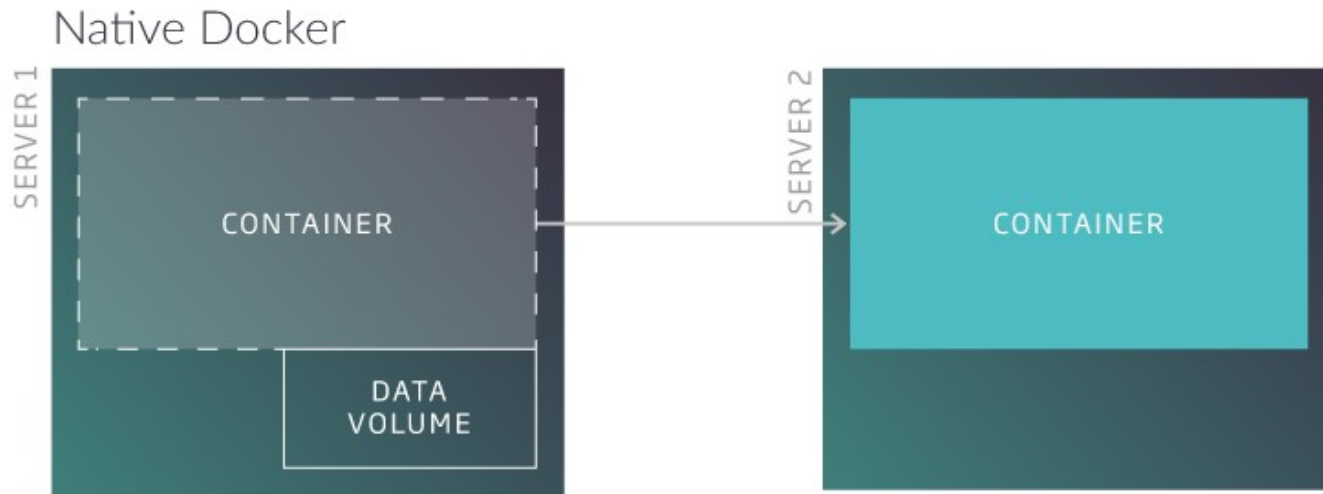


Flocker

tao.shen@transwarp.io

Data volume loses when container migration

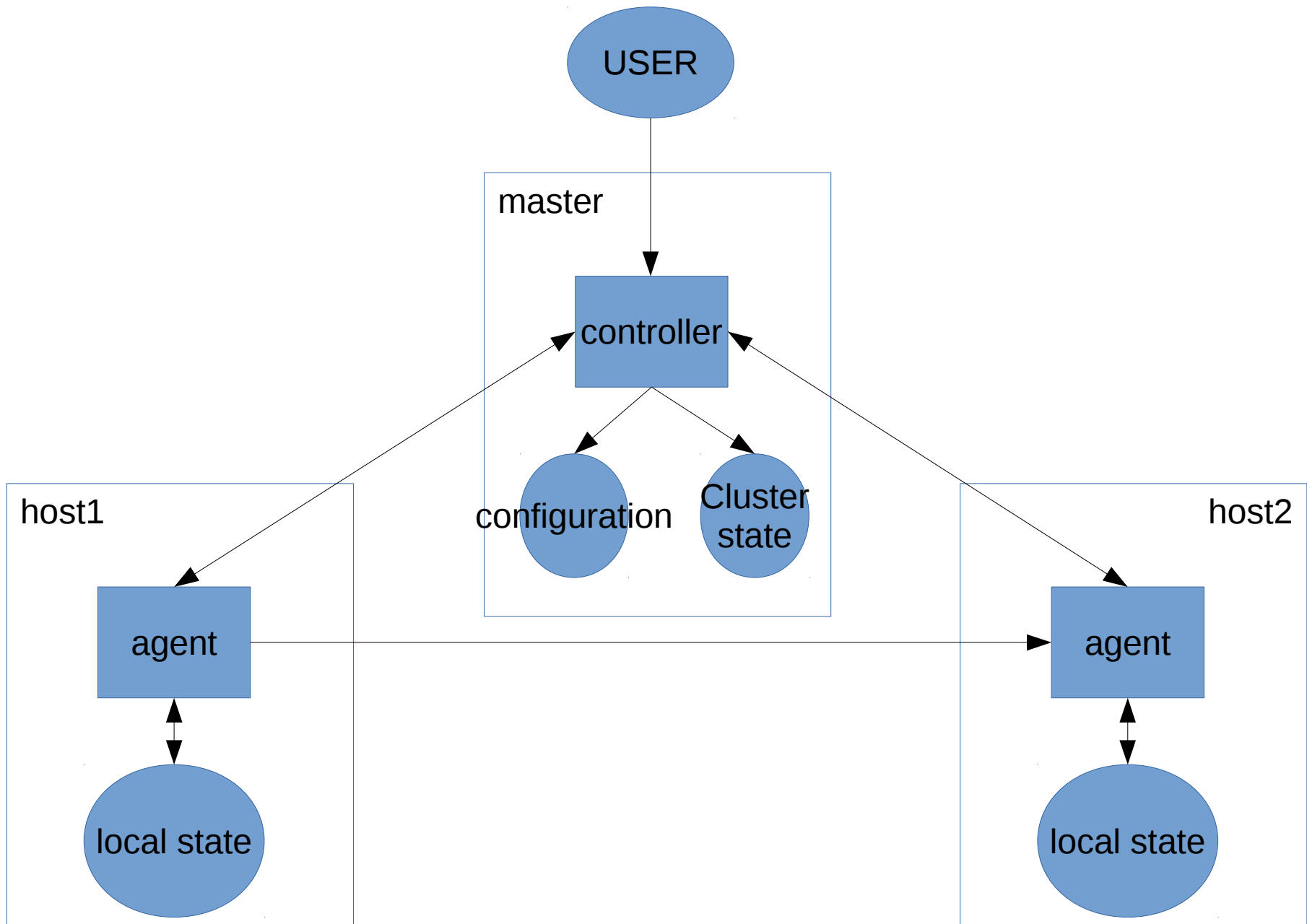


When container moves, its data volume stays in place.
Database starts on new server without any data.

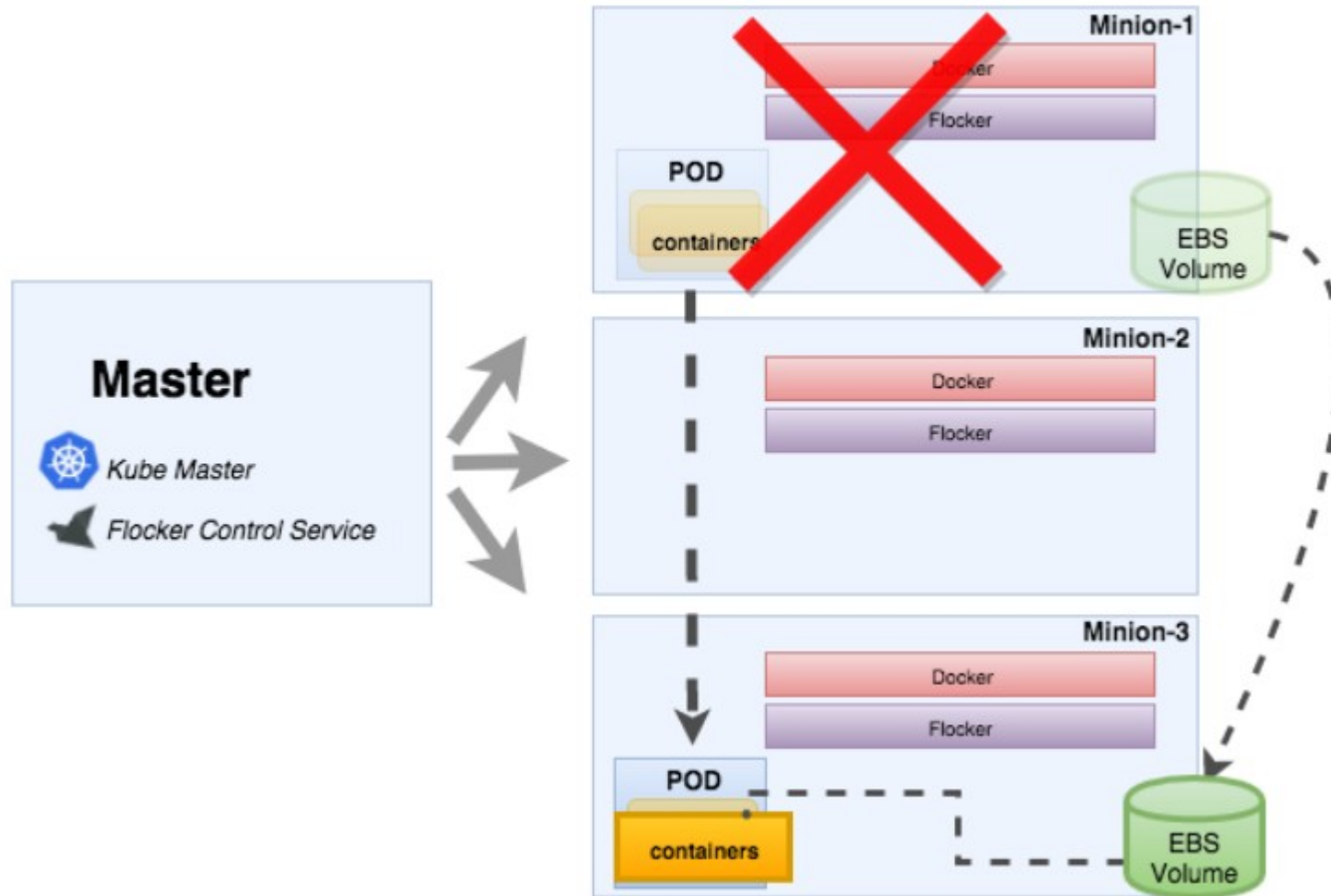


When container moves, data volume moves with it.
Your database gets to keep its data!

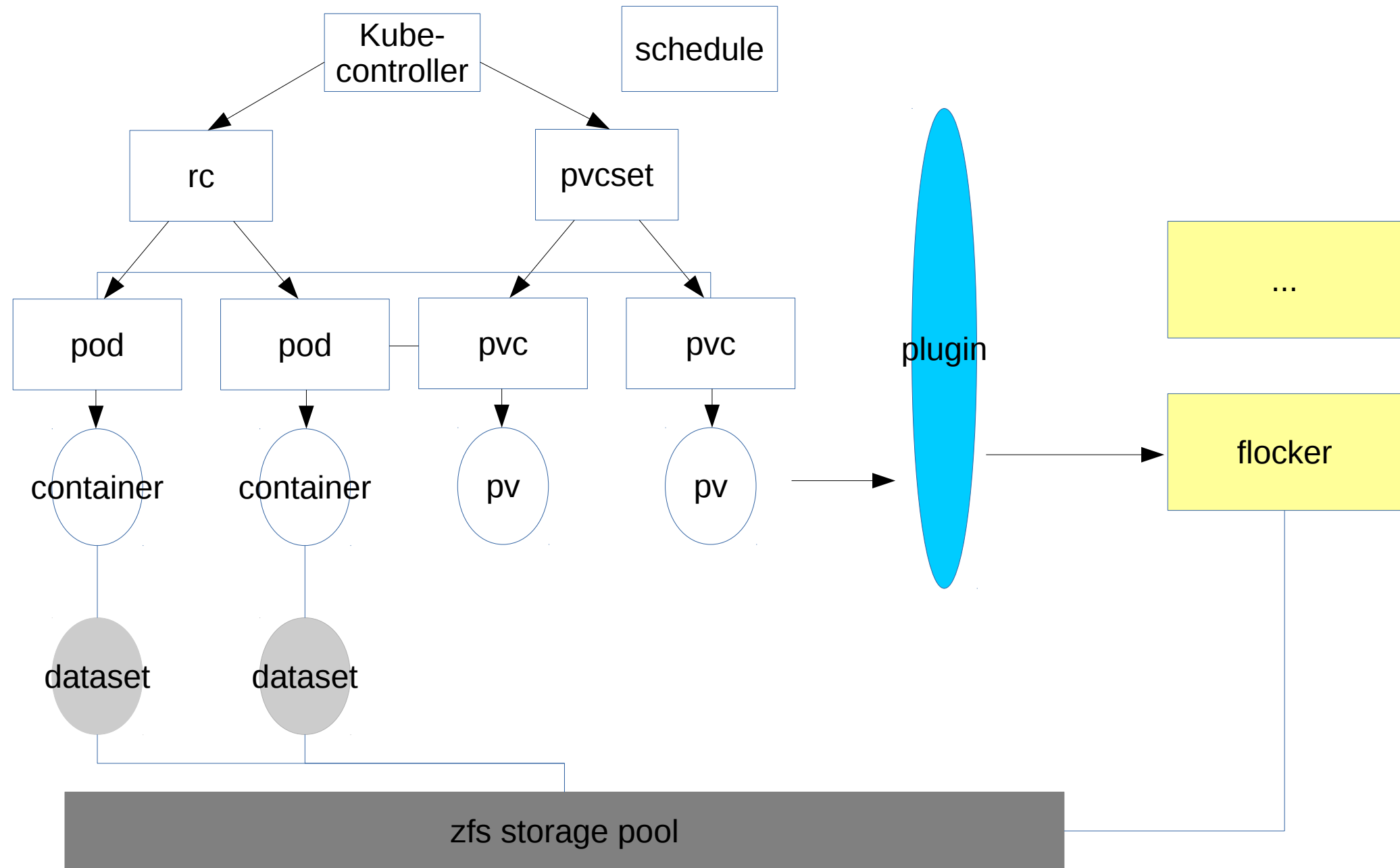
Flocker framework



Kubernetes pv migration



Kubernetes-pv + flocker + zfs



Flocker dataset migration

- Flockerctl command line
- Restful api
- Configuration and state

Zfs dataset migration

- Dataset_name

flocker-silver/2facc2e1-fe8b-4293-8e82-30799e7f70cd.default.05116246-f324-4824-bc23-36ecf141993d

↓
Storage-type

↓
node_uuid

↓
namespace

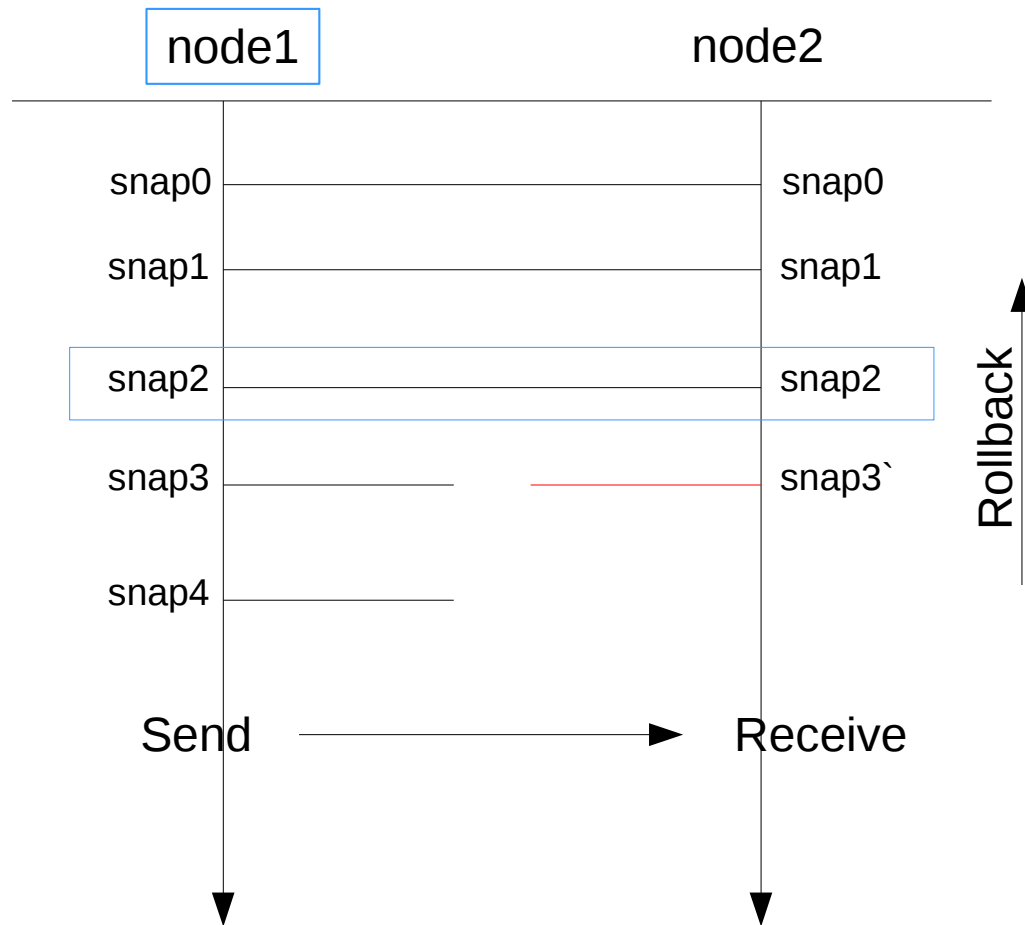
↓
dataset_uuid

- Migration

step	node1	node2
1. create dataset in node1	type/node1.ns.dataset	
2. send from node1 recv in node2	type/node1.ns.dataset	type/node2.ns.dataset
3. rename dataset in node1	type/node2.ns.dataset	type/node2.ns.dataset

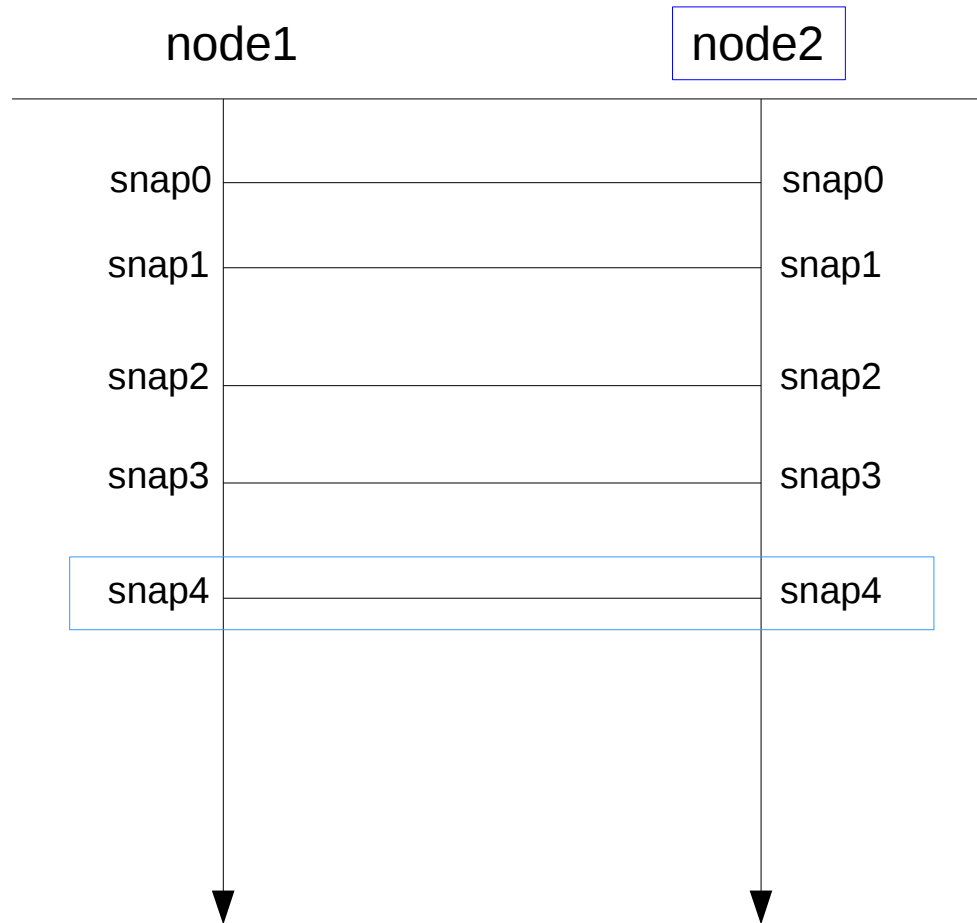
Zfs dataset migration

- Snapshot



Zfs dataset migration

- Snapshot



Question?