Deploying in Production with Stacks and Services



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Module Outline



Big Picture

Stack Files

Deploy and Manage a Stack

Recap





Domain 1: Orchestration

- Extend the instructions to run individual containers into running services under swarm
- Convert an application deployment into a stack file using a YAML compose file with docker stack deploy
- Manipulate a running stack of services
- Increase number of replicas
- Mount volumes



Big Picture

Stacks Primer

Docker CLI



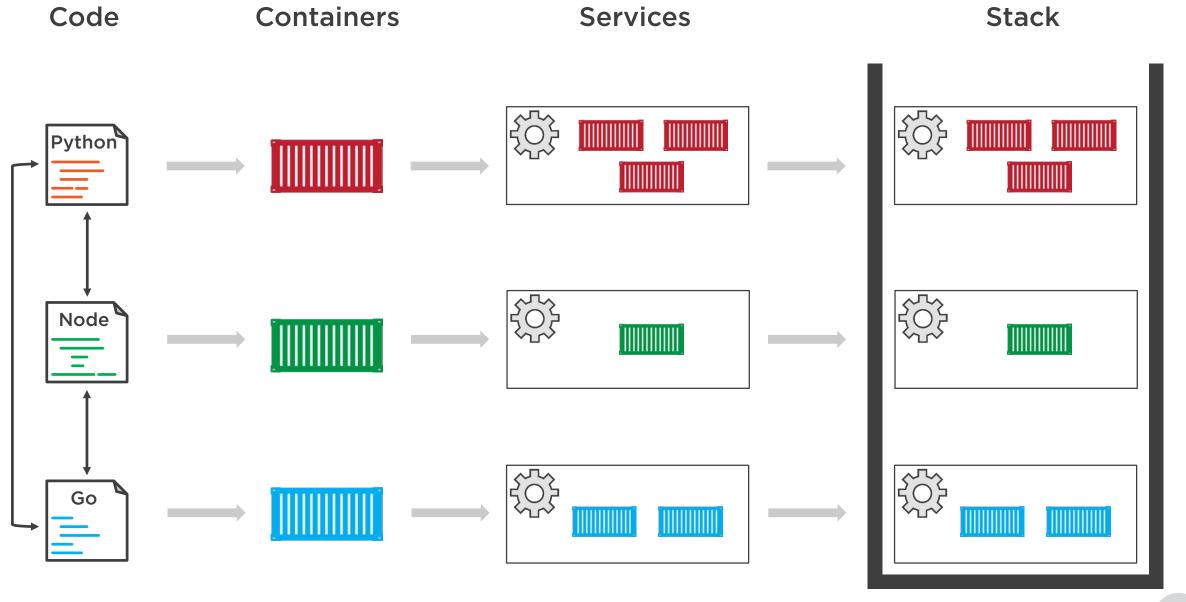
Docker UCP

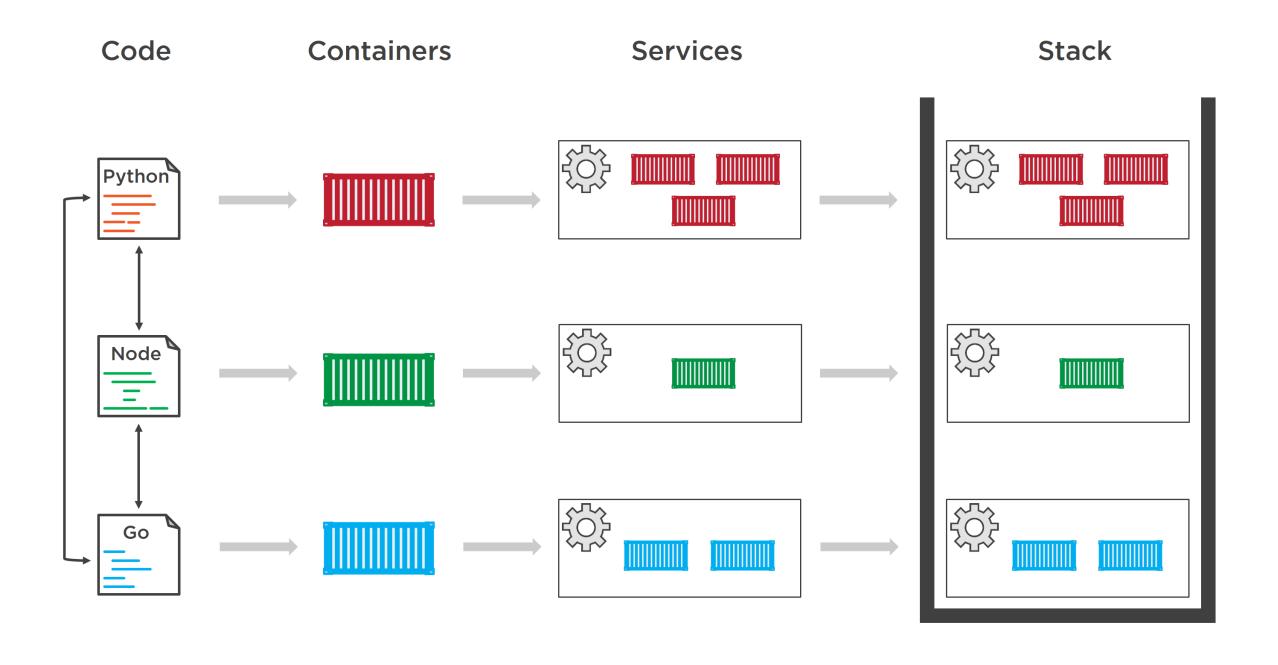


Docker Cloud



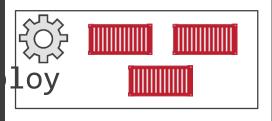






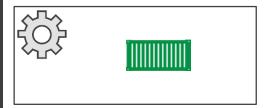


\$ docker stack de loy



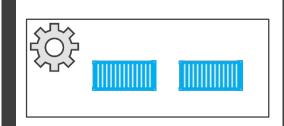


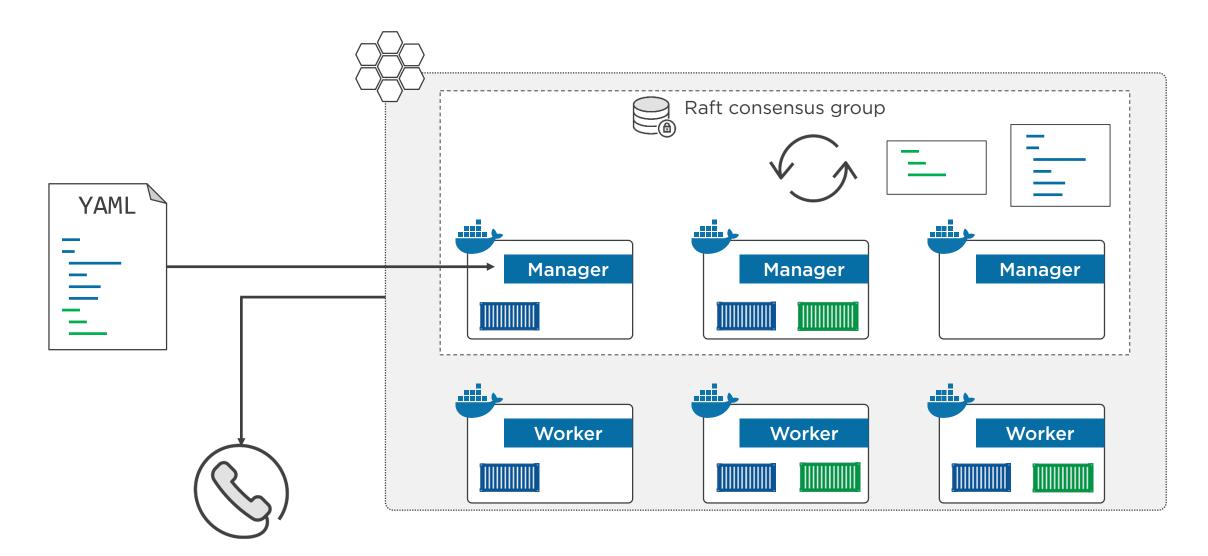
Docker UCP

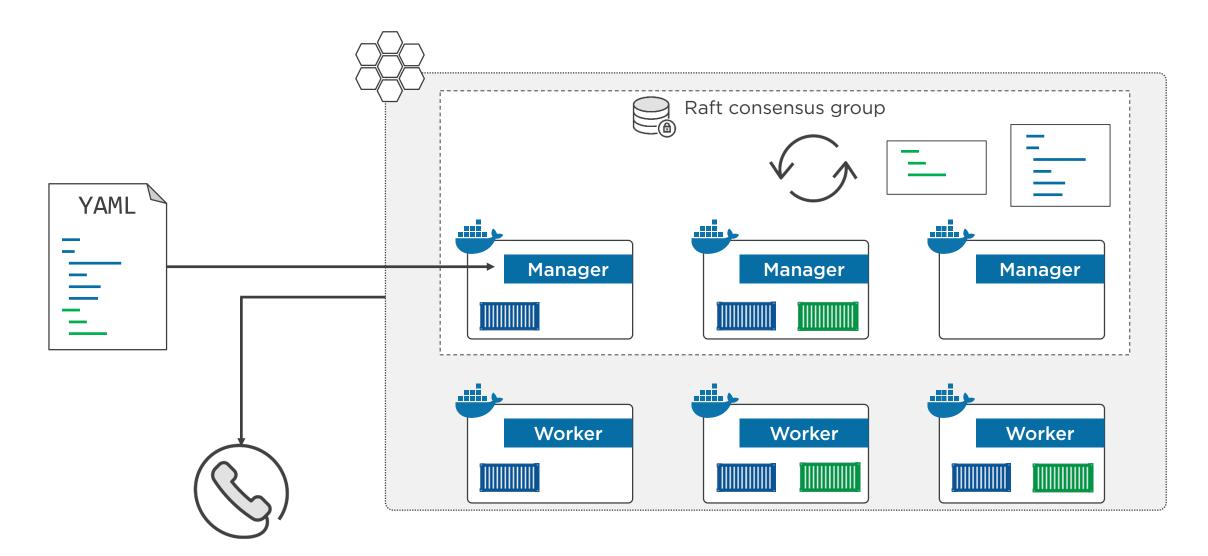


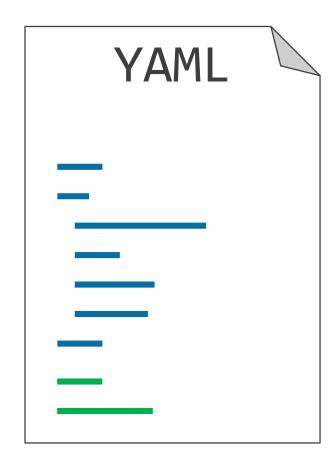


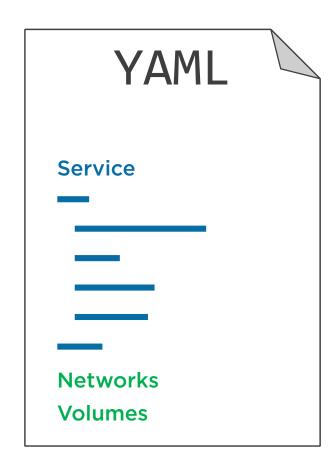
Docker Cloud



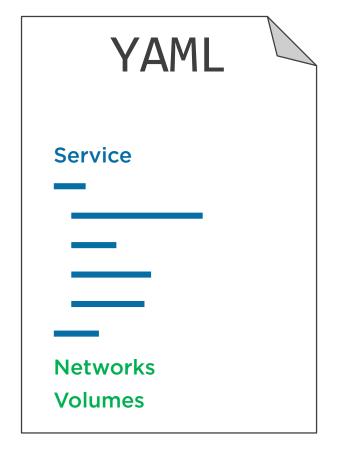


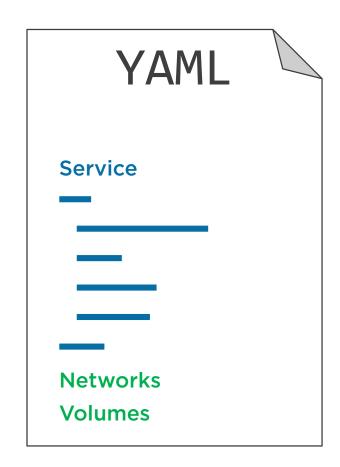


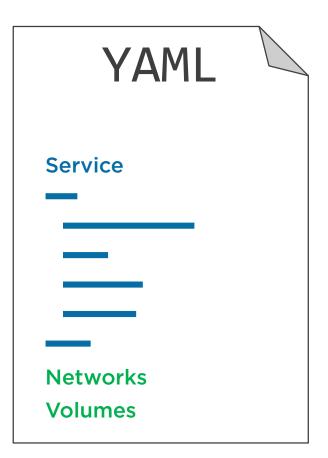












Dev Test Prod



Topology-aware scheduling

- Schedule based on node labels etc

Health-aware scheduling

- Only schedule to healthy nodes

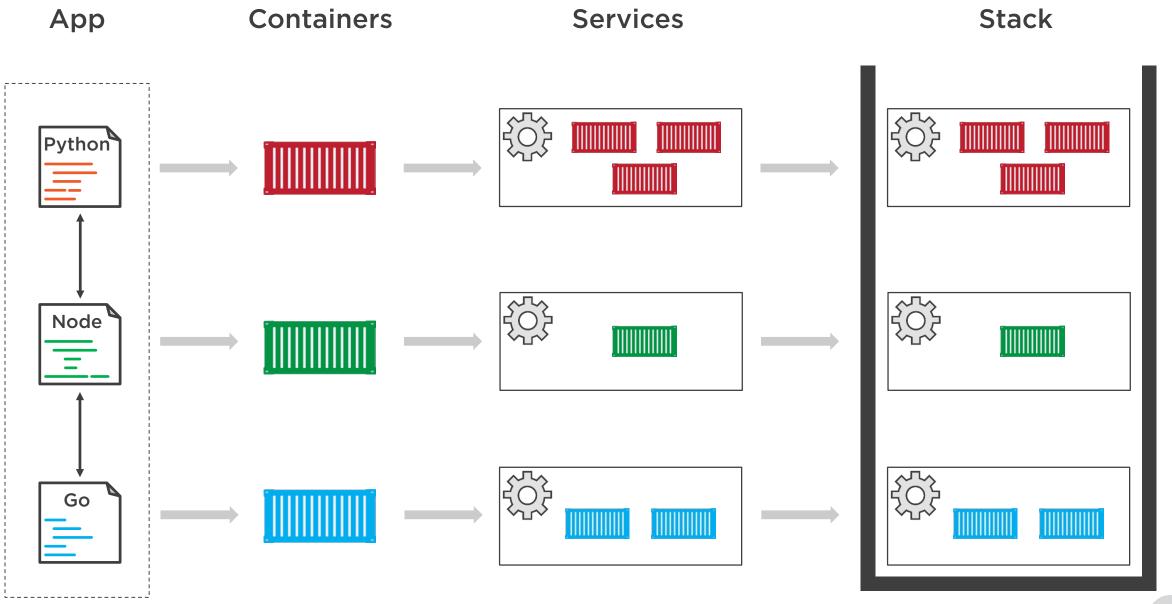
H/A scheduling

- Spread replicas across multiple nodes

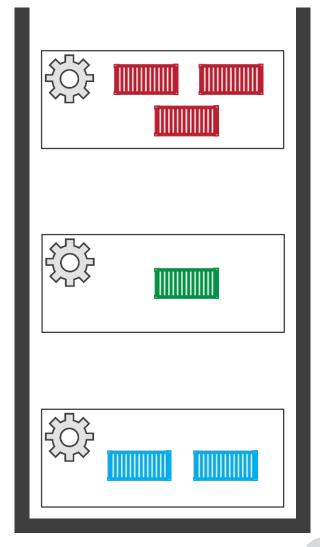


Recap In case you've forgotten



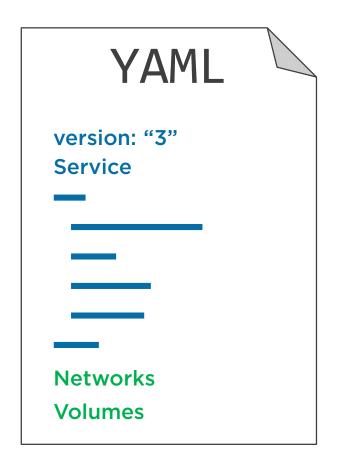


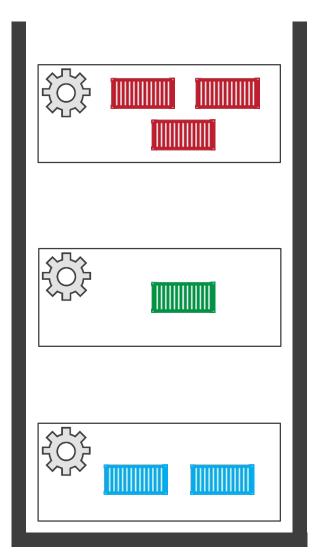
Stack





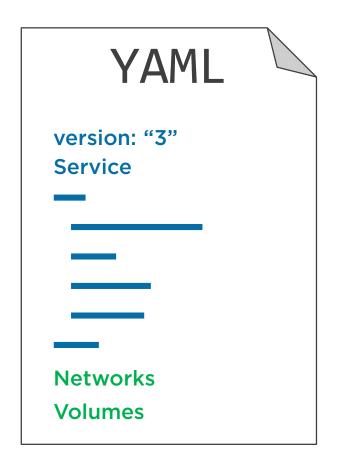
Stack

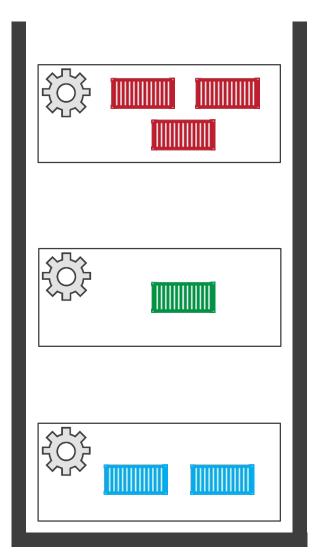




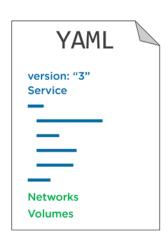


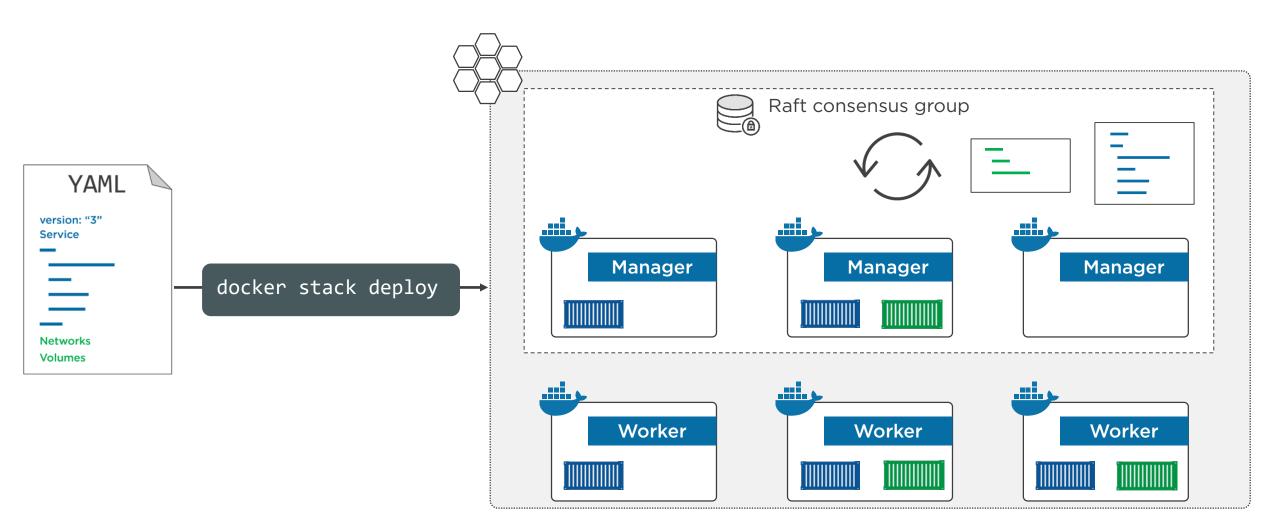
Stack













Coming up

NEXT MODULE

Enterprise Tooling

