DATA SHEET

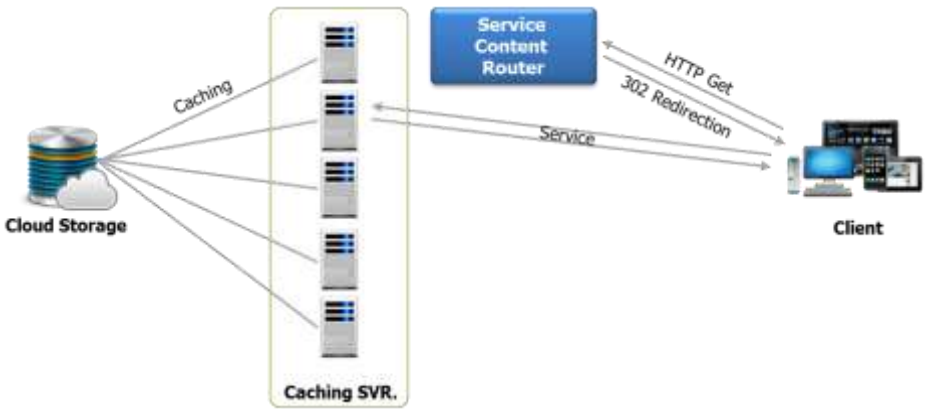
Solbox Service Content Router

To improve cache hit ratio and to deliver your contents with the fastest speed, IT organizations need to store lots of contents in the cache server. However, as the amount of content has been rapidly increasing, tens of millions of content would be on a single cache server. To solve these issues, high-end cache servers and load balancing solution may be considered, but they result in excess burden of investment and operating costs.

Solbox Service Content Router is designed to help IT organizations reduce complexity and accelerate readiness when processing hundreds of millions of content in data transmission. You can provide the fast and secure service for large-scale content with minimum investment.

It enables to distribute and store contents over multiple cache servers without redundancies and to download content from the appropriate cache server by identifying and designating the content URL requested by the users. Additionally, despite any changes in the server number due to system failure or server expansion, **Solbox Service Content Router** can redistribute content without incurring a big slow down. Especially it executes load balancing to prevent any load bias over the cache server by the hot contents through the intelligent content distribution algorithm.

Solbox Service Content Router Diagram



Benefits

- Increases the cache hit ratio and reduces the workload of the original server by distributing millions to hundreds of millions of content to cache servers effectively
- Ensures the stable and reliable service by detecting errors instantly through self-monitoring for cache servers
- Minimizes potential service degradation due to the additional server deployment or server removal by managing cache servers in groups.
- Maintains the flexible and secure service by providing multiple paths of feasible cache server group instantly in case of slow down cache server's because of request increase for hot contents

Features

- **Service-Based Content Routing**

  When the user requests the content, it designates a cache server to provide the content and performs HTTP 302 Redirection. The user can download the content directly from the designated cache server according to the Redirection data. It enables to distribute the appropriate content to the service type by specifying the cache server in either singular or mixed algorithms of Consistent Hashing and Round-Robin.
- **Support Distributed Routing for Hot Content**

  In case of content distribution to several cache servers, rapid increasing request of hot contents may cause traffic bursts on a specific server. You can set a traffic threshold and server to download from more than one cache server according to the requests of the hot content.
- **Support Avoidance from Server Failure**

  To avoid from cache server failure, the path is rerouted to access other available cache servers. When the server failure is recovered, the redistributed content routing is back to the original location automatically.
- **Specifying Service-Based Routing Group**

  Caches servers can be grouped by service using Consistent Hashing and Round-Robin algorithms. You can set the appropriate routing group according to the characteristics of service traffic.
- **Content Filtering**

  It provides content filtering rules to specify the special routing for the requests of illegal or specific content. Filtering rules can be set by regular expression.
- **Support OpenAPI**

  It supports RESTful API for managing additional deployment or removal of cache servers and setting up routing, service conditions and etc.