

BeeGFS and Bacula Enterprise, Dockerized

Reiner Jung

Who are we?

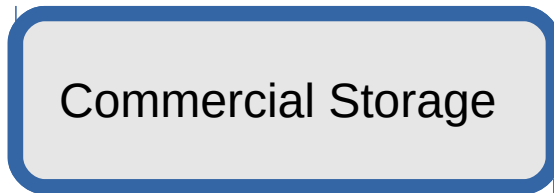
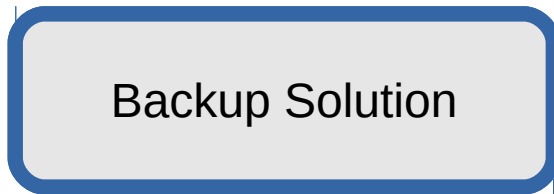
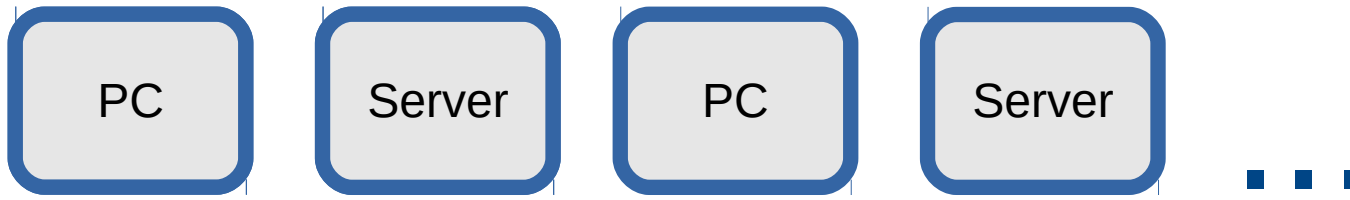
Consultants &
Developers &
Trainer

Strong Linux
and BSD
background

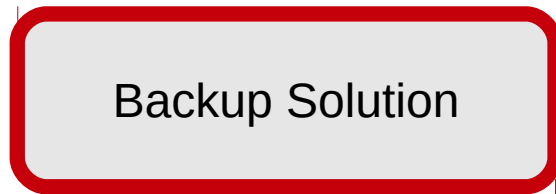
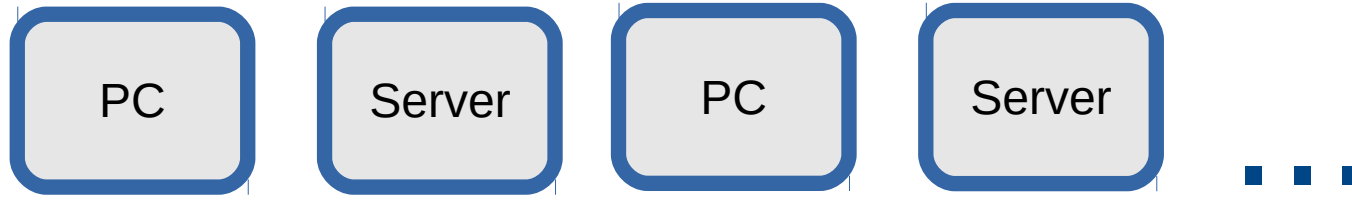
An “new” use
case for
BeeGFS

Project was
started in
2014

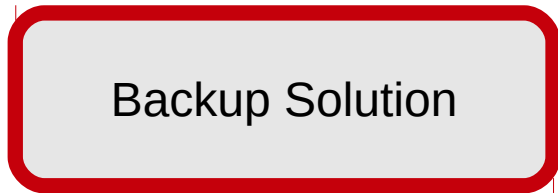
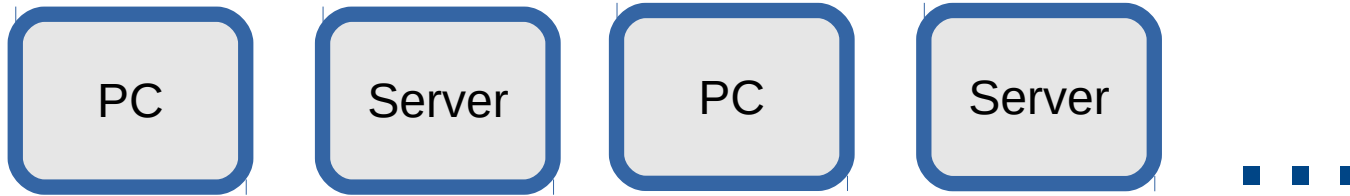
Initial project
scope ->



~ 500 Systems
> 1PB Data



**New backup
solution,
Replace existing
storage**



Bacula

What is
Bacula?

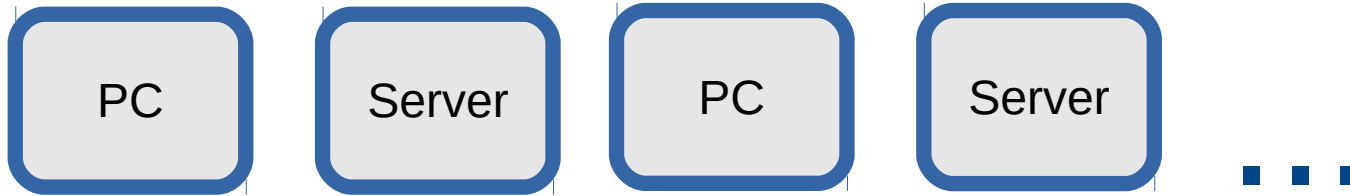
Enterprise
Backup

Multi-platform

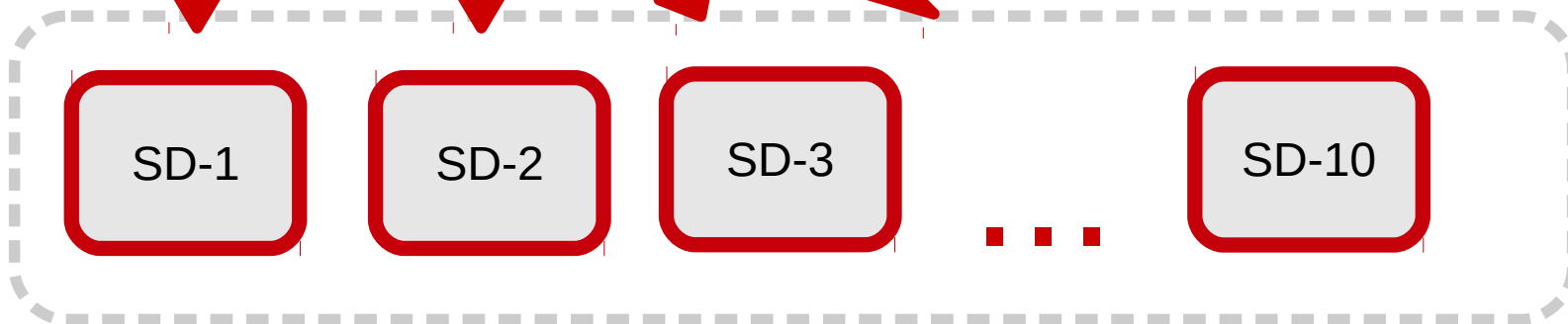
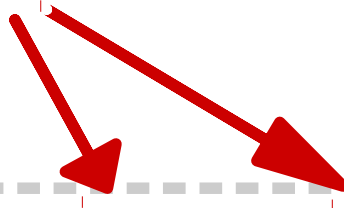
Plugins

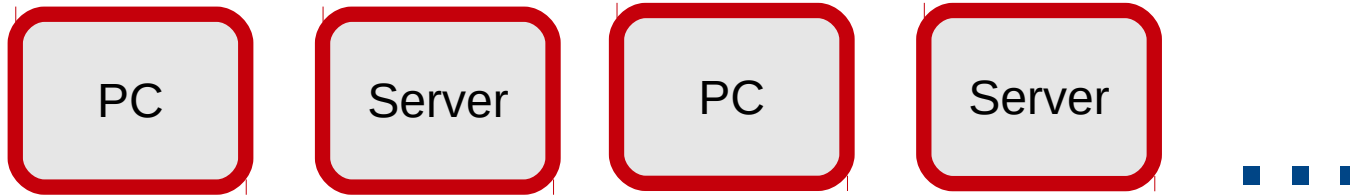
“OSS”

The new
storage
solution,
phase 1



New storage layout

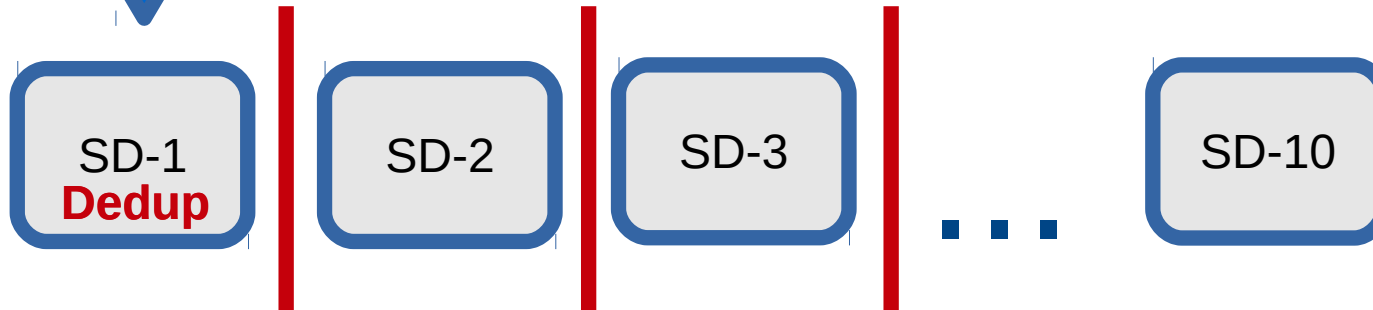
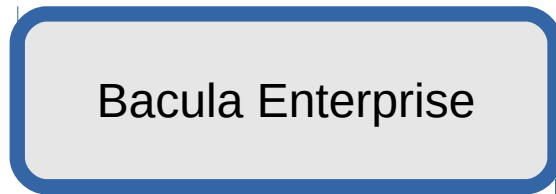




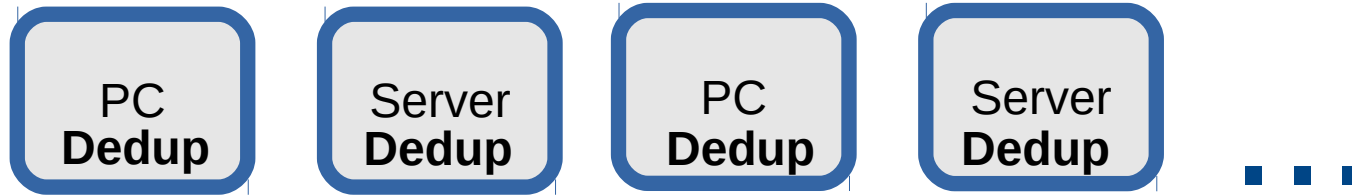
**Group clients to
storage**

After several
months in
production.

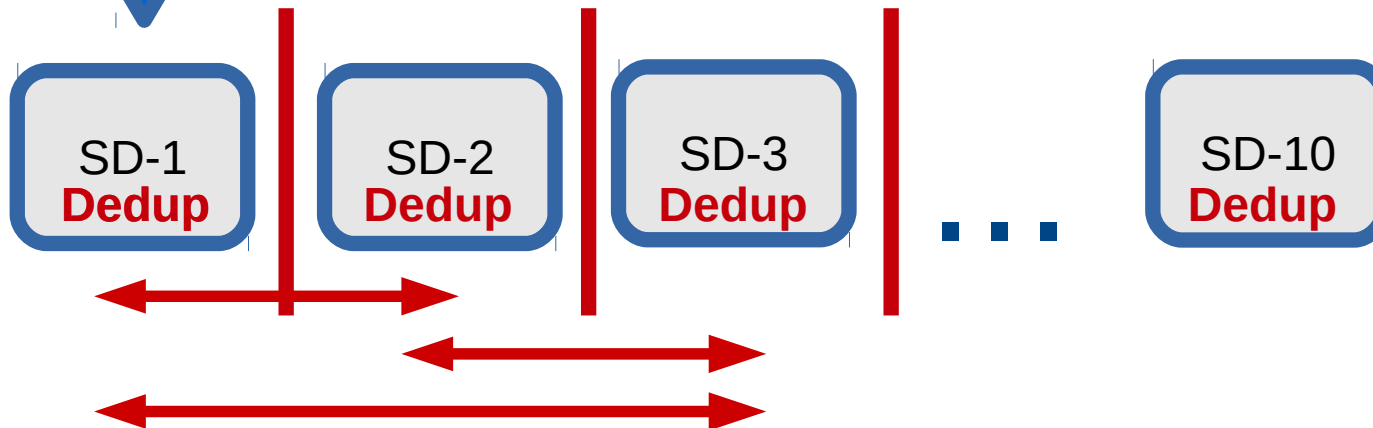
Problems in
practice

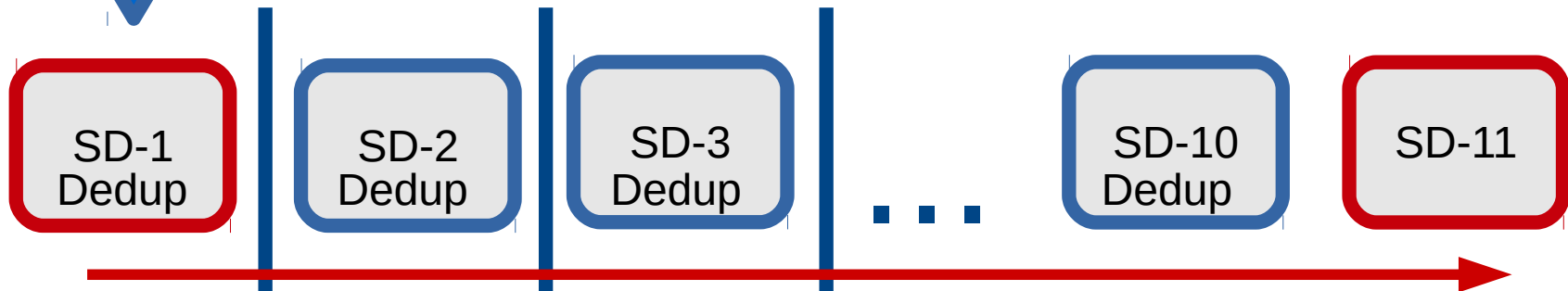
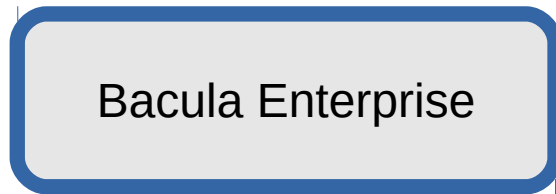
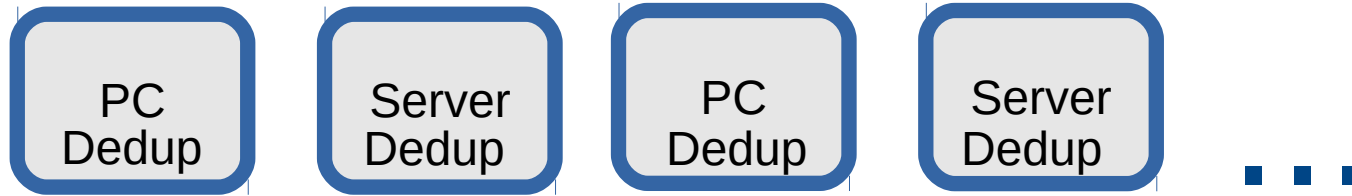


**Isolated and
limited storage**



**No dedup
between the SD**





Run out of disk space, migrate data & jobs

The next
step, PoC

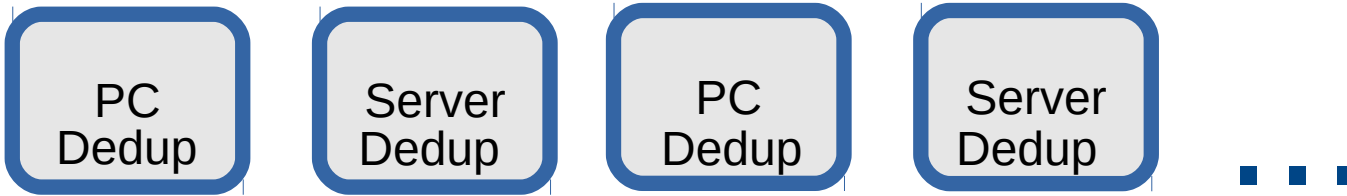
Storage
optimization

CEPH

GlusterFS

BeeGFS

...



**We chose
BeeGFS**



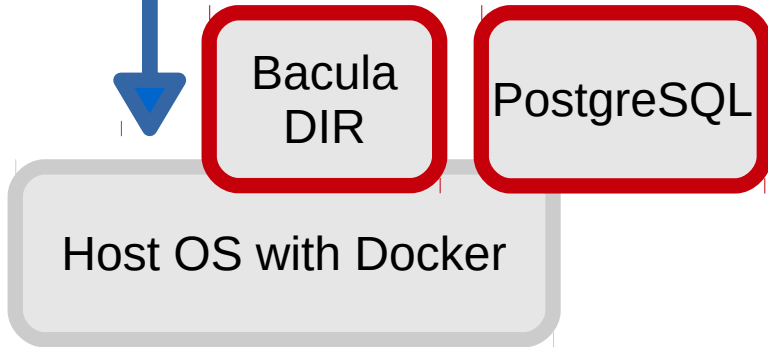
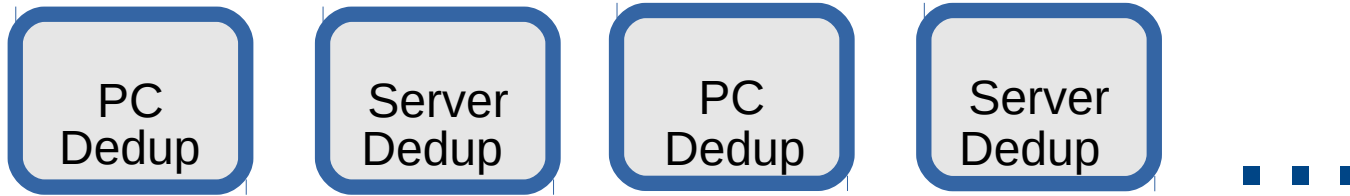
We go for
Docker.

What is
Docker?

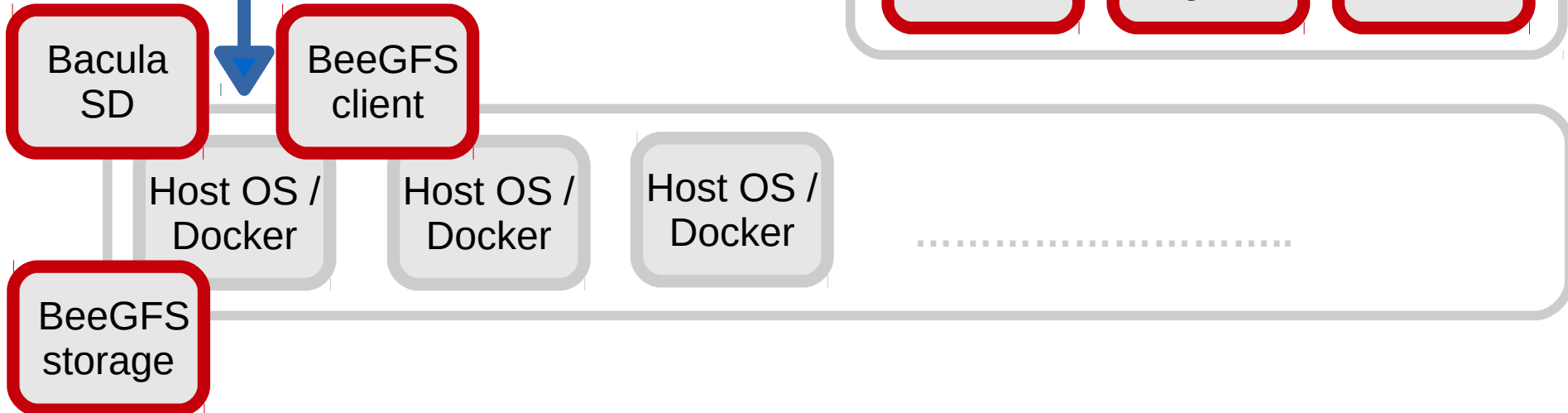
Container
technology

Micro-service

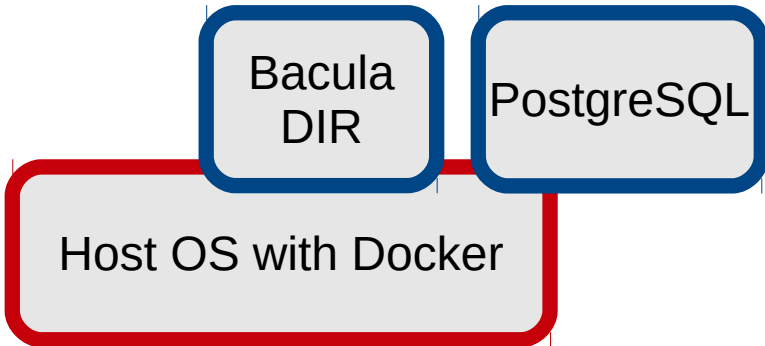
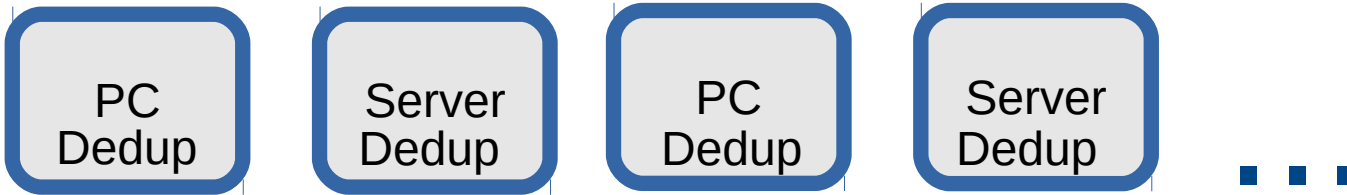
The new kid
on the block



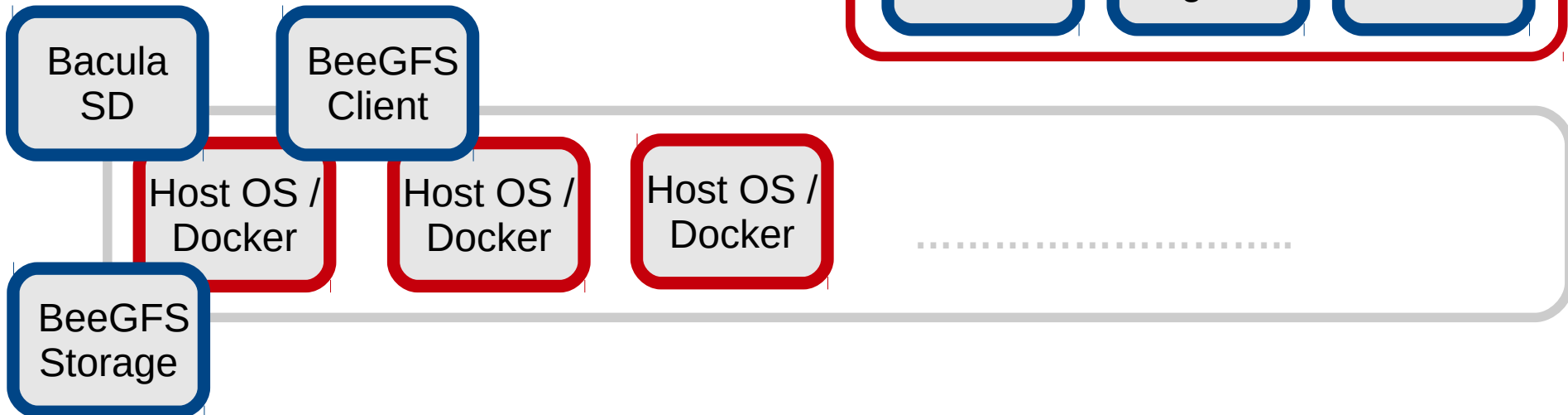
Dockerized

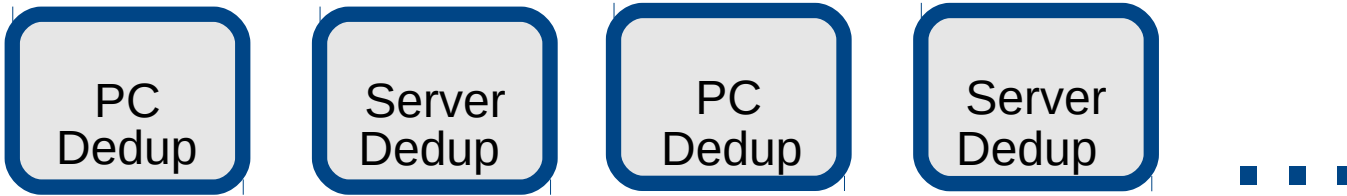


How this will
be managed

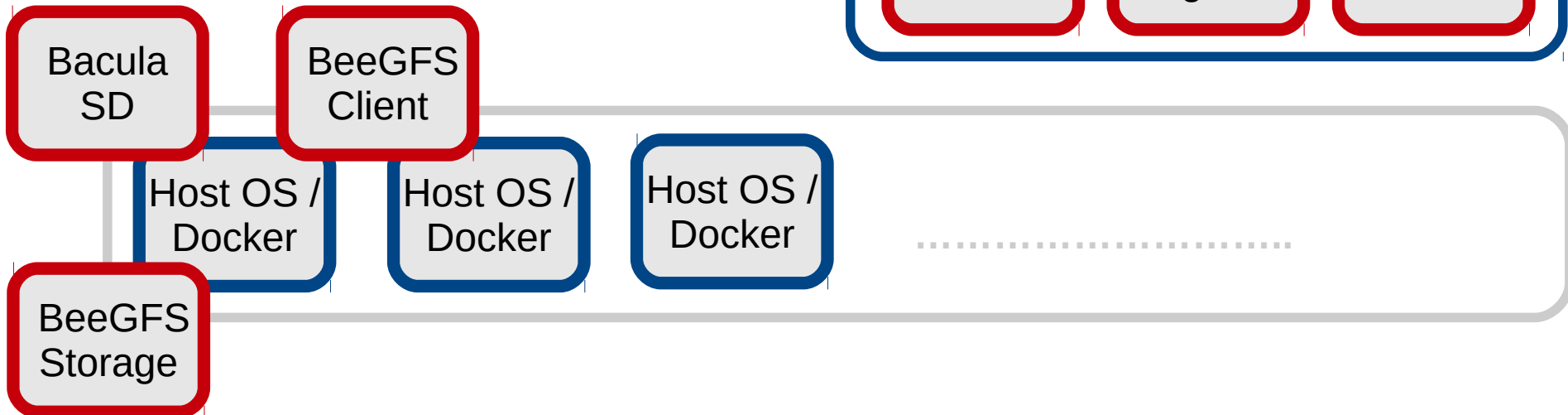
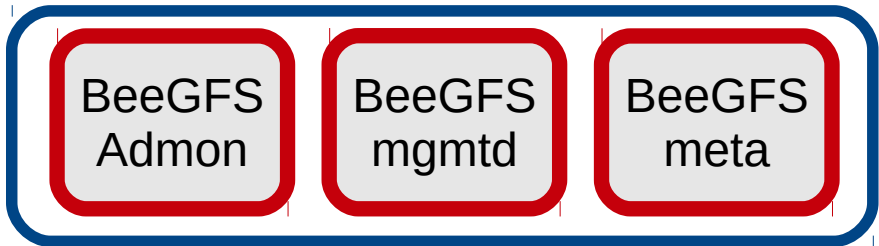
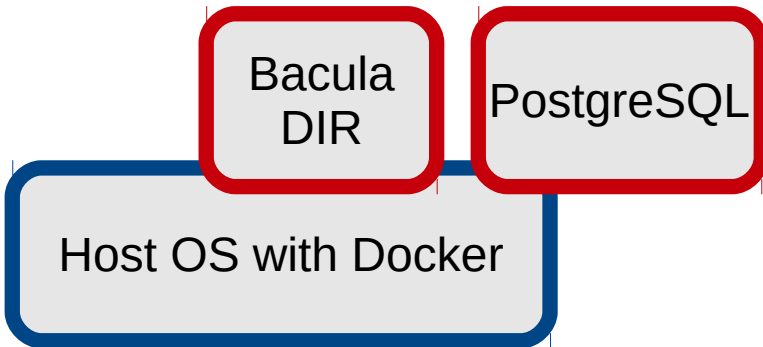


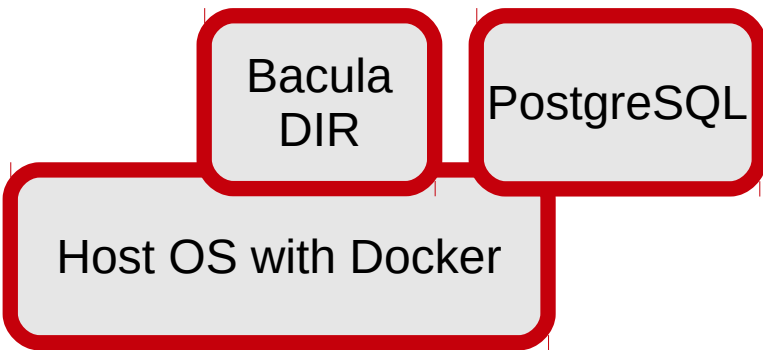
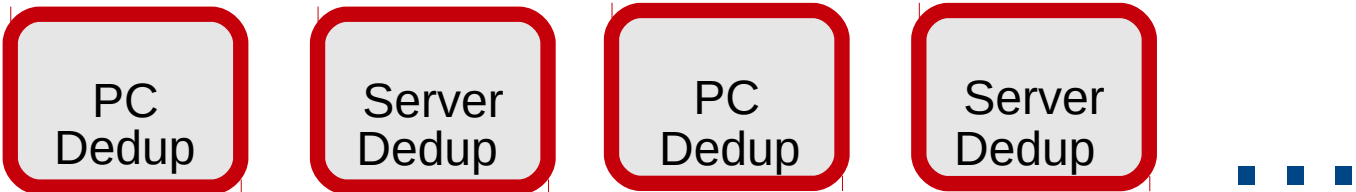
Puppet / Salt /
Ansible / Chef



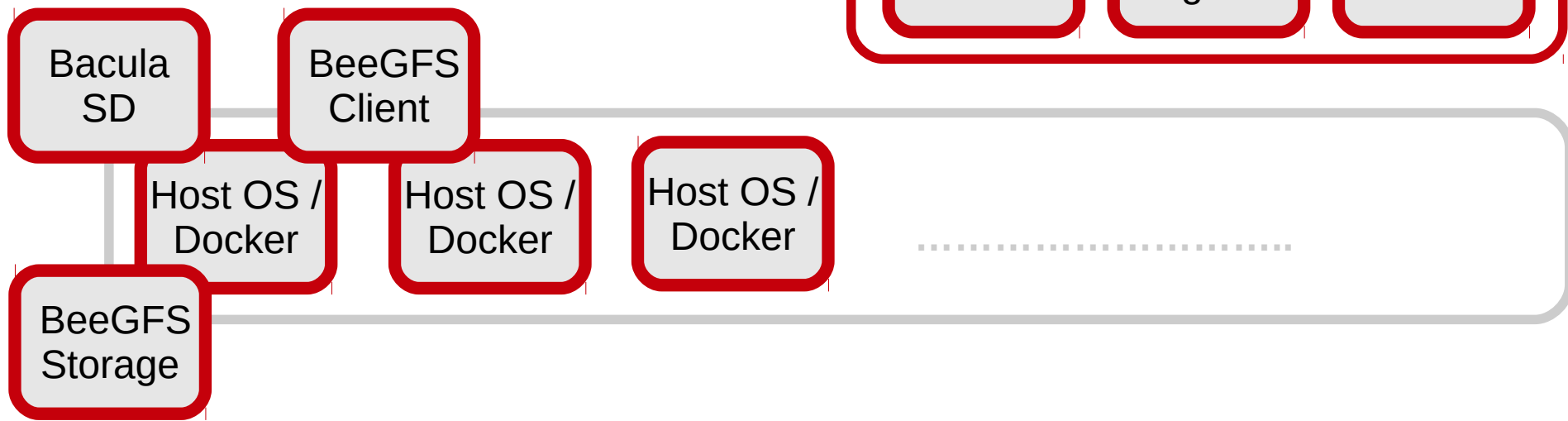


Managed by Hub or Registry





In a perfect world



Our future plan

Stripped
down
container
with Crane

Minimal host
based on
CargOS.io

Questions?

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Thank You!

