

Is it time to put your pet Kubernetes down?



Chris Nesbitt-Smith

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



Hello

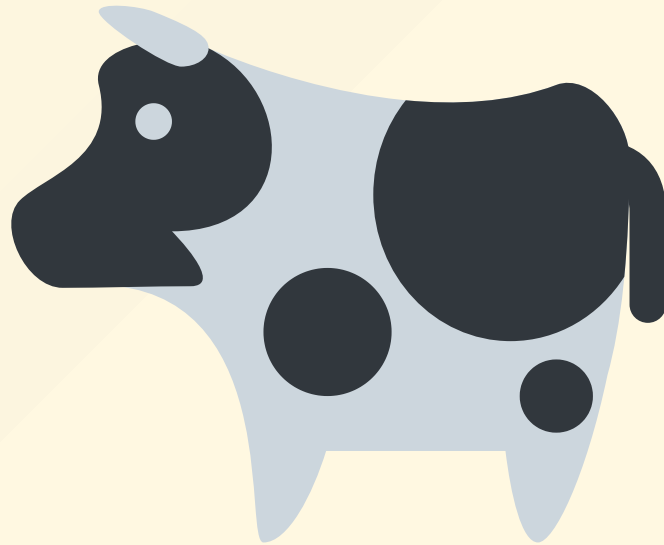
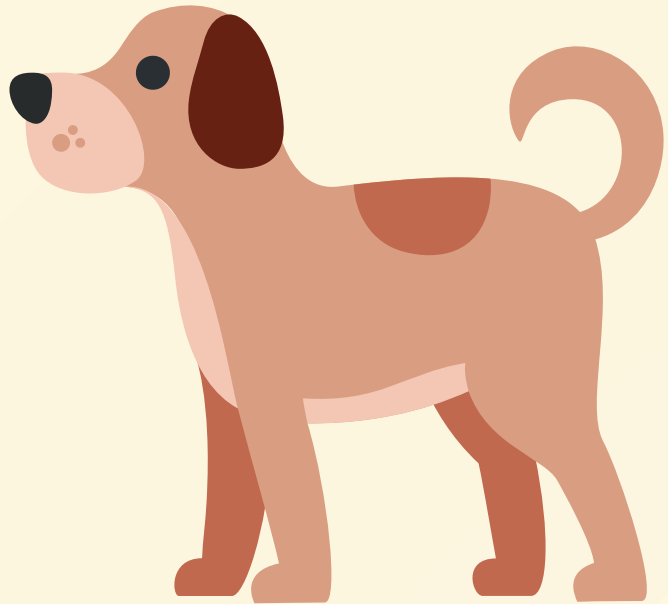


Chris Nesbitt-Smith

- **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(?)





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Kubernetes



"duh, we're doing Kubernetes"





Kubernetes: Nodes (naming)

```
$ kubectl get nodes
```

NAME	STATUS	ROLES	AGE	VERSION
<code>ip-10-170-7-102.eu-west-2.compute.internal</code>	Ready	<none>	24h	v1.21.5-eks-9017834
<code>ip-10-170-7-99.eu-west-2.compute.internal</code>	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-zhssf	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-5b47bdfd66-c2xj8	1/1	Running	0	24h
nginx-ingress	ingress-controller-5b47bdfd66-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

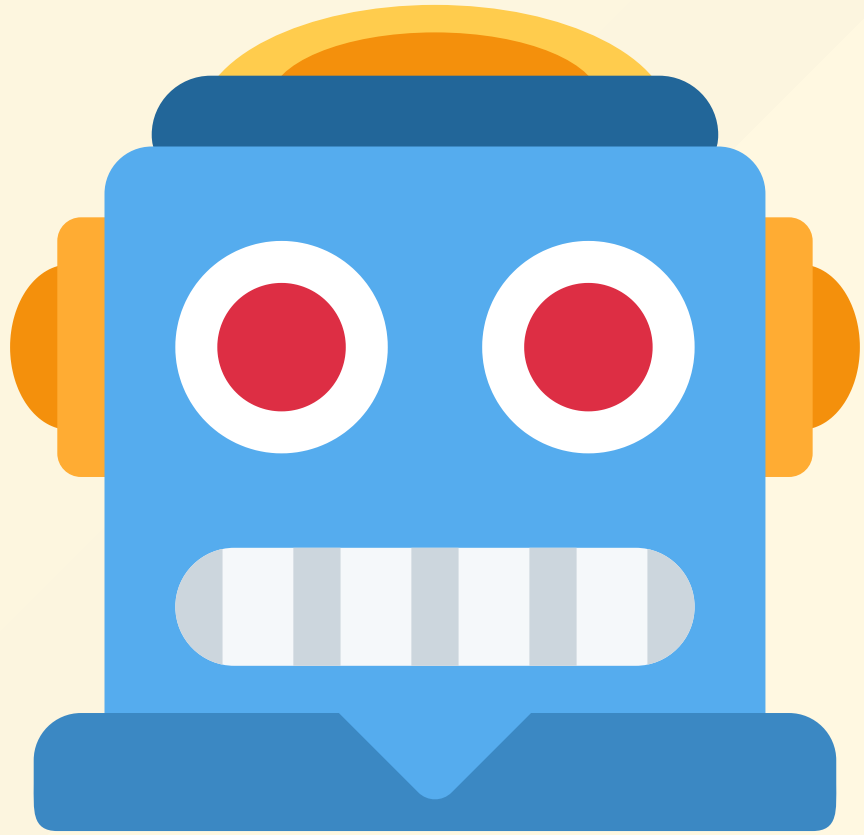
-  **www.mycompany.com**
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-  **stg.notprod.mycompany.com**
-  **qa.notprod.mycompany.com**



Well

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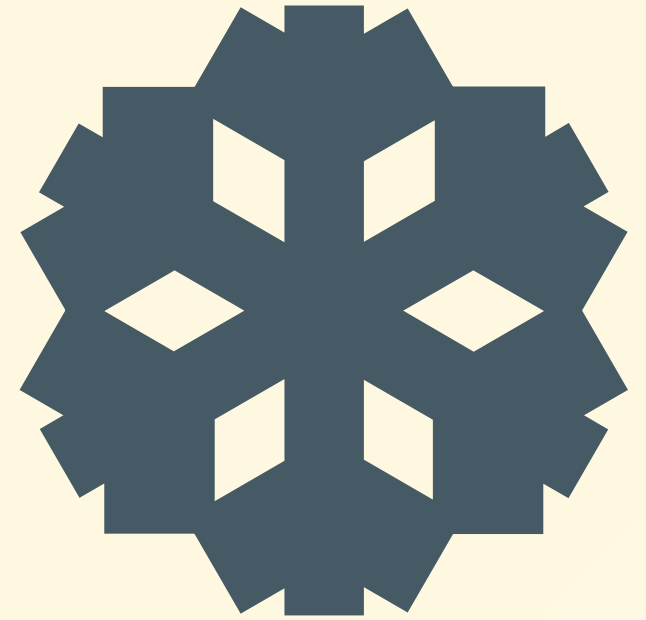


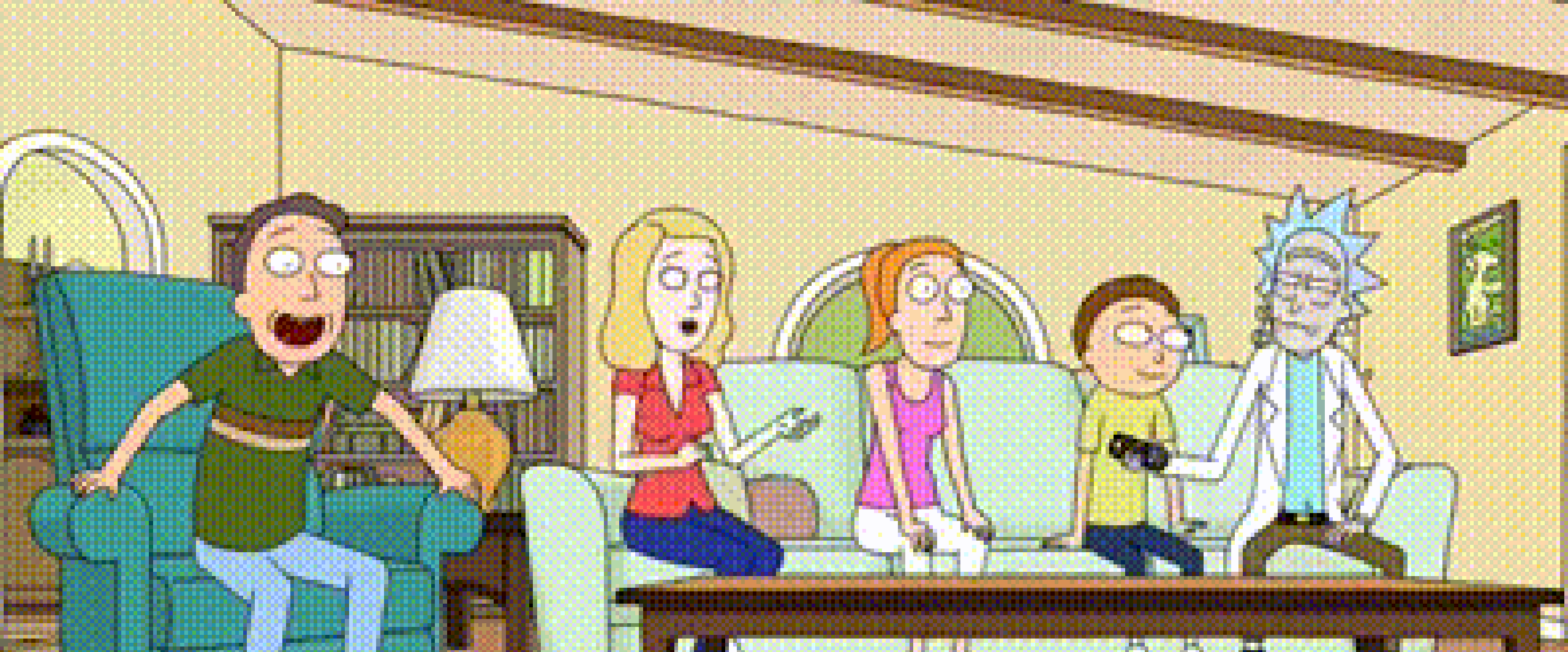


Day 2







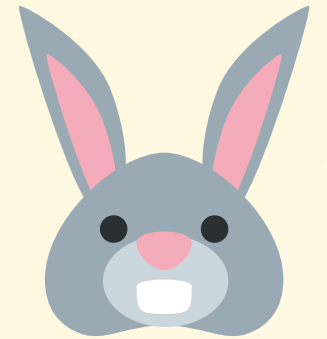
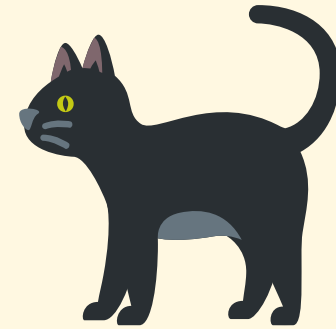
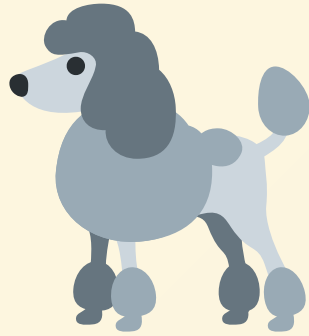
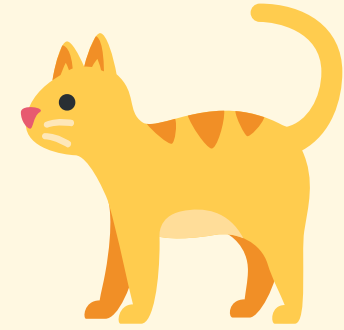
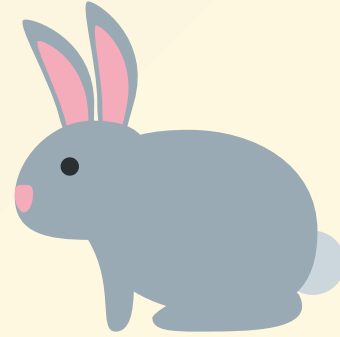
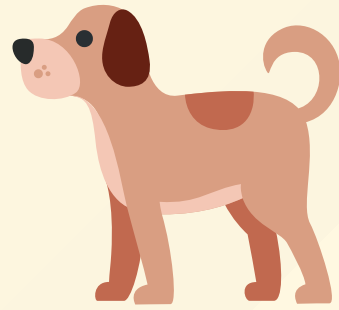


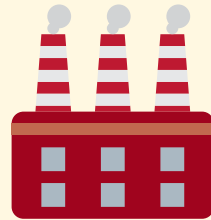
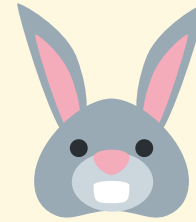
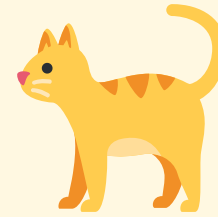
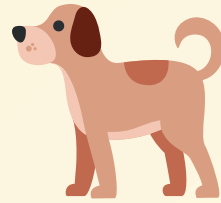
**INFINITE TIME LINES, INFINITE
POSSIBILITIES.**

BY JAMES PARNELL

© 2011 PARNELL

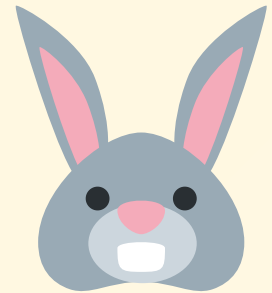
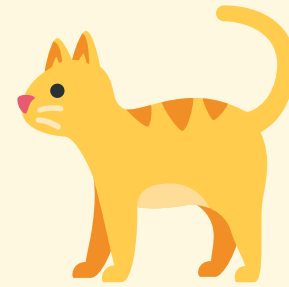
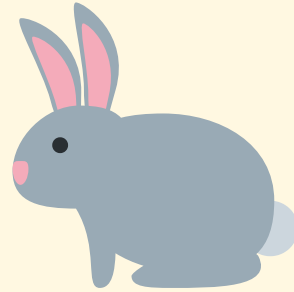








I ❤️

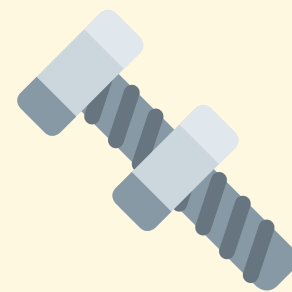
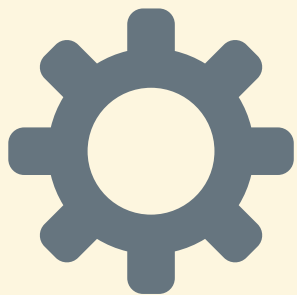






















**OXI
CLEAN**

estau-
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304-32... of Fall, ...-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.

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18+

260 ... ADMINISTRATION

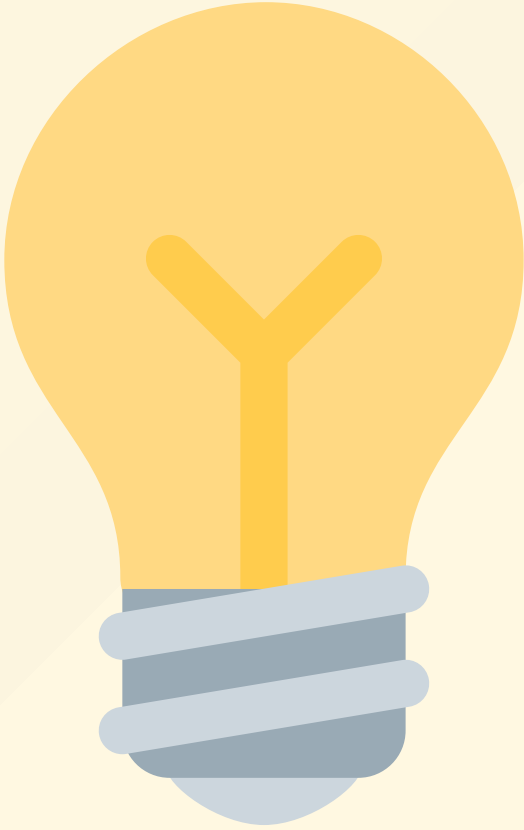
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Application Definition & Development

Languages & Frameworks	Data	Source Code Management	Application Definition	Registry Services	CI / CD	3rd Party APIs

Orchestration & Management

Scheduling & Orchestration	Coordination & Service Discovery	Service Management

Runtime

Cloud-Native Storage	Container Runtime	Cloud-Native Network

Provisioning

Infrastructure Automation	Host Management / Tooling	Secure Images

Infrastructure

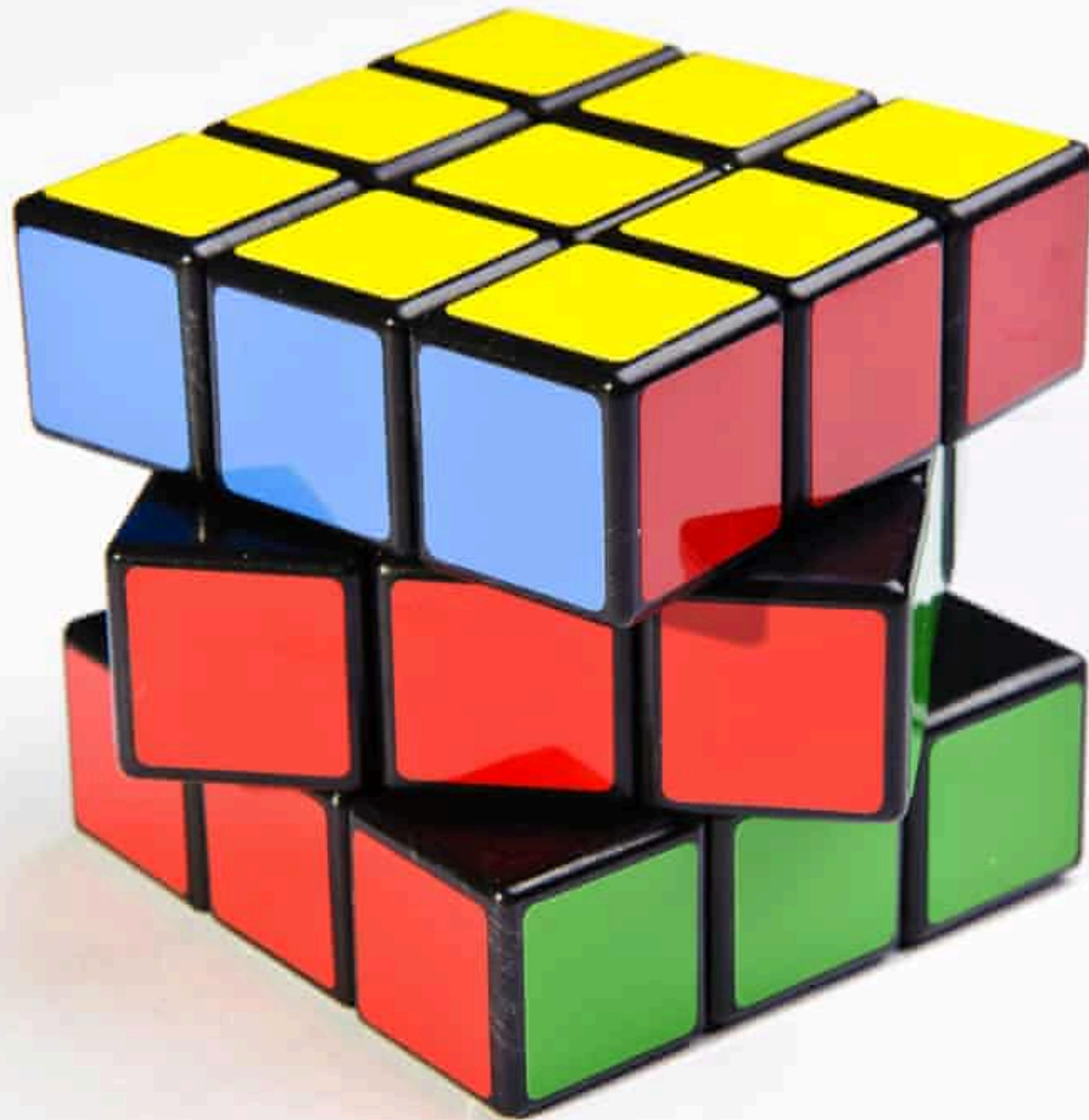
Platforms

Observability & Analysis

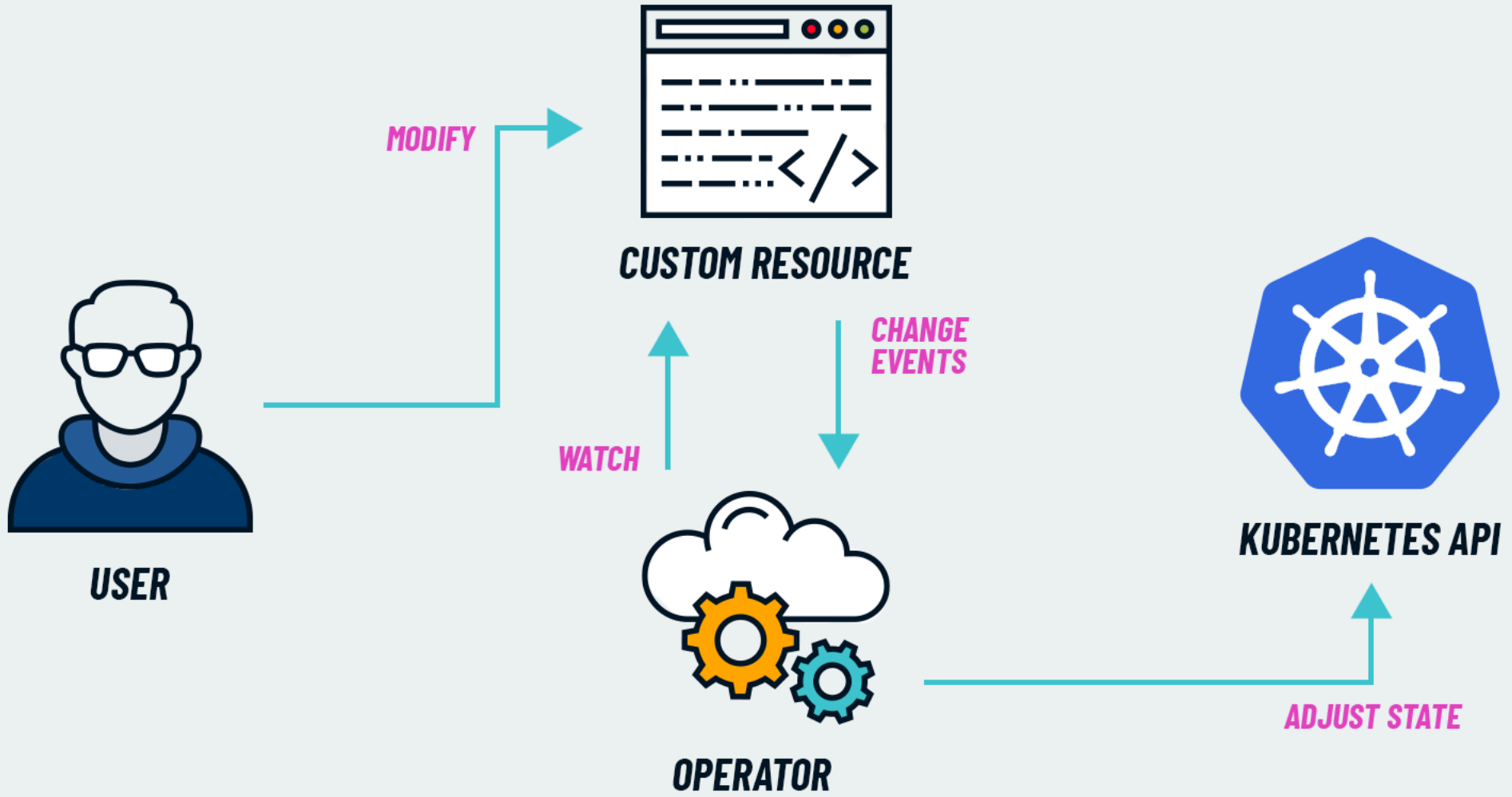
Monitoring

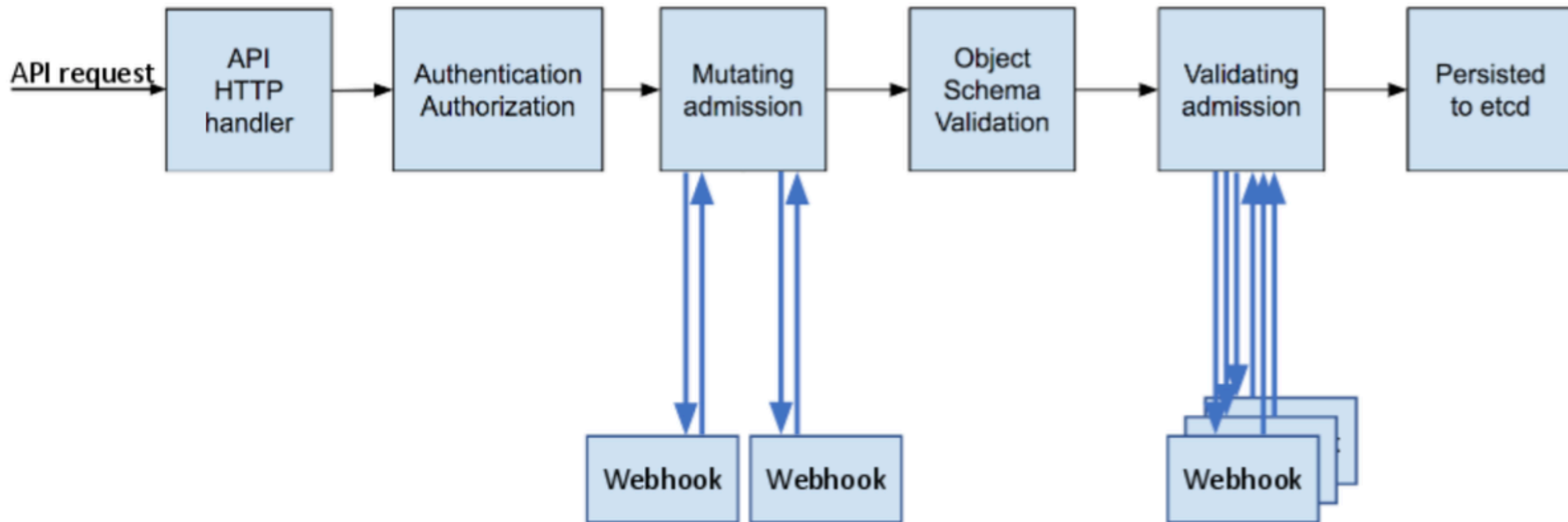
Logging

Tracing



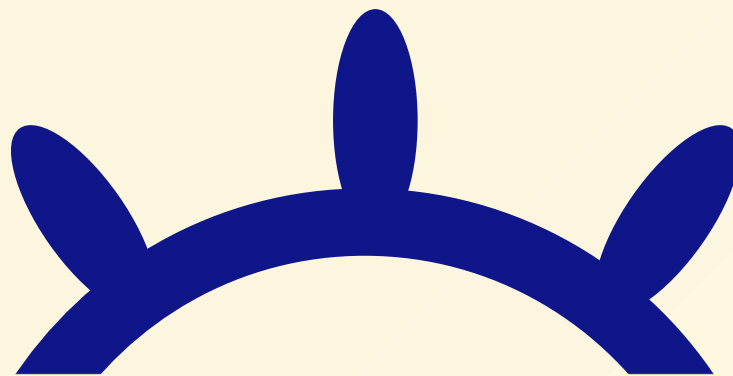




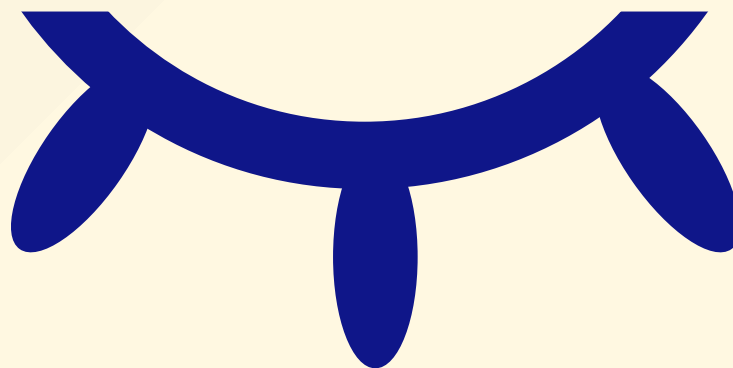








HELM





HELM



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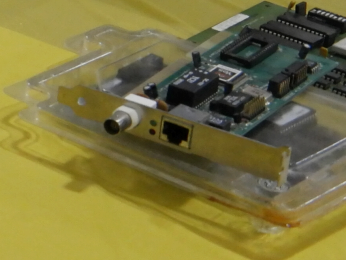




Small Group
About 10
Laptop Game
The Clean LAN room
web site...

ANTIC
The Clean LAN room
web site...

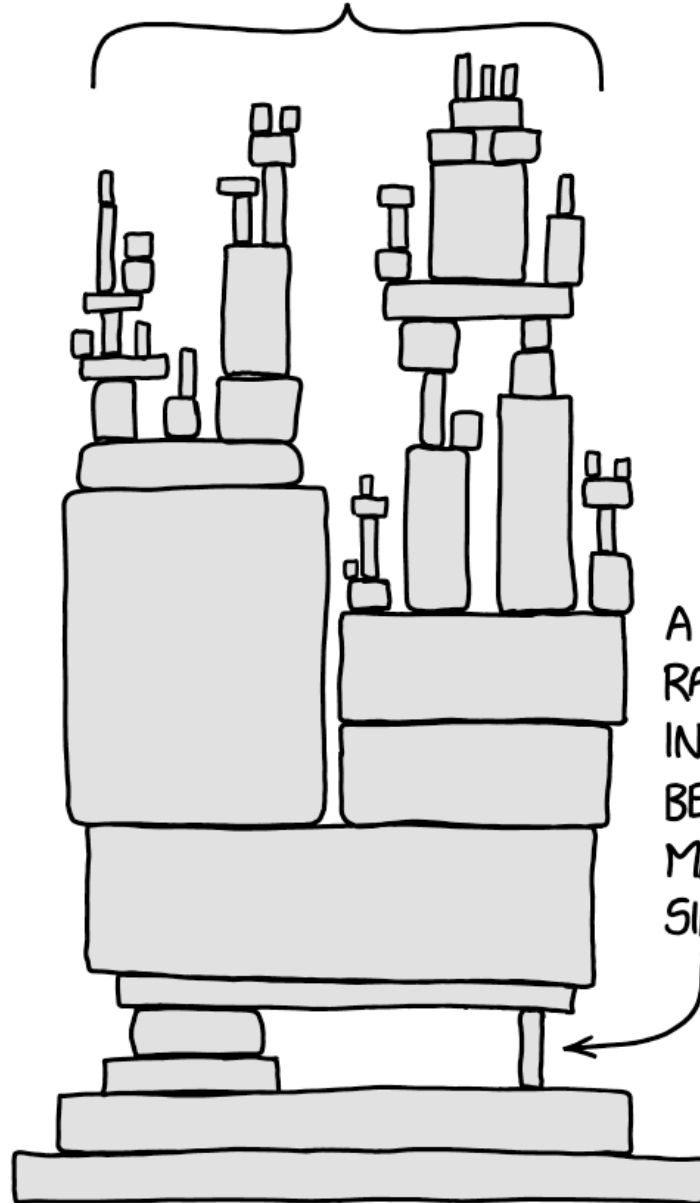
USABLE LAN PARTY
OF EARLY 1990s
DOOM WAS ONE OF THE
FIRST "LAN PARTY" GAMES
IT ALSO HAD 2 PLAYER
SERIAL AND MODEM NETWORK
CAPABILITIES







ALL MODERN DIGITAL
INFRASTRUCTURE



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





GALAXY





CHEF

SUPERMARKET





forge





SEE YOU IN HELL



HAPPY

PLACE









RENSOM

SUN WITH US

RENSOM

RENSOM

RENSOM

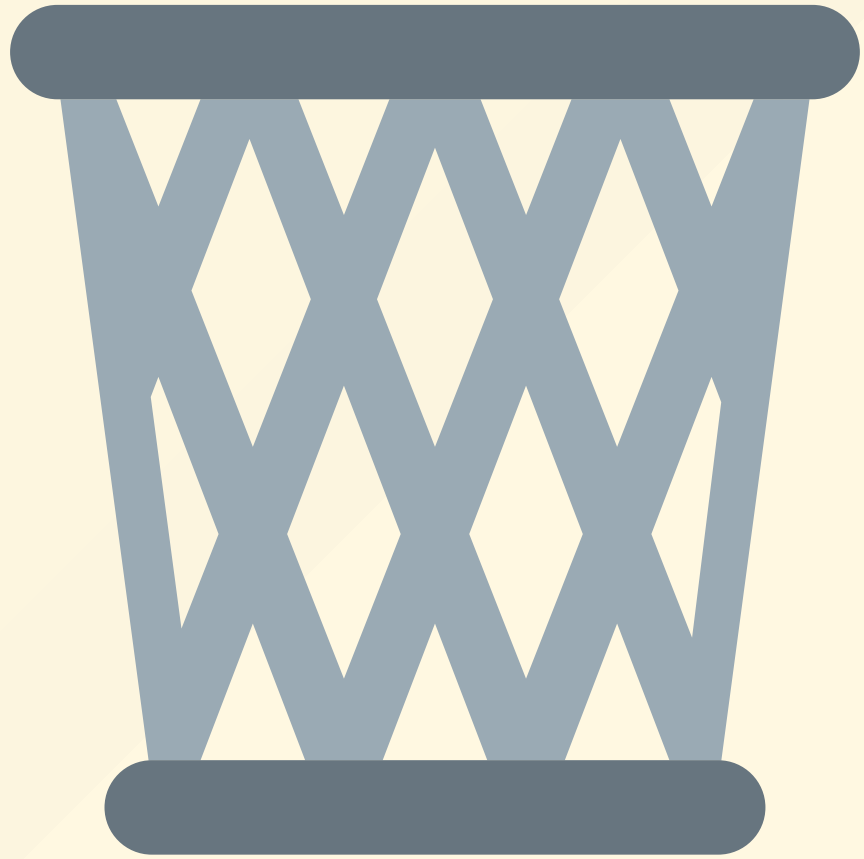






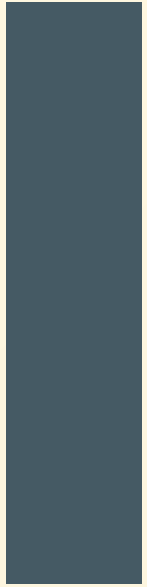
**BE KIND.
REWIND.**













KWAZ®



KISS

Keep It Stupid Simple

KISS

 Keep It Simple, Stupid















#SchittsCreek

YOU EARNED IT



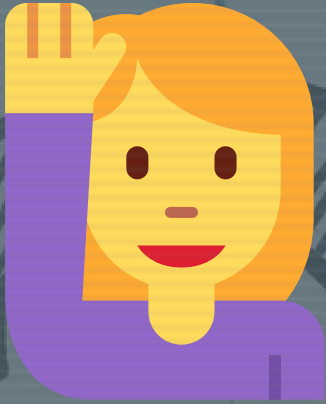




🙏 Thanks 🙏

- 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

