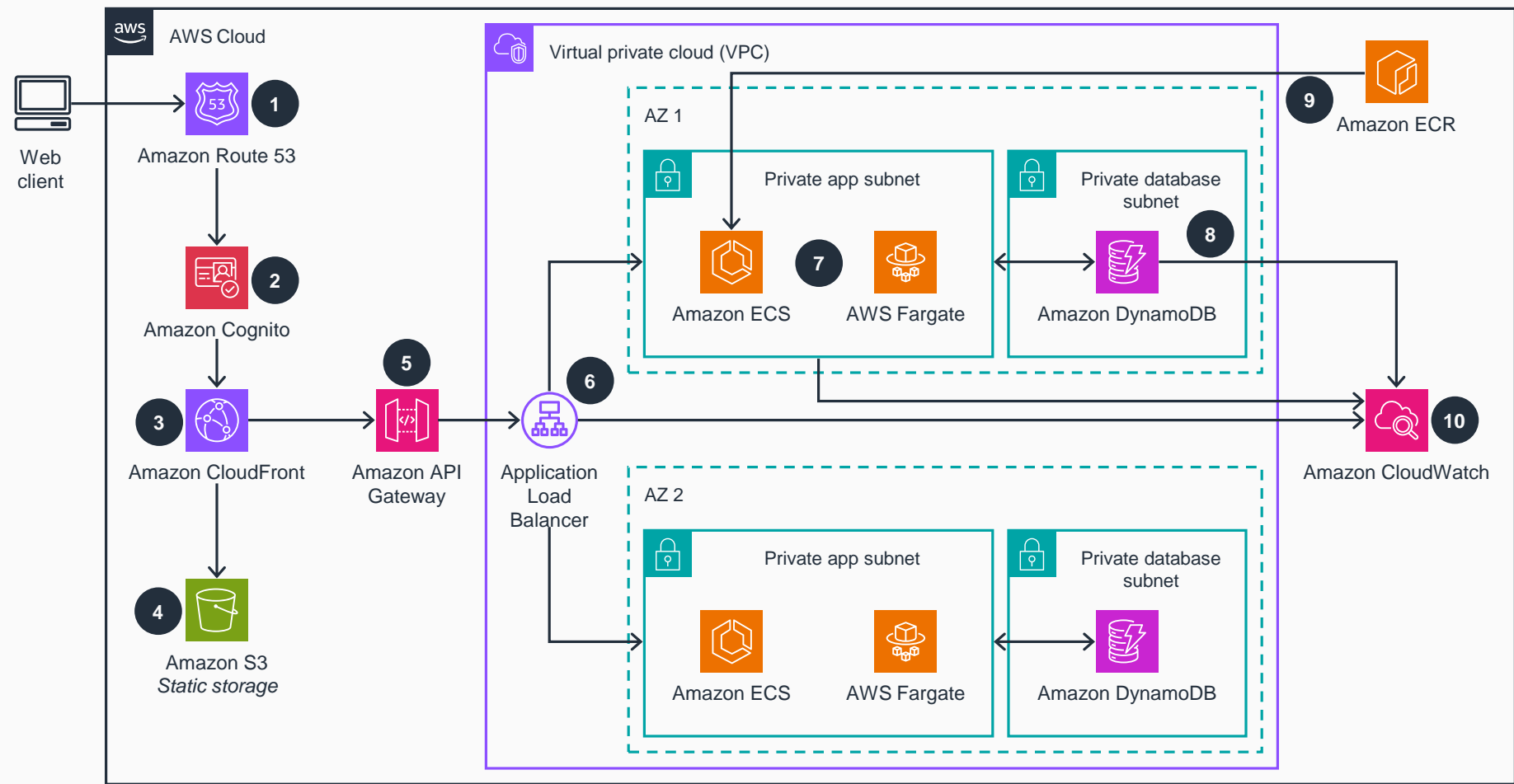


Guidance for Building a Containerized and Scalable Web Application on AWS

This architecture diagram shows how you can deploy a scalable, secure three-tier web application using containerization on AWS without needing extensive knowledge in containerization or infrastructure management.



- 1 Route traffic from your web client based on the request path for static and dynamic content using domain name service (DNS) **Amazon Route 53**.
- 2 Protect and control access to your web application using **Amazon Cognito**.
- 3 Use a content delivery network (CDN) like **Amazon CloudFront** to reduce the latency for delivering your static content.
- 4 Use **Amazon Simple Storage Service (Amazon S3)** to store static content and backups.
- 5 Handle all incoming API calls and traffic management with authorization, access control, and throttling using **Amazon API Gateway**.
- 6 Configure **Application Load Balancer** to be internet-facing, and use it to distribute web traffic to your application across multiple Availability Zones (AZs).
- 7 Run the application on **Amazon Elastic Container Service (Amazon ECS)**, and use **AWS Fargate** for serverless compute. Send API calls for dynamic content.
- 8 Retrieve application data and content from **Amazon DynamoDB** anytime there is an API call.
- 9 Store the container image running the application in **Amazon Elastic Container Registry (Amazon ECR)**. Use **Amazon ECS** to pull the image to run the application.
- 10 Use **Amazon CloudWatch** to monitor and observe the application and all the resources.