



Performance Evaluation of URL Routing

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Content Distribution Networks (CDNs) are a rapidly growing service on the Internet. CDNs distribute and co-locate content to be geographically close to the users (of the content). This content mirroring 1) reduces the load on the origin server, 2) reduces traffic on the Internet, and 3) improves response time to the users. For CDNs to be feasible, methods of routing of HTTP requests originating from users are needed. URL routers need routing tables similar to IP routing tables in IP routers. However, the methods used for IP routing cannot scale to URL routing. In URL routing the number of destination addresses (URLs) greatly exceeds the number of IP addresses. In addition, URLs are not stable - new ones are constantly created and old ones disappear. The large size of URLs, their very large number, and their dynamic nature makes URL routing a difficult problem. This is the problem that is addressed in this book.

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