



# Certified Blockchain Expert

Hyperledger Composer Playground Example

# How to work with Composer Playground?



- Open the Hyperledger Composer Playground
- Create a new business network
- Connect to the business network
- Add a model file
- Add a transaction processor script file
- Add an access control file for assigning permissions
- Deploy the updated business network

# Hyperledger Composer Playground





Hyperledger Composer Playground

 Get local version

My Business Networks

A

playgroundSample@basic-sa...

USER ID

admin



BUSINESS NETWORK

my-basic-sample

Connect now →

A

admin@test-network

USER ID

admin



BUSINESS NETWORK

test-network

Connect now →

A

admin@testing-network

USER ID

admin

BUSINESS NETWORK

testing-network

Connect now →



Deploy a new business network

# Creating Business Network

- Click Deploy a new business network under the Web Browser heading to get started.
- Enter the name of the business network
- Then you can enter the description of the business network
- Next we must select a business network to base ours on, because we want to build the network from scratch, click on the empty-business-network
- Click on Deploy after after selecting all the above given specifications

# Connecting the business network

- Now you would see a new business network card called **admin** for the business network named as **test-network** in your wallet.
- Click on connect now under your business network card to connect to the network
- It will open a new window which with all the model, script and permission files

# Adding a Model file



- Now you have to update the template model file which define the assets, participants, transactions, and events in the business network.
- Click the Model file to view it.
- Now modify the Model file

# Adding business logic

- Now define the transaction logic for the business network. Composer expresses the logic for a business network using JavaScript functions.
- These functions are automatically executed when a transaction is submitted for processing.
- Click the Add a file button.
- Click the Script file and click Add.
- Modify the Script file with the transaction functions

# Adding Permissions to the network

- Access control files define the access control rules for business networks.
- The basic file gives the current participant **networkAdmin** full access to business network and system-level operations.



# Deploying the business network

- Now that we have model, script, and access control files, we need to deploy and test our business network.
- Click Deploy changes to upgrade the business network.

# Testing business network

- Now you switch to Test tab for testing the deployed business network. To test the business network we will:
  - Create Participants by modifying the Trader tab and creating new participants
  - Create Assets by modifying the Assets tab and adding assets into it
  - Transfer the assets between the participants



# THANK YOU!

Any questions?  
You can mail us at  
[hello@blockchain-council.org](mailto:hello@blockchain-council.org)