

DYNAMOS:

Dynamically Adaptive Microservice OS



A Middleware for data-exchange systems



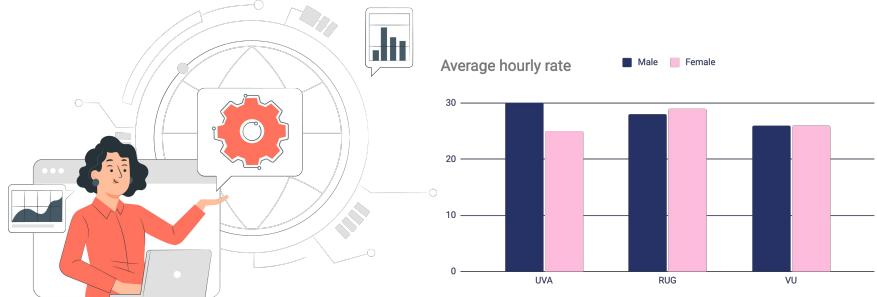
Create dynamic data exchange scenarios

Using a set of core data exchange
microservices

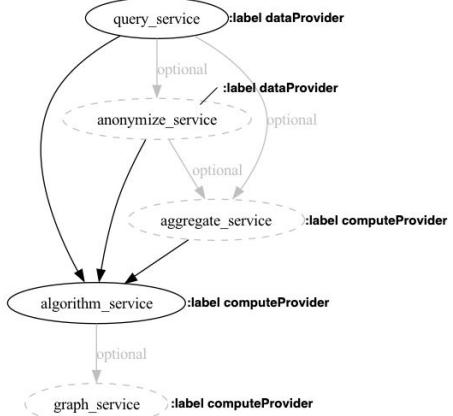
- In a distributed data marketplace
- Compose different service patterns per request
- Dynamically adapt data-exchange patterns
- Checked against legal policy

DYNAMOS offers

1. Single use ephemeral jobs
2. Data is passed from one service to another using a predefined interface
3. Self-adaptivity through MAPE-K feedback loops



How it works



1.

Generate microservice
chain



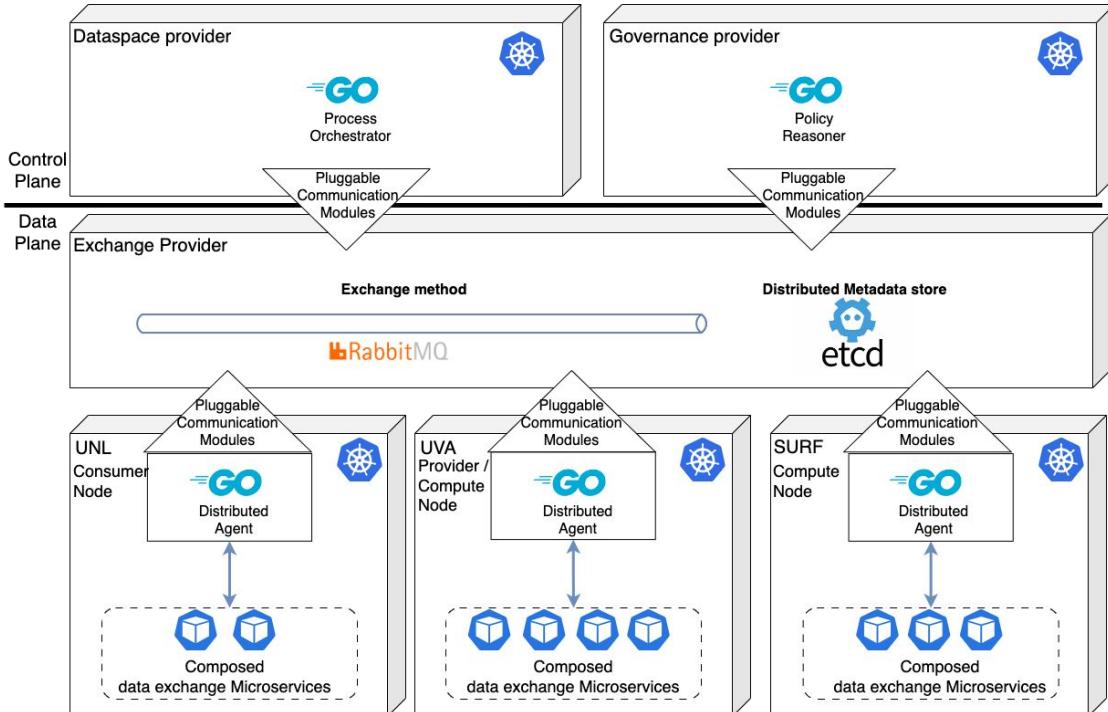
2.

Check policy and
additional requirements



3.

Create ephemeral
data-exchange job



Future use and research

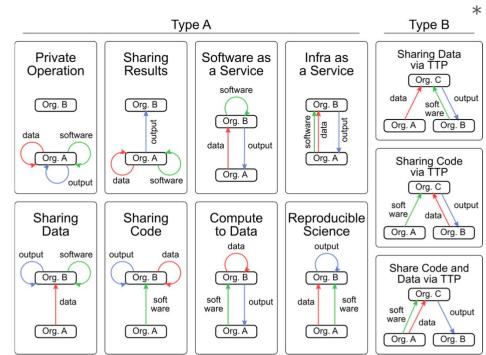
- Experiment with different data exchange archetypes
- Testing Optimization and Self-Adaptive Algorithms
- Experiment with security and networking components
- Link data from Fabric into DYNAMOS

How to use



2.
Clone DYNAMOS

1.
Install or clone
DYNAMOS profile



3.
Start experiments