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The CloudVeneto's Container-as-a-Service ecosystem

Within CloudVeneto's framework of innovative solutions, we have developed a cutting-edge Container-as-a-Service (CaaS) solution tailored for several use cases spanning diverse research domains. Our primary objective is to deliver a secure, multi-tenant Kubernetes service that is centrally managed, alleviating users from administrative burdens while optimizing cloud resource utilization. By implementing CaaS, CloudVeneto has effectively addressed several requirements of different user communities such as Quantum, Isolpharm, SPES, etc., showcasing its adaptability and effectiveness within the CloudVeneto ecosystem.

Furthermore, we were able to successfully demonstrate that it is possible to offload part of the workload submitted to a remote external Kubernetes cluster to the CloudVeneto CaaS service. This was implemented using the interLink solution, which extends the Virtual Kubelet concept.

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