

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

► Create Network &amp; Member

▼ Accept invite and create  
Supplier memberCreate CloudFormation  
TemplateDeploy the  
CloudFormation Stack**Using the AWS Mgmt.  
Console**

Congratulations

► Setup Development  
Environment

## ► Setup a Fabric client

## ▼ AWS account access

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\(us-east-1\)](#)[Get AWS CLI credentials](#)

Exit event

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## Using the AWS Mgmt. Console

**OPTIONAL: This is an alternative to using CloudFormation in the previous step!**

In addition to using Infrastructure as Code (IaaS) tools like AWS CloudFormation to automate the deployment of the Supplier member, you could use the Amazon Management Console to complete the same task. For your reference, here are the steps to do so:

On the Supplier AWS account, navigate to the Amazon Managed Blockchain service. To view any active invitations to blockchain network(s) one's account has received, open the menu sidebar by selecting the ☰ menu button on the left-hand side of your screen, then selecting **Invitations**. If the invitation in the previous step was successful, you will see an invitation for the *SupplyChain* blockchain network in the Supplier account's queue.

The screenshot shows the Amazon Managed Blockchain console. On the left, the 'Amazon Managed Blockchain' sidebar is open, with 'Invitations' selected under the 'Networks' section. The main panel displays 'Managed Blockchain > Invitations'. At the top, there are buttons for 'View details', 'Reject invitation', and 'Accept invitation'. Below these is a search bar labeled 'Search networks'. A table lists the invitations:

	Network name	Invitation ID	Network ID	Description
<input type="radio"/>	SupplyChain	in-5D5OIHJ3K5FXPMGG8PD4N6HBJI	n-64KEZKDT4BAT3BF626AXJ4ZIS4	-

⚠ If you do not see an invitation here, you either forgot to vote "YES" on the proposal on the Retailer account or used the incorrect AWS Account ID to invite the Supplier. Check the proposal on the Retailer account.

To accept the invitation, select the radio button next to the *SupplyChain* invitation and select **Accept Invitation**.

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**Amazon Managed  
Blockchain**

Networks

**Invitations**

Managed Blockchain > Invitations

Invitations (1) Info

View details

Reject invitation

**Accept invitation**

Search networks

Network name	Invitation ID	Network ID	Description
SupplyChain	in-5D50IHJ3K5FXPMGG8PD4N6HBJI	n-64KEZKDT4BAT3BF626AXJ4ZIS4	-

After accepting the invitation, you will be presented with the member creation wizard where you will create the Supplier member. You'll use the same naming conventions as we did on the Retailer account, in this case naming the member *Supplier*. You'll also need to specify a username and password for the Supplier member administrator. We'll use `spadmin` and `Admin123` as the username and password combination.

Again, please be aware that in a production environment you should choose a more secure password than this.

## Blueventure: Blockchain Lab

Track-and-Trace Blockchain Workshop for Hyperledger Fabric 2.2 (BETA)

### ▼ Create a Hyperledger Fabric Network

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## Member configuration

Members are distinct identities within the network, and each network must have at least one. After you create the member, you can add peer nodes that belong to the member.

### Member name

Enter the name that identifies this member on the network. Each member's name is visible to all members and must be unique within the network.

Supplier

The member name can be up to 64 characters long, and can have alphanumeric characters and hyphen(s). It cannot start with a number, or start and end with a hyphen (-), or have two consecutive hyphens. The member name must also be unique across the network.

### Description (optional)

*Enter a description for the member*

The description can be up to 128 characters long.

## Hyperledger Fabric certificate authority (CA) configuration [Info](#)

### Admin username

Specify an alphanumeric string that defines the login ID for the Fabric CA admin user.

spadmin

The admin username can be up to 16 characters long. It must start with a letter, and can have alphanumeric characters.

### Admin password

Specify an alphanumeric string that defines the password for the Fabric CA admin user

••••••••

☐ Show password

The admin password must be at least 8 characters long, and must contain at least one uppercase letter, one lowercase letter and one digit. It cannot have a single quote('), double quote("), forward slash(/), backward slash(\), @ or a space. The admin password can be up to 32 characters long.

After verifying the member info, select **Create member and join network**. After proceeding, you will need to wait roughly 20-30 minutes for the network and first member to be deployed. You can observe the status of the deployment in your management console.

Once your member is in status *Available* the Amazon Managed Blockchain service in the AWS Management Console, select your network, then select the Retailer member. Select **Create peer node**. Check the box next to **Enable chaincode logs** and leave the other options as-is.

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Exit event

Select **Create peer node**. You will be returned to the Retailer detail view, and you will see that the peer node status is shown as *Creating*.

## Create peer node [Info](#)

### Peer node configuration

Blockchain instance type [Info](#)

bc.t3.small - 2 vCPU, 2 GiB RAM ▼

State DB configuration

LevelDB ▼

Availability Zone

us-east-1a ▼

### Logging configuration

☐ Enable peer node logs

Logs are stored using Amazon CloudWatch Logs in a group named "managedblockchain/[network id]/[member id]" with a stream name of "[node id]".

☒ Enable chaincode logs

Logs are stored using Amazon CloudWatch Logs in a group named "managedblockchain/[network id]/[member id]" with a stream name of "[member id]-[node id]-[chaincode id]-[chaincode version]".

Cancel

**Create peer node**

Repeat this step to add a second peer, selecting a different Availability Zone than the first peer. This second peer will serve as a fallback if the first peer becomes unavailable. In the interest of time, you can leave the peer nodes in the "Creating" state and proceed to the next step.

 In this workshop, we opt to use CloudFormation to eliminate the manual steps involved in using the Amazon Management Console.

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