

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

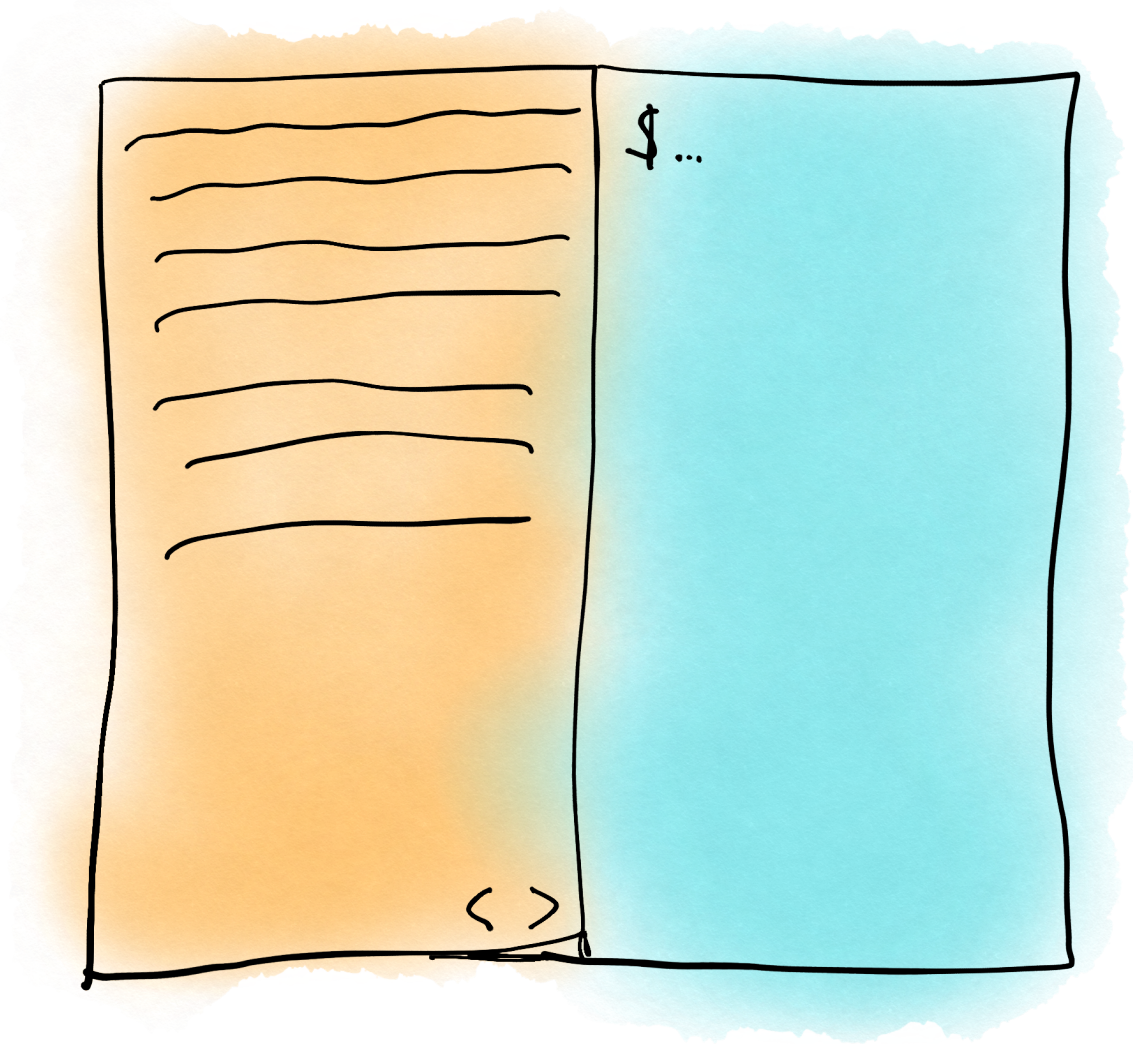
- Do at home
 - In Chrome
- Interactive
- Open book
 - [Kubernetes.io/docs/](https://kubernetes.io/docs/)
 - [Github.com/kubernetes/](https://github.com/kubernetes/)
 - [Kubernetes.io/blog/](https://kubernetes.io/blog/)
- Free retry (if you fail)

TESTING ENVIRONMENT

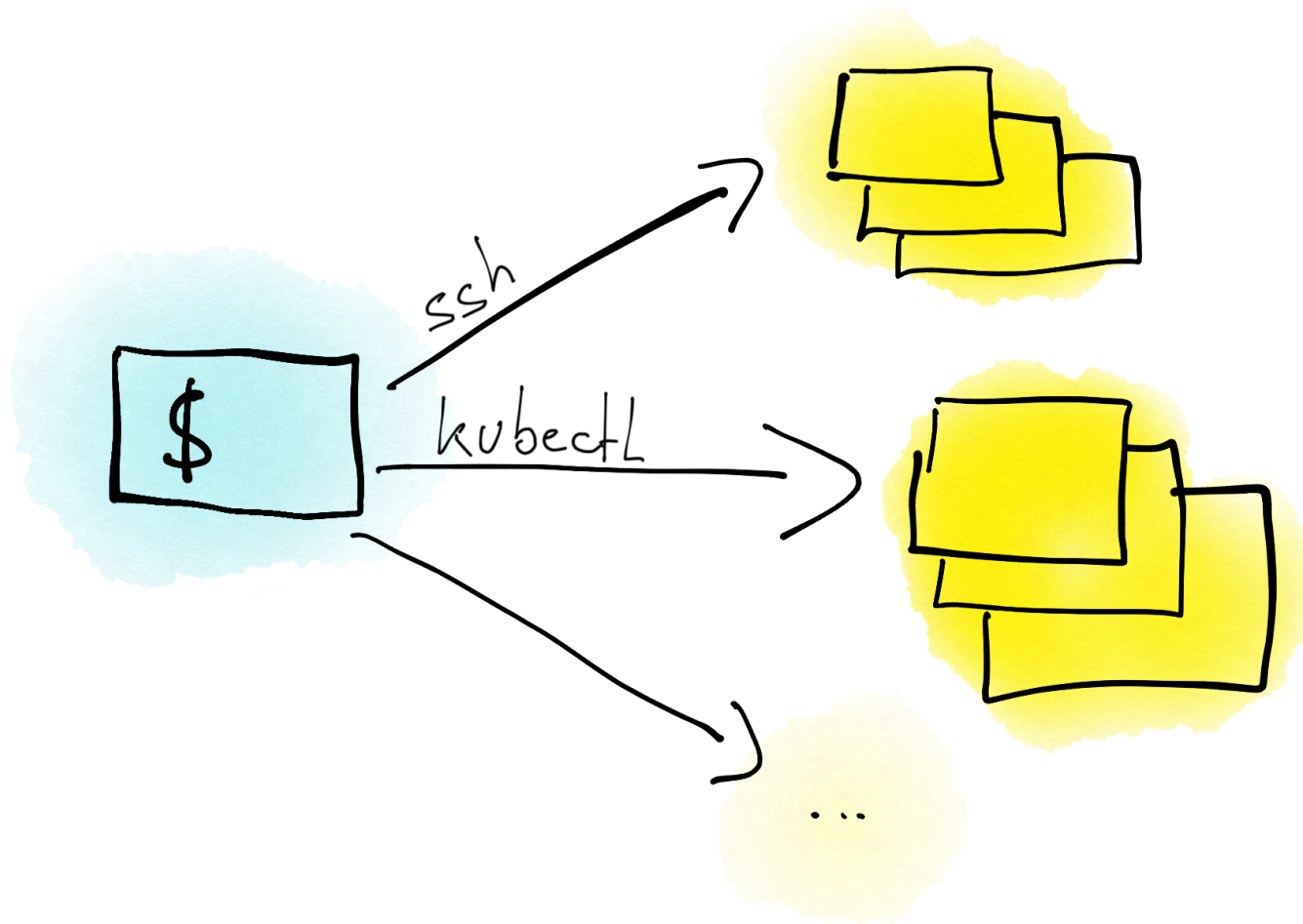
- Be alone
- Clean desk
- Source of light
 - In front of you
 - Above you
 - NOT behind you
- Stable internet connection

TESTING ENVIRONMENT /2

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



LEVEL
25 



\$ kubectl config use-context

LEVEL
25 

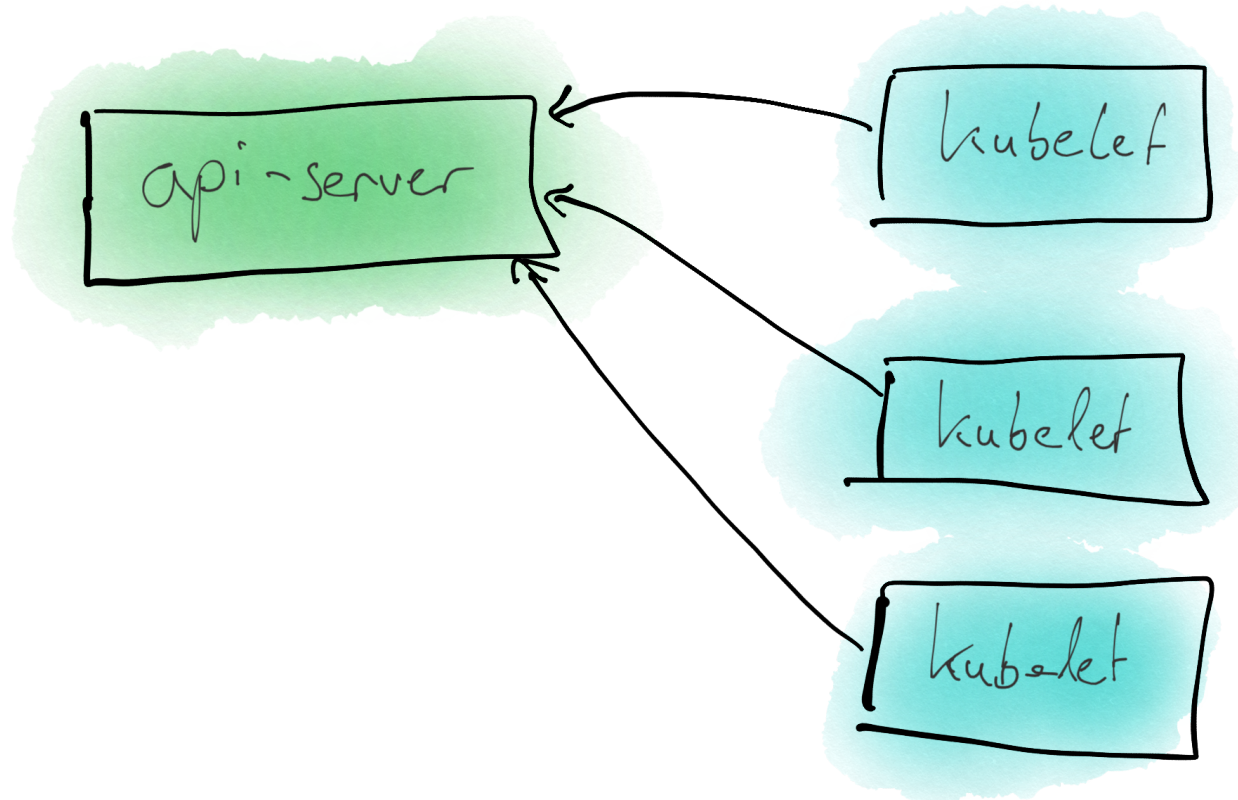
Application Developer (CKAD)	Administrator (CKA)
13% – Core Concepts	19% – Core Concepts
18% – Configuration	12% – Installation, Configuration & Validation
10% – Multi-Container Pods	
18% – Observability	
20% – Pod Design	
13% – Services & Networking	
8% – State Persistence	
	8% – Application Lifecycle 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](https://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

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THANK YOU

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