



# 1.12

what's new since June 20, 2016

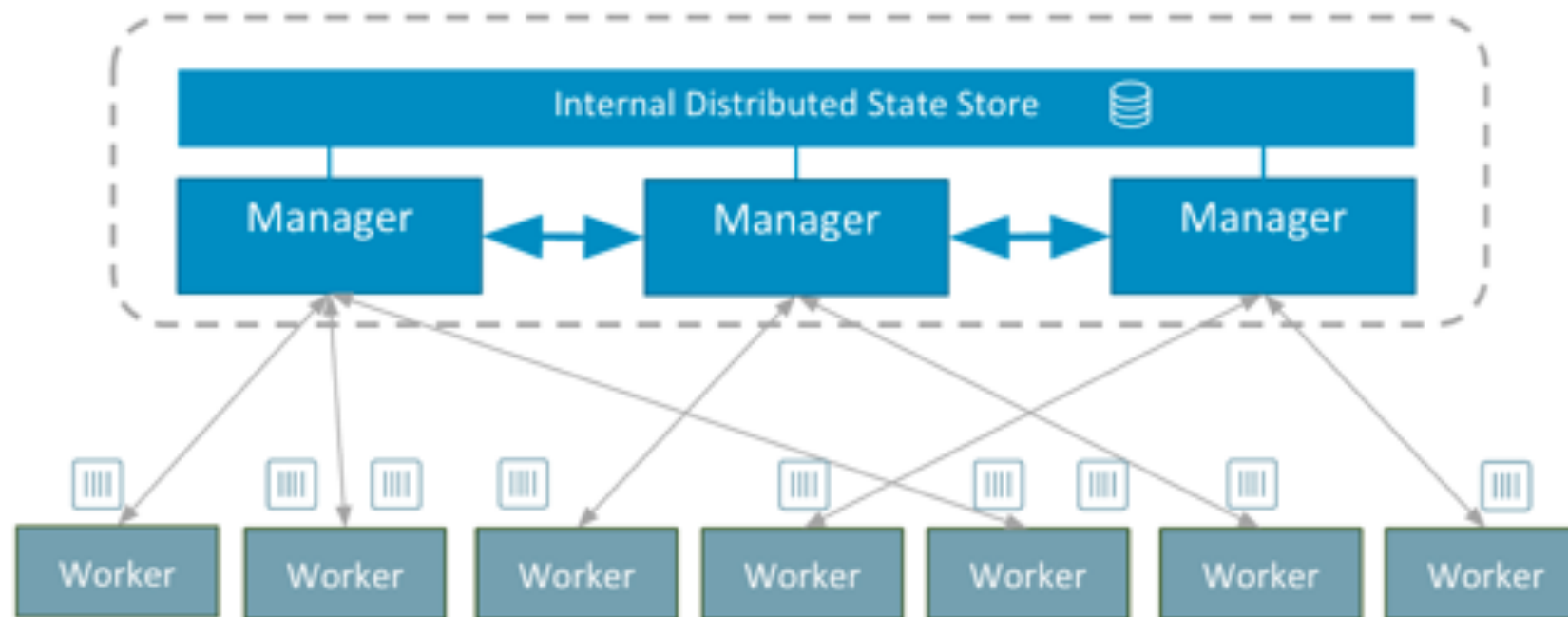


Destaff Sep 2016  
Lightning talks

Thanassis Zografos

# swarm mode

## multi-host and multi-container orchestration made easy



The Docker 1.12 design is based on four principles

Simple Yet Powerful

Resilient

Secure

Optional Features and Backward Compatibility



# Simple Yet Powerful

swarm mode

node has the role of manager

node has the role of worker

manager nodes will be part of the Raft consensus group

Consensus algorithms allow a collection of machines  
to work as a coherent group that can survive the failures  
of some of its members



Resilient

services  
replicated or global services

Swarm mode enabled engines are self-healing

meaning that they are aware of the application you defined and will  
continuously check and reconcile the environment

routing mesh (internal LB)



Secure

zero configuration, secure-by-default

mutually authenticated TLS

authentication, authorization and encryption to all comms

Public Key Infrastructure (PKI)

certificate rotation



## Optional Features and Backward Compatibility

new file format called a Distributed Application Bundle

What specific image revision to run

What networks to create

How containers in those services must be networked to run

Bundle files are fully portable

ship fully spec'ed and versioned multi-container Docker apps



That's it for now

Thank you

[tzografos@gmail.com](mailto:tzografos@gmail.com)

