

Blueventure:
Blockchain LabTrack-and-Trace Blockchain
Workshop for Hyperledger
Fabric 2.2 (BETA)▼ Create a Hyperledger Fabric
Network

► Create Network & Member

► Accept invite and create
Supplier member

Congratulations

► Setup Development
Environment

▼ Set up a Fabric client

Network configuration

Update Cloud9

Networking

Create VPC endpoint

▼ Configure client instance

▼ AWS account access

[Open AWS console](#)

(us-east-1)

[Get AWS CLI credentials](#)

Exit event

[Event dashboard](#) > [Set up a Fabric client](#) > [Configure client instance](#) > **Configure environment**

Configure environment

Now you'll go through the process of updating your environment.

All members should execute the following steps.

The following commands add environment settings to your bash profile so that each time you open your Cloud9 terminal, it will automatically be configured. Paste the following bash code into your Cloud9 terminal.

```

1  cd
2  add_line_to_profile_if_not_there() { grep -qxF "$1" .bash_profile || echo "$1" >> .bash_profile; }
3  export line="export GOPATH=\"$HOME/go\""
4  add_line_to_profile_if_not_there "$line"
5  export line="export GOROOT=/usr/local/go"
6  add_line_to_profile_if_not_there "$line"
7  export line="export PATH=\"$GOROOT/bin:$PATH\""
8  add_line_to_profile_if_not_there "$line"
9  export line="export PATH=\"$PATH:$HOME/go/src/github.com/hyperledger/fabric-ca/bin\""
10 add_line_to_profile_if_not_there "$line"
11 export line="export MEMBER_NAME='$MEMBER_NAME'"
12 add_line_to_profile_if_not_there "$line"
13 export line="export MEMBER_ABBREVIATION=$(case $MEMBER_NAME in Retailer) echo 'rt'; Supplier) echo 'sp';; esac)"
14 add_line_to_profile_if_not_there "$line"
15 export line="export MEMBER_ADMIN=$(case $MEMBER_NAME in Retailer) echo 'rtadmin'; Supplier) echo 'spadmin';; esac)"
16 add_line_to_profile_if_not_there "$line"
17 export line="export WORKER1_NAME=$(case $MEMBER_NAME in Retailer) echo 'rtworker'; Supplier) echo 'spworker';; esac)"
18 add_line_to_profile_if_not_there "$line"
19 export line="export WORKER1_PERMISSIONS=$(case $MEMBER_NAME in Retailer) echo 'receive_label'; Supplier) echo 'manufacture_ship';; e"
20 add_line_to_profile_if_not_there "$line"
21 export line="export WORKER2_NAME=$(case $MEMBER_NAME in Retailer) echo 'rtseller'; Supplier) echo 'spinspector';; esac)"
22 add_line_to_profile_if_not_there "$line"
23 export line="export WORKER2_PERMISSIONS=$(case $MEMBER_NAME in Retailer) echo 'sell'; Supplier) echo 'inspect';; esac)"
24 add_line_to_profile_if_not_there "$line"
25 export line="export AWS_DEFAULT_REGION=$(curl -s http://169.254.169.254/latest/dynamic/instance-identity/document | jq -c -r .region)"
26 add_line_to_profile_if_not_there "$line"
27 export line="export NETWORKID=$(aws managedblockchain list-networks | jq -r '.Networks[] | select(.Name == \"SupplyChain\").Id')"
28 add_line_to_profile_if_not_there "$line"
29 export line="export ORDERER=$(aws managedblockchain get-network --network-id $NETWORKID | jq -r .Network.FrameworkAttributes.Fabric.O"
30 add_line_to_profile_if_not_there "$line"
31 export line="export ORDERERNOPT=$(echo $ORDERER | cut -f1 -d':')"
32 add_line_to_profile_if_not_there "$line"
33 export line="export MEMBERID=$(aws managedblockchain list-members --network-id $NETWORKID | jq -r '.Members[] | select(.Name == \\\\"
34 add_line_to_profile_if_not_there "$line"
35 export line="export BUCKET_NAME=$(echo $NETWORKID | tr '[:upper:]' '[:lower:]')-certs"
36 add_line_to_profile_if_not_there "$line"
37 export line="export MEMBER_AWS_ID=$(aws sts get-caller-identity --query Account --output text)"

```

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```

38 add_line_to_profile_if_not_there "$line"
39 export line="export RETAILER_AWS_ID=$RETAILER_AWS_ID"
40 add_line_to_profile_if_not_there "$line"
41 export line="export SUPPLIER_AWS_ID=$SUPPLIER_AWS_ID"
42 add_line_to_profile_if_not_there "$line"
43 export line="export RETAILERID=$(aws managedblockchain list-members --network-id \${NETWORKID} | jq -r \".Members[]\" | select(.Name == \\
44 add_line_to_profile_if_not_there \"$line\"
45 export line="export SUPPLIERID=$(aws managedblockchain list-members --network-id \${NETWORKID} | jq -r \".Members[]\" | select(.Name == \\
46 add_line_to_profile_if_not_there \"$line\"
47 export line="export CASERVICEENDPOINT=$(aws managedblockchain get-member --network-id \${NETWORKID} --member-id \${MEMBERID} | jq -r .Memb
48 add_line_to_profile_if_not_there \"$line\"
49 export line="export PEER1ID=$(aws managedblockchain list-nodes --network-id \${NETWORKID} --member-id \${MEMBERID} | jq -r \".Nodes[]\" | s
50 add_line_to_profile_if_not_there \"$line\"
51 export line="export PEER2ID=$(aws managedblockchain list-nodes --network-id \${NETWORKID} --member-id \${MEMBERID} | jq -r \".Nodes[]\" | s
52 add_line_to_profile_if_not_there \"$line\"
53 export line="export PEER1ENDPOINT=$(aws managedblockchain get-node --network-id \${NETWORKID} --member-id \${MEMBERID} --node-id \${PEER1ID
54 add_line_to_profile_if_not_there \"$line\"
55 export line="export PEER1ENDPOINTNOPORT=$(echo \${PEER1ENDPOINT} | cut -f1 -d':')\"
56 add_line_to_profile_if_not_there \"$line\"
57 export line="export PEER1EVENTENDPOINT=$(aws managedblockchain get-node --region \${AWS_DEFAULT_REGION} --network-id \${NETWORKID} --membe
58 add_line_to_profile_if_not_there \"$line\"
59 export line="export PEER2ENDPOINT=$(aws managedblockchain get-node --network-id \${NETWORKID} --member-id \${MEMBERID} --node-id \${PEER2ID
60 add_line_to_profile_if_not_there \"$line\"
61 export line="export PEER2ENDPOINTNOPORT=$(echo \${PEER2ENDPOINT} | cut -f1 -d':')\"
62 add_line_to_profile_if_not_there \"$line\"
63 export line="export PEER2EVENTENDPOINT=$(aws managedblockchain get-node --region \${AWS_DEFAULT_REGION} --network-id \${NETWORKID} --membe
64 add_line_to_profile_if_not_there \"$line\"
65 export line="export TEST_CHANNEL_NAME=$(echo \${MEMBER_NAME} | tr '[:upper:]' '[:lower:]')channel\"
66 add_line_to_profile_if_not_there \"$line\"

```

Now apply those changes by sourcing .bash_profile:

```
1 source ~/.bash_profile
```



Previous

Next