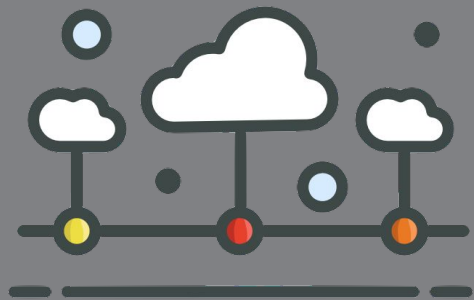


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# STATEFULSETS

Rise of the Containers Workshop

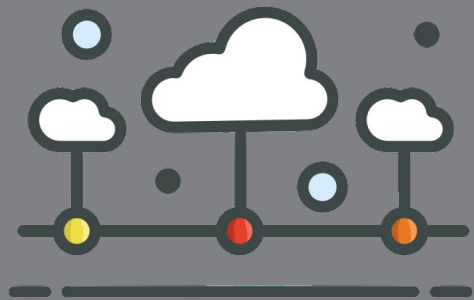


Containers are stateless

# Containerisation is challenging

- Loses data when terminated
- Persistent volumes are either shared or fresh everytime and not fixed
- Identity keeps changing as container come and go
- Ordering of replica set bootup is not fixed

With all of the above limitations specifically Datastores are challenging to containerized deployment, such as MongoDB, PostgreSQL, ElasticSearch, Kafka



# StatefulSets

*a StatefulSet manages Pods that are based on an identical container spec. Unlike a Deployment, a StatefulSet maintains a sticky identity for each of their Pods.*

# StatefulSets

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- Stable, unique network identifiers.
- Stable, persistent storage.
- Ordered, graceful deployment and scaling.
- Ordered, graceful deletion and termination.
- Ordered, automated rolling updates.

# StatefulSet Cassandra Setup Demo

# THANK YOU

*For questions or suggestions:*

*Sunit Parekh*

*[sunitp@thoughtworks.com](mailto:sunitp@thoughtworks.com)*