

Ejercicio: Crear e implementar la aplicación de red

Familiarización con los comandos de la herramienta del Composer

1. Use el generador de yo composer para crear un proyecto network application. Proporcione un nombre a su aplicación de app2.

```
Welcome to the Hyperledger Composer project generator
? Please select the type of project: Business Network
You can run this generator using: 'yo hyperledger-composer:businessnetwork'
Welcome to the business network generator
? Business network name: app2
? Description: app2 version 0.0.1
? Author name: Jesus Cibeira
? Author email: jacibcas@gmail.com
? License: Apache-2.0
? Namespace: org
? Do you want to generate an empty template network? No: generate a populated sample network
  create package.json
  create README.md
  create models\org.cto
  create permissions.acl
  create .eslintrc.yml
  create features\sample.feature
  create features\support\index.js
```

2. Genere el archivo de almacenamiento para la aplicación de red.

- Subcarpeta: dist
- Nombre: myapp

```
Creating Business Network Archive

Looking for package.json of Business Network Definition
  Input directory: ../

Found:
  Description: app2 version 0.0.1
  Name: myapp
  Identifier: myapp@0.0.1

Written Business Network Definition Archive file to
  Output file: myapp@0.0.1.bna

Command succeeded
```

dist

myapp@0.0.1.bna

3. Implementa el archivo en Playground: pruébalo con la función de prueba.

Participant registry for org.SampleParticipant [+ Create New Participant](#)

ID	Data
PT001	<pre>{ "\$class": "org.SampleParticipant", "participantId": "PT001", "firstName": "Jesus", "lastName": "Cibeira" }</pre> ✎ 🗑

Asset registry for org.SampleAsset [+ Create New Asset](#)

ID	Data
AS001	<pre>{ "\$class": "org.SampleAsset", "assetId": "AS001", "owner": "resource:org.SampleParticipant#PT001", "value": "100" }</pre> ✎ 🗑

```
1  {
2    "$class": "org.SampleTransaction",
3    "asset": "resource:org.SampleAsset#AS001",
4    "newValue": "50",
5    "transactionId": "d6059d39-7f72-4b8f-bb78-a8ee2f515e7b",
6    "timestamp": "2018-08-23T13:20:55.685Z"
7  }
```

2018-08-23, 09:20:55	SampleTransaction	admin (NetworkAdmin)	view record
2018-08-23, 09:19:31	AddAsset	admin (NetworkAdmin)	view record
2018-08-23, 09:18:28	AddParticipant	admin (NetworkAdmin)	view record

4. Instalar e iniciar la Business Network Application.

```
✓ Installing business network. This may take a minute...
Successfully installed business network myapp, version 0.0.1

Command succeeded
```

```
Starting business network myapp at version 0.0.1

Processing these Network Admins:
  userName: admin

✓ Starting business network definition. This may take a minute...
Successfully created business network card:
  Filename: admin@myapp.card

Command succeeded
```

5. Importe la tarjeta NetworkAdmin a su sistema de archivos local utilizando la herramienta CLI del Composer.

```
Successfully imported business network card
  Card file: .\admin@myapp.card
  Card name: admin@myapp

Command succeeded
```

6. Use el comando ping para verificar si la aplicación está disponible.

```
The connection to the network was successfully tested: myapp
Business network version: 0.0.1
Composer runtime version: 0.19.14
participant: org.hyperledger.composer.system.NetworkAdmin#admin
identity: org.hyperledger.composer.system.Identity#558f4d773137b0aa1c8466a01be41084dd6757e9698dcb922c8baf5543c3b526

Command succeeded
```

7. Ejecute el comando para obtener información sobre los activos y registros.

```
✓ List business network from card admin@myapp
models:
  - org.hyperledger.composer.system
  - org
scripts:
  - lib/logic.js
registries:
  org.SampleAsset:
    id:          org.SampleAsset
    name:        Asset registry for org.SampleAsset
    registryType: Asset
  org.SampleParticipant:
    id:          org.SampleParticipant
    name:        Participant registry for org.SampleParticipant
    registryType: Participant

Command succeeded
```