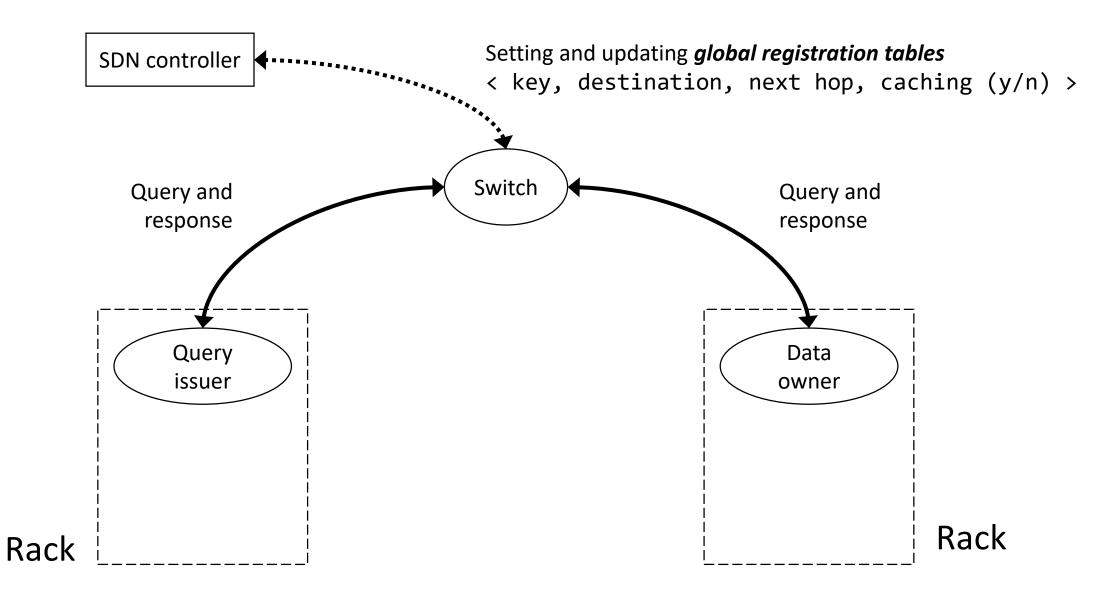
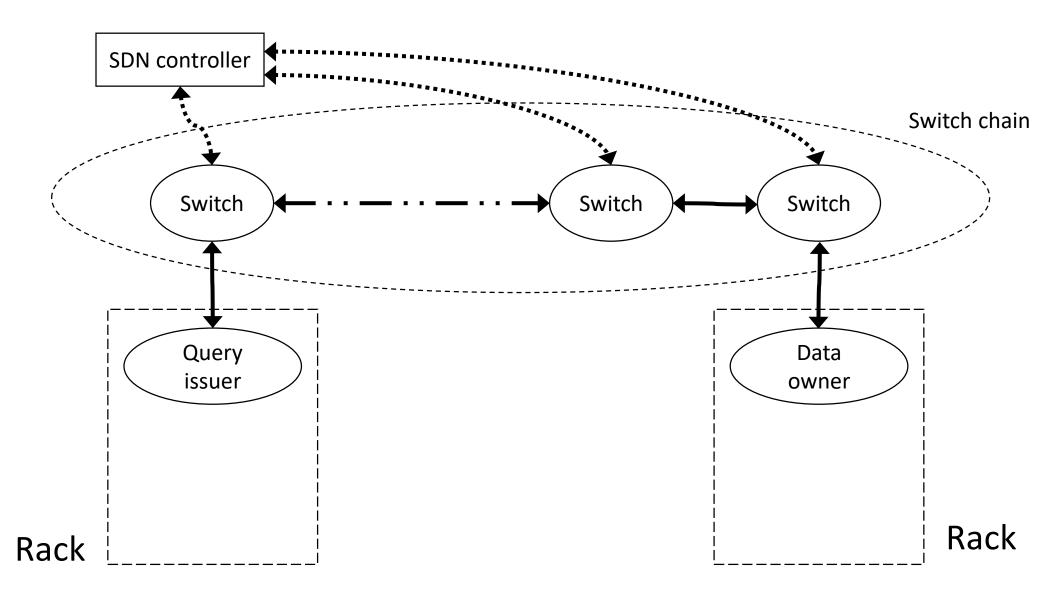
IncBricks: basic topology and entities

In-network caching system



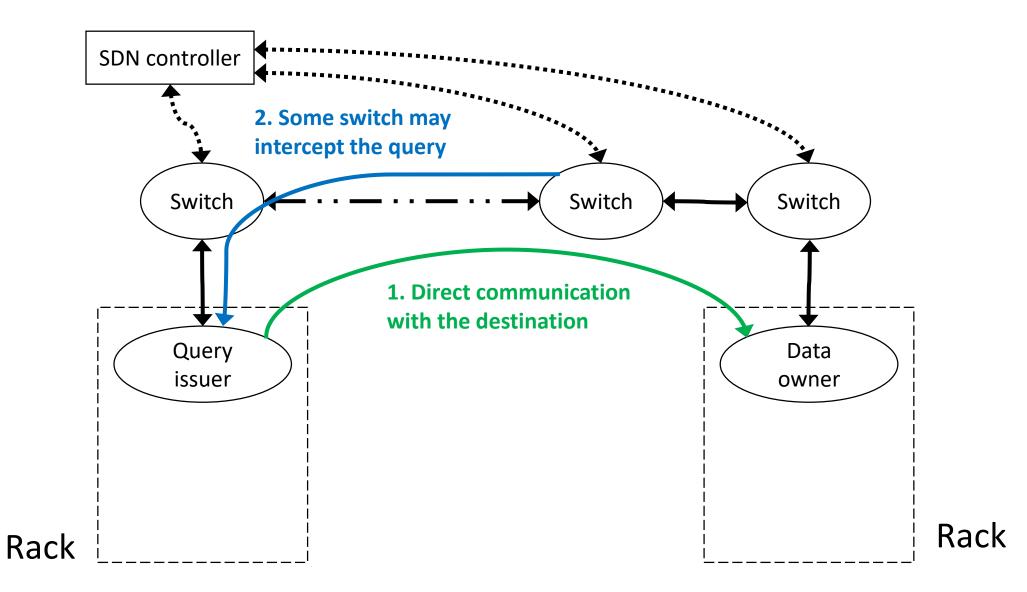
IncBricks: extended topology

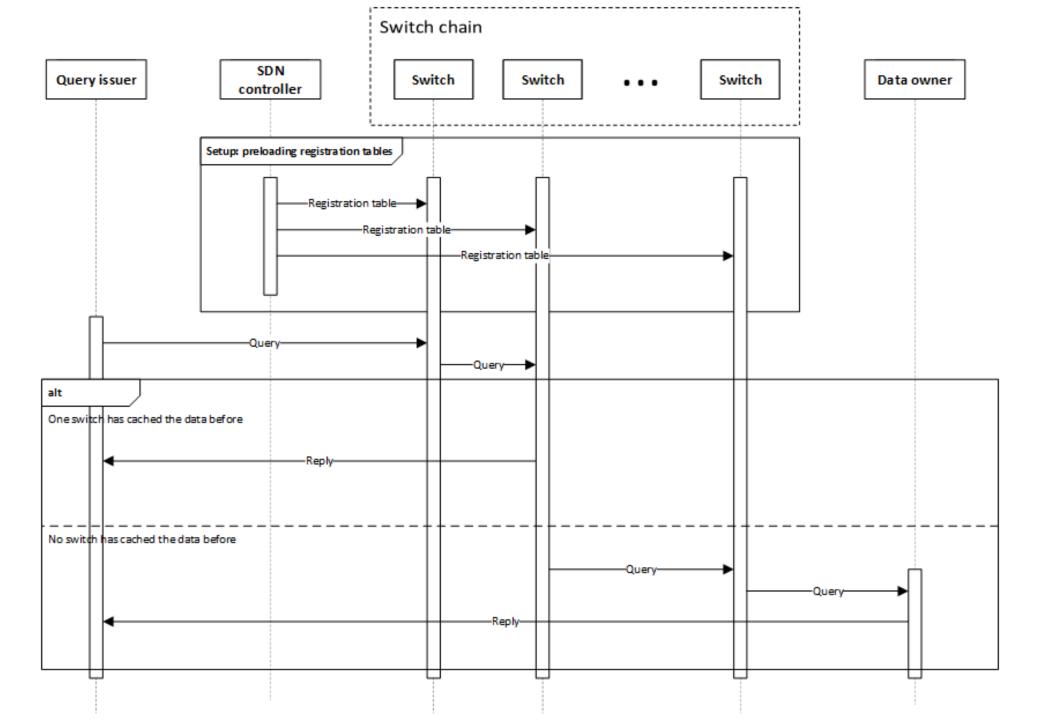
In-network caching system



IncBricks: logical communication pattern

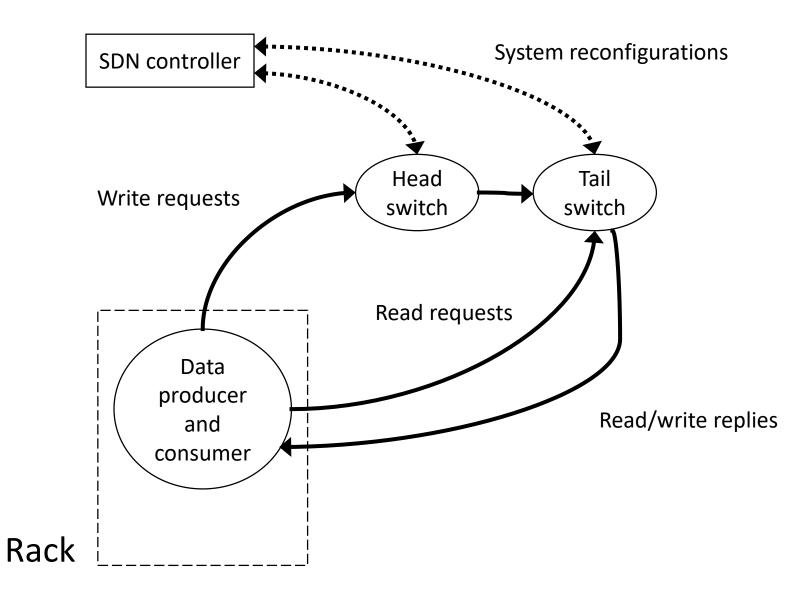
In-network caching system





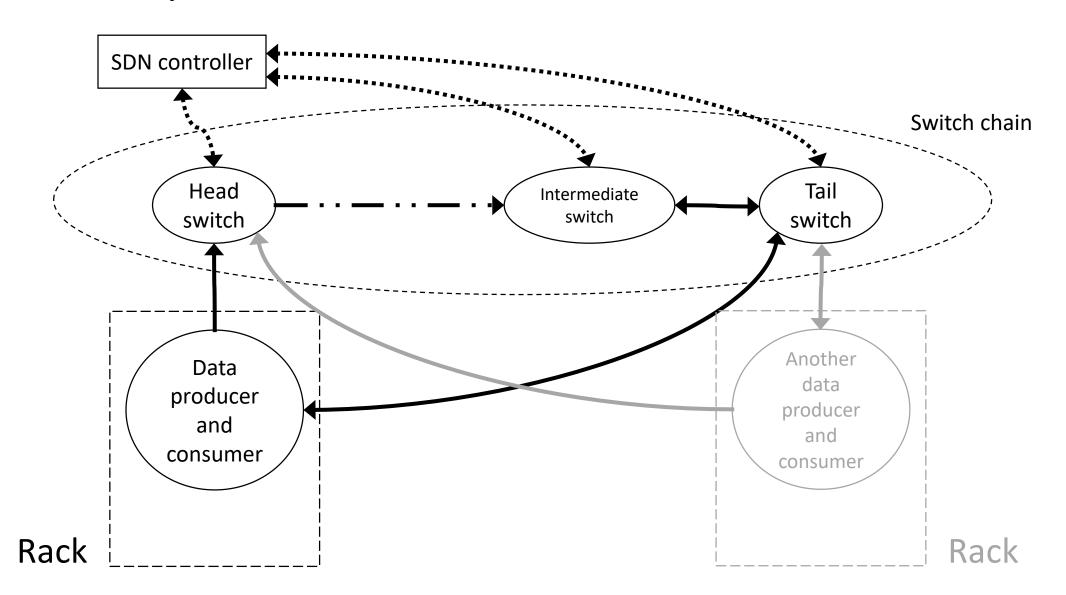
NetChain: basic topology and entities

In-network solution for coordination services



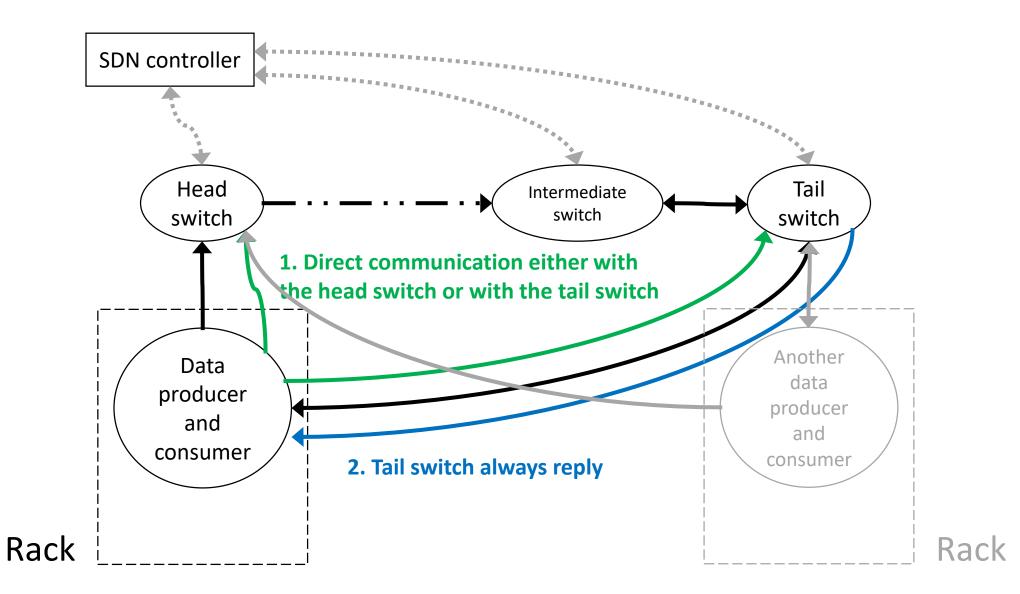
NetChain: extended topology

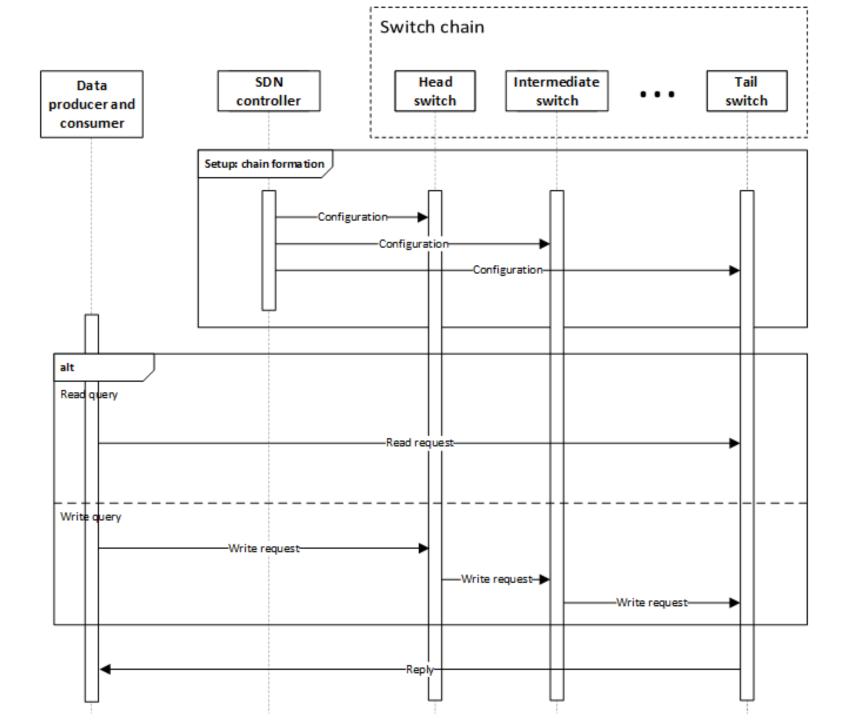
In-network solution for coordination services



NetChain: logical communication pattern

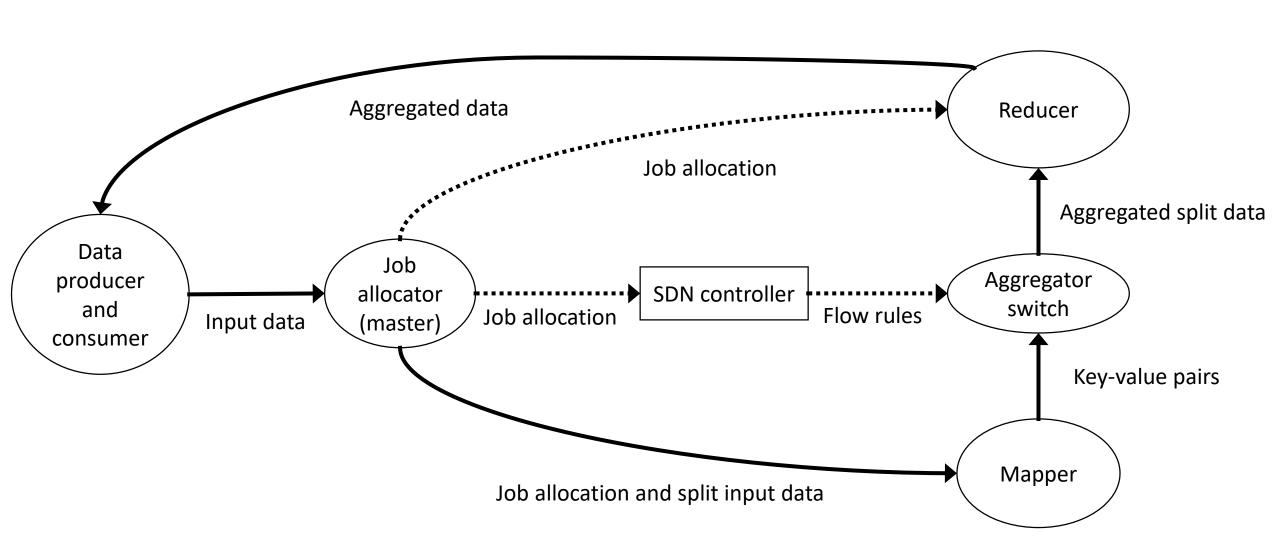
In-network solution for coordination services



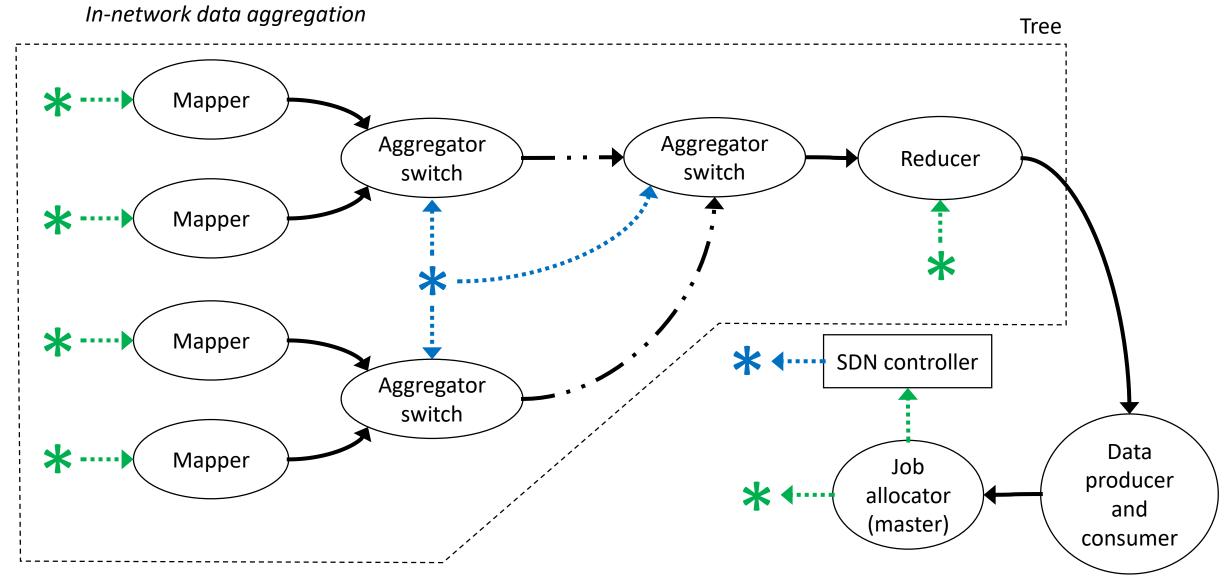


Daiet: basic topology and entities

In-network data aggregation

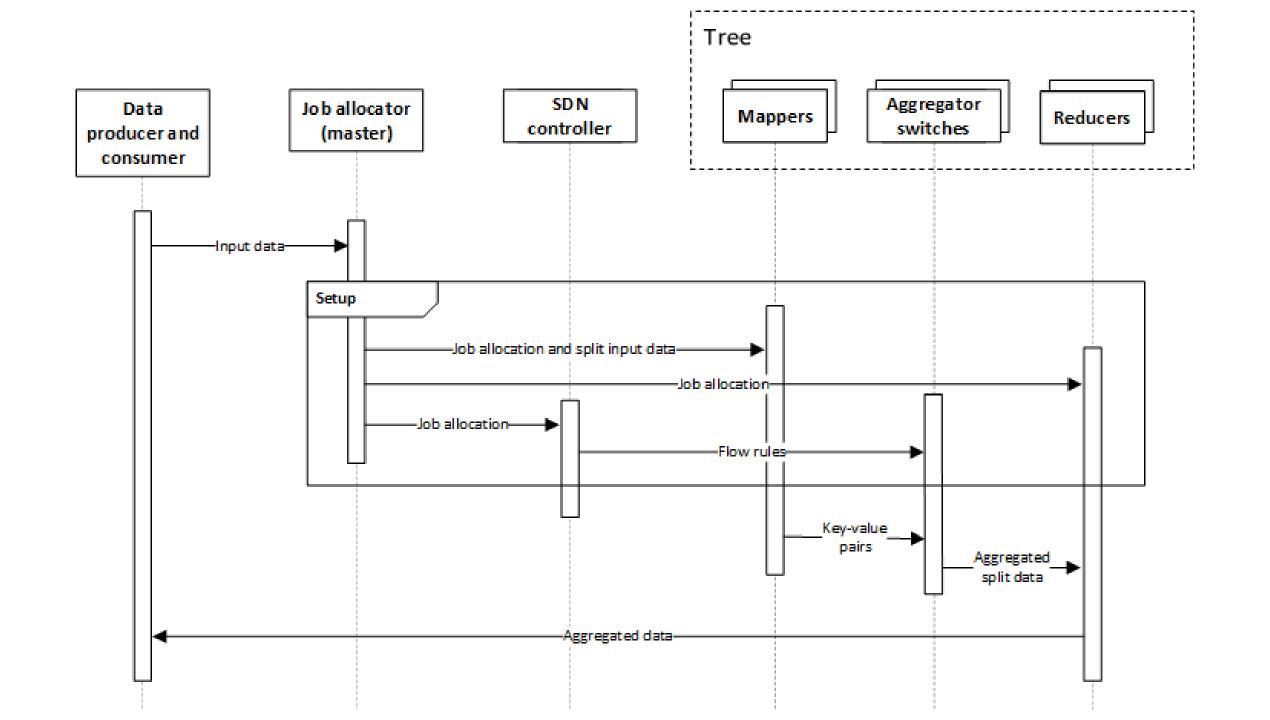


Daiet: extended topology



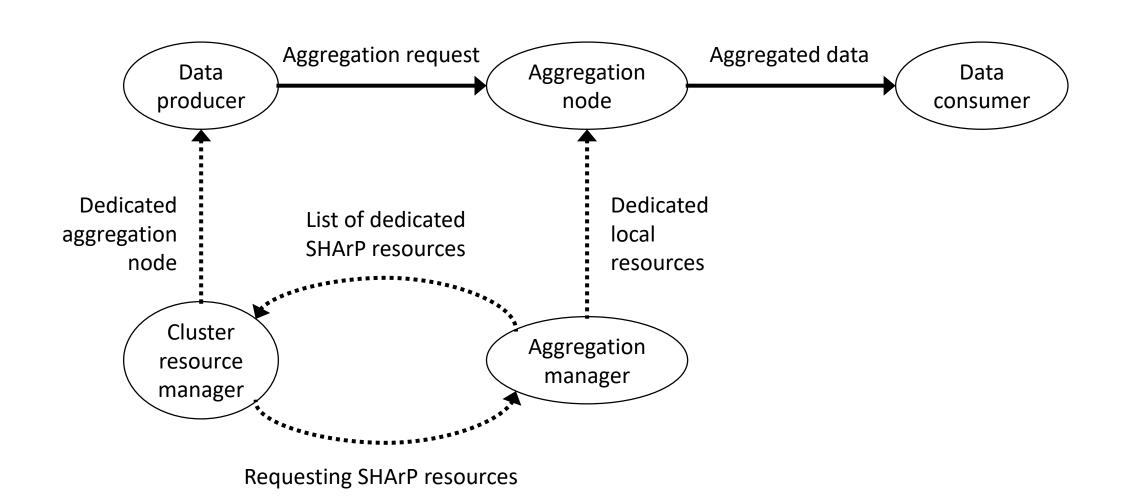
Daiet: logical communication pattern

In-network data aggregation 3. Aggregated data is returned to the client 2. Data is partitioned and aggregated Mapper Aggregator Aggregator Reducer switch switch Mapper Mapper SDN controller Aggregator switch Data Mapper Job producer allocator and (master) consumer 1. Client sends data



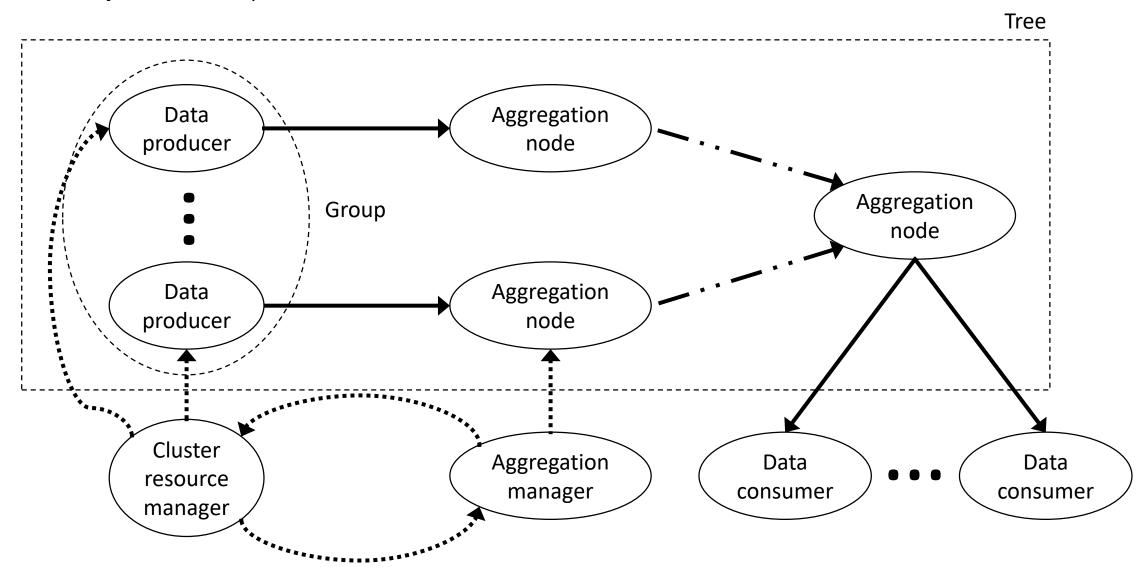
SHArP: basic topology and entities

Protocol for reduction operations



SHArP: extended topology

Protocol for reduction operations



SHArP: logical communication pattern

Protocol for reduction operations

