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6 years of CERN Cloud - From 0 to 300k cores

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CERN, the European Laboratory for Particle Physics, is running OpenStack for its private Could Infrastructure among other leading open source tools that helps thousands of scientists around the world to uncover the mysteries of the Universe.

In 2012, CERN started the deployment of its private Cloud Infrastructure using OpenStack. Since then we moved from few hundred cores to a multi-cell deployment spread between two data centres.

After 6 years deploying and managing OpenStack at scale, we now look back and discuss the challenges of building a massive scale infrastructure from 0 to +300K cores.

With this talk we will dive into the history, architecture, tools and technical decisions behind the CERN Cloud Infrastructure.

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