**AMOS IDS Requirements**

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**AWS Cloud**

* embed Kubernetes
* maintainable and scalable over time

**Kubernetes**

* deployable to AWS Cloud
* integratable with IDS Connectors

**Connectors**

* communication with other connectors

1. negotiate contracts
2. monitor data transfers
3. request data access

* communication with the metadata broker

1. communicate policies (permissions, prohibitions, obligations)

* communication with the identity provider

**Registration service**

* register new participants
* assign roles to participants

**Identity hub**

* provide identification
* provide authentication
* provide authorization

**Metadata Broker / Catalog**

* maintain meta data about all available data assets (data and its contract policies)

1. register new assets
2. provide meta data of the assets
3. update existing assets
4. delete removed assets

**Usage control**

* specify constraints

1. time
2. location
3. quantity