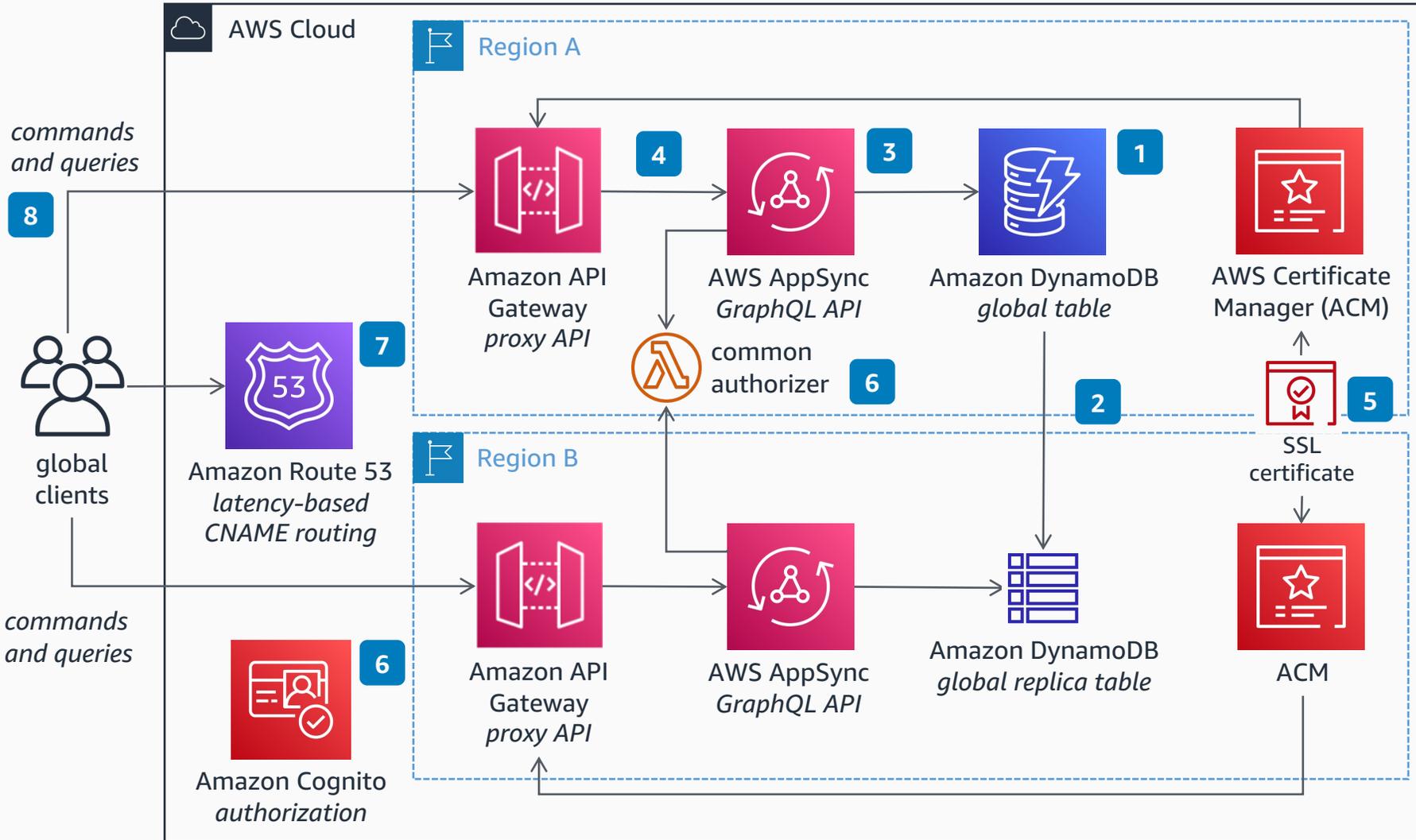


Multi-Region custom-domain AppSync proxy API

Reduce latency for end users while increasing your application's availability by providing GraphQL API endpoints in multiple AWS Regions, with active-active real-time data synchronization supported by Amazon DynamoDB Global Tables.



- 1 Create one or more **Amazon DynamoDB** database tables on the first **AWS Region** to store your workload's data.
- 2 Enable the **DynamoDB** Global Table feature to automatically propagate data changes bidirectionally in multi-active mode to all other Regions you need to support.
- 3 Create an **AWS AppSync** GraphQL API endpoint in each of the Regions in scope, using **DynamoDB** global tables to store and replicate your workload's data.
- 4 Create an **Amazon API Gateway** Proxy API endpoint in each of the Regions in scope, forwarding all requests to the same Regional AppSync endpoint you previously created in each of the Regions.
- 5 Create or import an SSL certificate for your domain to the **ACM** of each of the Regions in scope, then configure each regional **API Gateway** to support HTTPS requests by referencing your domain's SSL certificate.
- 6 To allow a seamless client authorization across all API endpoints, configure all your Regional AppSync endpoints to use a common authorization mechanism using either **Amazon Cognito** or a common **AWS Lambda** authorizer.
- 7 Configure **Amazon Route 53** to forward your domain's requests to the Regional **API Gateway** endpoint with the lowest latency to the client's location.
- 8 Clients across the world can send requests for commands and queries to any Region.

