

Hyper-Converged Cloud Infrastructure at CSCS

Thursday 15 May 2025 11:00 (30 minutes)

This presentation covers the hyper-converged cloud infrastructure at the Swiss National Supercomputing Centre (CSCS), focusing on the integration of Kubernetes (RKE2), ArgoCD, and Rancher for managing and deploying clusters.

Rancher handles deployment on bare-metal and HPC nodes, while Harvester manages virtual clusters. ArgoCD automates deployments and ensures consistency, enabling continuous delivery. The combination of Kubernetes, ArgoCD, Rancher, Harvester, and Terraform creates a scalable, adaptable cloud infrastructure.

This case study outlines the architecture, workflows, and benefits of this approach.

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