

0 to 1

From code to running containers at scale

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Journey

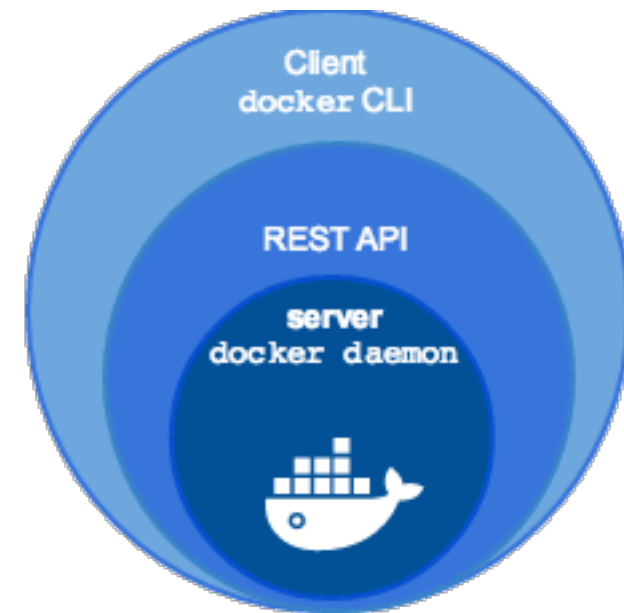
- Build an awesome app
- Containerize it
- Create machines (virtual / physical)
- Deploy container to machines
- Scale it
- Profit : \$\$\$

Container Cluster Management/ Orchestration tools

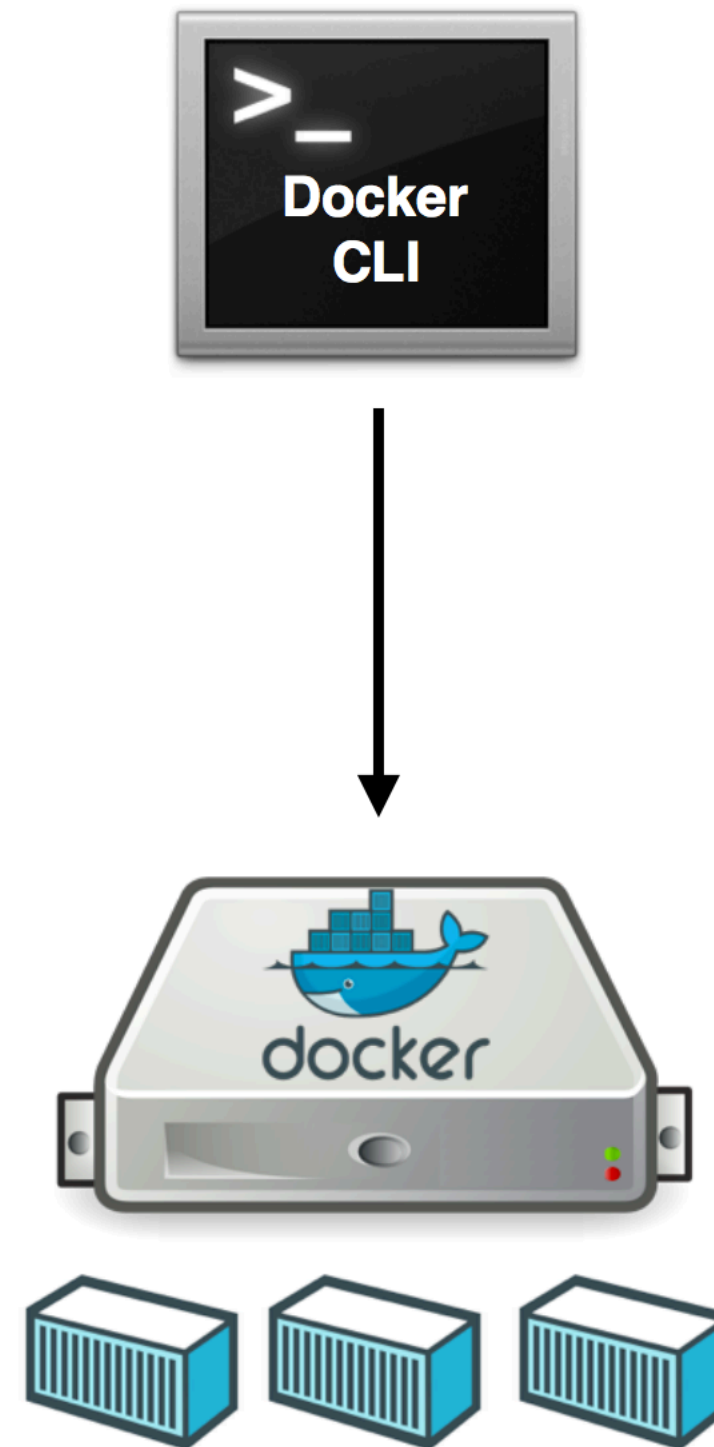
- Docker Swarm
- Kubernetes
- Apache Mesos
- CoreOS Fleet

Docker Engine

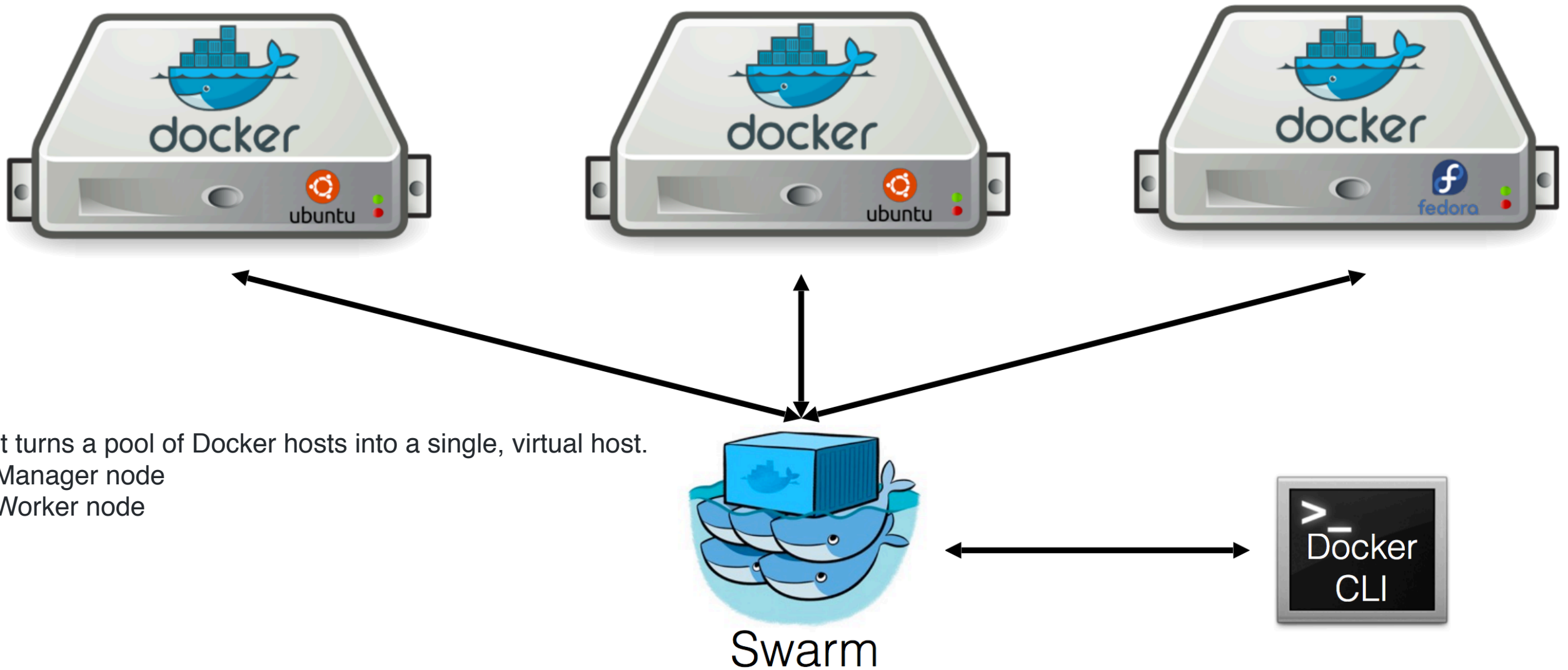
- client-server application:
- Docker daemon (server)
- REST API for interacting with daemon (server)
- CLI that talks to daemon (client)



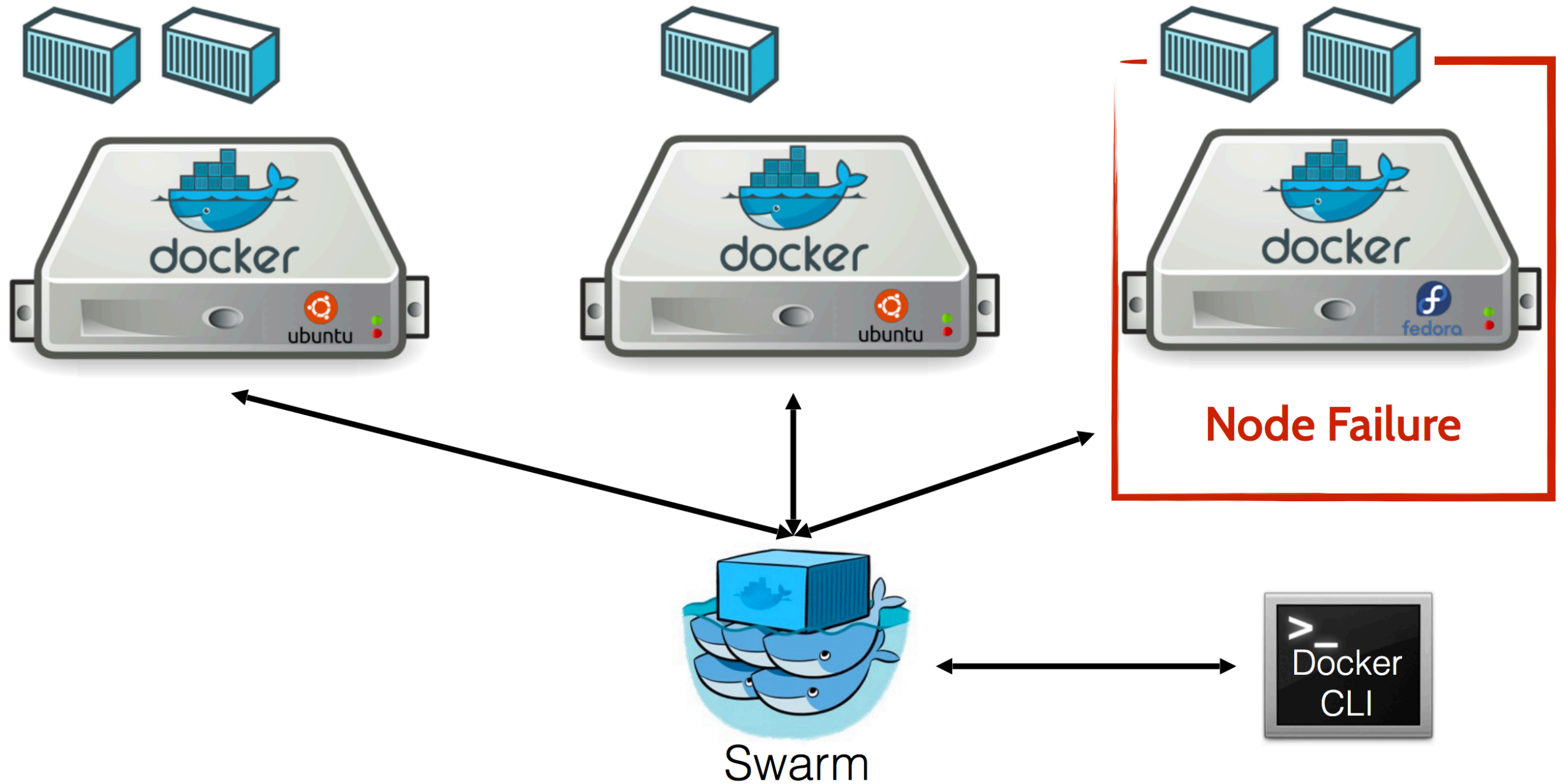
Single docker engine



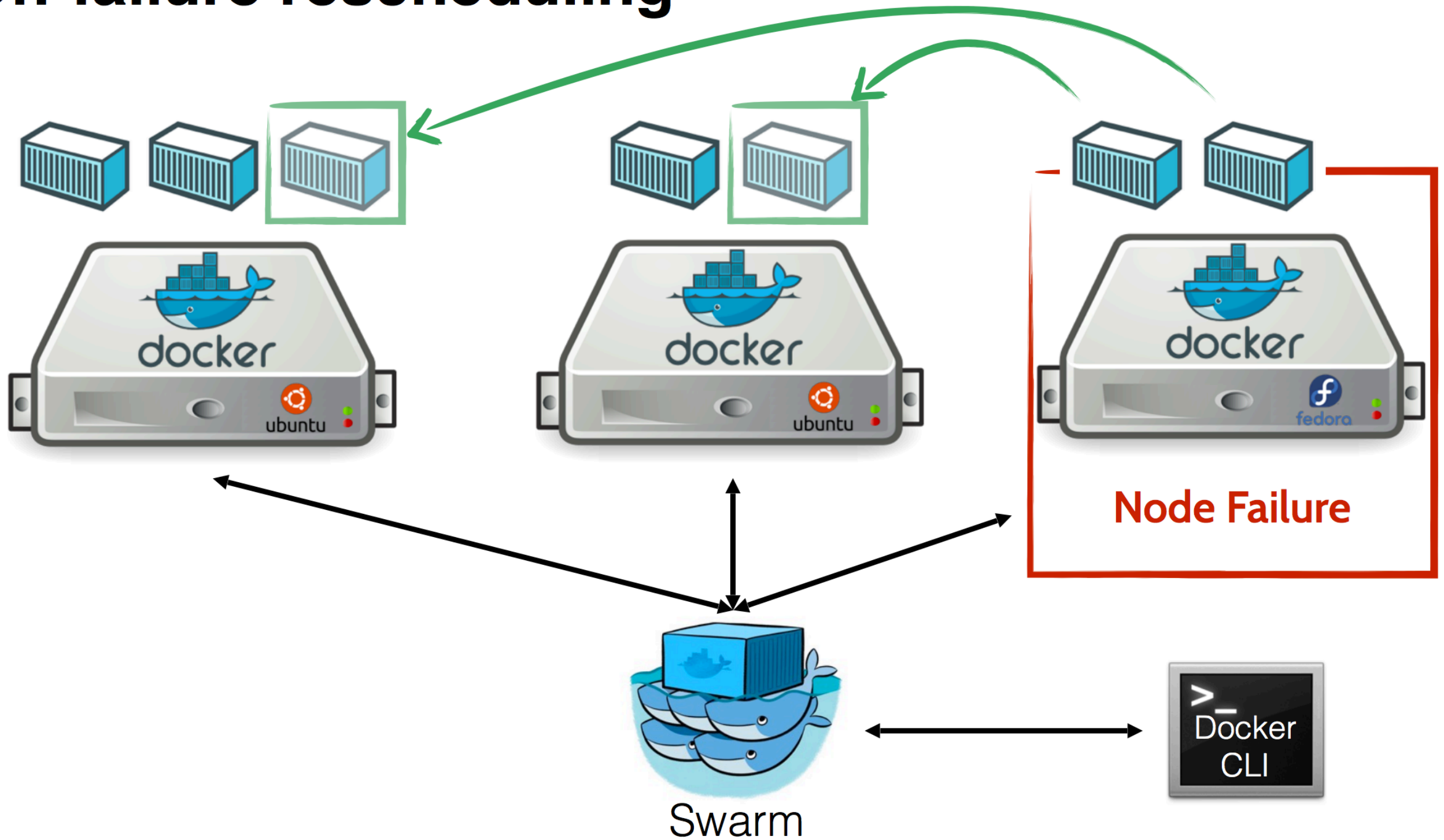
Docker Swarm



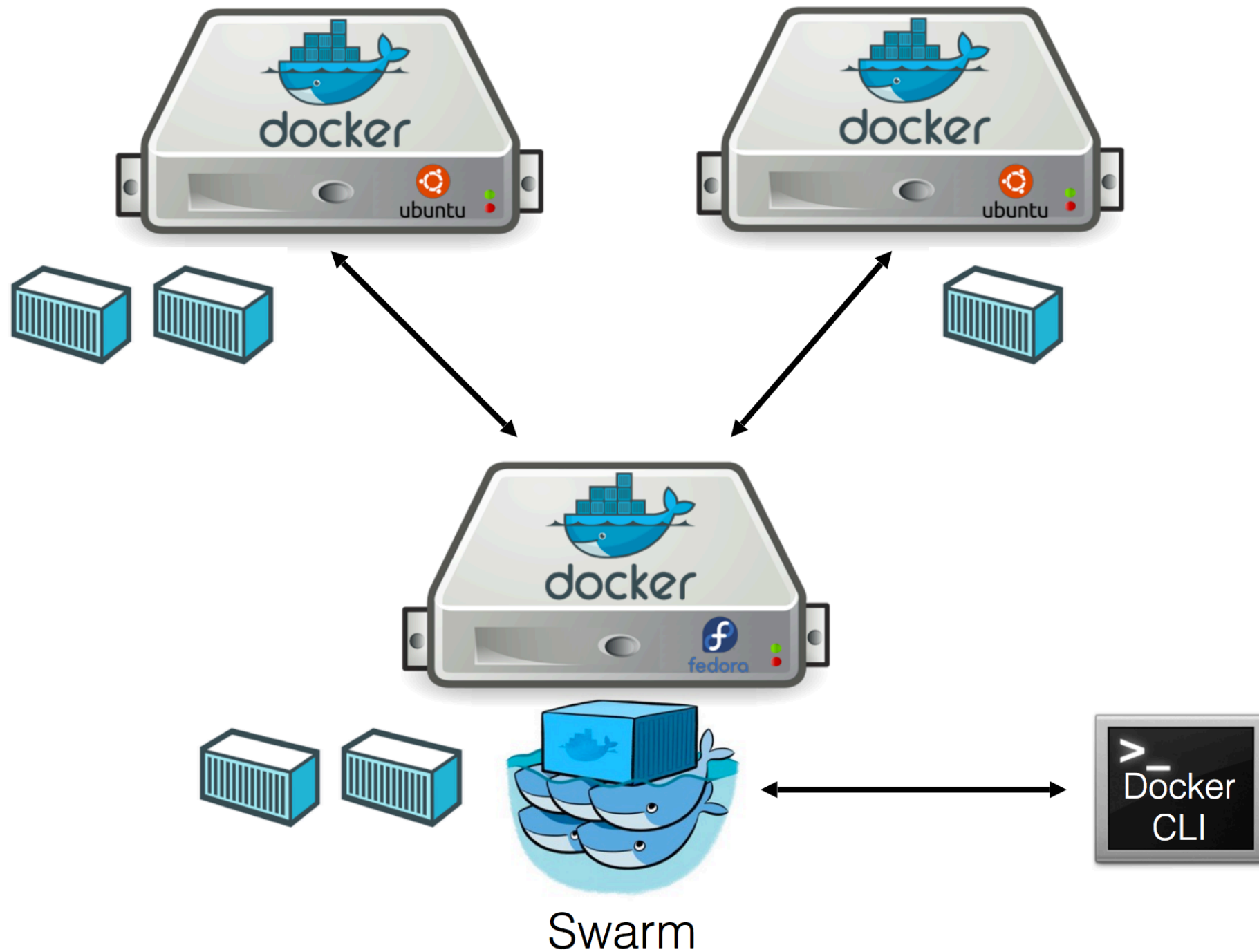
On-failure rescheduling

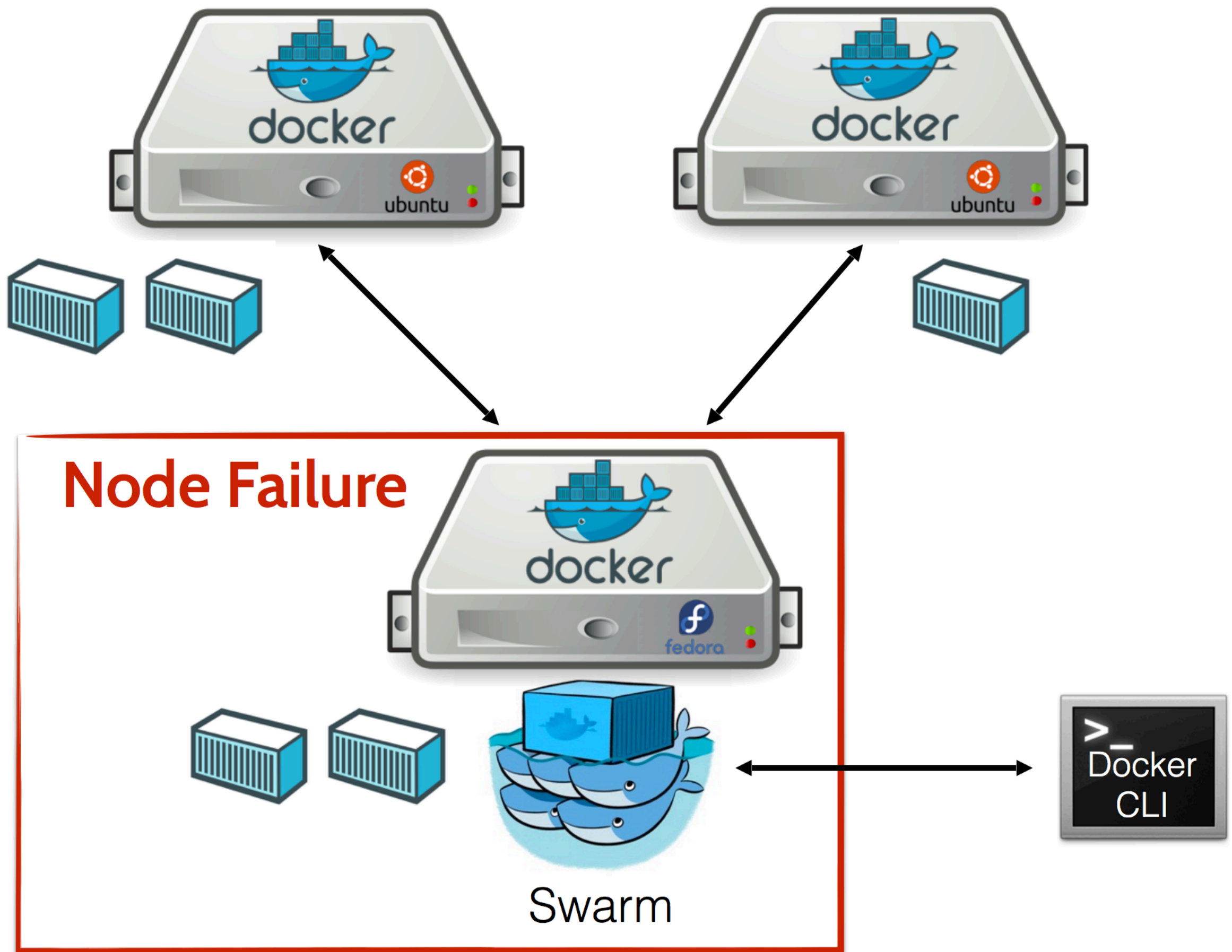


On-failure rescheduling

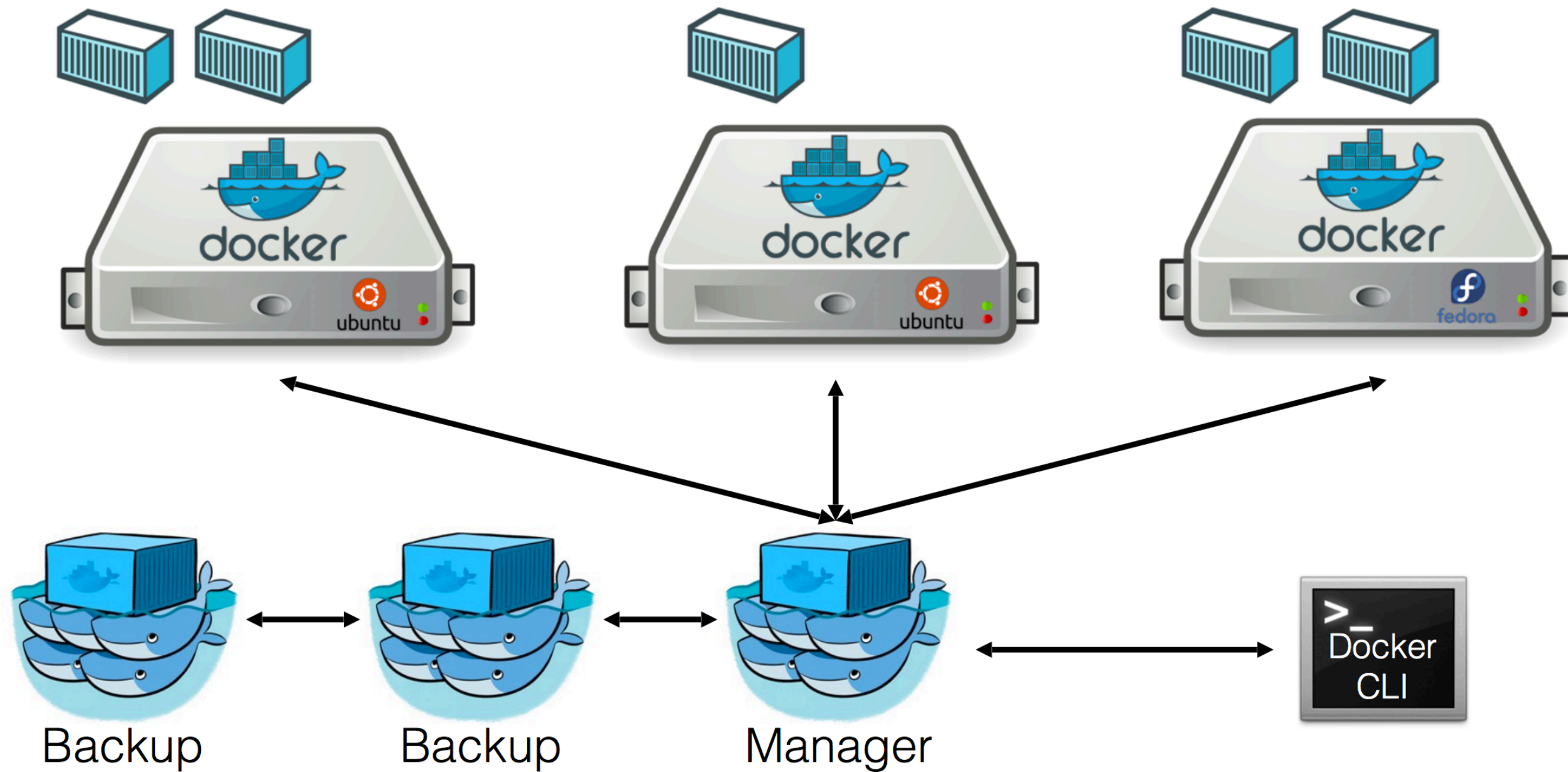


High Availability

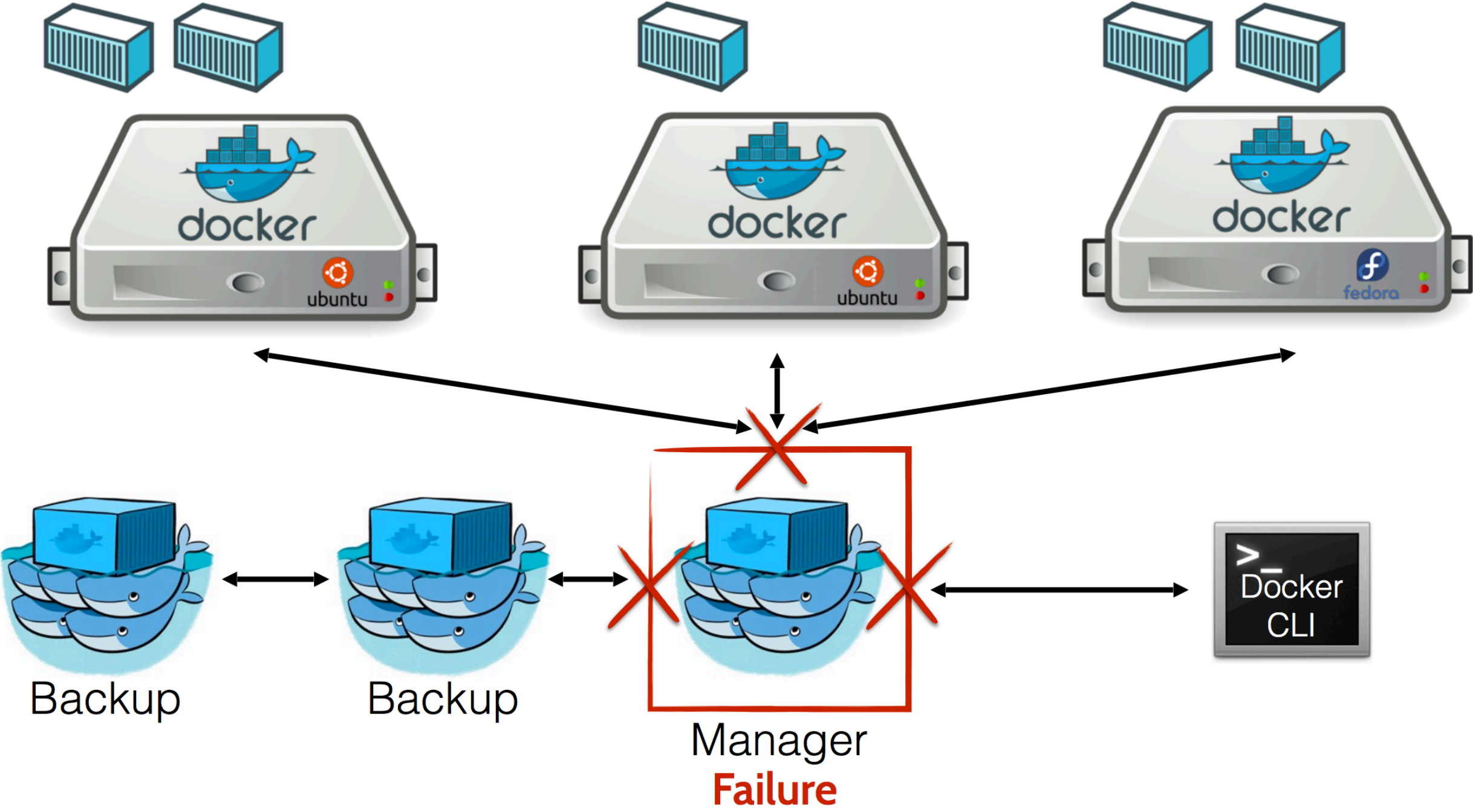




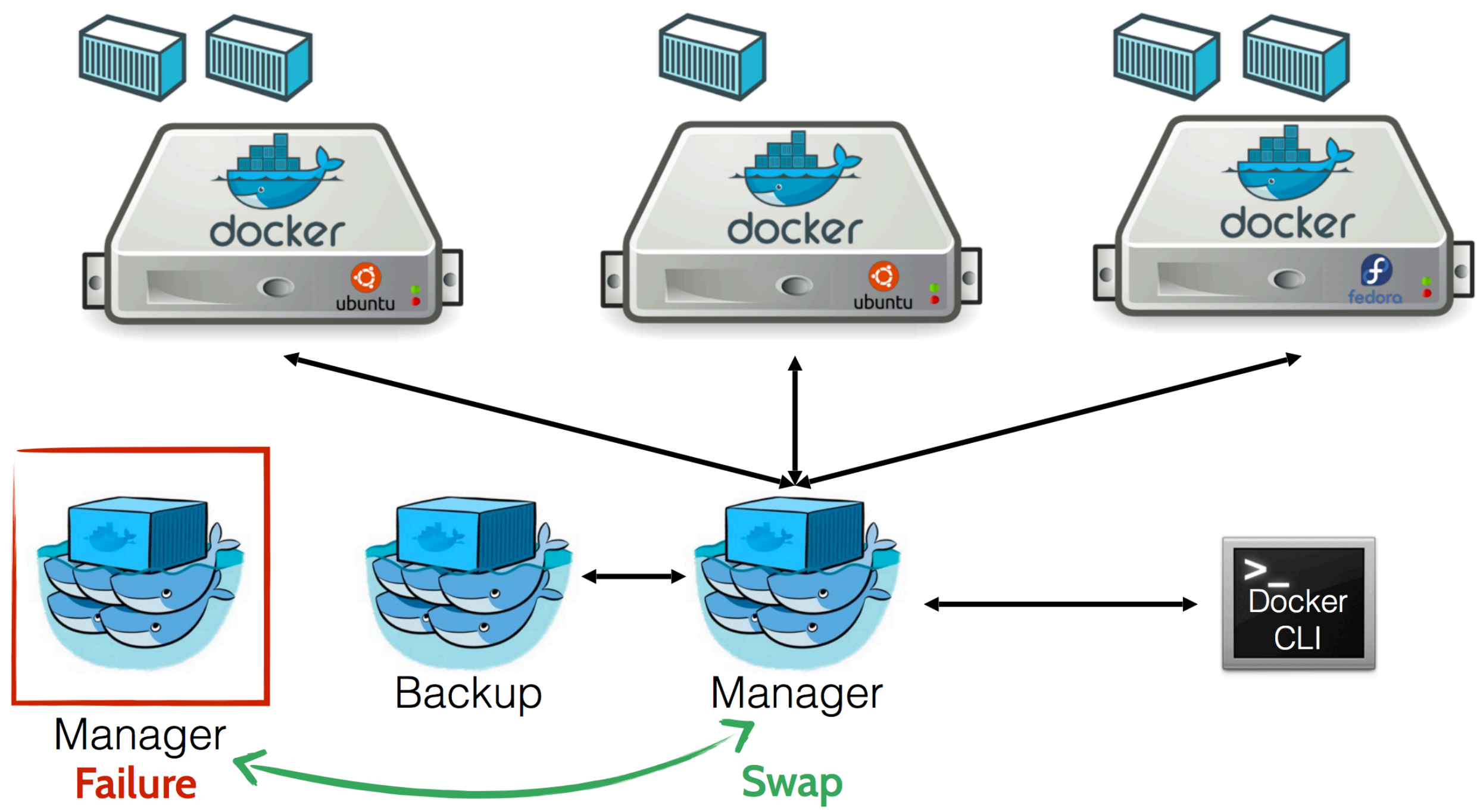
Manager backup instances



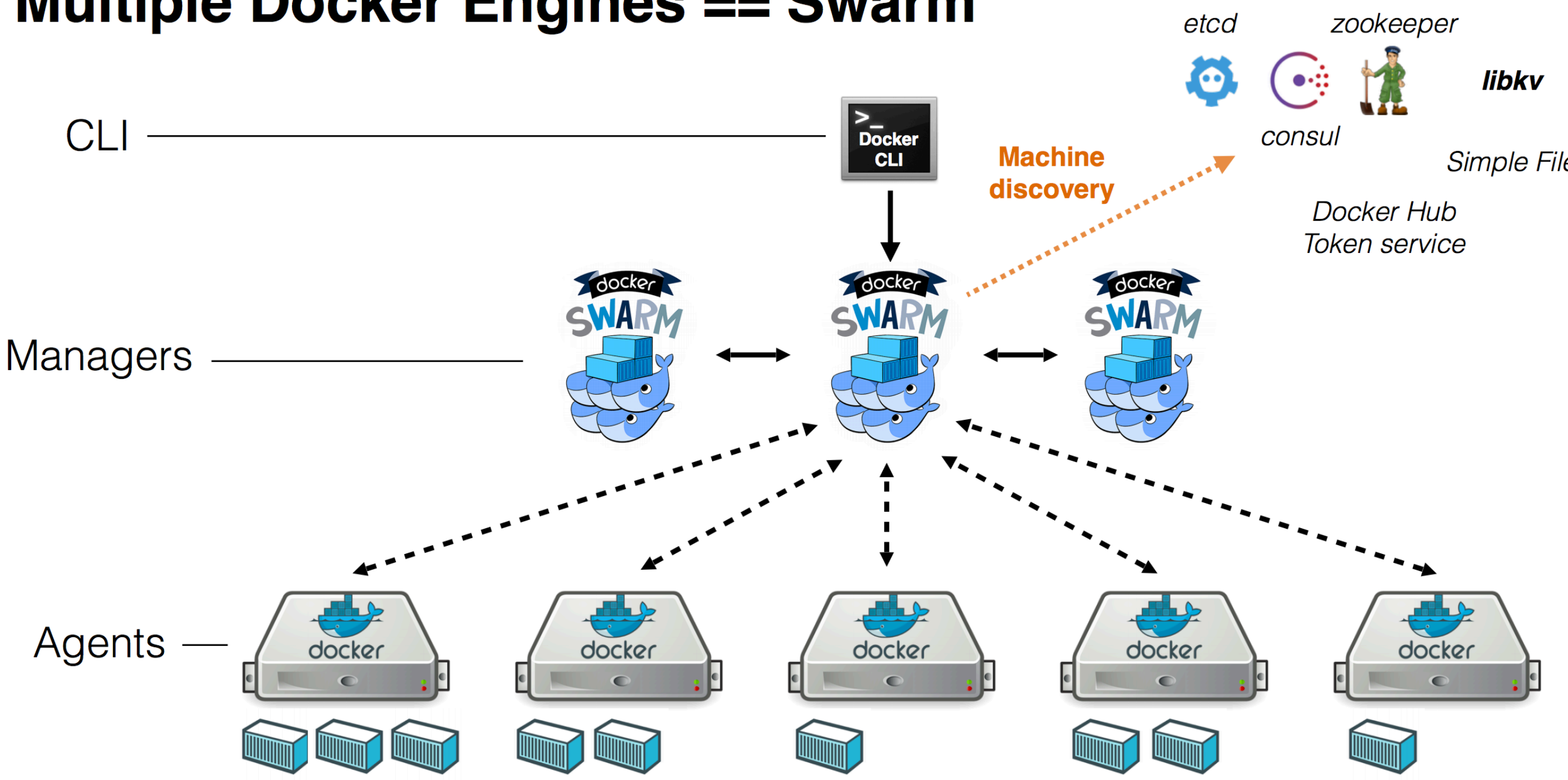
Manager backup instances



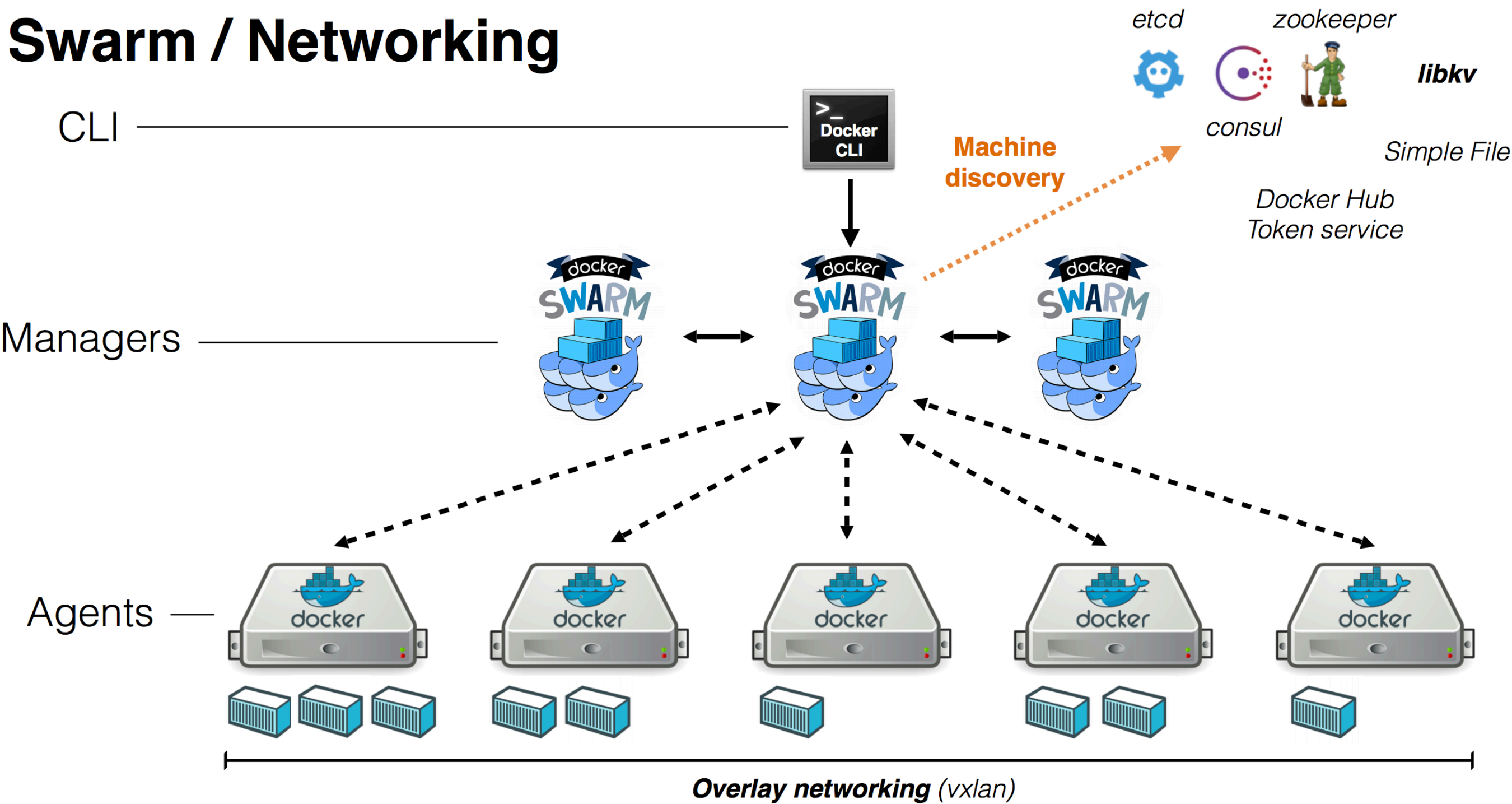
Manager backup instances

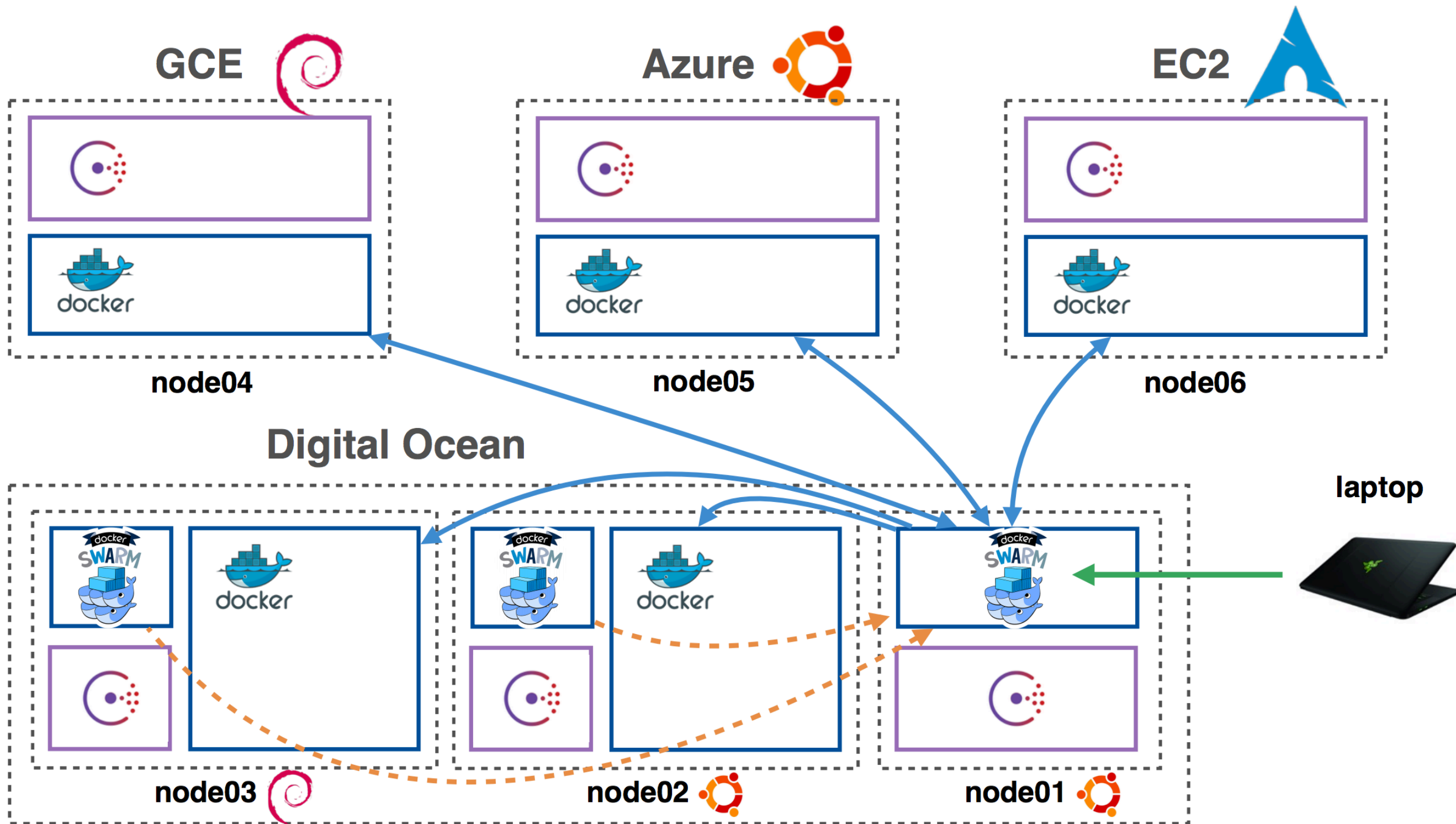


Multiple Docker Engines == Swarm



Swarm / Networking

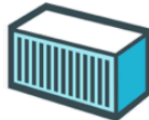




GCE

Azure

EC2



node04

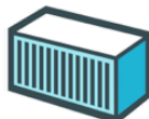
node05

node06

Digital Ocean

overlay-1

laptop

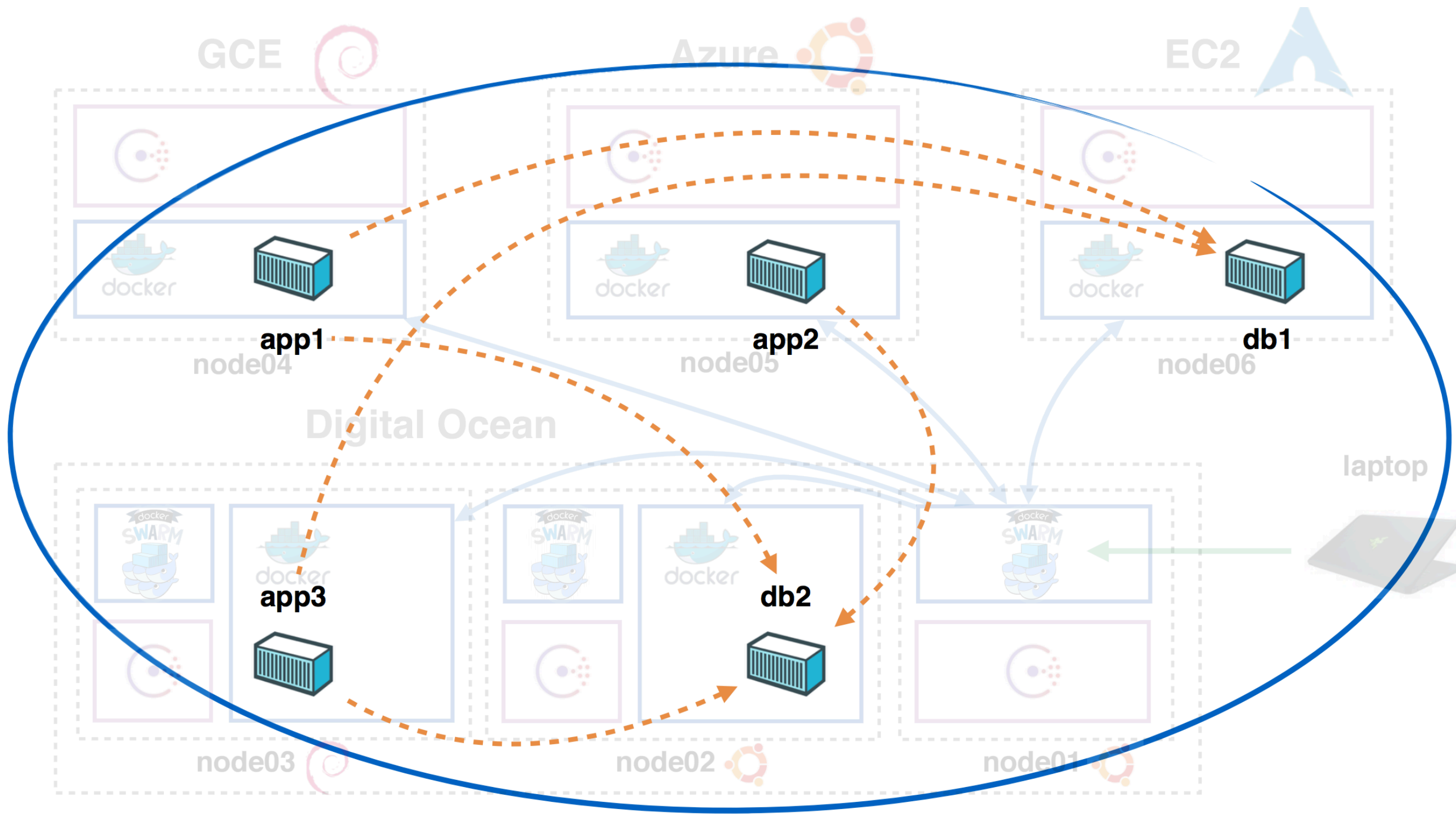


node03

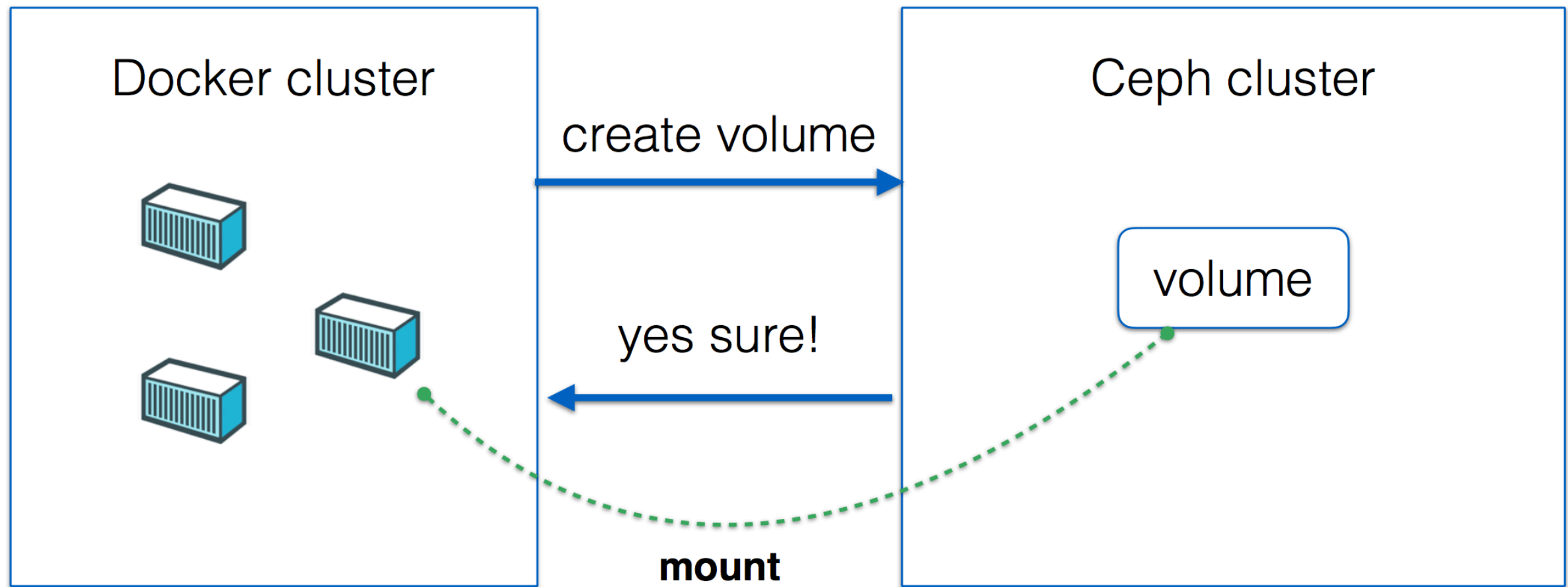
node02

node01





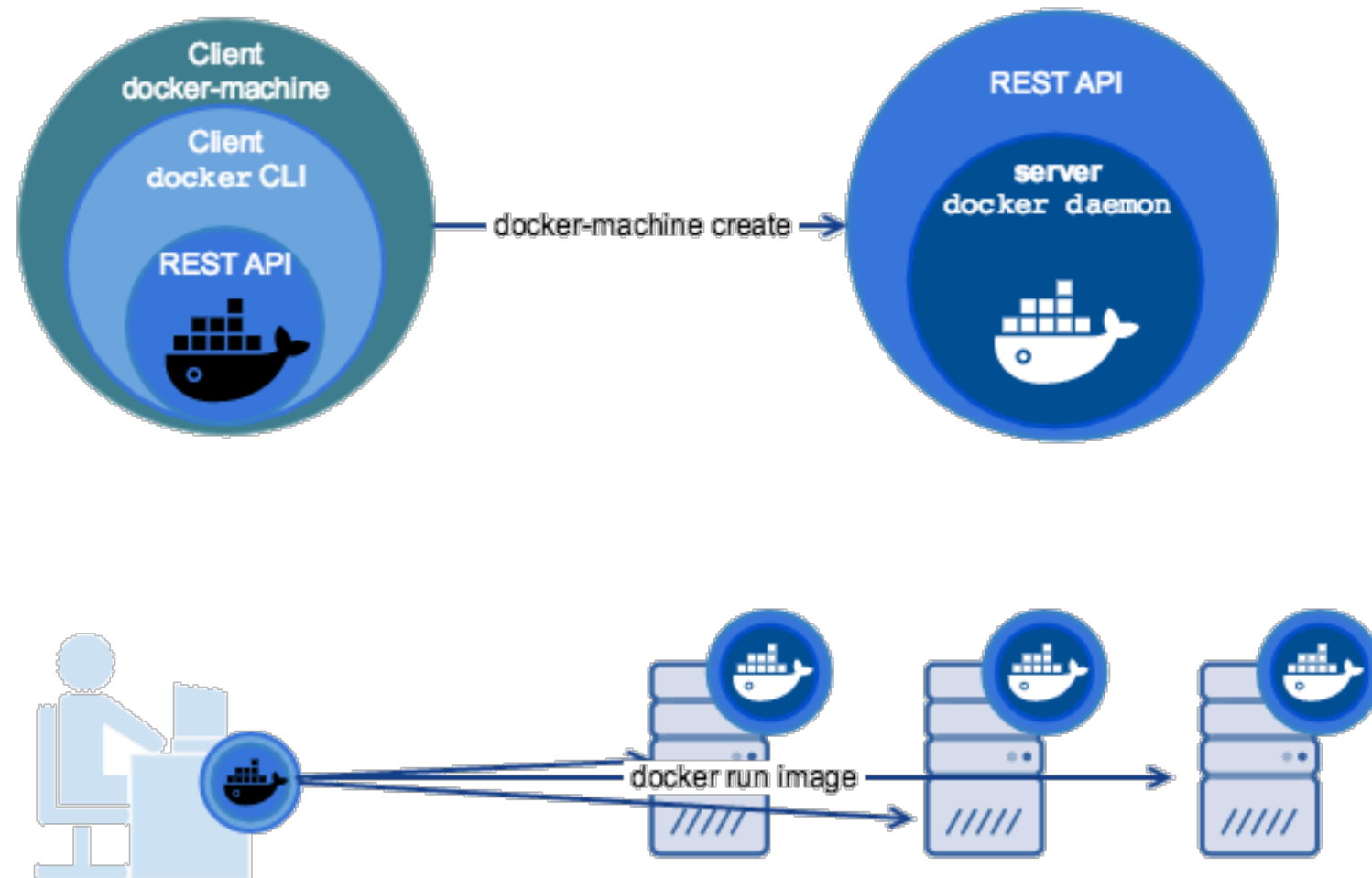
Volume Plugins



Docker Machine

- Install and run Docker on Mac or Windows
- Provision and manage multiple remote Docker hosts
- Provision Swarm clusters

- [Amazon Web Services](#)
- [Microsoft Azure](#)
- [Digital Ocean](#)
- [Exoscale](#)
- [Google Compute Engine](#)
- [Generic](#)
- [Microsoft Hyper-V](#)
- [OpenStack](#)
- [Rackspace](#)
- [IBM Softlayer](#)
- [Oracle VirtualBox](#)
- [VMware vCloud Air](#)
- [VMware Fusion](#)
- [VMware vSphere](#)



Back to Journey - Demo

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Thank you.

Pictures are from:

<https://www.slideshare.net/Docker/docker-swarm-020>

<https://docs.docker.com/machine/overview/#where-to-go-next>

<https://www.slideshare.net/Docker/docker-online-meetup-28-productionready-docker-swarm>