DYNAMOS: Dynamically Adaptive Microservice-based 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

1. Install or clone DYNAMOS profile

2. Clone DYNAMOS

3. Start experiments