# Decentralized Access Control (DAC) in C4lloT

## $\odot$ Taking a $hybrid\ approach$ for handling data

Enjoying the benefits of both blockchain end encryption

- Blockchain provides immutability ("system of proofs") and transparency
- Encryption provides secrecy, privacy and is scalable

### O Utilizing Attribute-Based Encryption (ABE)

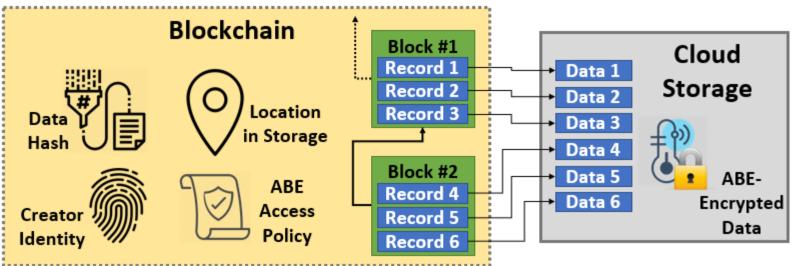
- Control and restrict access to data using privacy-aware policies
- Mechanism with **decentralized** nature

## $\odot$ Utilizing Hyperledger Fabric

• Enable **auditability** of events and policies, **integrity** of data



(role:analyzer AND purpose:security\_anomaly\_detection) OR (purpose:data\_visualization AND domain:sensor\_readings) OR ((role:admin OR role:supervisor) AND org:IBM)



#### Aiming at enabling privacy principles

- Purpose limitation
- Data minimization
- Storage limitation
- Integrity and confidentiality
- Accountability