

**Blueventure:
Blockchain Lab**

Event ends in 1 hour 46 minutes.

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

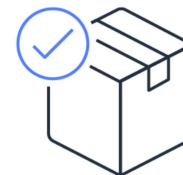
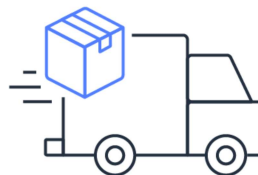
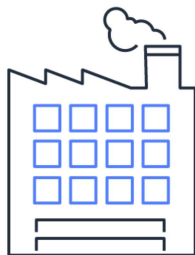
- ▶ Create a Hyperledger Fabric Network
- ▶ Setup Development Environment
- ▶ Set up a Fabric client
- ▶ Write and deploy chaincode
- ▶ Invoking chaincode via API
- ▶ Building a frontend
- Clean up resources in your environment

▼ **AWS account access**
[Open AWS console \(us-east-1\)](#)

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

This workshop will teach you how to build a decentralized application (dapp) for tracking products through a supply chain using Hyperledger Fabric 2.2 on Amazon Managed Blockchain (AMB). After completing this Immersion Day workshop, you will be familiar with Amazon Managed Blockchain (AMB) and how to build client applications atop Hyperledger Fabric networks managed on AMB. At any point during the workshop, you can refer to the [clean up steps](#) to remove any unused or unwanted AWS resources created during the workshop steps.

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What you will need for the workshop

If you are attending a live-led session with an AWS Blockchain Specialist, make sure to provide a list and count of attendees who will be attending the session in order to prepare your temporary AWS accounts ahead of the workshop *no later than 48 hours* ahead of your scheduled date/time.


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In addition, for the best possible experience in performing the steps of the workshop, we recommend having the following:

1. A personal computer (*if your work computer has restrictions / firewalls that may interfere with web-based services)
2. An external monitor
3. The Google Chrome browser During the workshop, you will be working through this guide in two separate browser windows for the AWS Management Console. The ability to have this workshop guide open on your laptop and both browser windows open on an external monitor makes it much easier to follow along with the workshop.

Furthermore, because you will be building a 2-member Hyperledger Fabric blockchain network with two separate AWS accounts, we will need to have two separate browser instances to work with. This is where Google Chrome comes in handy, as it supports the [Profiles](#)  feature. By creating two separate browser profiles with separate local storage, we can have two active AWS account management consoles logged-in side by side!

Watch your AWS region carefully


Make sure you are in a region that supports Amazon Managed Blockchain and that you remain in the same region for the duration of the workshop. Resources created in a different region will not be able to access your blockchain network. Currently supported regions for Amazon Managed Blockchain are:

- N. Virginia (us-east-1)
- Ireland (eu-west-1)
- London (eu-west-2)
- Tokyo (ap-northeast-1)
- Seoul (ap-northeast-2)
- Singapore (ap-southeast-1)

If you inadvertently create resources in the wrong region, delete them and try again in the right region. This workshop contains examples that use the `us-east-1` region. If you are using any of the above regions other than `us-east-1`, simply change the region where applicable such that all resources are created in the same region.

Details

Expected Duration: 4 hours

Cost: If you are using the AWS Workshop Studio platform, the accounts are ephemeral and therefore will not incur any costs for users completing this workshop. However, to follow this workshop on your personal AWS account(s), please refer to the [AWS Price Calculator](#)  to estimate the overall costs associated with the services deployed in the workshop.

Target Audience: This 400-level workshop is intended for solutions architects, developers, and other technical roles who wish to learn how to utilize Amazon Managed Blockchain and other AWS services to build a blockchain application atop Hyperledger Fabric in a hands-on capacity.

Pre-Requisites: Those participating in this workshop should have a fundamental knowledge of blockchain, smart contracts, and decentralized technologies. Furthermore, while core Hyperledger Fabric concepts are discussed as part of this workshop, prior knowledge of Hyperledger Fabric is recommended.

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Workshop Studio Instructions

If you are using Workshop Studio to acquire ephemeral AWS accounts to perform this workshop, you will need to perform the following steps:

Note: because this workshop implements a two-member blockchain network, you will need TWO AWS accounts.

1. Open Google Chrome, and using the Profiles feature, open two separate windows with two separate browser profiles.
2. On both windows, navigate to <https://catalog.us-east-1.prod.workshops.aws/join> and enter the Event access code provided by your AWS point of contact.
3. When prompted to login, select the option for "Email One Time Password" on both windows.
4. In the email textbox for each browser window, use two *different* emails to retrieve two different AWS accounts. The AWS account you are given is mapped to your email address, so you **MUST** use two separate emails on each browser profile to get two separate accounts.
5. Enter the one time code you have received in your emails, and login. This will take you to the event's dashboard page.
6. To open the AWS Console, select the "Open AWS console" button on the modal window under "AWS account access" on the dashboard page.

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