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# Zombie Kubernetes

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.



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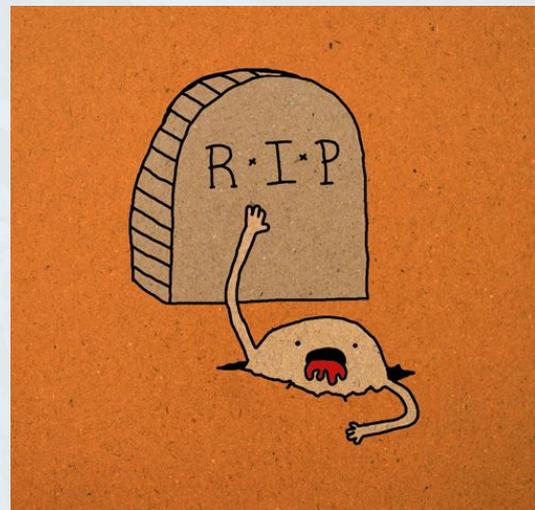
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## Using containers?

You're already applying this methodology.

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





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## How can I apply this to Kubernetes?

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



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## Kubernetes worker nodes

What is needed for a worker node configuration?

- The kubelet (configured to connect to a master)
- A kube proxy (configured to connect to a master)
- Docker and Flannel (if not already configured by default)



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## Kubernetes worker nodes

### What if one of these processes fails?

- Replace the instance.



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# 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



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Thank you!

This presentation was short, so please chat with me!

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