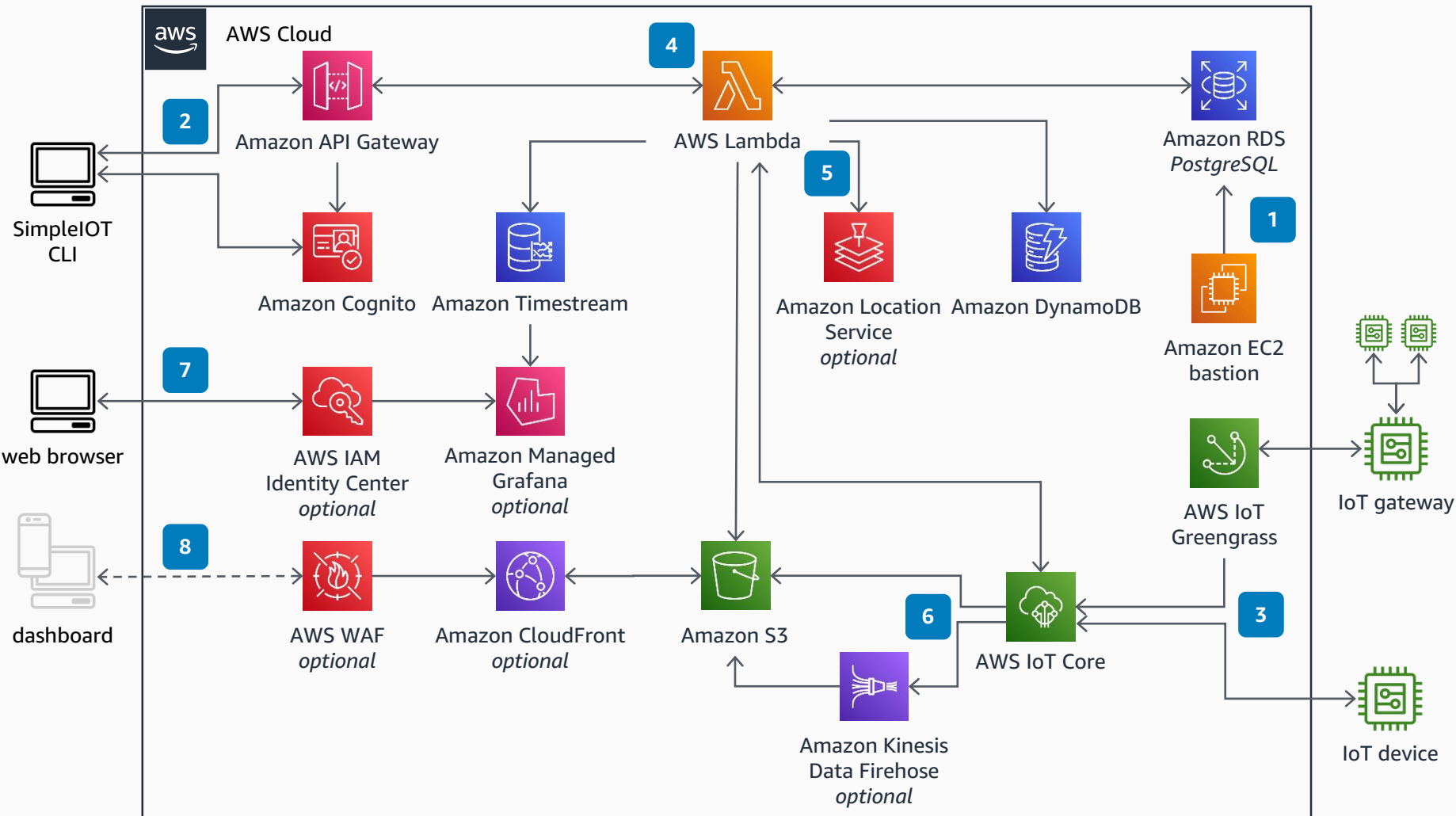


Guidance for Connected Products with SimpleIoT on AWS

SimpleIoT helps you rapidly set up a fully functional serverless Internet of Things (IoT) framework in an AWS account. It supports rapid creation of complete, secure, connected devices that send and receive data to the cloud in near real-time.



- 1 SimpleIoT initializes data models in an **Amazon Relational Database Service** (Amazon RDS) PostgreSQL instance by using an **Amazon Elastic Compute Cloud** (Amazon EC2) bastion.
- 2 Set up and configure SimpleIoT teams, projects, data models, and devices by using the SimpleIoT CLI. The CLI makes REST calls to **Amazon API Gateway**, using **Amazon Cognito** for authentication.
- 3 Connect IoT devices directly to **AWS IoT Core**, or through an IoT gateway with **AWS IoT Greengrass**.
- 4 All MQ Telemetry Transport (MQTT) messages and REST calls are validated and processed by **AWS Lambda** before being sent to **Amazon RDS**, **Amazon DynamoDB**, and **Amazon Timestream**.
- 5 (Optional) Store and query geospatial data in **Amazon Location Service**.
- 6 (Optional) Establish a data lake by sending raw data to **Amazon Simple Storage Service** (Amazon S3) either directly through **IoT Core** rules or batched through **Amazon Kinesis Data Firehose**.
- 7 (Optional) Access data visualizations in a web browser from **Amazon Managed Grafana**, secured by **AWS IAM Identity Center**.
- 8 (Optional) Set up a secure, custom dashboard to fit your needs. Dashboard code can be deployed to **S3**, distributed via **Amazon CloudFront**, and secured via **AWS WAF**.

