

KER 6 | SIX

Nuvla Data Catalogue

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| TYPE [SERV] [METH] | TECHNICAL READINESS LEVEL TRL6 | INTELLECTUAL PROPERTY RIGHTS PROPRIETARY | EXPLOITATION ROUTE OPEN SOURCE |
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Nuvla.io is a cloud-native platform that allows remote management of edge devices and applications with the help of NuvlaEdge, an agent software running on edge devices. Nuvla not only simplifies the deployment of containerized applications across edge locations, it also features a metadata catalogue to ensure that data collected at the edge is categorised, mapped, and easily retrievable by users.

KEY BENEFITS FOR COMPUTE CONTINUUM PROJECTS

The large amounts of data produced at the edge are a real challenge to handle for compute continuum infrastructures. The Nuvla data catalogue ensures a continuous mapping of datasets, and features a configurable notification system for new datasets registration.

USE AND IMPACT AFTER PROJECT CONCLUSION

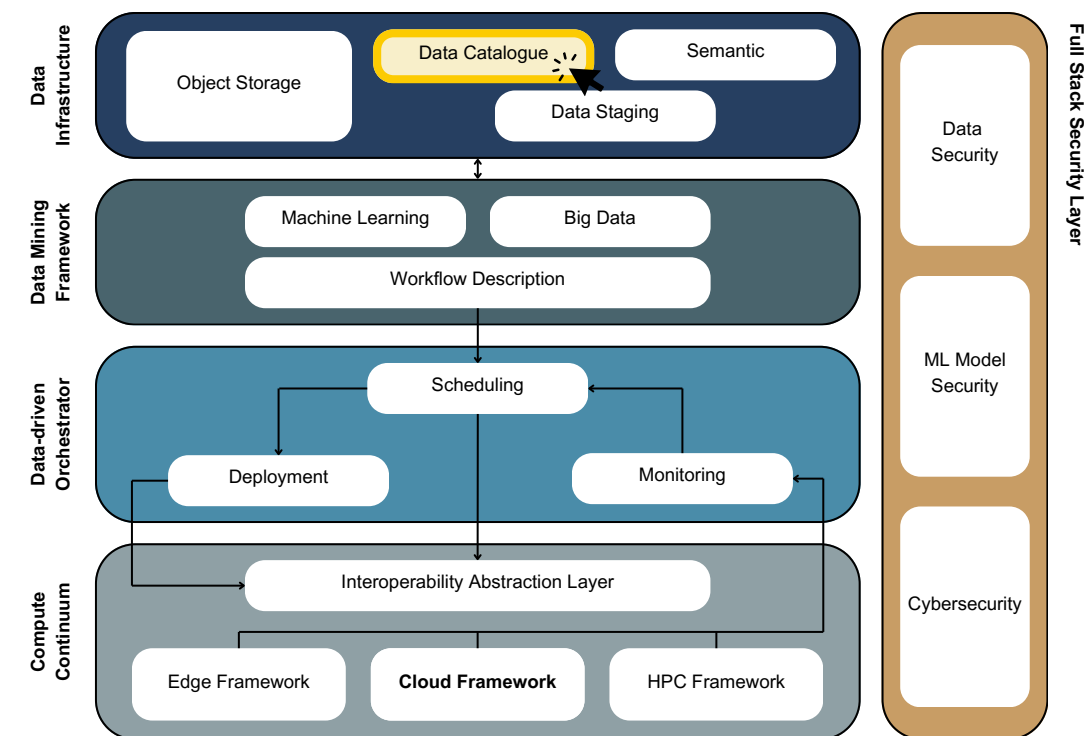
Nuvla is exploited in business projects as a SaaS or on-premise platform for edge-to-cloud orchestration. By enhancing its data management capabilities, Nuvla will be able to target new edge opportunities involving the collection and processing of large amounts of data.

FOR RESEARCHERS AND INDUSTRIAL TEAMS:

- Facilitate access to datasets to research teams inside an organisation thanks to the metadata available in the data catalogue. Nuvla metadata also allows for indexing, history, correlation and reusability of data.
- Provide interfacing with MinIO storage systems accelerating data ingestion.
- Enabling automatic flows from data generated events. Provide system notifications to the MQTT broker for registration of datasets with a certain data type.

FOR SERVICE PROVIDERS

- Clear overview and monitoring of the edge infrastructure.
- Nuvla is an all-in-one solution for orchestration of edge devices (device management, apps deployment, registration of data collection).



<https://gitlab.bsc.es/extract/extract-use-cases/taska/use-case-c/data-catalogue>

