Reference	IT-ST-35
Project/ Activity	Integration with OCIS (OwnCloud Infinite Scale)
Duration	1 year
Description	CERNBox is a versatile storage and collaboration platform for users at the CERN and around the globe. CERNBox provides sync-and-share access (similar to Dropbox), direct filesystem and other storage interfaces and it is integrated with collaborative editing applications (similar to Google Docs) and data science environments (based on Jupyter Notebooks). Next major version of Owncloud (codename: Infinite Scale) comes with a radical technology change and will integrate core components developed for CERNBox (REVA runtime layer and CS3APIs). The web user interface layer has been decoupled from the service backend. The new web ui will provide a more streamlined, interactive user experience and the new service backend will allow a more elastic deployment with container technology.
Profile	This project is to support the full transition of the CERNBox service to the next generation system (OCIS). The specific tasks include: design, implementation and testing of the server and client components (e.g. GRPC transport for microservices and client-server interaction); ensure a smooth migration of infrastrcuture from the baremetal service to Kubernetes; implementation of the new protocols in the REVA platform using the CS3APIs; participation in migration of the users to the new platform; support of the service lifecycle and participation in service management and operation after migration.
Specific details	Desired skills: * Programming languages skills (Go, Javascript, vue.js, python, ...) * Familiar with distributed version control systems (Git) * Familiar with Agile methodologies and tools (Scrum, JIRA, ...) * Linux system administration skills * Ability to work in teams and be responsible for the work * Curiousity about modern system engineering and service operation * Appetite for challenging tasks and solving complex problems