10/19/23, 8:39 AM Blueventure: Blockchain Lab

Blueventure: **Blockchain Lab**

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

X

- ▼ Create a Hyperledger Fabric Network
 - Create Network & Member
 - Accept invite and create Supplier member

Create CloudFormation Template

Deploy the CloudFormation Stack

Using the AWS Mgmt. Console

Congratulations

- ▶ Setup Development Environment
- Cakina Falada Hank AWS account access

Open AWS console (us-east-1) 🗇

Get AWS CLI credentials

Exit event

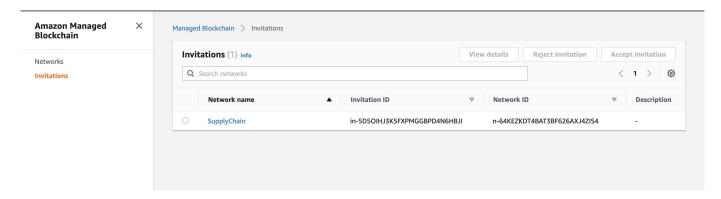
Event dashboard > Create a Hyperledger Fabric Network > Accept invite and create Supplier member > Using the AWS Mgmt. Console

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.

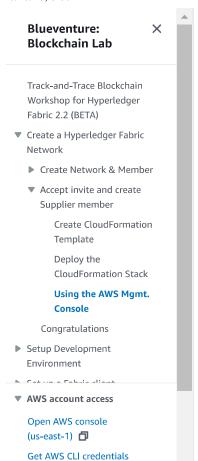


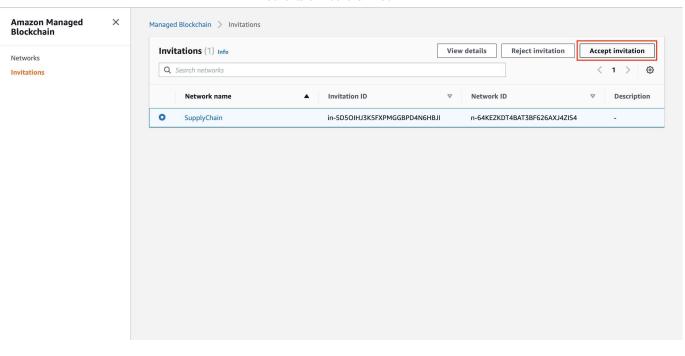
A If you do not see an invitation here, you either forgot to vote "YES" on the proposal on the Retailer account or used the incorrect AWS Account ID to invite the Supplier. Check the proposal on the Retailer account.

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

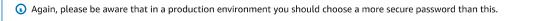


Exit event





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.





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Track-and-Trace Blockchain Workshop for Hyperledger X

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 Network

Fabric 2.2 (BETA)

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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.



Setup Development Environment

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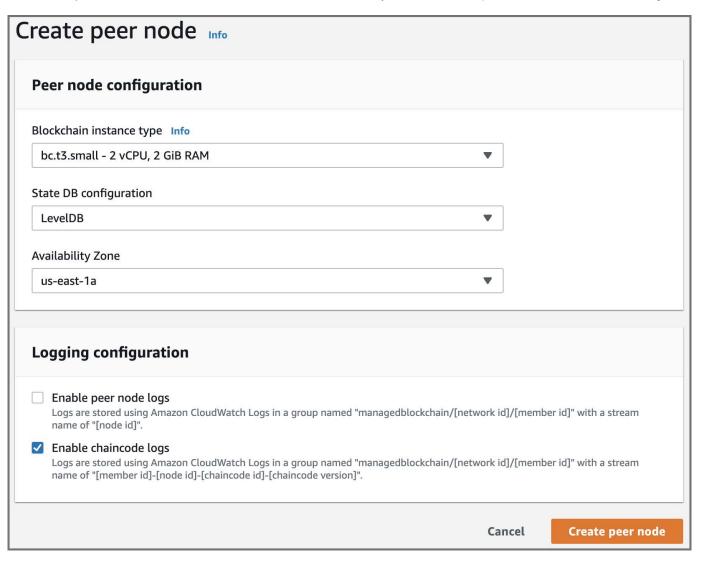
Open AWS console

Get AWS CLI credentials

(us-east-1) 🗇

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.



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.

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

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