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Resource Management in Private Multi-Service Cloud Environments

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The JINR cloud infrastructure hosts a number of cloud services to facilitate scientific workflows of individual researchers and research groups. While the batch processing systems are still the major compute power consumers of the cloud, new auxiliary cloud services and tools are being adopted by researchers and are gradually changing the landscape of the cloud environment. While such services, in general, are not so demanding in terms of computational capacity, they can still have spikes of demand and can dynamically scale to keep the service availability at a reasonable level. Moreover, these services might need to compete for the resources due to the limited capacity of the underlying infrastructure. In this talk we'll discuss how resource distribution could be managed in such a dynamic environment with the help of a cloud meta-scheduler.

Summary

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