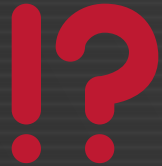


Is it time to put your pet Kubernetes down?



Chris Nesbitt-Smith

UK Gov | esynergy | Control Plane | LearnK8s | lots of open source



Hello

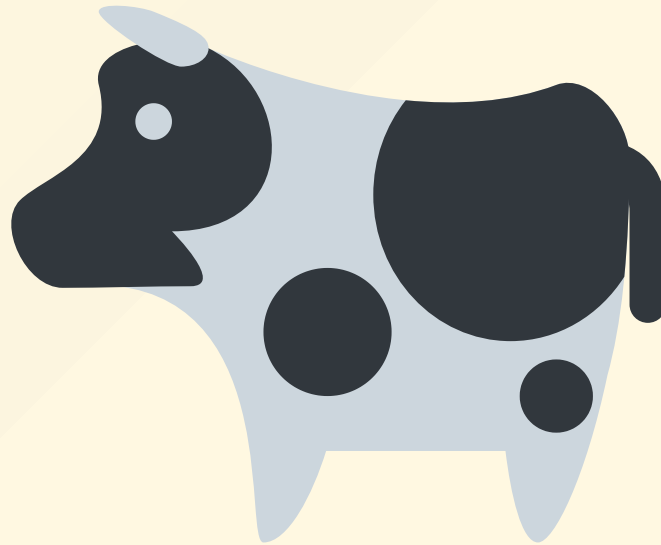
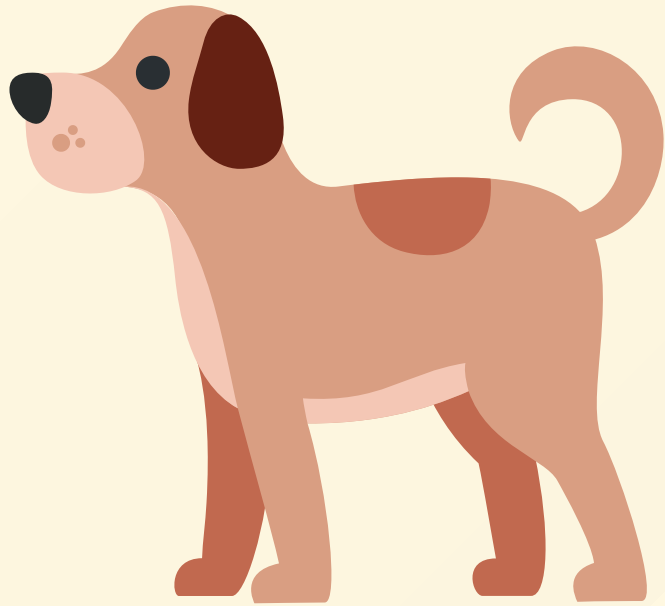


Chris Nesbitt-Smith

- **Learnk8s & Control Plane Instructor + Consultant**
- **esynergy - Digital Transformation Consultant**
- **Crown Prosecution Service (UK gov) - Consultant**
- **Opensource**



Reminder what is Pets vs Cattle?



The before times





HELLO
MY NAME IS

Bob



2023(?)







Kubernetes



"duh, we're doing Kubernetes"





Kubernetes: Nodes (naming)

```
$ kubectl get nodes
```

NAME	STATUS	ROLES	AGE	VERSION
ip-10-170-7-102.eu-west-2.compute.internal	Ready	<none>	24h	v1.21.5-eks-9017834
ip-10-170-7-99.eu-west-2.compute.internal	Ready	<none>	24h	v1.21.5-eks-9017834





Kubernetes: Pods (naming)

```
$ kubectl get pods -A
```

NAMESPACE	NAME	READY	STATUS	RESTARTS	AGE
cert-manager	cert-manager-6d99c7965c-c9q92	1/1	Running	0	24h
cert-manager	cert-manager-cainjector-748dc889c5-ljv8c	1/1	Running	0	24h
cert-manager	cert-manager-webhook-5b679f47d6-wnt2f	1/1	Running	0	24h
kube-system	aws-node-7b7q4	1/1	Running	0	24h
kube-system	aws-node-vwr5m	1/1	Running	0	24h
kube-system	calico-node-jfndm	1/1	Running	0	24h
kube-system	calico-node-zhhsf	1/1	Running	0	24h
kube-system	calico-typha-7dd5d4b984-p52gx	1/1	Running	0	24h
kube-system	calico-typha-horizontal-autoscaler-767b5c958c-w6pjt	1/1	Running	0	24h
kube-system	cluster-autoscaler-6c8dc687c6-pts7q	1/1	Running	1	24h
kube-system	coredns-65ccb76b7c-8pqj6	1/1	Running	0	24h
kube-system	coredns-65ccb76b7c-dd48d	1/1	Running	0	24h
kube-system	kube-proxy-5vqz2	1/1	Running	0	24h
kube-system	kube-proxy-zlh5k	1/1	Running	0	24h
kube-system	metrics-server-977777f66-mvr56	1/1	Running	0	24h
nginx-ingress	ingress-controller-5b47bfdf66-c2xj8	1/1	Running	0	24h
nginx-ingress	ingress-controller-5b47bfdf66-g94xw	1/1	Running	0	24h
external-dns	external-dns-689dc89999-s6mjz	1/1	Running	0	24h



Kubernetes: Pods (checks)

```
livenessProbe:  
  httpGet:  
    path: /healthz  
    port: http
```





Don't look

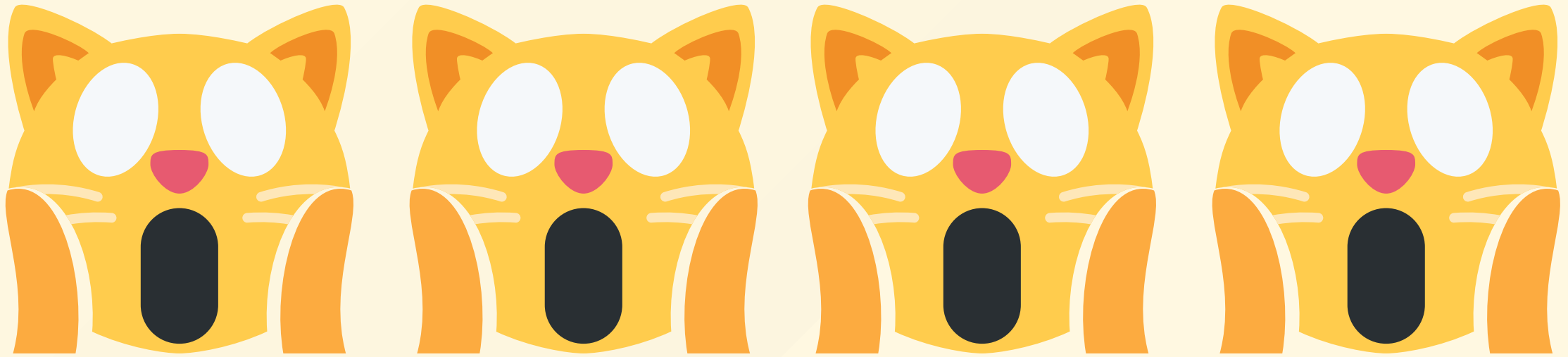


```
eksctl create cluster
```

...now what?












```
helm install cert-manager jetstack/cert-manager  
helm install external-dns external-dns/external-dns  
helm install nginx-ingress nginx-stable/nginx-ingress  
helm install istiod istio/istiod  
etc
```



So?



Well

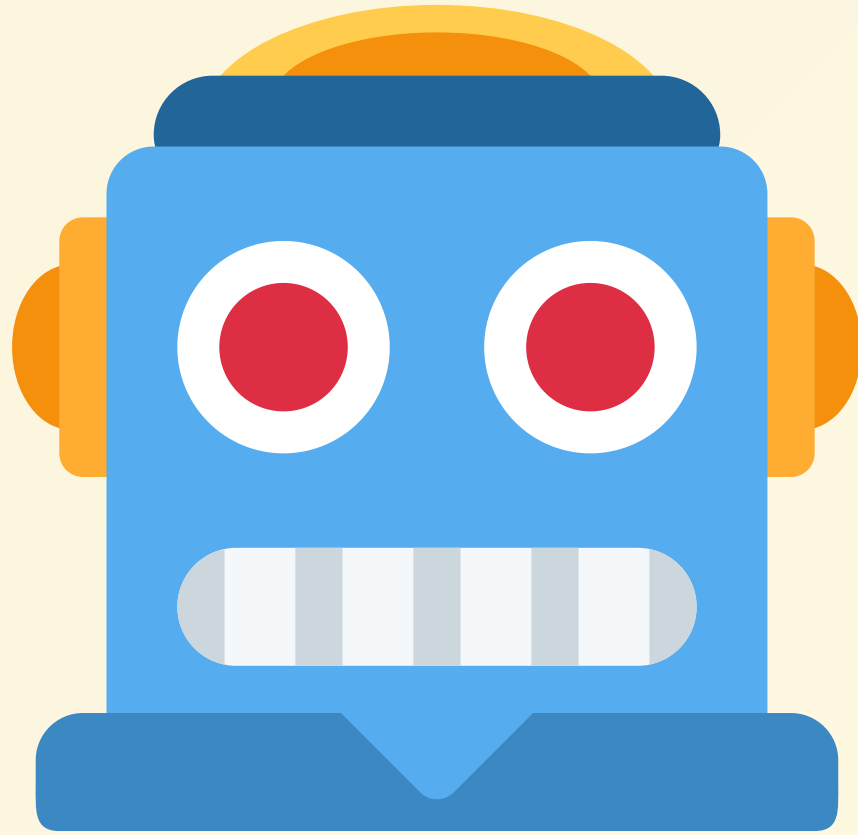
-  **www.mycompany.com**
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-  **int.notprod.mycompany.com**
-  **stg.notprod.mycompany.com**
-  **qa.notprod.mycompany.com**



Well

-  **team[1-10].www.mycompany.com**
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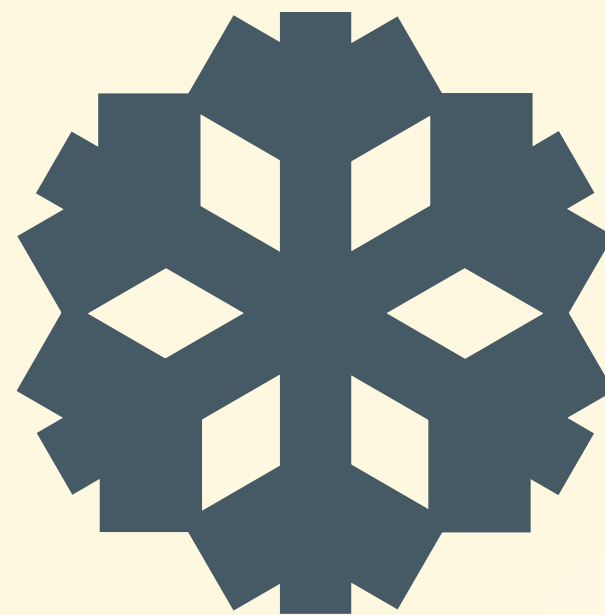


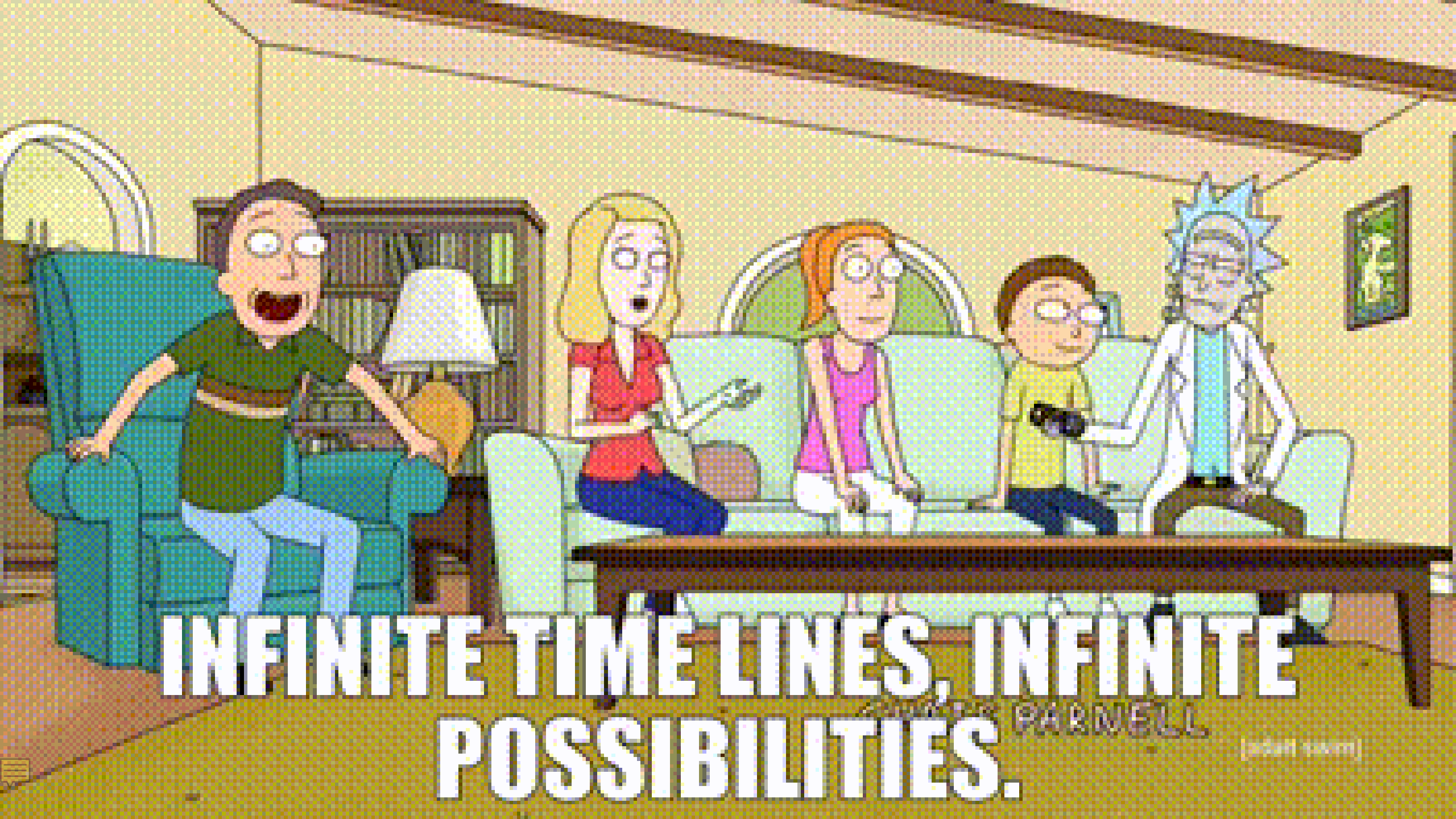


Day 2







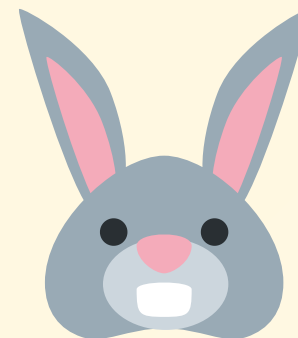
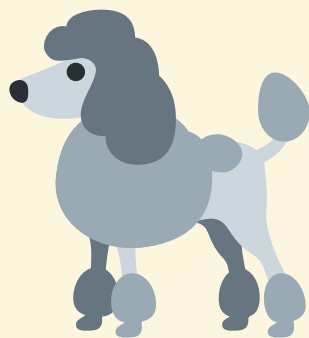
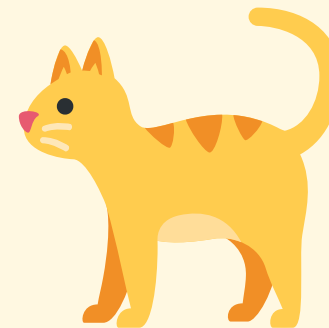
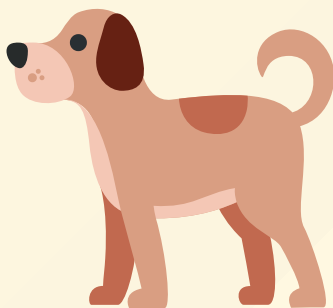


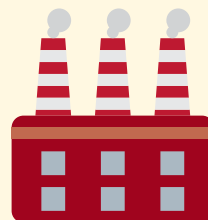
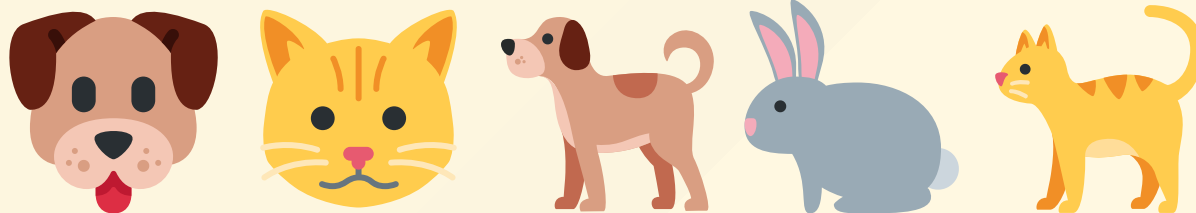
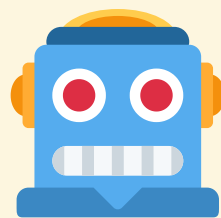
**INFINITE TIME LINES, INFINITE
POSSIBILITIES.**

JOHN PARNELL

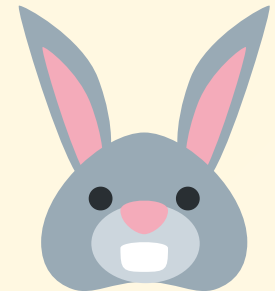
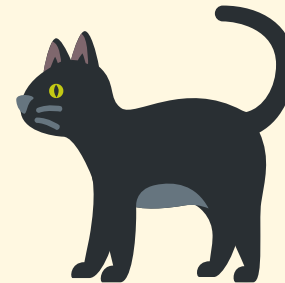
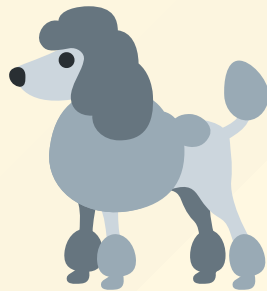
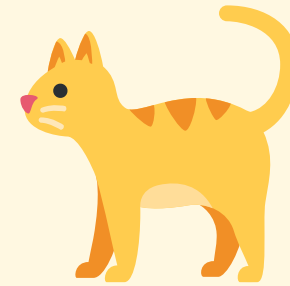
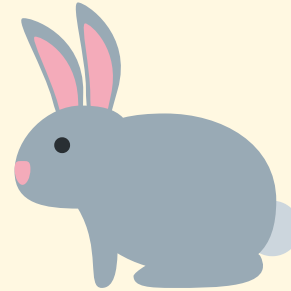
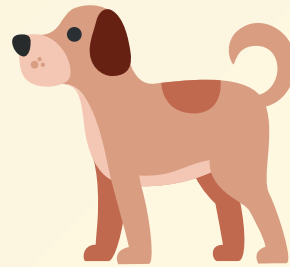
[JOHN PARNELL]









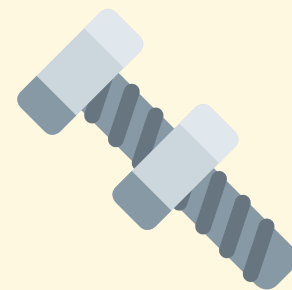
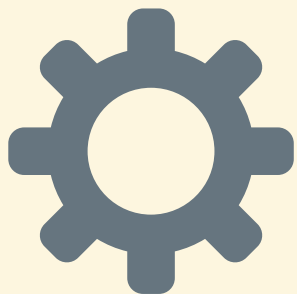






















estau-
250-

304-321-0111 or Pam, 250-2102
www.my.tupperware.ca/leonalevins

WANTED: Someone to go back in time with me. This is not a joke. P.O.Box 1004-1557-4th Avenue, Prince George, BC, V2L 3K1. You'll get paid after we get back. Must bring your own weapons. Safety not guaranteed. I have only done this once before.

S.
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18+

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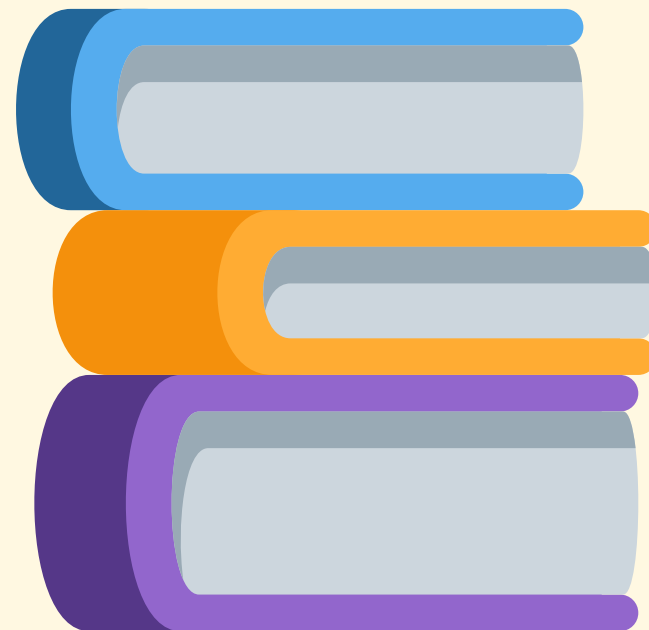
WANTED: ADMINISTRATION

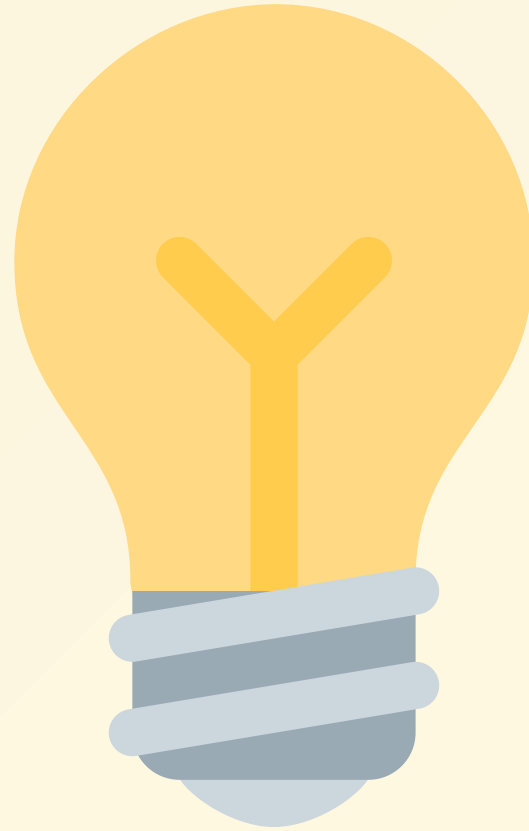
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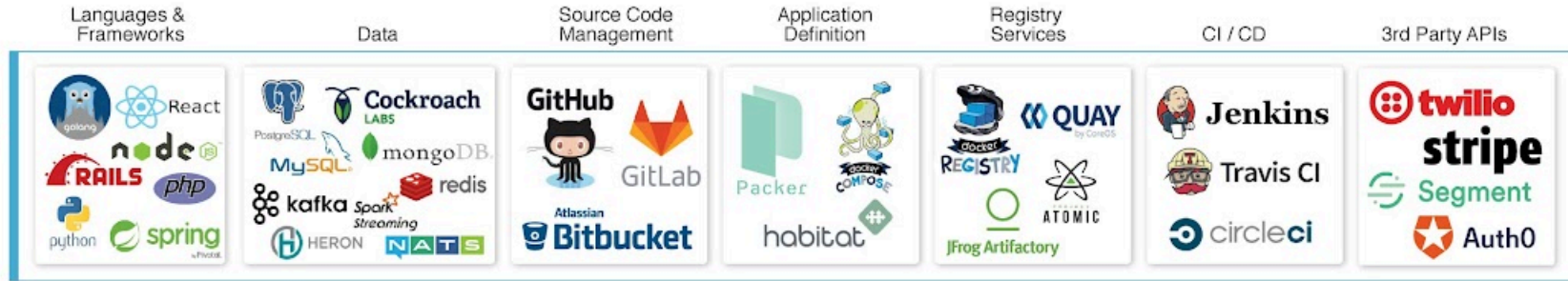








Application Definition & Development



Orchestration & Management



Runtime



Provisioning



Infrastructure



Platforms



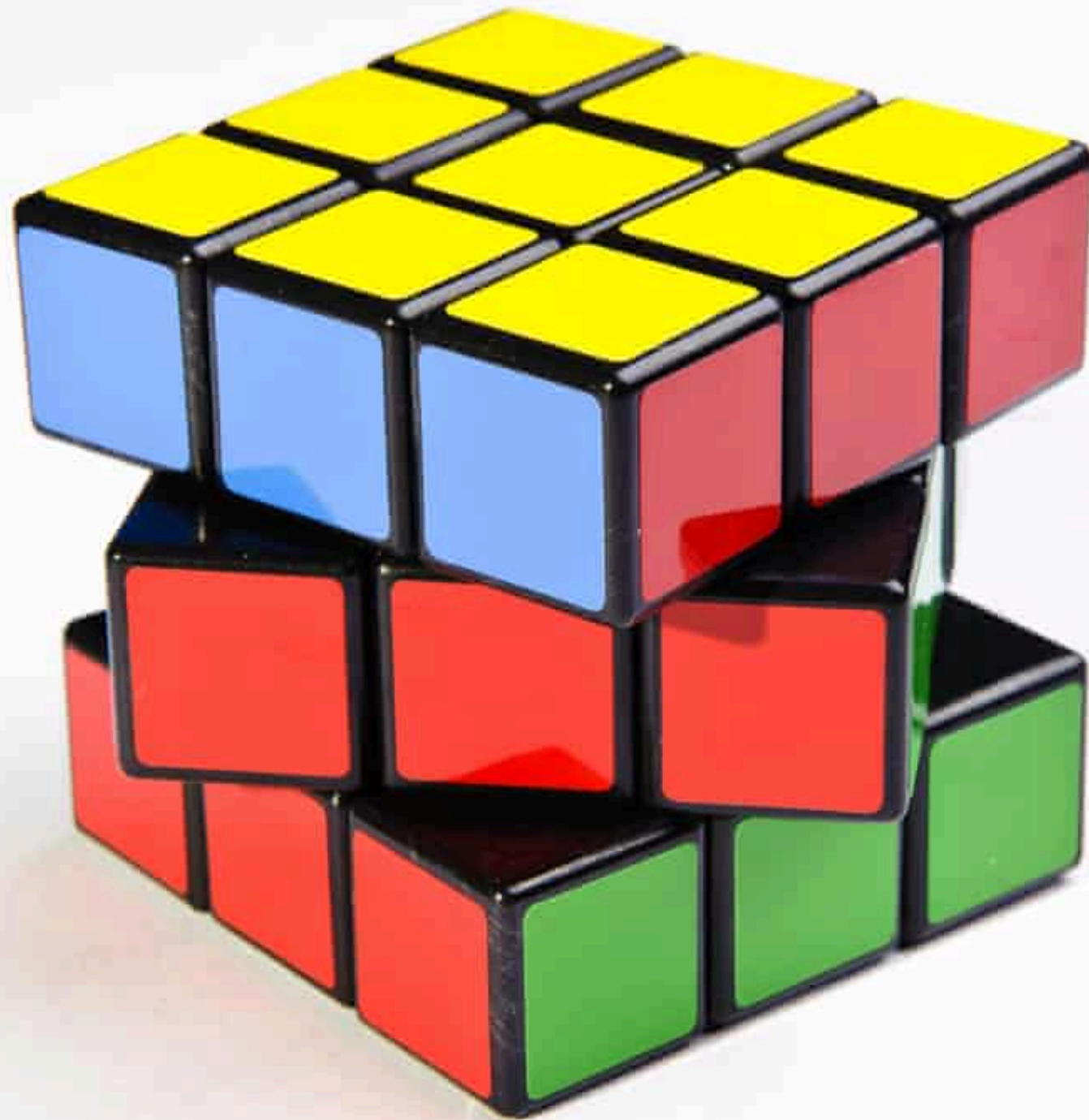
Observability & Analysis



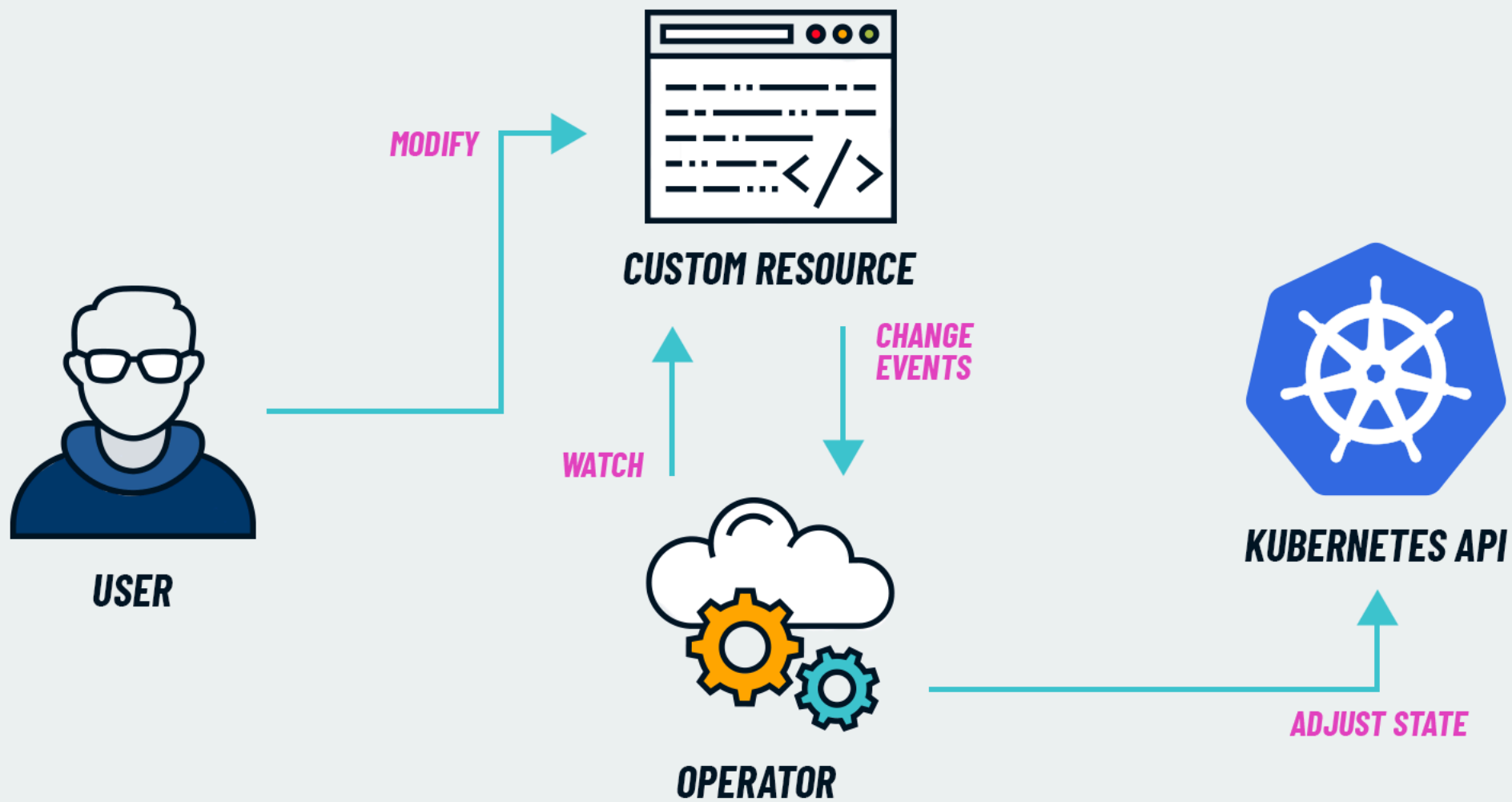
Monitoring

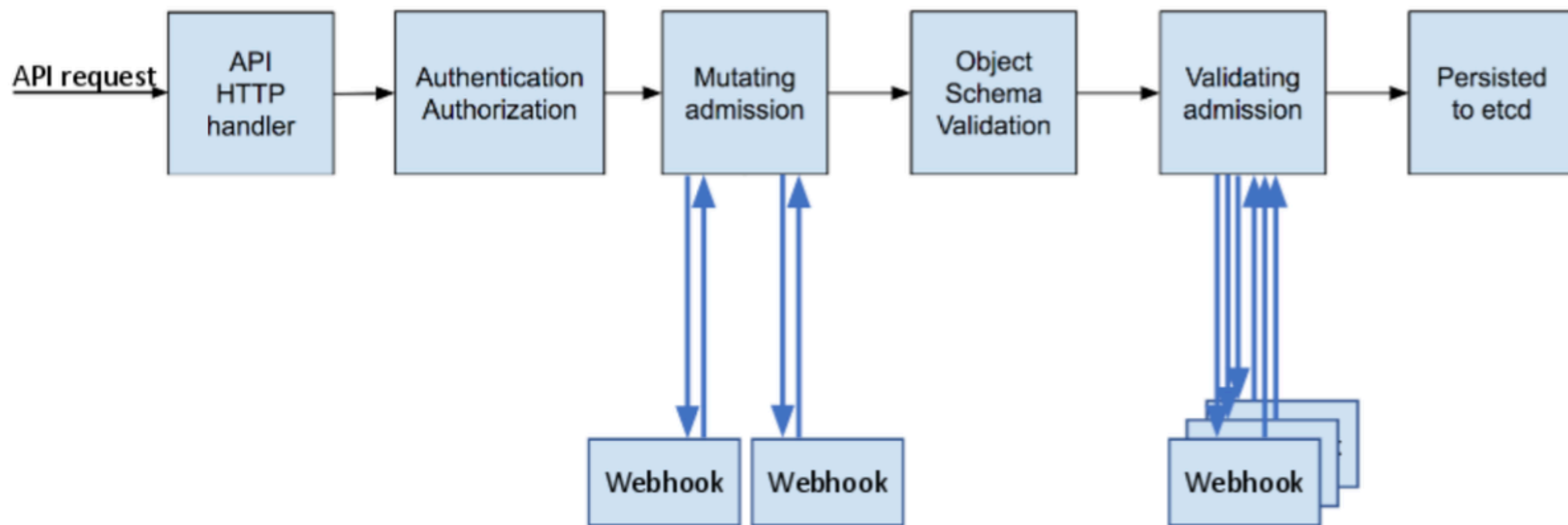
Logging

Tracing

















HELM



HELM



HELP



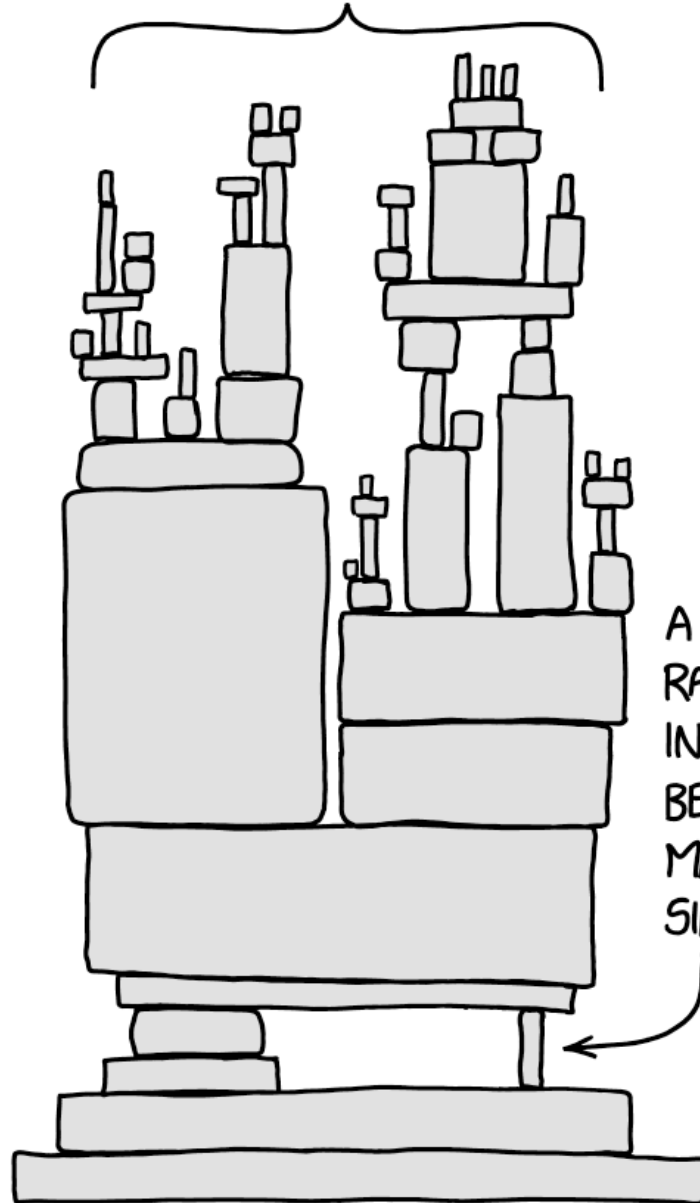








ALL MODERN DIGITAL INFRASTRUCTURE



A PROJECT SOME
RANDOM PERSON
IN NEBRASKA HAS
BEEN THANKLESSLY
MAINTAINING
SINCE 2003



GALAXY





CHEF

SUPERMARKET





forged





SEE YOU IN HELL

HAPPY

PLACE





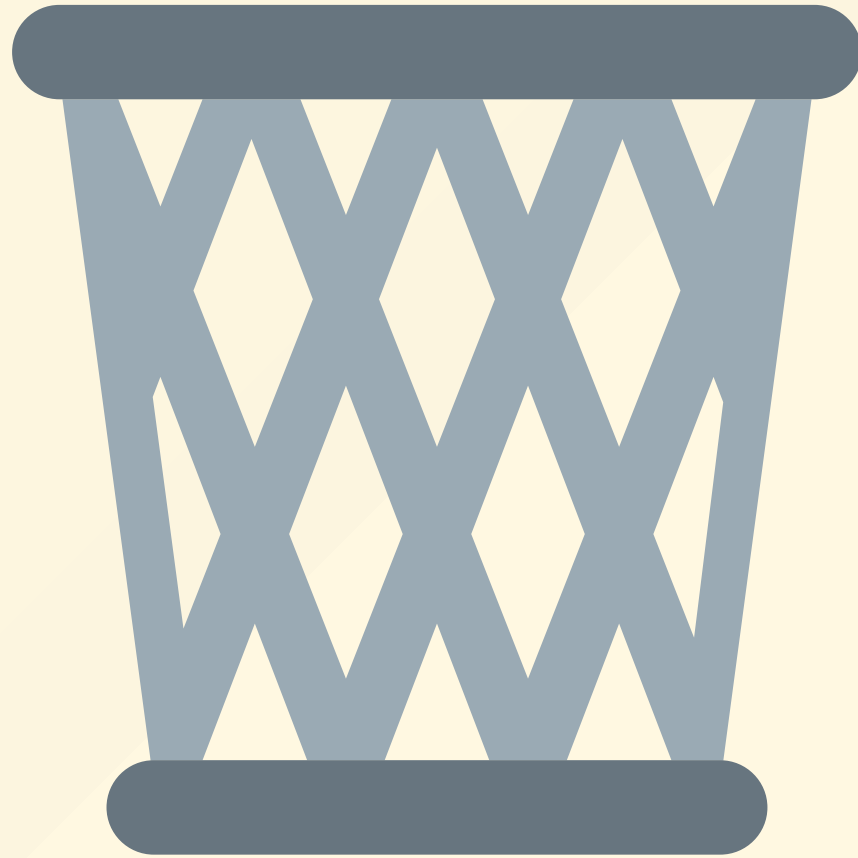






**BE KIND.
REWIND.**













KWZ[®]



KISS



KISS



14 1000 1000 1000 1000















#SchittsCreek

YOU EARNED IT



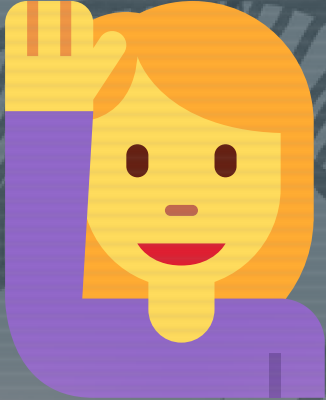


🙏 Thanks 🙏

- cns.me
- talks.cns.me
- github.com/chrisns
- learnk8s.io
- esynergy.co.uk
- controlplane.io

 Chris Nesbitt-Smith



Q&A   

cns.me

Chris Nesbitt-Smith