

Ejercicio: Practicar el inicio, detener, suspender, reiniciar

Familiarícese con los distintos scripts que utilizará a lo largo de este curso. Asegúrese de que su entorno de desarrollo esté listo para actividades de desarrollo.

1. Inicie su entorno de desarrollo

```
$. ./startFabric.sh
Development only script for Hyperledger Fabric control
Running 'startFabric.sh'
FABRIC_VERSION is unset, assuming hlfv1.1
FABRIC_START_TIMEOUT is unset, assuming 15 (seconds)
C:\Users\Jesus\HLF-Windows-Fabric-Tool\fabric-scripts\hlfv1.1\composer\docker-compose.yml
Stopping peer0.org1.example.com ... done
Stopping couchdb ... done
Stopping orderer.example.com ... done
Stopping ca.org1.example.com ... done
Removing peer0.org1.example.com ... done
Removing couchdb ... done
Removing orderer.example.com ... done
Removing ca.org1.example.com ... done
Removing network composer_default
Creating network "composer_default" with the default driver
Creating ca.org1.example.com ... done
Creating couchdb ... done
Creating orderer.example.com ... done
Creating peer0.org1.example.com ... done
sleeping for 15 seconds to wait for fabric to complete start up
2018-08-23 12:32:00.983 UTC [msp] GetLocalMSP -> DEBU 001 Returning existing local MSP
2018-08-23 12:32:00.984 UTC [msp] GetDefaultSigningIdentity -> DEBU 002 Obtaining default signing identity
2018-08-23 12:32:00.992 UTC [channelCmd] InitCmdFactory -> INFO 003 Endorser and orderer connections initialized
2018-08-23 12:32:00.996 UTC [msp] GetLocalMSP -> DEBU 004 Returning existing local MSP
2018-08-23 12:32:00.997 UTC [msp] GetDefaultSigningIdentity -> DEBU 005 Obtaining default signing identity
2018-08-23 12:32:00.999 UTC [msp] GetLocalMSP -> DEBU 006 Returning existing local MSP
2018-08-23 12:32:01.001 UTC [msp] GetDefaultSigningIdentity -> DEBU 007 Obtaining default signing identity
2018-08-23 12:32:01.001 UTC [msp/identity] Sign -> DEBU 008 Sign: plaintext: 0AA2060A074F7267314D53501296062D...60706F736572436F6E736F7274697560
2018-08-23 12:32:01.002 UTC [msp/identity] Sign -> DEBU 009 Sign: digest: 2E9C4E9A85A4E4BA7F58E5D5CF6DC302BE7AB06DEEC90C53555353BF17748827
2018-08-23 12:32:01.004 UTC [msp] GetLocalMSP -> DEBU 00a Returning existing local MSP
2018-08-23 12:32:01.005 UTC [msp] GetDefaultSigningIdentity -> DEBU 00b Obtaining default signing identity
2018-08-23 12:32:01.007 UTC [msp] GetLocalMSP -> DEBU 00c Returning existing local MSP
2018-08-23 12:32:01.008 UTC [msp] GetDefaultSigningIdentity -> DEBU 00d Obtaining default signing identity
2018-08-23 12:32:01.009 UTC [msp/identity] Sign -> DEBU 00e Sign: plaintext: 0ADF060A1B08021A0608C1D2FADB0522...D146A6F91D545878003B8D9C57DCB516
2018-08-23 12:32:01.009 UTC [msp/identity] Sign -> DEBU 00f Sign: digest: 07F6766FE40652A96C3CBFF728E322E4519F31833829FD3040D546DB84835CA4
2018-08-23 12:32:01.266 UTC [msp] GetLocalMSP -> DEBU 010 Returning existing local MSP
2018-08-23 12:32:01.267 UTC [msp] GetDefaultSigningIdentity -> DEBU 011 Obtaining default signing identity
2018-08-23 12:32:01.272 UTC [msp] GetLocalMSP -> DEBU 012 Returning existing local MSP
2018-08-23 12:32:01.276 UTC [msp] GetDefaultSigningIdentity -> DEBU 013 Obtaining default signing identity
2018-08-23 12:32:01.277 UTC [msp/identity] Sign -> DEBU 014 Sign: plaintext: 0ADF060A1B08021A0608C1D2FADB0522...AF6D939AF79012080A021A0012021A00
2018-08-23 12:32:01.278 UTC [msp/identity] Sign -> DEBU 015 Sign: digest: F3130A9BC01ADA579EBAA2843FBF09FD4D61663112FE8EE97A9246B34AD6B7D9
2018-08-23 12:32:01.355 UTC [channelCmd] readBlock -> DEBU 016 Got status: &{NOT_FOUND}
2018-08-23 12:32:01.357 UTC [msp] GetLocalMSP -> DEBU 017 Returning existing local MSP
2018-08-23 12:32:01.358 UTC [msp] GetDefaultSigningIdentity -> DEBU 018 Obtaining default signing identity
2018-08-23 12:32:01.366 UTC [channelCmd] InitCmdFactory -> INFO 019 Endorser and orderer connections initialized
2018-08-23 12:32:01.570 UTC [msp] GetLocalMSP -> DEBU 01a Returning existing local MSP
2018-08-23 12:32:01.571 UTC [msp] GetDefaultSigningIdentity -> DEBU 01b Obtaining default signing identity
2018-08-23 12:32:01.573 UTC [msp] GetLocalMSP -> DEBU 01c Returning existing local MSP
```

2. Use el comando Docker para verificar si los 4 contenedores para el entorno de Fabric están activos (Sugerencia: ps)

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
0711989384de	hyperledger/fabric-peer:x86_64-1.1.0	"peer node start"	About a minute ago	Up About a minute	0.0.0.0:7051->7051/tcp, 0.0.0.0:7053->7053/tcp	peer0.org1.example.com
7a33f9e1c1e7	hyperledger/fabric-orderer:x86_64-1.1.0	"orderer"	About a minute ago	Up About a minute	0.0.0.0:7050->7050/tcp	orderer.example.com
b360d6db71e1	hyperledger/fabric-ca:x86_64-1.1.0	"sh -c 'fabric-ca-se..."	About a minute ago	Up About a minute	0.0.0.0:7054->7054/tcp	ca.org1.example.com
2a8c32f6a433	hyperledger/fabric-couchdb:x86_64-0.4.6	"tini -- /docker-ent..."	About a minute ago	Up About a minute	4369/tcp, 9100/tcp, 0.0.0.0:5984->5984/tcp	couchdb

3. Ahora suspenda el entorno, es decir, use fabricUtil

```
$. ./fabricUtil.sh stop
Development only script for Hyperledger Fabric control
The ARCH variable is not set. Defaulting to a blank string.
Stopping peer0.org1.example.com ... done
Stopping orderer.example.com ... done
Stopping ca.org1.example.com ... done
Stopping couchdb ... done

Fabric DEV environment stopped - DO NOT Clean the containers :)
```

4. Ejecuta el comando docker ps. No deberías ver los contenedores.

\$ docker ps	CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
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5. Ejecute el comando del docker (docker ps -a). Debería ver los contenedores suspendidos.

\$ docker ps -a	CONTAINER ID	IMAGE	PORTS	NAMES	COMMAND	CREATED	STATUS
0711989384de	minutes ago	hyperledger/fabric-peer:x86_64-1.1.0		peer0.org1.example.com	"peer node start"	7 minutes ago	Exited (0) 4
7a33fe1ec1e7	minutes ago	hyperledger/fabric-orderer:x86_64-1.1.0		orderer.example.com	"orderer"	7 minutes ago	Exited (2) 4
b360d6db71e1	4 minutes ago	hyperledger/fabric-ca:x86_64-1.1.0		ca.org1.example.com	"sh -c 'fabric-ca-se.."	7 minutes ago	Exited (137)
2a8c32f6a433	4 minutes ago	hyperledger/fabric-couchdb:x86_64-0.4.6		couchdb	"tini -- /docker-ent.."	7 minutes ago	Exited (143)
fa90f1414a27	38 hours ago	dev-peer0.org1.example.com-airlinev8-bna-0.0.1-fad73ec725109c51313b98838260c4f673bce3bf50cc6a67446abfb8af12eabf		dev-peer0.org1.example.com-airlinev8-bna-0.0.1	"/bin/sh -c 'cd /usr.."	38 hours ago	Exited (0) 36
984738a56d1f	hours ago	hyperledger/fabric-ccenv:x86_64-1.1.0		keen_kalan	"/bin/sh -c 'cp -R /.."	2 days ago	Exited (0) 38

6. Ahora reinicie el entorno, es decir, use fabricUtil. Usando docker, compruebe si los contenedores están arriba.

```
$. /fabricUtil.sh start
Development only script for Hyperledger Fabric control
Starting all containers
0711989384de
7a33fe1ec1e7
b360d6db71e1
2a8c32f6a433
Error response from daemon: network 06553c94ea622e487b87cfed5ba42aba59bf9d8331b1b6ca9ce2b282149efcb3 not found
984738a56d1f
Error: failed to start containers: fa90f1414a27

BNA container may still show up as dangling/exited - First command will start BNA
Fabric DEV environment started !!!
```

\$ docker ps	CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
0711989384de	hyperledger/fabric-peer:x86_64-1.1.0	peer0.org1.example.com	"peer node start"	19 minutes ago	Up 10 minutes	0.0.0.0:7051->7051/tcp, 0.0.0.0:7053->7053/tcp	peer0.org1.examp
7a33fe1ec1e7	hyperledger/fabric-orderer:x86_64-1.1.0	orderer.example.com	"orderer"	19 minutes ago	Up 10 minutes	0.0.0.0:7050->7050/tcp	orderer.example.
b360d6db71e1	hyperledger/fabric-ca:x86_64-1.1.0	ca.org1.example.com	"sh -c 'fabric-ca-se.."	19 minutes ago	Up 10 minutes	0.0.0.0:7054->7054/tcp	ca.org1.example.
2a8c32f6a433	hyperledger/fabric-couchdb:x86_64-0.4.6	couchdb	"tini -- /docker-ent.."	19 minutes ago	Up 10 minutes	4369/tcp, 9100/tcp, 0.0.0.0:5984->5984/tcp	couchdb

7. Use stopFabric y luego verifique el estado de los contenedores usando el comando docker ps & ps -a. ¿Ves los contenedores suspendidos?

```
$. /stopFabric.sh
Development only script for Hyperledger Fabric control
Running 'stopFabric.sh'
FABRIC_VERSION is unset, assuming hlfrv11
FABRIC_START_TIMEOUT is unset, assuming 15 (seconds)
Stopping peer0.org1.example.com ... done
Stopping orderer.example.com ... done
Stopping ca.org1.example.com ... done
Stopping couchdb ... done
```

\$ docker ps	CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
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\$ docker ps -a	CONTAINER ID	IMAGE	PORTS	NAMES	COMMAND	CREATED	STATUS
0711989384de	hyperledger/fabric-peer:x86_64-1.1.0	peer0.org1.example.com		"peer node start"	21 minutes ago	Exited (0) Ab	
out a minute ago	hyperledger/fabric-orderer:x86_64-1.1.0	orderer.example.com		"orderer"	21 minutes ago	Exited (2) Ab	
7a33fe1ec1e7	hyperledger/fabric-ca:x86_64-1.1.0	ca.org1.example.com		"sh -c 'fabric-ca-se.."	21 minutes ago	Exited (137)	
b360d6db71e1	hyperledger/fabric-couchdb:x86_64-0.4.6	couchdb		"tini -- /docker-ent.."	21 minutes ago	Exited (143)	
About a minute ago	dev-peer0.org1.example.com-airlinev8-bna-0.0.1-fad73ec725109c51313b98838260c4f673bce3bf50cc6a67446abfb8af12eabf	dev-peer0.org1.example.com-airlinev8-bna-0.0.1		"/bin/sh -c 'cd /usr.."	38 hours ago	Exited (128)	
2a8c32f6a433	hyperledger/fabric-ccenv:x86_64-1.1.0	keen_kalan		"/bin/sh -c 'cp -R /.."	2 days ago	Exited (0) 12	
About a minute ago							
fa90f1414a27							
37 hours ago							
984738a56d1f							
g1j1y8s3.899							