



# CKA & CKAD

Certified Kubernetes \* 101 and AMA



# CHRISTIAN JANTZ



- CNCF Ambassador
- Founder Level 25
- CKA & CKAD
- Involved in kops & sig-release
- I hate slides – so I whiteboard

# WHY

- Kubernetes is growing fast
- Validation
- Kubernetes Certified Service Provider
- Future job?
- Current job?

# REQUIRED

- Storing files on linux
- Using bash
  - Preferably ubuntu experience
- ssh
- kubectl commands

# PRIVILEGES

- Do at home
  - In Chrome
- Interactive
- Open book
  - Kubernetes.io/docs/
  - Github.com/kubernetes/
  - Kubernetes.io/blog/
- Free retry (if you fail)

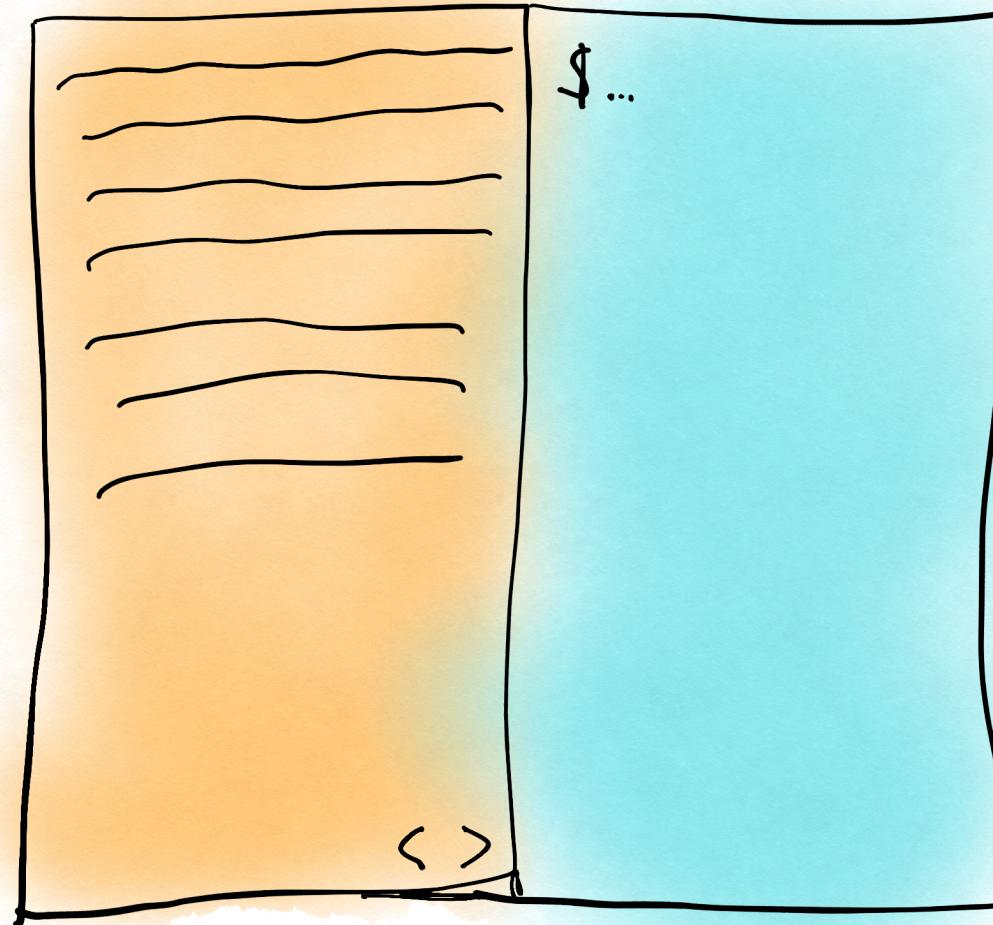
## TESTING ENVIRONMENT

- Be alone
- Clean desk
- Source of light
  - In front of you
  - Above you
  - NOT behind you
- Stable internet connection

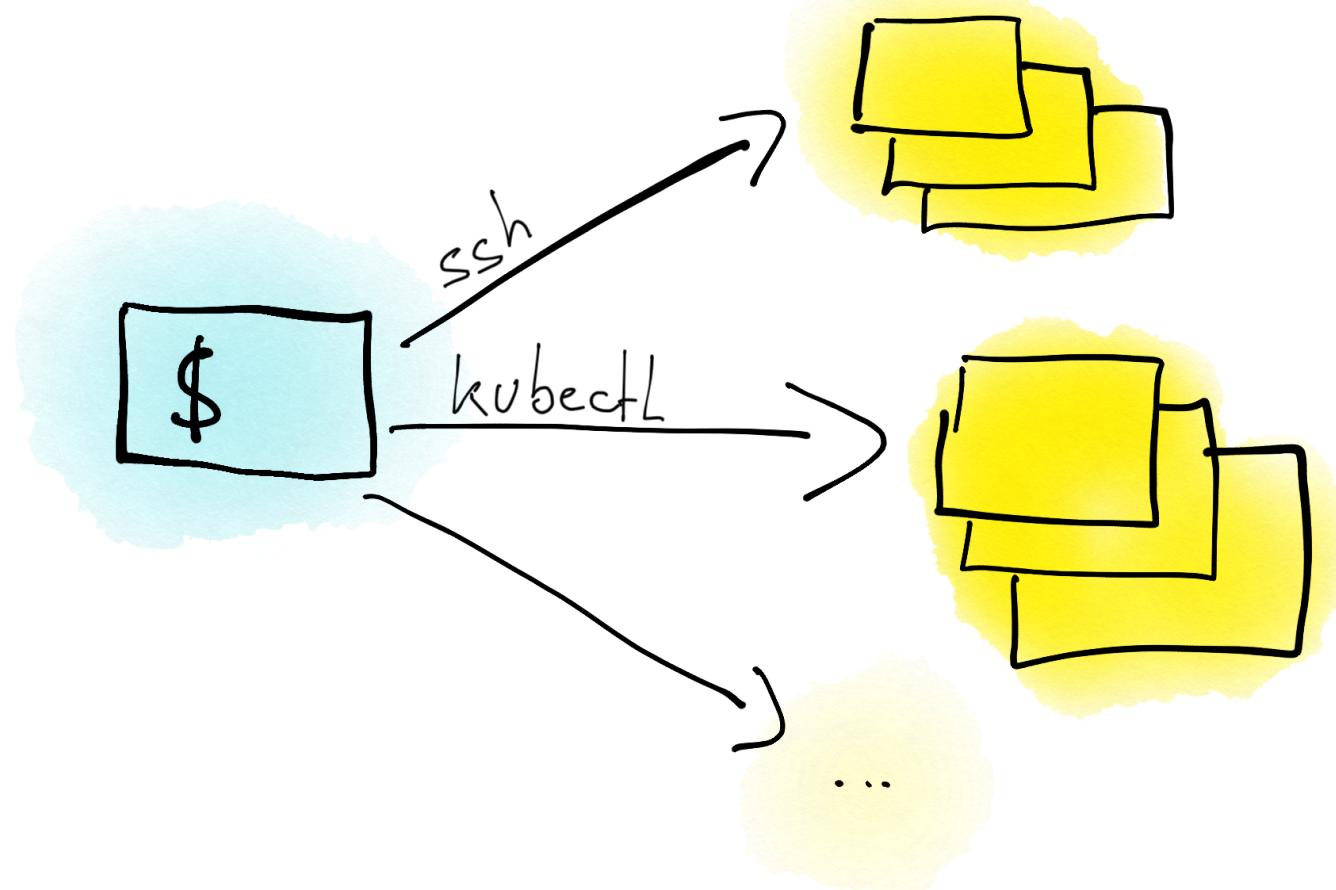
## TESTING ENVIRONMENT /2

- Visible mouth
- Don't talk
- No cheat sheets 😬

LEVEL  
**25** 



LEVEL  
25 



```
$ kubectl config use-context
```





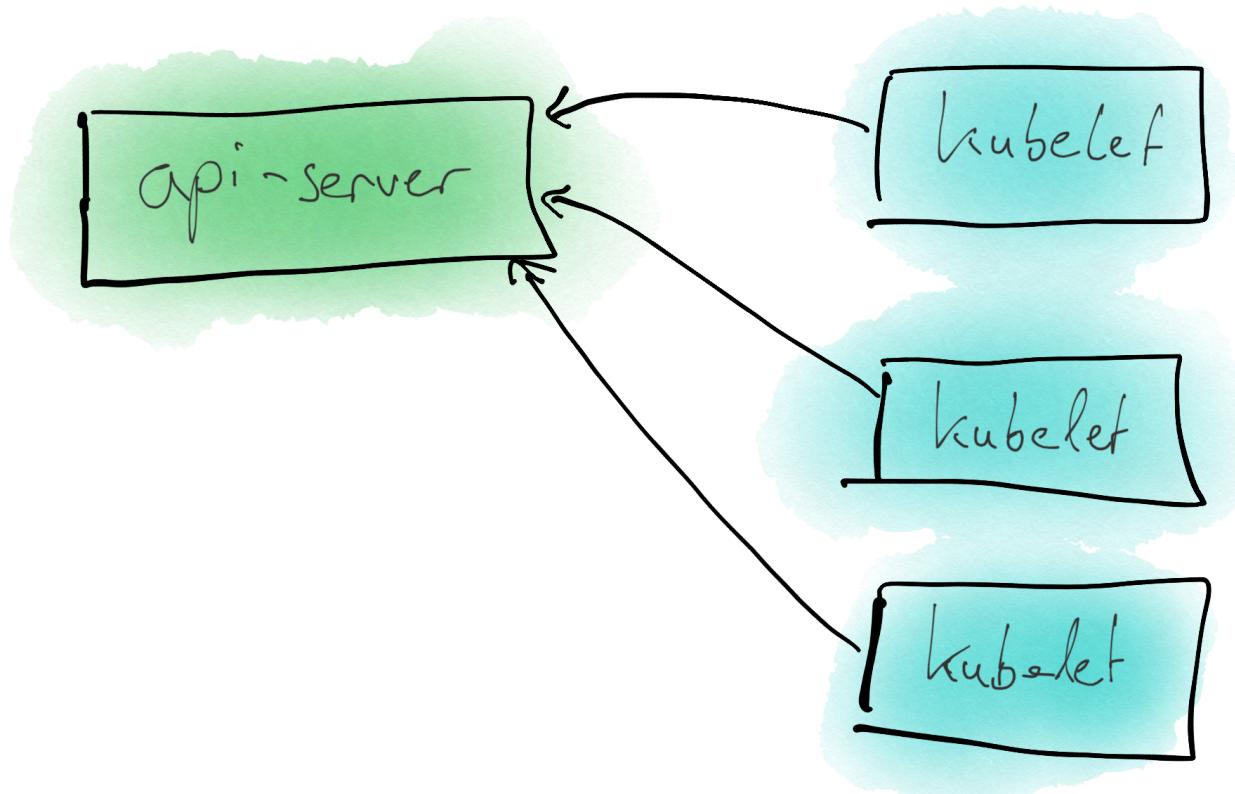
Application Developer (CKAD)	Administrator (CKA)
13% – Core Concepts	19% – Core Concepts
18% – Configuration	12% – Installation, Configuration & Validation
10% – Multi-Container Pods	
18% – Observability	
20% – Pod Design	
13% – Services & Networking	
8% – State Persistence	8% – Application Lifecycle Management
	11% – Networking
	5% – Scheduling
	12% – Security
	11% – Cluster Maintenance
	5% – Logging / Monitoring
	7% – Storage
	10% – Troubleshooting



Application Developer (CKAD)	Administrator (CKA)
2 hours	3 hours
19 problems	24 problems
Developers	
DevOps Engineers	DevOps Engineers
	System Operators

## To STUDY

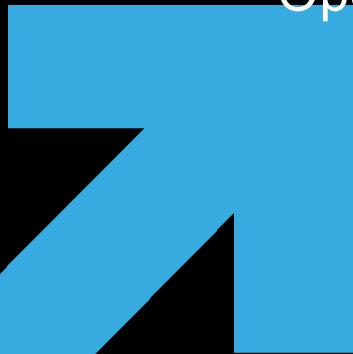
- Create clusters
  - Using kubeadm
  - Version 1.18 is used in exam
- Update clusters
- <https://kubernetes.io/docs/tasks/debug-application-cluster/debug-cluster/>
- <https://training.linuxfoundation.org/go/cka-ckad-candidate-handbook>
- <https://github.com/cncf/curriculum>



# IMPORTANT

Learn PLAIN kubernetes

Open Source and commercial installers won't help you here



# HACKS

- kubectl create --dry-run=client –o yaml
- kubectl explain ...
- kubectl describe ...

## BE POSITIVE

- CNCF wants you to succeed
- Doable by anyone with enough time
- Automated validation engine
- **Core** Kubernetes
- Can be solved with Kubernetes.io
  
- Have fun while going through it!



## LEARN WITH INSTRUCTORS

- Linux Foundation Training
  - LFS458
  - LFD459
- Level 25 Training
  - Kubernetes Administrator Masterclass
  - Kubernetes Developer Masterclass





# THANK YOU

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