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Sunil Shah

# CONTAINERIZED CONTINUOUS DEPLOYMENT ON DC/OS





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# JENKINS ON MESOS

## (AND WHY YOU SHOULD PROBABLY BE RUNNING IT LIKE THIS)

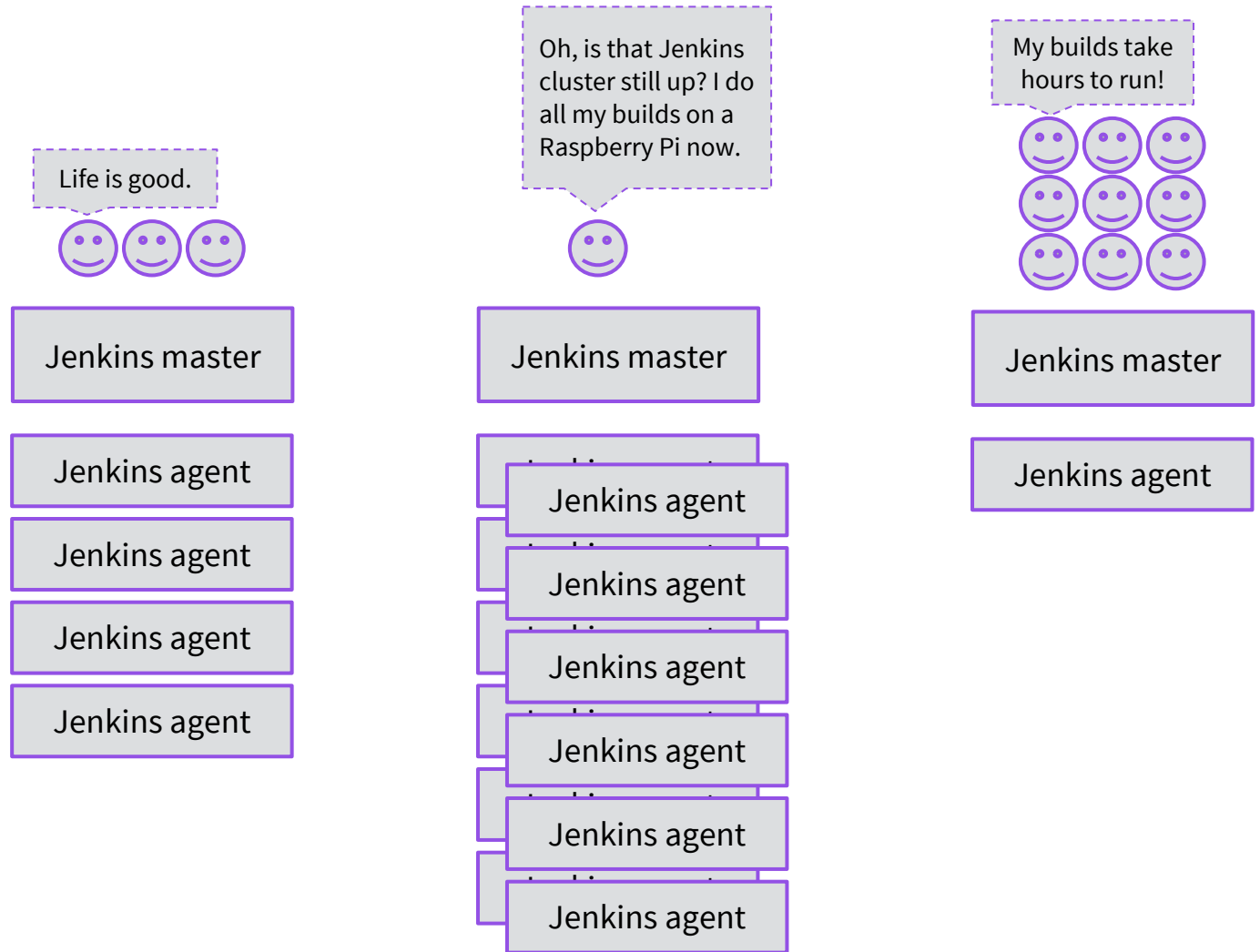
# WHEN IT BEGAN

Continuous  
Integration is soooo  
futuristic and this  
interface is beautiful.

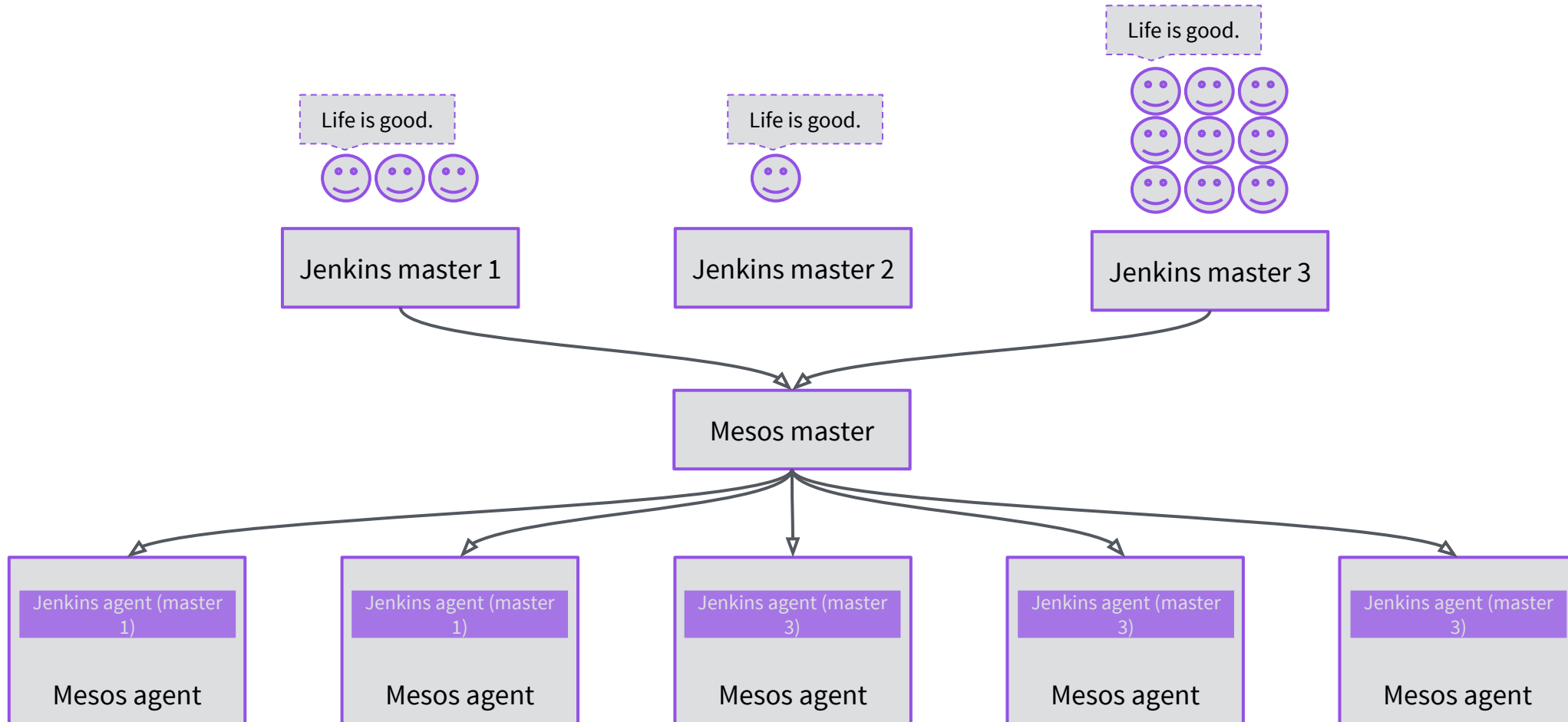


Jenkins master

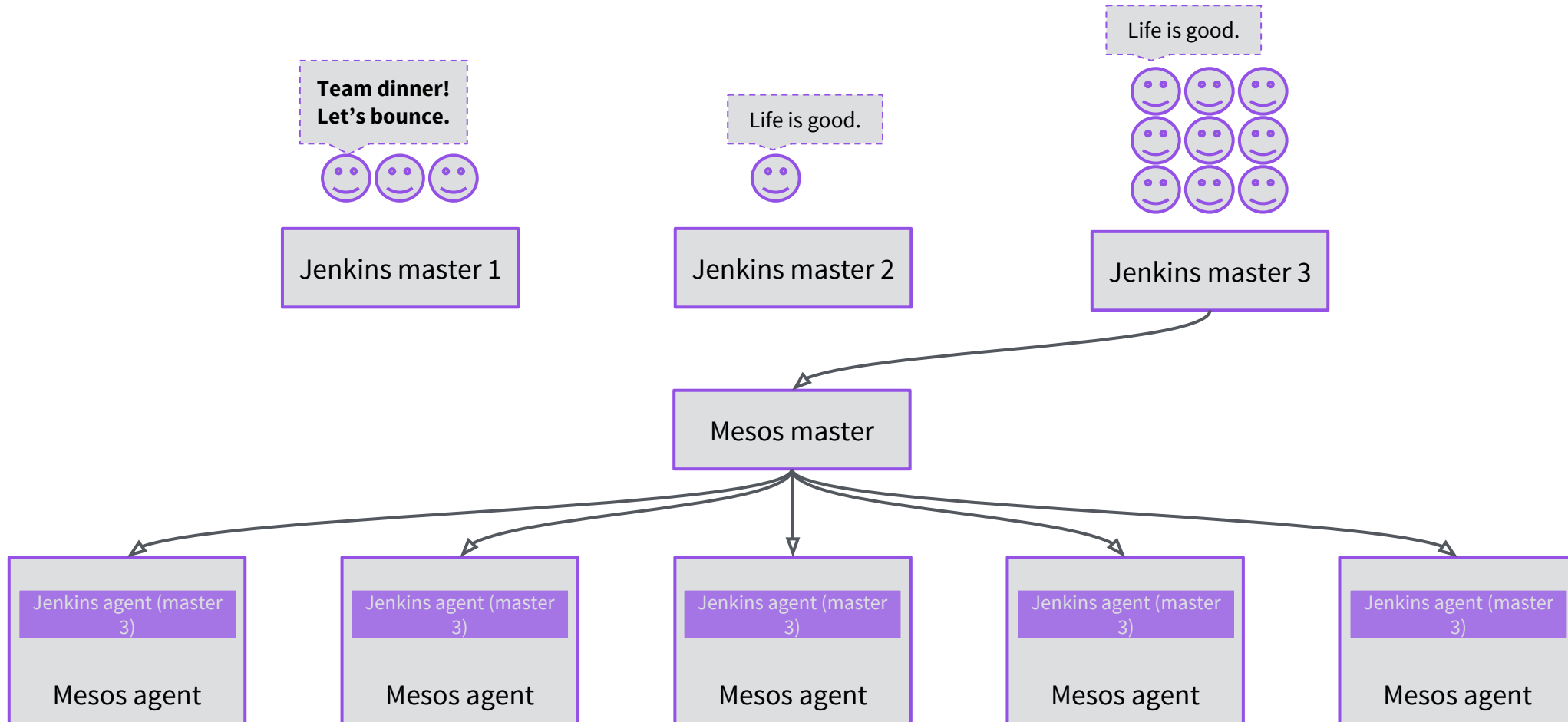
# THE OLD WORLD



# JUST USE WHAT YOU NEED, WHEN YOU NEED IT AND SHARE THE LOVE RESOURCES

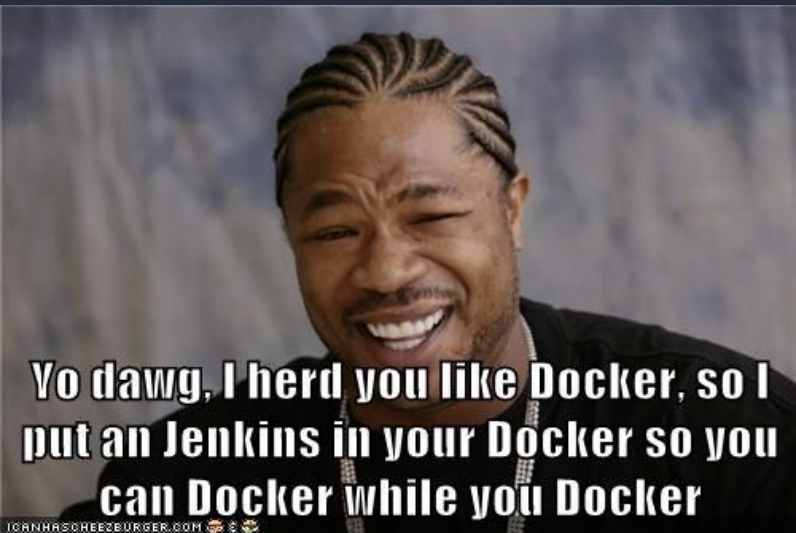


# JUST USE WHAT YOU NEED, WHEN YOU NEED IT AND SHARE THE LOVE RESOURCES



Jenkins on Mesos

# BUILDING DOCKER IN DOCKER: ONE WEIRD TRICK



This brave new world of containers running in containers has a bit of a whale and whale egg\* problem.

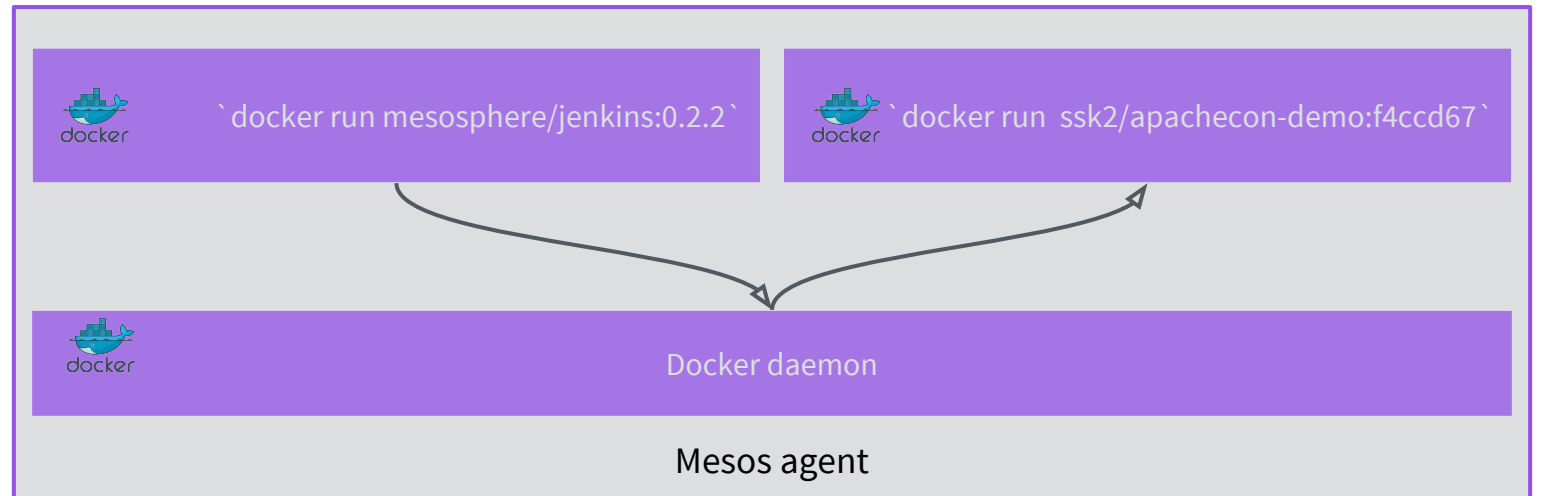
We run everything inside a container to make it easy to bundle dependencies and to isolate it from other processes.

But when the thing that's running wants to build a container, what do you do?

\*Yes, I know.

# BUILDING DOCKER IN DOCKER: ONE WEIRD TRICK

One recommended approach is to *bind mount* in the host system's Docker daemon.

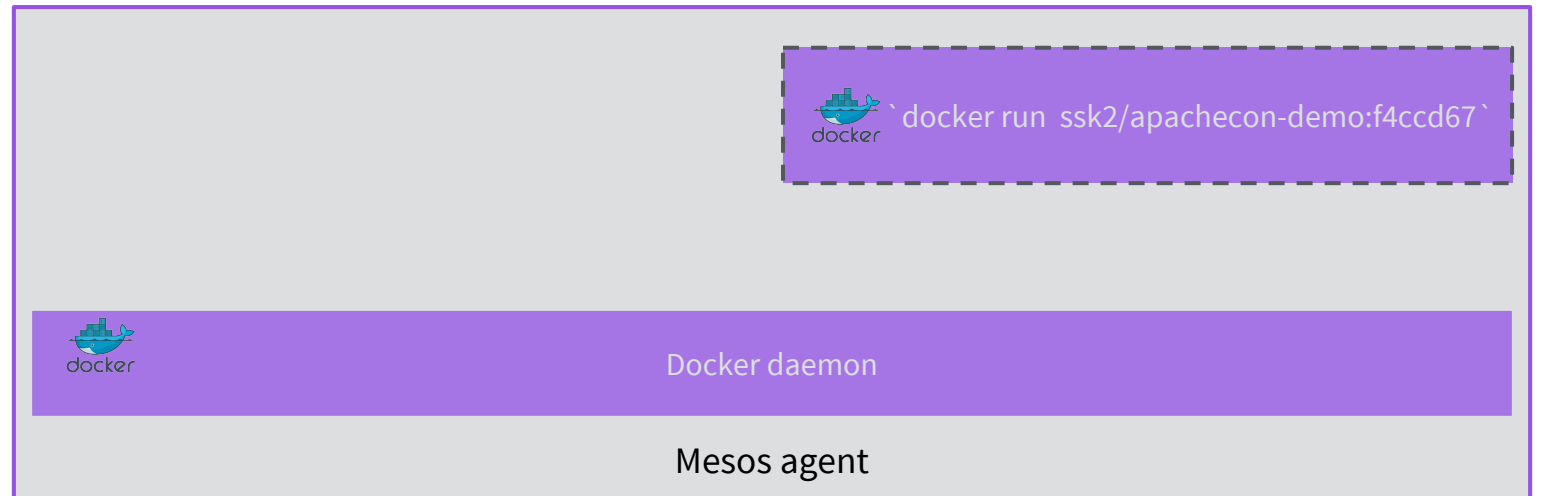




# BUILDING DOCKER IN DOCKER: ONE WEIRD TRICK

This doesn't work for Mesos though! It doesn't track containers that it doesn't launch.

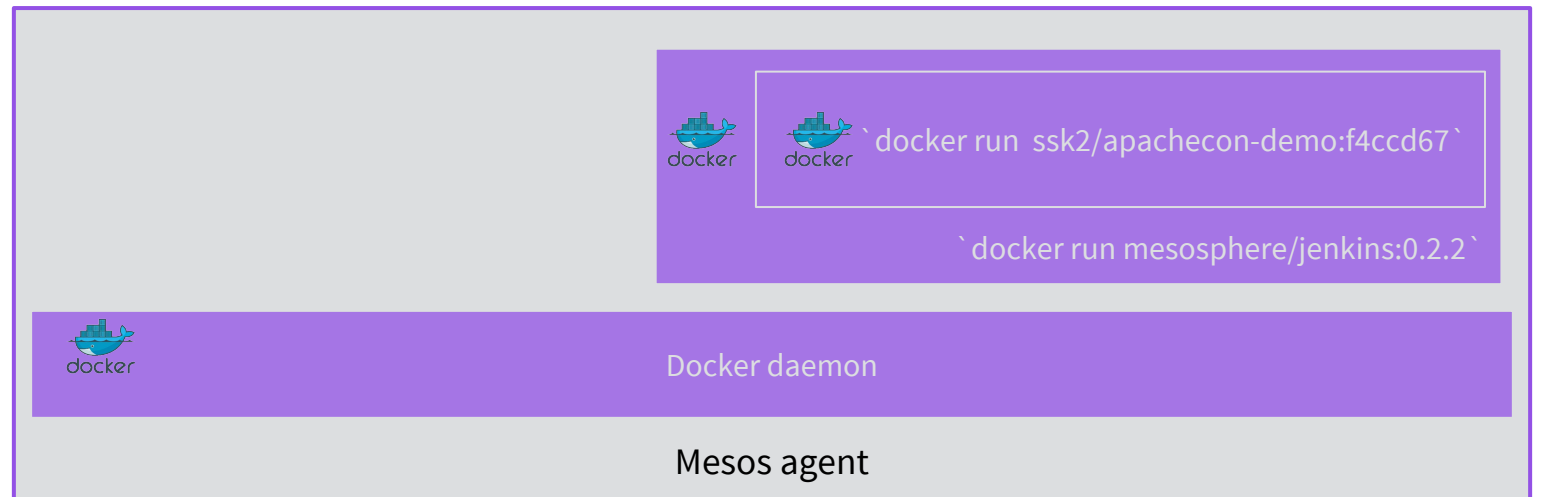
The sibling container becomes orphaned and runs forever.



# BUILDING DOCKER IN DOCKER: ONE WEIRD TRICK

Our solution is to use a customised Docker-in-Docker container.

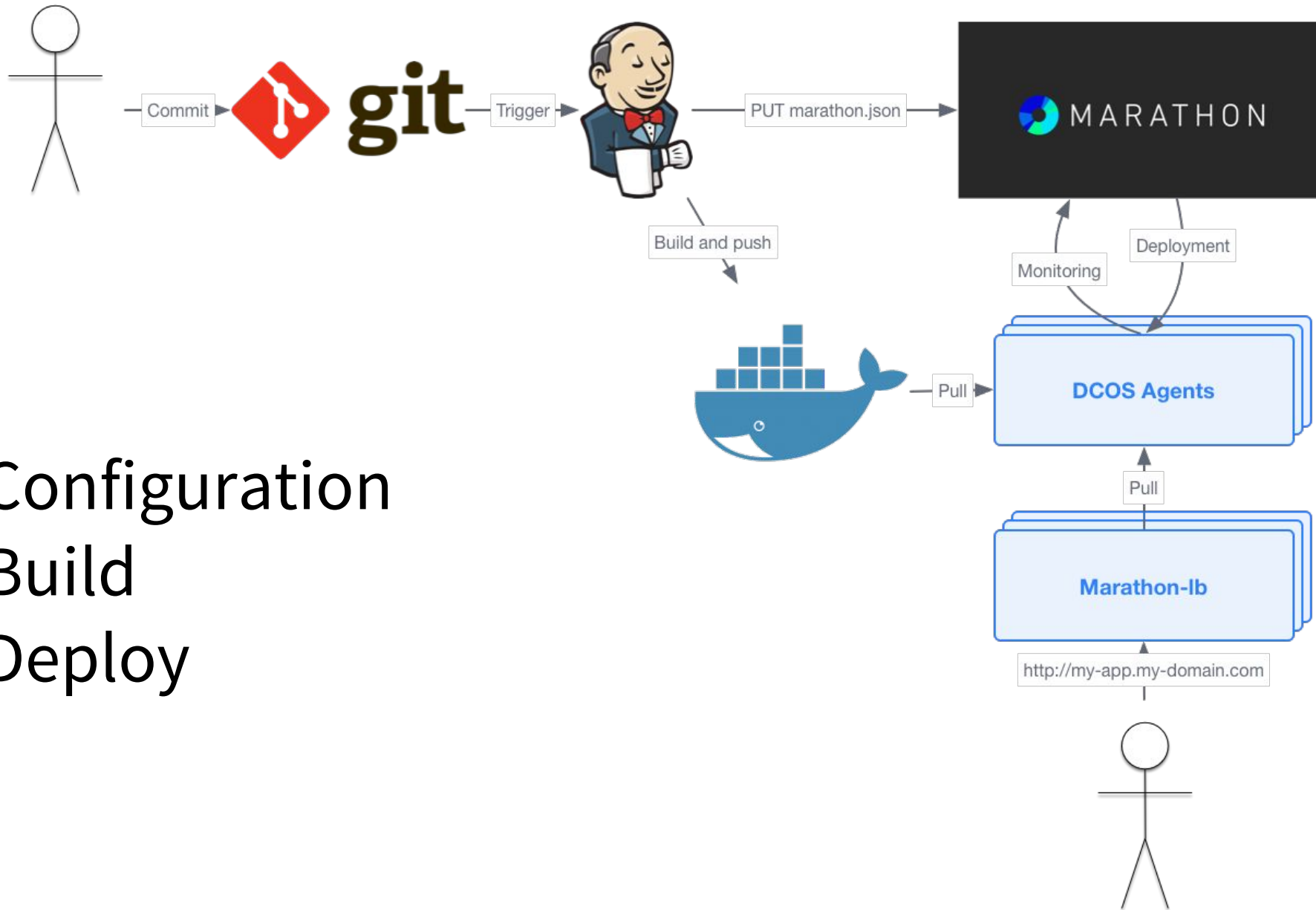
This is a little slower but Mesos takes care of the resources!



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# CONTINUOUS DEPLOYMENT





1. Configuration
2. Build
3. Deploy

# THANK YOU!

Come and talk to us!

- Email me at [sunil@mesosphere.io](mailto:sunil@mesosphere.io)
- Slides will be up at <http://mesosphere.github.io/presentations>
- Check out <https://dcos.io>