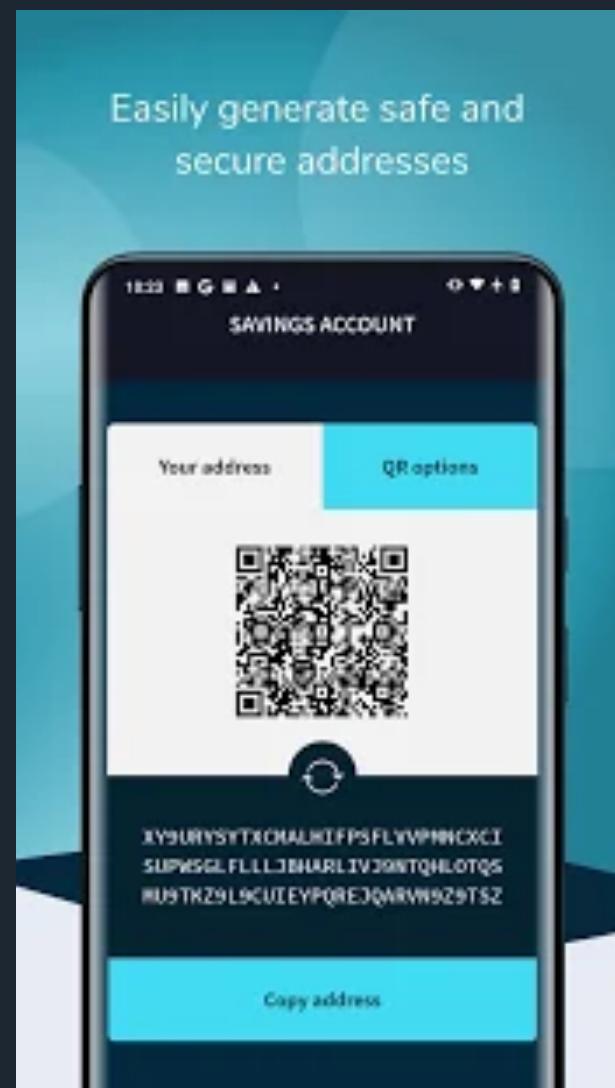
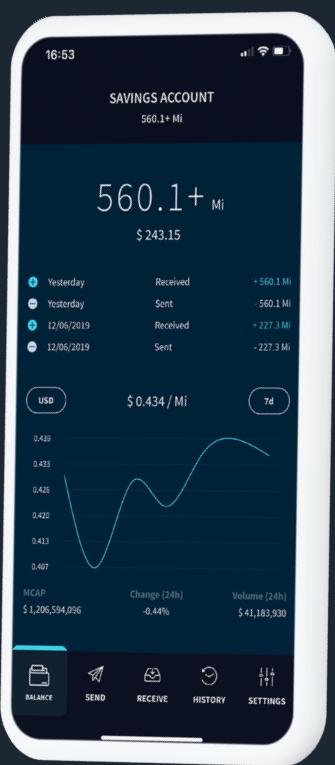


- ❑ Integrating Devices with IOTA
- ❑ Trinity Wallet
- ❑ Client Libraries
- ❑ Hands on

Getting start with IOTA – Trinity Wallet



- Download Wallet
- Setup Wallet
- Setup Seed & Secure it
- Setup provider





Setup IRI

- Download IRI
- Setup Testnet or Mainnet Provider
- Setup Static IP
- Specify Neighbour
- Send and Receive IOTA
- **Setup seed**

Linux

```
cat /dev/urandom | tr -dc A-Z9 | head -c${1:-81}
```

Mac

```
cat /dev/urandom | LC_ALL=C tr -dc 'A-Z9' | fold -w 81 | head -n 1
```

IOTA Developer - Client Libraries



<https://docs.iota.org/docs/client-libraries/0.1/introduction/overview>

- Official Libraries
 - Javascript Library (iota.js)
 - <https://docs.iota.org/docs/iota-js/0.1/README>
 - <https://github.com/iotaledger/iota.js>
 - Go Library (iota.go)
 - <https://docs.iota.org/docs/iota-go/0.1/README>
 - <https://github.com/iotaledger/iota.go>
 - Java Library (iota-java)
 - <https://docs.iota.org/docs/iota-java/0.1/README>
 - <https://github.com/iotaledger/iota-java>

IOTA Developer - Client Libraries



<https://docs.iota.org/docs/client-libraries/0.1/introduction/overview>

- Community Support Libraries
 - [Python Library \(iota.lib.py \)](#)
 - <https://github.com/iotaledger/iota.lib.py>
 - [C#.Net Library \(tangle-.net \)](#)
 - <https://github.com/iota-community/tangle-.net>

IOTA Developer – Create app – iota.js



- Prerequisites
 - NodJS v8 or later
 - NPM (comes with NodeJs) or
 - Yarn
- Create Node App
 - npm init or yarn init
 - Follow the instructions (this create package.json)
- Install Package
 - npm install @iota/core
 - or
 - yarn add @iota/core

IOTA Developer – run app – iota.js



```
//get node information
const iotaLibrary = require('@iota/core')

  const iota = iotaLibrary.composeAPI({
provider:
  'https://nodes.devnet.iota.org:443'
})

  iota
.getNodeInfo()
.then(response => console.log(response))
.catch(err => {
console.error(err)
})

//to get address balance
const iotaLibrary = require('@iota/core')
const iota = iotaLibrary.composeAPI({
provider:
  'https://nodes.devnet.iota.org:443'}
const address =
'HelloworldHelloWorldHelloWORL
DHelloWorldHelloWorldHello
WorldHelloWorldHelloWorldQD'
iota.getBalances([address], 100)
.then(({ balances }) => {
  console.log(balances)})
.catch(err => {console.error(err)
})
```



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THINKING BREAKTHROUGHS

Supporters



A black and white photograph of a person's hand holding a pen, poised as if about to write. The background features a worksheet with large, stylized, handwritten-style text. The main title at the top is 'WHY? WHAT?'. Below it are several other questions: 'which?', 'when?', 'WHERE?', 'WHO?', and 'How?'. Each of these words is surrounded by numerous smaller, faint, and slightly overlapping text boxes containing the same words in different sizes and orientations, creating a dense, textured appearance. The overall theme is inquiry or questioning.