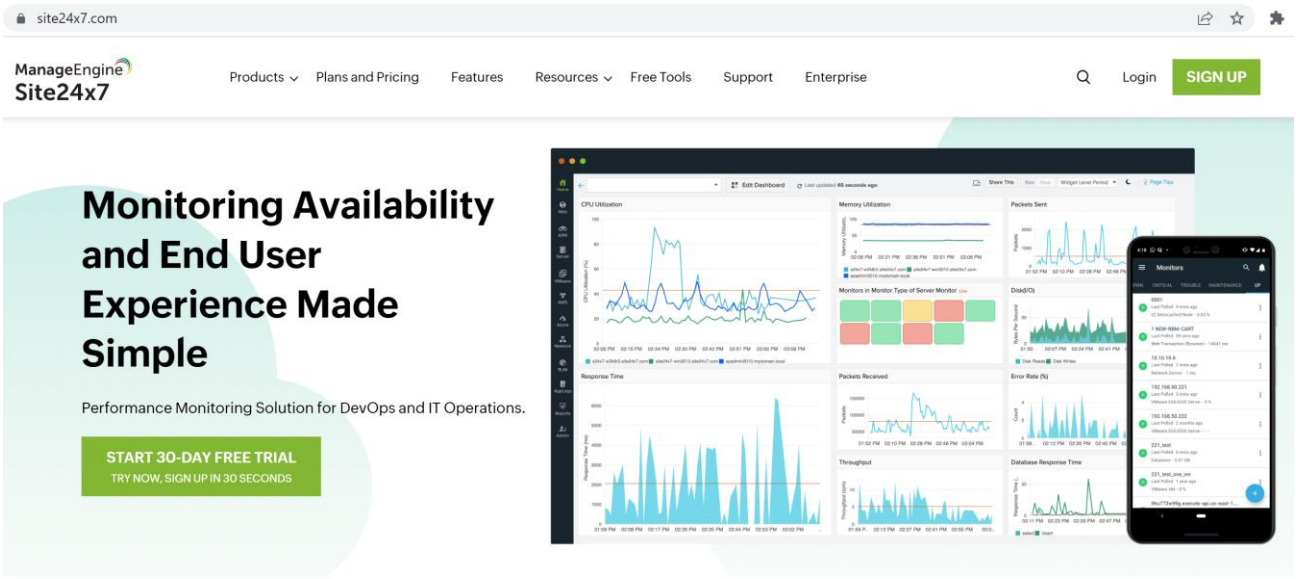
Lab 1: Monitoring Tools

Objectives

- Understand web information for monitoring
- Can monitor Web performance
- Can get the idea for solving the web traffic problems

Task 1 : Site24x7 Make a Register



Step 1 Goto: www.site24x7.com

Step 2 Register as free service, using your mail address

Step 3 Confirm register by the link from email

Task 2 : Site24x7 Using Web Monitoring

Step 1 www.site24x7.com

Step 2 Login as your registered user

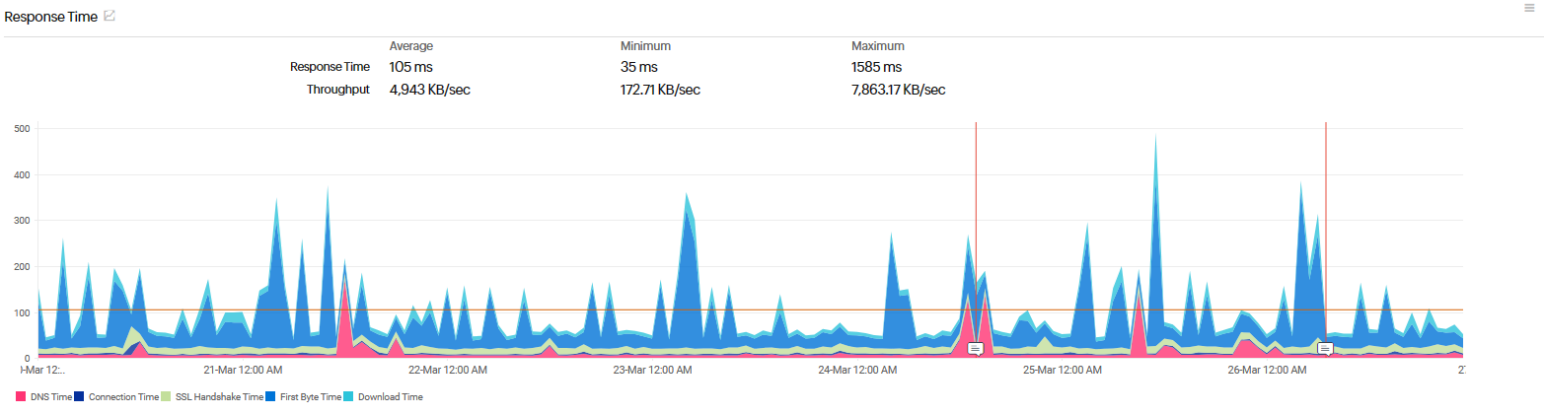
Step 3 Add new Monitor web address with option all site polling

Step 4 Get the response time result

Step 5 Analyze the WWW response time

Your Web Server https://tracker.gg

Response time report



Analyze the WWW response time

- **The average response time is 105 ms.**
- **The minimum response time is 35 ms.**
- **The maximum response time is 1585 ms.**

Overall, the average response time seems good, at around 100 milliseconds. However, it's important to consider the range of response times as well. There seems to be some variation, with a maximum response time of over 1.5 seconds.

A connection time of 2-3 milliseconds is a strong sign of a healthy and fast network connection. For most use cases, this should offer a smooth user experience.

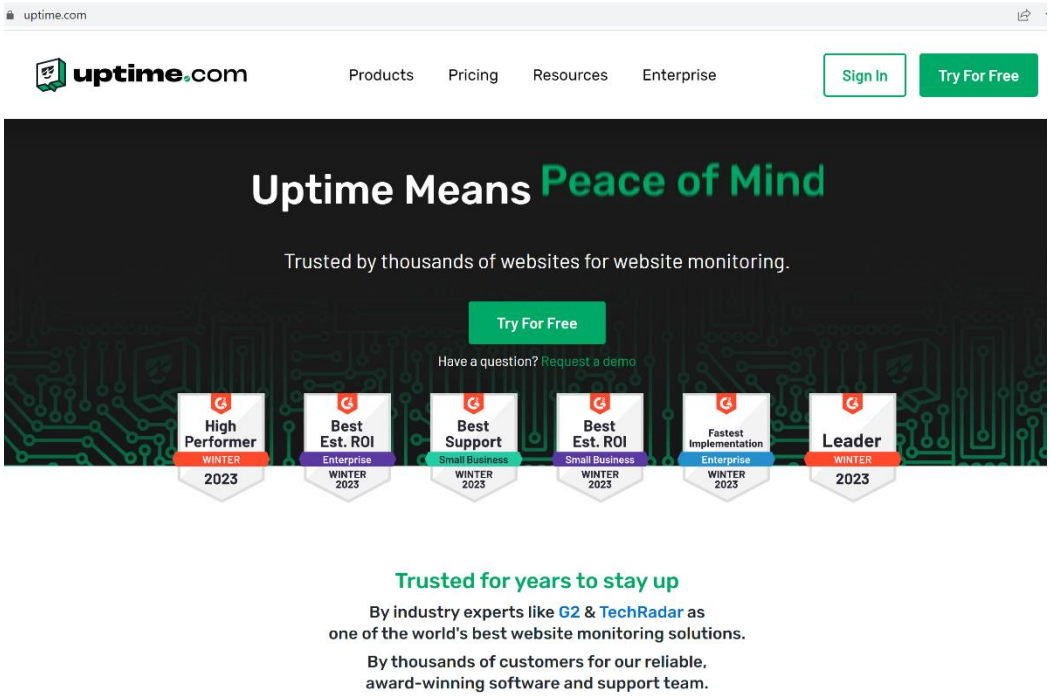
DNS normally around 6-8 milliseconds but spiking up to 100 milliseconds at least once a day (6-8 milliseconds: This is considered a very good DNS lookup time, indicating a fast and efficient resolution process. 100 milliseconds: This is a noticeable increase in latency compared to the normal range. While not necessarily a critical issue, it can contribute to slightly slower page load times.)

An SSL handshake time around 10-15 milliseconds is generally considered very good for web applications. It indicates that the SSL/TLS connection between your browser and the website is being established quickly, contributing to fast page load times and a secure experience.

A First Byte Time (FBT) of around 30 milliseconds is considered good for web applications, indicating a relatively fast initial response from the server. However, if your FBT frequently spikes to over 100 milliseconds, it can cause noticeable delays in page load times and affect user experience.

A downtime of around 8-12 milliseconds is considered good for web applications, indicating a relatively low amount of time spent waiting for responses from the server. However, if your downtime frequently spikes to over 20 or 30 milliseconds, it can cause noticeable delays in page load times and affect user experience.

Task 3 : Try https://uptime.com/



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