GETTING STARTED WITH BLOCKCHAIN ON AWS
Why **Learn Blockchain With Us?**

- **Trusted**
- **Strategic**
- **Practical**
AWS Blockchain as a service is the assortment of offerings supporting enterprise blockchain initiatives offered by Amazon Web Services. It’s an array of fully managed blockchain services for organizations.

The demand for managed blockchain solutions is at an all-time high, and AWS is one of the top blockchain as a service providers at the moment.
Why Use AWS Blockchain as a Service?

- Specifically built to support your distinct needs
- Trusted by enterprise customers
- Simpler, efficient, and faster blockchain development
- 70+ Blockchain solutions supporting major blockchain platforms
Blockchain Services On AWS

Primary Blockchain Services
- Amazon Quantum Ledger Database (QLDB)
- Amazon Managed Blockchain

Other Blockchain Services
- Corda Blockchain on AWS
- AWS Blockchain Templates
Amazon Quantum Ledger Database (QLDB)
Overview

- Fully managed ledger system with transparency, immutability, and cryptographically verified transactions.
- Tracks all application data to maintain a verifiable and complete history.
- Eliminates the need for complex development efforts for ledger-type applications.
Features

- Append-Only ledger
- Cryptographically verifiable
- Server-less approach
- Easy setup
- Access to operational metrics
- Support for PartiQL
- ACID semantics and transactional consistency
- Easy access to historical changes
- Change history digest for data integrity
- Easy to scale
- Real-time monitoring
- User-friendly
- Document-oriented data model
- Real-time streaming capability
Use Cases

- Finance
- Manufacturing
- Insurance
- Payroll and HR
- Supply Chain and Retail
Amazon Managed Blockchain
Overview

- Allows to join public networks or develop scalable and managed private networks faster.
- Eliminates the overhead and scales automatically to meet up with millions of transaction needs.
- Easy to maintain and manage the full blockchain network.
### Features

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Use Cases

- Asset Transfer
- Trade Finance
- Insurance
- Retail
- Supply Chain
Consists of members where each member is equipped with peer nodes and local storage.

Members of the network are allowed to write data.

The service charges for network membership, data written, peer node storage, data transfer and peer nodes.
Ethereum Managed Services

- Allows to create new nodes and connect them to the public Ethereum network.
- The peers within the network are connected in a decentralized way.
- The service charges for the number of Ethereum requests, peer node storage, and peer nodes.
Amazon QLDB is a cryptographically secured and verifiable ledger database, and it’s a centralized platform. It’s fully purpose-built for enterprise customers.

Amazon Managed Blockchain is a complete decentralized and manages service that offers parties to share and transact data directly without any central authority.
Amazon Quick Start Service: Corda Blockchain
Need to have an AWS account.

Offers two quick-start options – deployment into existing VPC and new VPC.

Depending on the users’ settings, the costing may vary based on the instance type. However, it doesn’t take any additional costing for using the service.

Includes a 60-day trial, which includes limited Corda features.
AWS Blockchain Templates
Overview

AWS Blockchain templates are a simple and faster way to develop and deploy open-source enterprise frameworks.

These templates help developers focus on blockchain application development rather than on the manual blockchain network setup.

Blockchain frameworks are deployed within containers such as Amazon Elastic Container Service (ECS) or on EC2 using Docker.

It does not charge any additional money for the templates; the users only need to pay for the resources they need.
Benefits

- Fast deployment (within minutes)
- Choice of frameworks (Hyperledger Fabric and Ethereum)
- Management tools for monitoring and browsing
- Pay only for the resources needed
The Ethereum network can be launched on the Amazon EC2 instance or Amazon ECS cluster. Deploys additional components per requirement.

The Hyperledger Fabric network is private and can be launched on the Amazon EC2 instance. Deploys additional components per requirement.
Suitable Blockchain Courses

Getting Started with AWS Blockchain as a Service

Beginner’s Guide to Corda Development

Getting Started with Hyperledger Fabric

Ethereum Development Fundamentals
https://academy.101blockchains.com/courses/ethereum-development-fundamentals
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