Alibaba Cloud

Mobile Cloud Acceleration for a Seamless Mobile Application UX

A solution that provides a latency free user experience for mobile applications

Introduction

Mobile applications are a crucial channel for organizations to showcase and deliver their products and offerings to customers. With just a few clicks, users can shop for their favorite items, go about socializing or even connect to the world. Given their diverse use, it is imperative that organizations optimize the delivery of their mobile applications to end-users. However, most developers lack a systematic performance monitoring system.

Background

Maintaining an excellent mobile application performance is both vital and challenging for organizations. With the constant release of new mobile devices, applications must be in-sync with devices and free from issues, such as latency and fluctuating bandwidth, to ensure a smooth user experience. Furthermore, several apps lack an optimized environment configuration as well as content and storage resources.

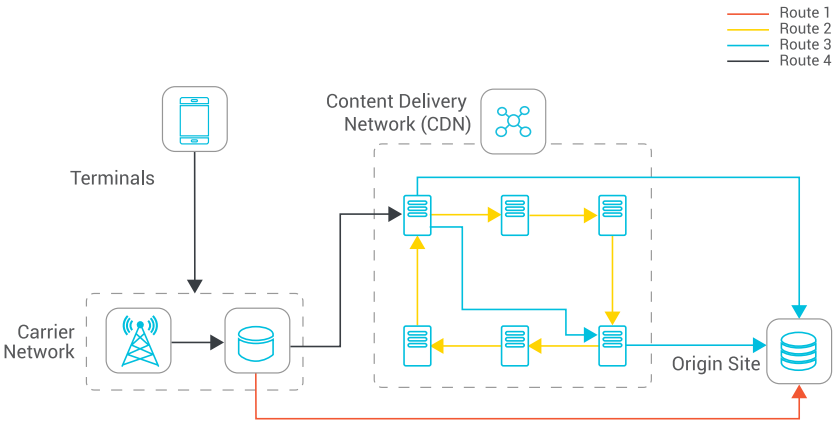
Highlights

- Provides flexible features including Auto Scaling
- Automatic handling of website traffic spikes
- Domestic carrier network collaboration
- 500 CDN nodes in China and more than 30 globally
- Pay only for the resources you actually use
- Supports massive storage capacity up to 1.5PB
- Enables swift response time

Benefits

- ✓ Easy-to-use features
- ✓ Smooth video streaming
- ✓ Reduces load on origin site
- ✓ Follows a "use-first, pay-later" model
- ✓ Free from long-term contract or minimum usage commitment
- ✓ Facilitates addition, deletion, modification and search query domain names

Recommended Solution Architecture



The architecture diagram provided above represents a solution using four layers of optimization (protocol, link, content, and carrier) to provide a latency-free user experience. Additionally, developers effectively use Alibaba Cloud Content Delivery Network (CDN) to allow users to reduce website response time to milliseconds. This will ensure smooth video streaming and efficient handling of spikes in traffic.

An app integrated with Alibaba Cloud Mobile Cloud Acceleration Solution performs link optimization in collaboration with domestic carrier network. A web request originates from a user and travels to the acceleration nodes of the CDN via various edge centers and sends a response back to the user. The CDN nodes refresh content available on each node by obtaining data from the origin site based on defined caching policies. Alibaba Cloud CDN further ensures streamlining of web content adding to an enriched user experience.