


Students to Discuss Solutions: DNS delays can be significant

Suppose within your Web browser you click on a link to obtain a web page. The IP address for the associated URL is not cached in your local host, so a DNS lookup is necessary to obtain the IP address. Suppose that n DNS servers are visited before your host receives the IP address from DNS and that iterative queries are used. Let the successive visits to the DNS servers incur an RTT of RTT_1, \dots, RTT_n . Further suppose that the webpage associated with the link contains exactly one object, consisting of a small amount of HTML text. Let RTT_0 denote the RTT between the local host and the server containing the object. Assuming zero transmission time of the object, how much time elapses from when the client clicks on the link until the client receives the object?

Resource created 3 months ago (Sunday 22 May 2022, 12:49:51 PM), last modified 2 months ago (Sunday 12 June 2022, 11:59:01 PM).

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