Static websites without servers

Demo whitepaper for the course Cloud Computing & Security WS 26/27. It is not a publication of Digital Frontiers.

What a static website is

A static website consists of files that are the same for every visitor: HTML pages, stylesheets, scripts, images and documents such as this one. A generator like Hugo builds them once; afterwards nothing has to run when a visitor opens a page.

Storage and delivery

Because the files never change between requests, they need no web server of their own. Object storage keeps them, and a content delivery network copies them to locations close to the visitors, answers over HTTPS and caches what is asked for often.

What it saves

There is no server to patch, to scale or to pay for while nobody visits. Storage and delivery are billed by use, and a site that suddenly gets many visitors is served from the caches of the network.