MPD Root Continuous **Open-source Docker containerization** technology wraps up a piece of software Integration in a complete filesystem that contains everything it needs to run: code, **Experiments hardware:** runtime, system tools, system libraries. Microsoft Azure VM • 20 Cores Intel Xeon CPU E5-2673 v3 @ 2.40GHz • 120GB RAM Runner creates separate Docker • 1TB SSD container for each CI task. This Main software source code repository server. guarantees that every build is running in Contains main software source code. the same environment. It also contains CI scripts and container image Remote servers with GitLab Runner configuration for building and testing purposes. software installed. Each can run multiple This allows to alter the configuration of a build's jobs concurrently. dependencies without the developer having to directly access GitLab CI Runner service. GitLab server software also provides web user interface for easy project management and code conflicts solving. In-container execution flow Root Every build can pull latest version of ANDO POOK GIRLOO external software or stick to specified CHANCON.

chi. Full build log being pushed from runner to repository. Source code commit status Poor changes to "passed" or "failed'. Other build artefacts (such as binaries) can be The most time consuming task is also transferred to repository. FairSoft installation. It takes up to 40 minutes on described runner hardware. CPU The optimization was ensured by means of caching the project's NET dependencies and environmental components. Caching was done by **Docker container manager.** MEM As a result, we substantially decreased the build time: from 45 to 2-3 minutes. 45min