

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

The screenshot shows the Site24x7 website interface. At the top, there's a navigation bar with links for Products, Plans and Pricing, Features, Resources, Free Tools, Support, and Enterprise. A search bar and a 'SIGN UP' button are also present. The main content area features a large banner with the text 'Monitoring Availability and End User Experience Made Simple' and 'Performance Monitoring Solution for DevOps and IT Operations.' Below this, there's a green button that says 'START 30-DAY FREE TRIAL TRY NOW, SIGN UP IN 30 SECONDS'. To the right of the banner, there's a preview of the Site24x7 dashboard, which displays various performance metrics like CPU Utilization, Memory Utilization, Packets Sent, Packets Received, Throughput, and Error Rate. A smartphone is also shown displaying the Site24x7 mobile app interface.

All-in-One Monitoring Solution

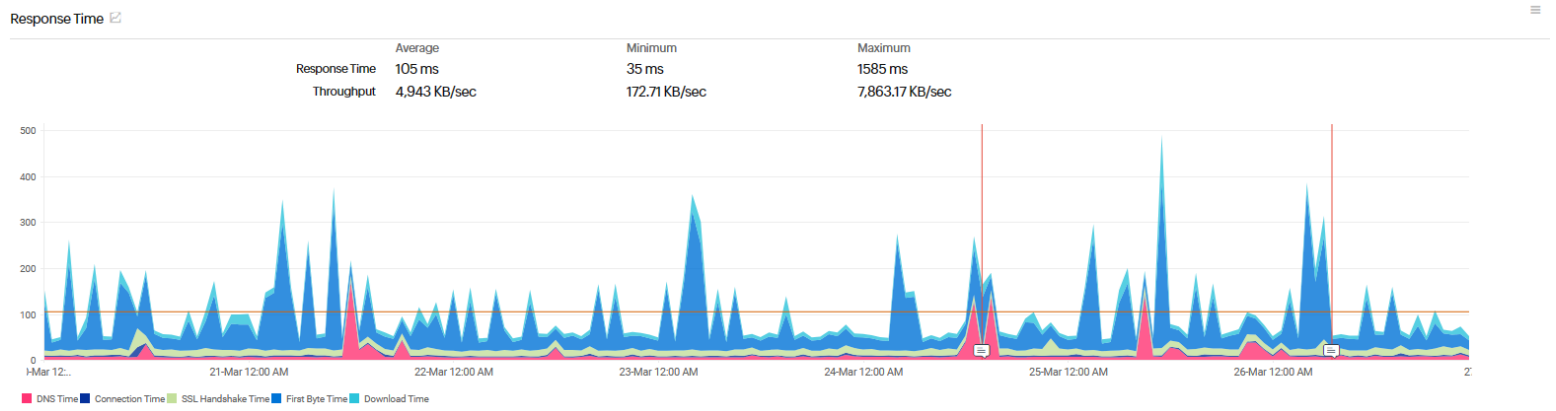
- Step 1** Goto: www.site24x7.com
- Step 2** Register as free service, using your mail address
- Step 3** Confirm register by the link from email

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/>

The screenshot shows the Uptime.com website homepage. The browser address bar displays "uptime.com". The navigation bar includes the Uptime logo, "Products", "Pricing", "Resources", "Enterprise", a "Sign In" button, and a "Try For Free" button. The main hero section features the headline "Uptime Means Peace of Mind" in white and green text on a dark background with a green circuit pattern. Below the headline is the text "Trusted by thousands of websites for website monitoring." and a "Try For Free" button. A link "Have a question? Request a demo" is also present. A row of six award badges from G2 is displayed, each with a category, a target audience, and the award period "WINTER 2023".

Award Category	Target Audience	Award Period
High Performer	Enterprise	WINTER 2023
Best Est. ROI	Small Business	WINTER 2023
Best Support	Small Business	WINTER 2023
Best Est. ROI	Small Business	WINTER 2023
Fastest Implementation	Enterprise	WINTER 2023
Leader	Enterprise	WINTER 2023

Below the awards, the text "Trusted for years to stay up" is followed by two paragraphs: "By industry experts like G2 & TechRadar as one of the world's best website monitoring solutions." and "By thousands of customers for our reliable, award-winning software and support team."