Enterprise Digital Infrastructure – Assignment #3 – May 2024

Web technologies

1. Analyze and discuss the role and the impacts of the number of parallel connections set inside the browser on the Page Load Times of commercial/institutional websites running HTTP/1.1, HTTP/2 or HTTP/3. Outline expected or unexpected behaviors in your experiments.

2. Analyze and discuss the impacts on the Page Load Times of the caching policies implemented by commercial/institutional websites running HTTP/1.1, HTTP/2 or HTTP/3 (possibly with unsecure and secure connections). Outline expected or unexpected behaviors in your experiments.

3. Test the performance of commercial/institutional websites using the `ab` – Apache HTTP server benchmarking tool with different options. Analyze and discuss the results of your experiments and outline any expected or unexpected behavior.

4. Test the performance of commercial/institutional websites using the `nghttp` and `h2load` tools with different options. Analyze and discuss the results of your experiments and outline any expected or unexpected behavior.