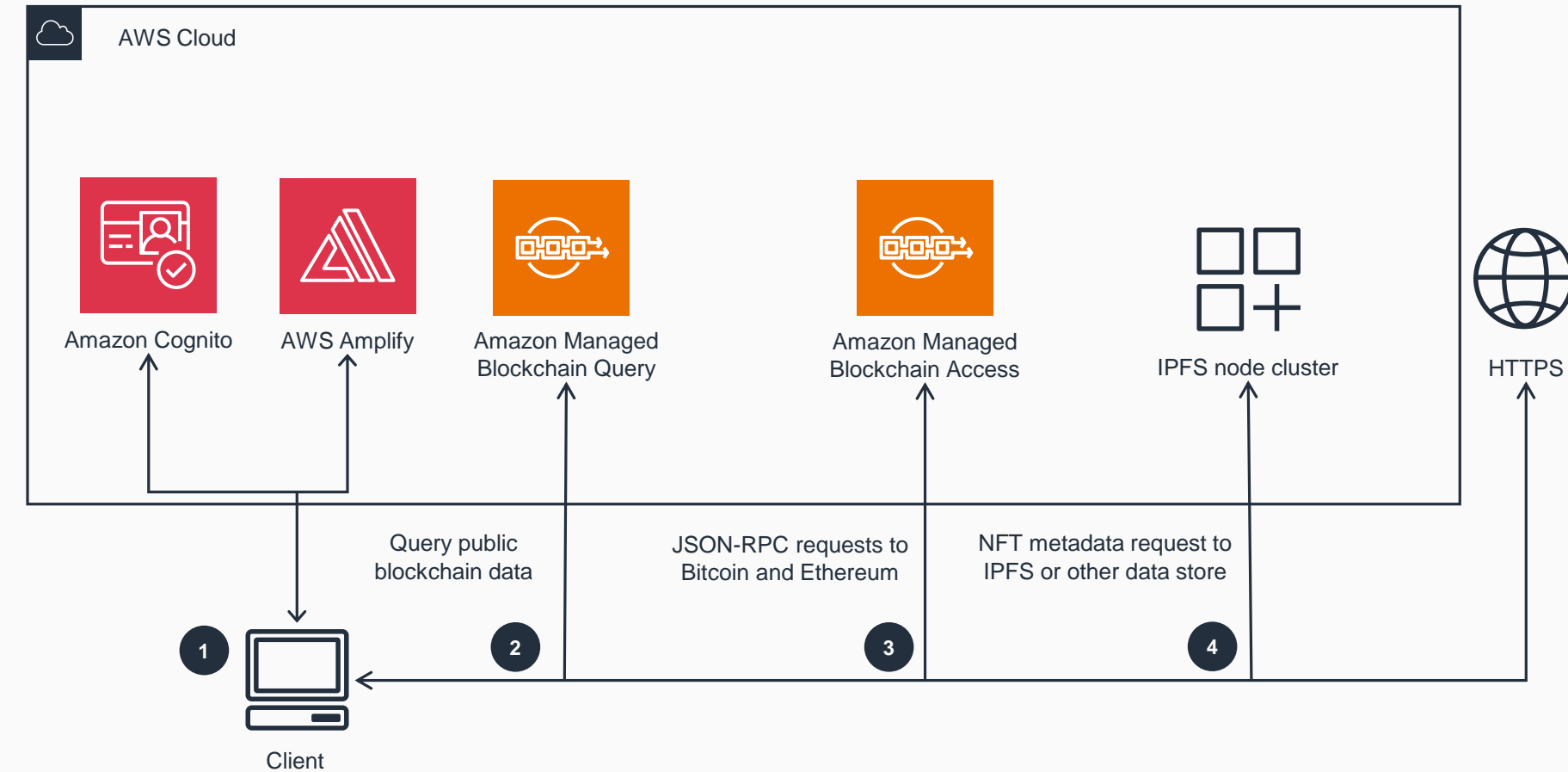


# Guidance for a Non-Custodial Ethereum and Bitcoin Wallet Interface on AWS

This architecture diagram shows how to deploy a digital asset wallet web application powered by Amazon Managed Blockchain and other AWS services.



- 1 **AWS Amplify** serves the client web application through the hosted user interface. An **Amazon Cognito Identity Pool** is used to delegate credentials for an **AWS Identity and Access Management (IAM)** role that grants access to **Amazon Managed Blockchain** resources.
- 2 The web application makes requests to **Amazon Managed Blockchain Query** for token balances and transaction history on public blockchains such as Bitcoin and Ethereum.
- 3 The web application makes JavaScript Object Notation-Remote Procedure Call (JSON-RPC) requests to a dedicated Ethereum full node and serverless Bitcoin JSON-RPC API endpoint on **Amazon Managed Blockchain Access** to retrieve additional transaction metadata, broadcast transactions, and more.
- 4 The web application makes requests for Non-Fungible Token (NFT) metadata hosted on the web and the Interplanetary File System (IPFS) using an IPFS node cluster.

