

Abstract

In a few of these decades, the developing of networks is improved rapidly. The main is now about web application improved rapidly too, with usefully, size, and complexity. User with some request especially website content want to that service can deliver to client is fast and with right content. Access speed which want to user is fast. Mainly commercial website with high hits like www.amazon.com, www.youtube.com etc.

The using request routing mechanism with Application-layer and DNS based is one of solution at CDN. Mainly application-layer with used can seen with real time process which mechanism process at request redirecting to selected server replica. The use from DNS based can not make redirecting process with real time process because of recommended from DNS protocol that DNS based request routing not recommended to update with real time process.

In performance this mechanism with firewall and bandwidth we can see with some different with level concurrent. With different level concurrent ratio value like we use two computer have RTT value 56% lower than first concurrent and concurrent with two computer have RTT value 58% lower than with third concurrent, and with bandwidth different cause delay values more high because high value RTT and because we can see ratio value is concurrent with one client is 24,13% more fast than concurrent with two client

Keywords: CDN, request routing, DNS based and Application-layer