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New developments in UNICORE

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UNICORE is a middleware suite that is well established as one of the major solutions for building federations and e-infrastructures, with a focus on high-performance computing. UNICORE offers secure and seamless access to heterogeneous compute and data resources such as HPC machines, compute clusters, OpenStack images and various storage systems. UNICORE offers both SOAP web services and new RESTful APIs that are combined with a flexible and open security stack.

After a brief general overview, this demonstration focuses on recent developments, such as

- * integration with Unity for flexible user authentication avoiding x.509 user certificates
- * the new REST API for job submission and data access
- * integration of S3 storages
- * the UNICORE web portal
- * data-driven use cases and metadata handling

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