

In this demo we present DYNAMOS

“Dynamically Adaptive microservice-OS”

Dynamic microservices for data-exchange systems

DYNAMOS was built to experiment with
'data-exchange' scenarios

For example, distributed machine learning on
airplane engine data

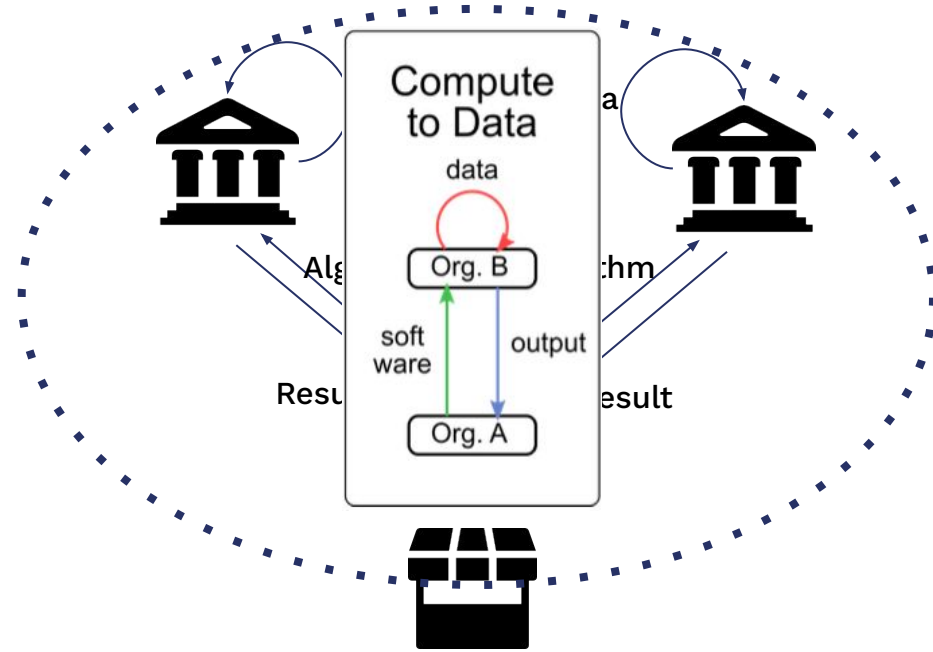
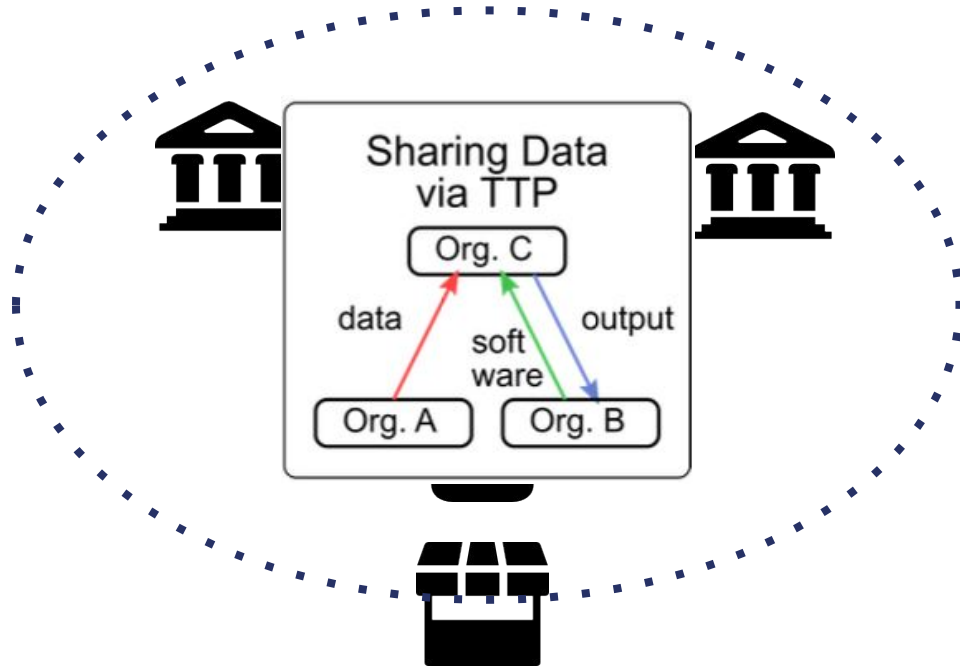
All actions enforced by programmable *policy*

In this demo we will show how DYNAMOS
picks an archetype based on user input and on
policy

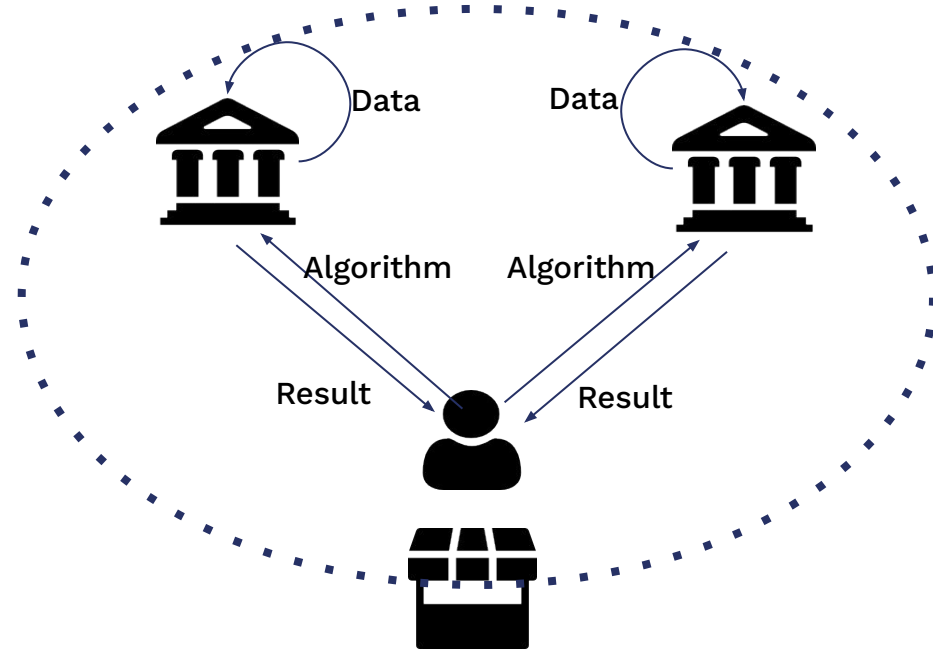
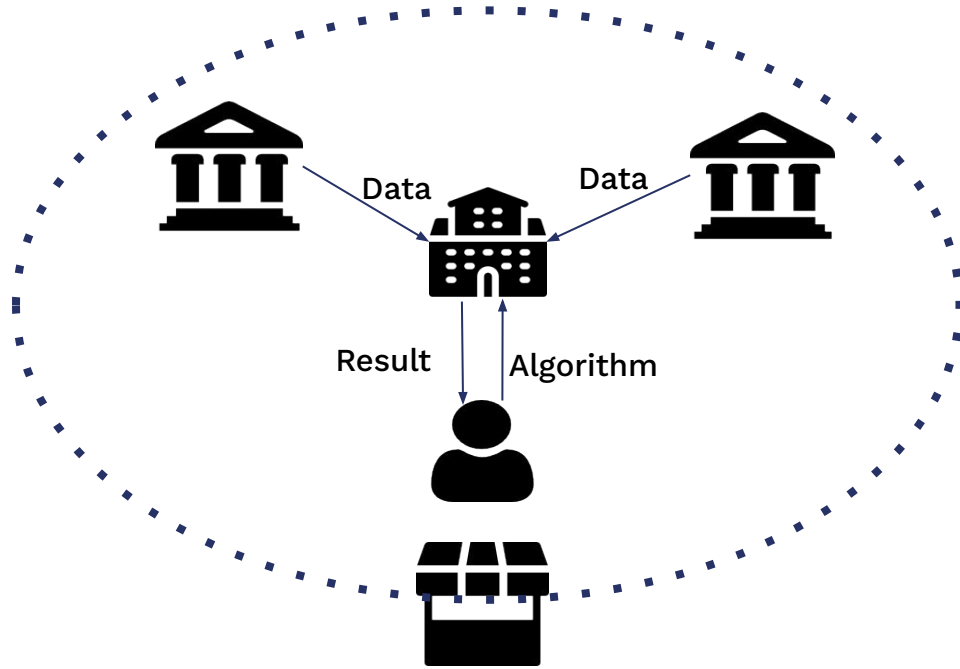
The microservices are composed by generating a
‘Microservice Chain’ which is checked with a
policy engine

Now we will show the 'data through a trusted
third party' archetype

DEMO



DEMO



We will send our algorithm request to a trusted
third party

There, university wage information data will be
collected, aggregated and returned

Next we will show that a this single request spins up containers on three different nodes

The single-use job will be deleted after completion

Now we will do the same request, but with the
'compute to data' archetype

Afterwards it shows how now different services
will be created only on each data provider

The results will be send back one by one