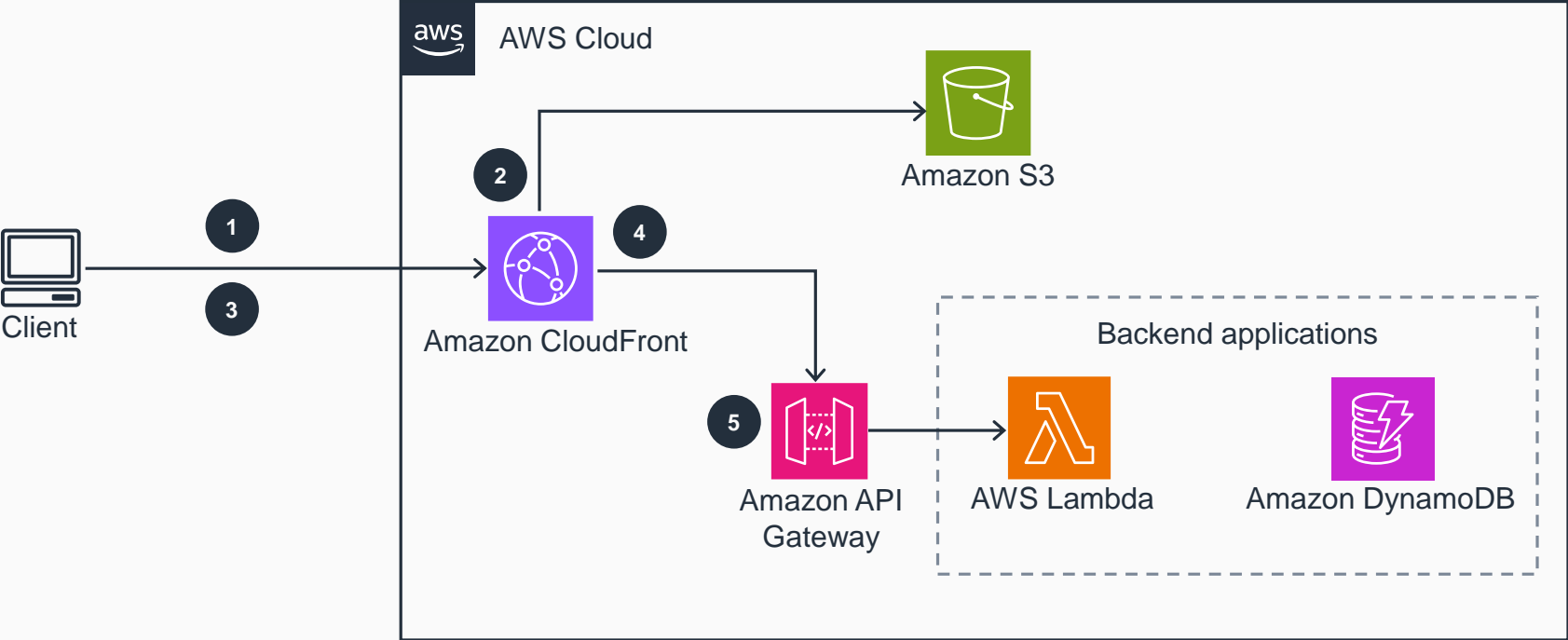


Guidance for Improved Single-Page Application Performance Using Amazon CloudFront

This architecture diagram shows how Amazon CloudFront can improve the performance of a Single Page Application (SPA) with a single domain, multi-origin policy.



- 1 The web browser makes a request to **Amazon CloudFront** for the Single Page Application (SPA).
- 2 **CloudFront** checks the requested URL path, and retrieves the static content for the SPA from an **Amazon Simple Storage Service** (Amazon S3) bucket as the origin.
- 3 A user interaction on the web browser makes another request to **CloudFront**, requesting data from a REST API.
- 4 **CloudFront** checks the URL path which contains “/apis.” **CloudFront** is configured with a behavior for this path to get data from **Amazon API Gateway** as the origin. Additionally, caching is disabled for this behavior, so requests on this path are always served from **API Gateway**. The origin request policy is also set to “AllViewerExceptHostHeader,” which is required for the **API Gateway** origin.
- 5 **CloudFront** gets the data from the backend applications through the **API Gateway** origin and sends it to the web browser.