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Zombie Kubernetes

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Raising Nodes from the Dead

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What is “Immutable Infrastructure?”

- Servers act similarly to objects in code.
- Servers should not be expected to change their configuration on the fly.
- When an infrastructure configuration is changed, it is replaced with a new version.

Using containers? - You're already applying this methodology.

- Containers are immutable by nature.
- Containers should perform a single function.
- Containers should be replaced when updated.



How can I apply this to Kubernetes?

- Leverage user data or rebuild images for provisioning.
- Eliminate tools like puppet, chef, etc.

Kubernetes worker nodes

- What is needed for a worker node configuration?
- The kubelet (configured to connect to a master)
- Docker and Flannel (if not already configured by default)

Kubernetes worker nodes

What if one of these processes fails?

- Replace the instance.



Kubernetes Masters

- What is needed for configuration?
 - Kube API Server
 - Kube Proxy
 - Kube Pod Master
 - Kube Controller Manager
 - Kube Scheduler
 - ETCD (if you do not have an external cluster)
 - Kubelet
 - Docker/Flannel



Thank you!

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Questions?