

# What is Kubernetes

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**Nigel Poulton**

@nigelpoulton [www.nigelpoulton.com](http://www.nigelpoulton.com)



# Agenda

**Kubernetes History**

**Kubernetes Primer**

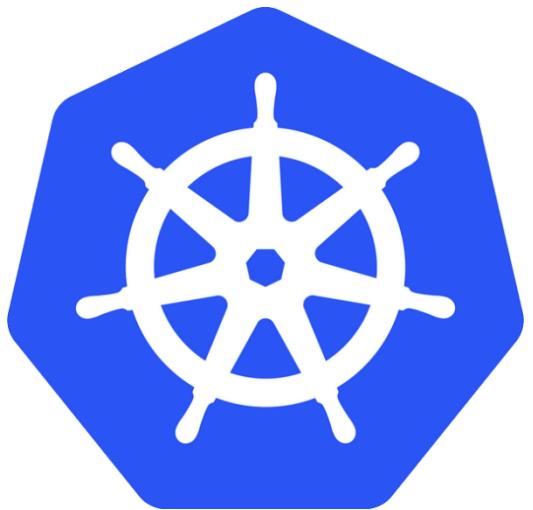


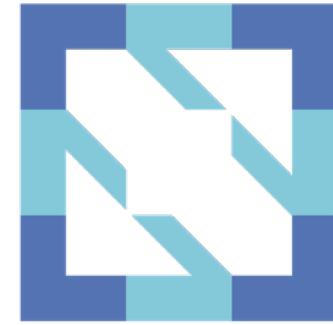
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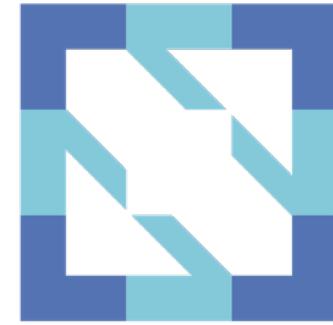






**CLOUD NATIVE  
COMPUTING FOUNDATION**





**CLOUD NATIVE  
COMPUTING FOUNDATION**

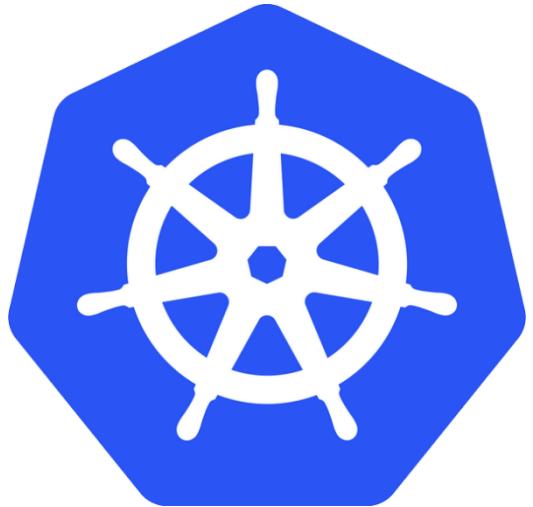






[github.com/kubernetes/kubernetes](https://github.com/kubernetes/kubernetes)





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 @kubernetesio

 slack.k8s.io

 meetup

 @nigelpoulton





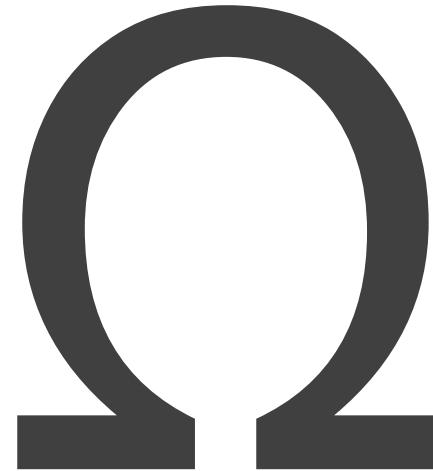
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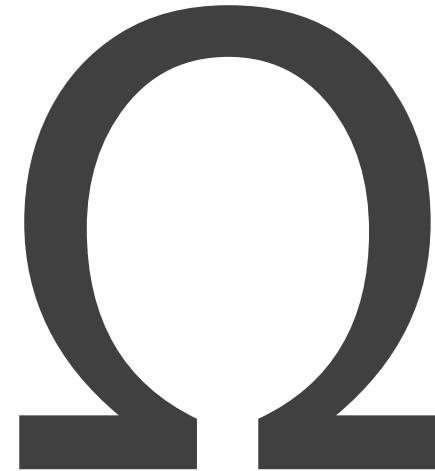
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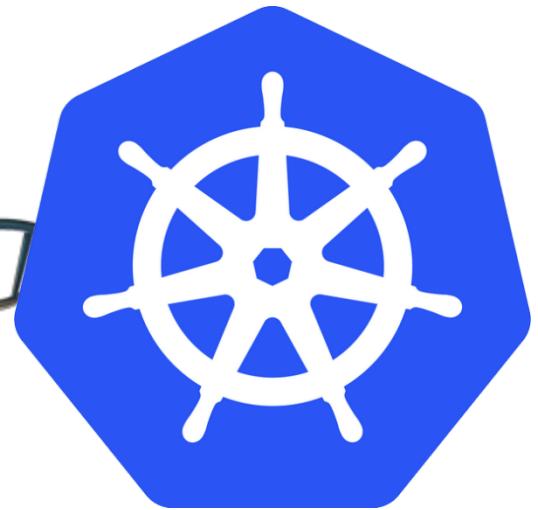




Borg  
(Proprietary)



Omega  
(Proprietary)



Kubernetes  
(open-source)

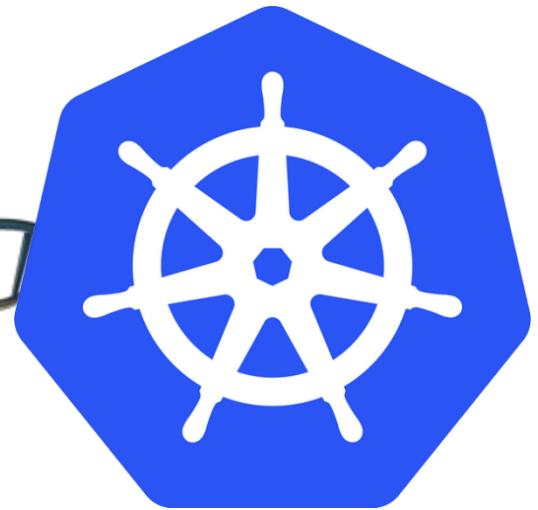




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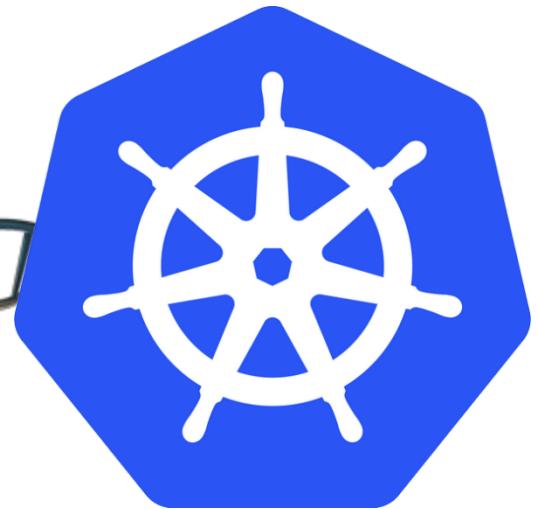




Borg  
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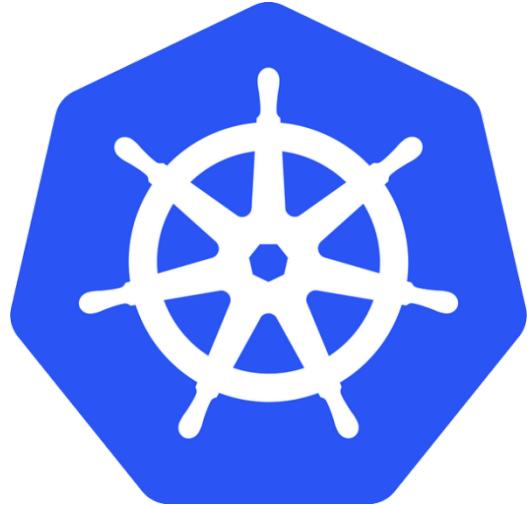
Omega  
(Proprietary)



Kubernetes  
(open-source)







# Version 1 in July 2015

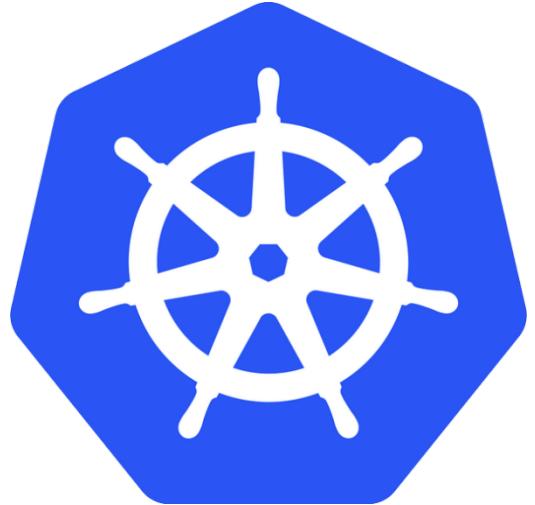
Increasingly stable and mature





# Kubernetes

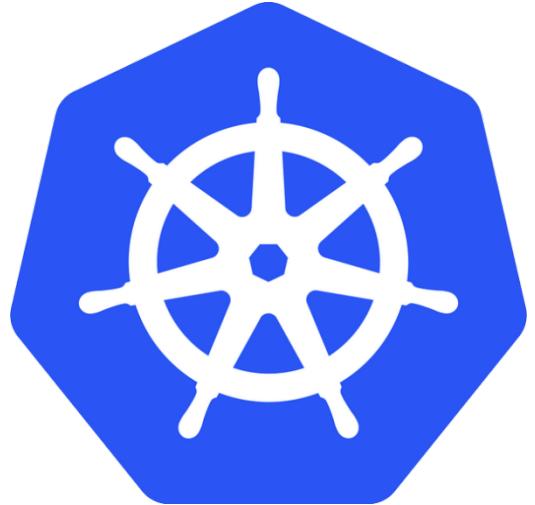




# Kubernetes

Greek for “Helmsman” < the person who steers a ship

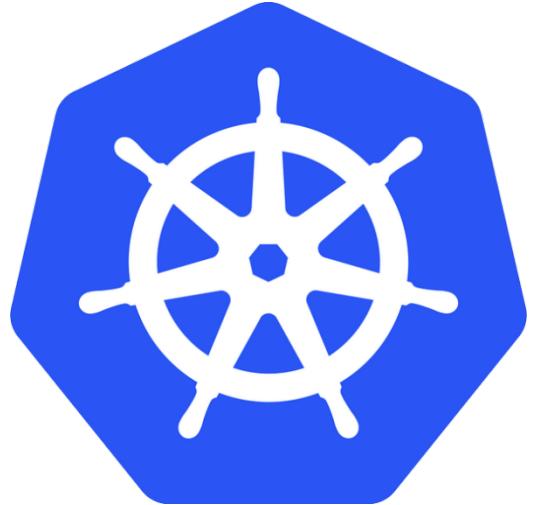




# Kubernetes

Greek for “Helmsman” < the person who steers a ship





Seven of Nine





# Seven of Nine

Borg drone rescued by USS Voyager under the command of Captain Kathryn Janeway.





# Seven of Nine

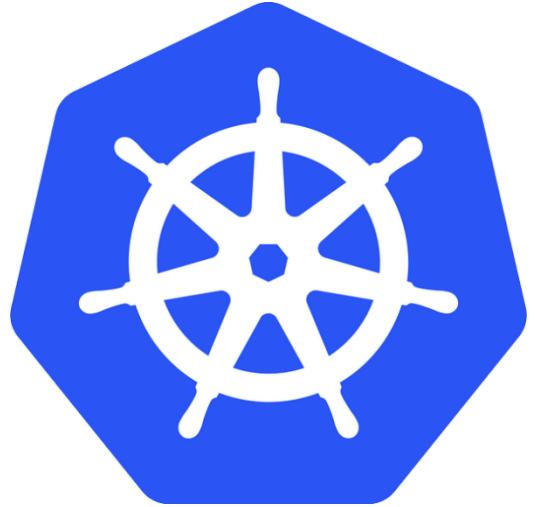
Borg drone rescued by USS Voyager under the command of Captain Kathryn Janeway.





# Kubernetes





Kubernetes





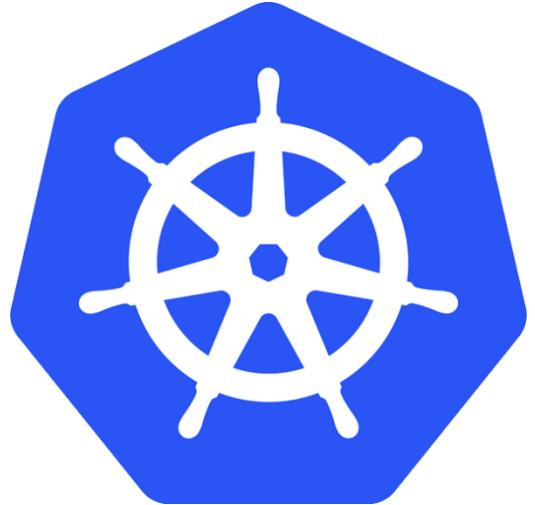
K8s





Kubernetes  
K8s





Kubernetes  
K8s



Up Next:  
Kubernetes: What and Why

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# Kubernetes: What and Why

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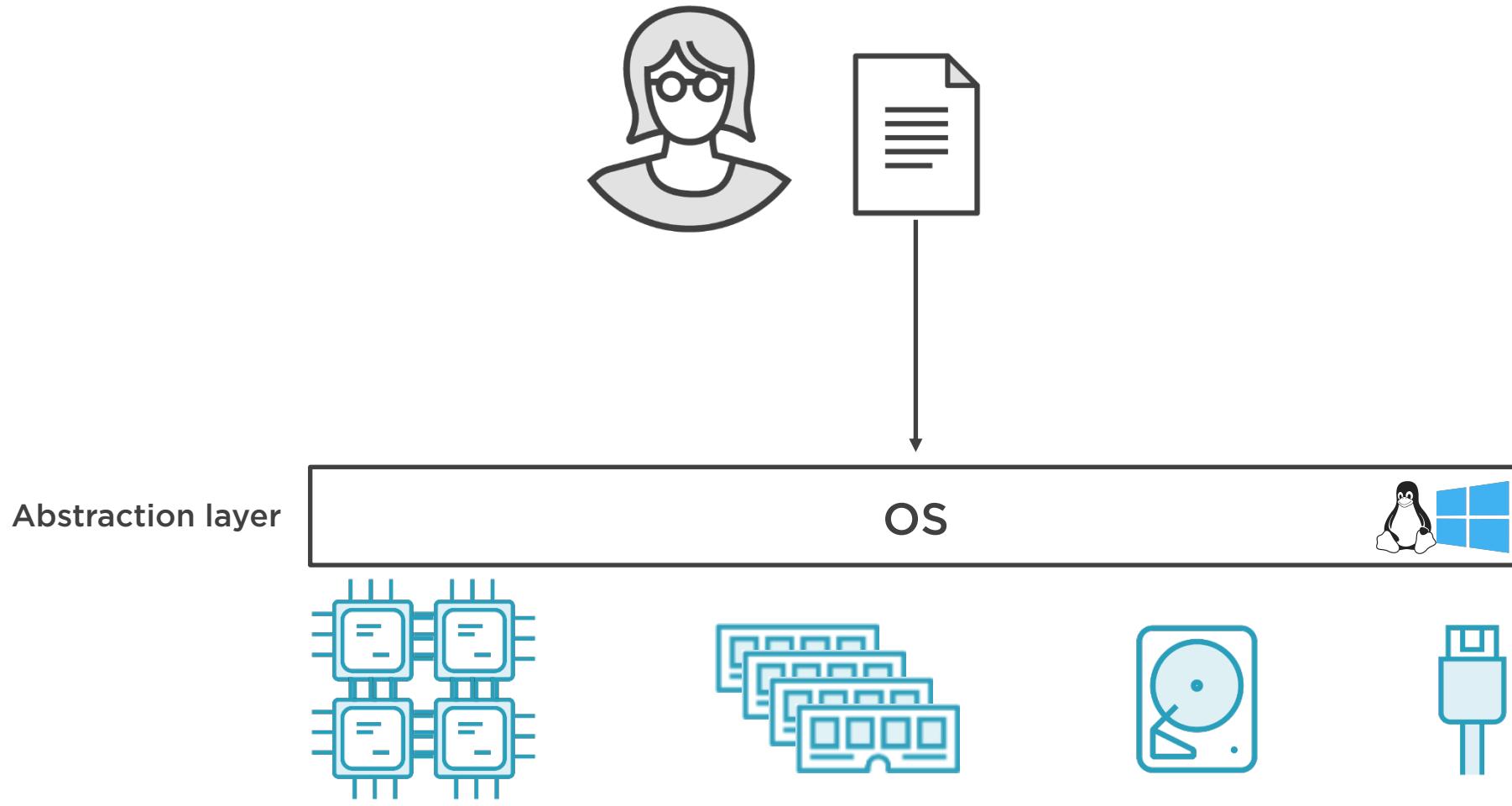
# Docker and Kubernetes: The Big Picture

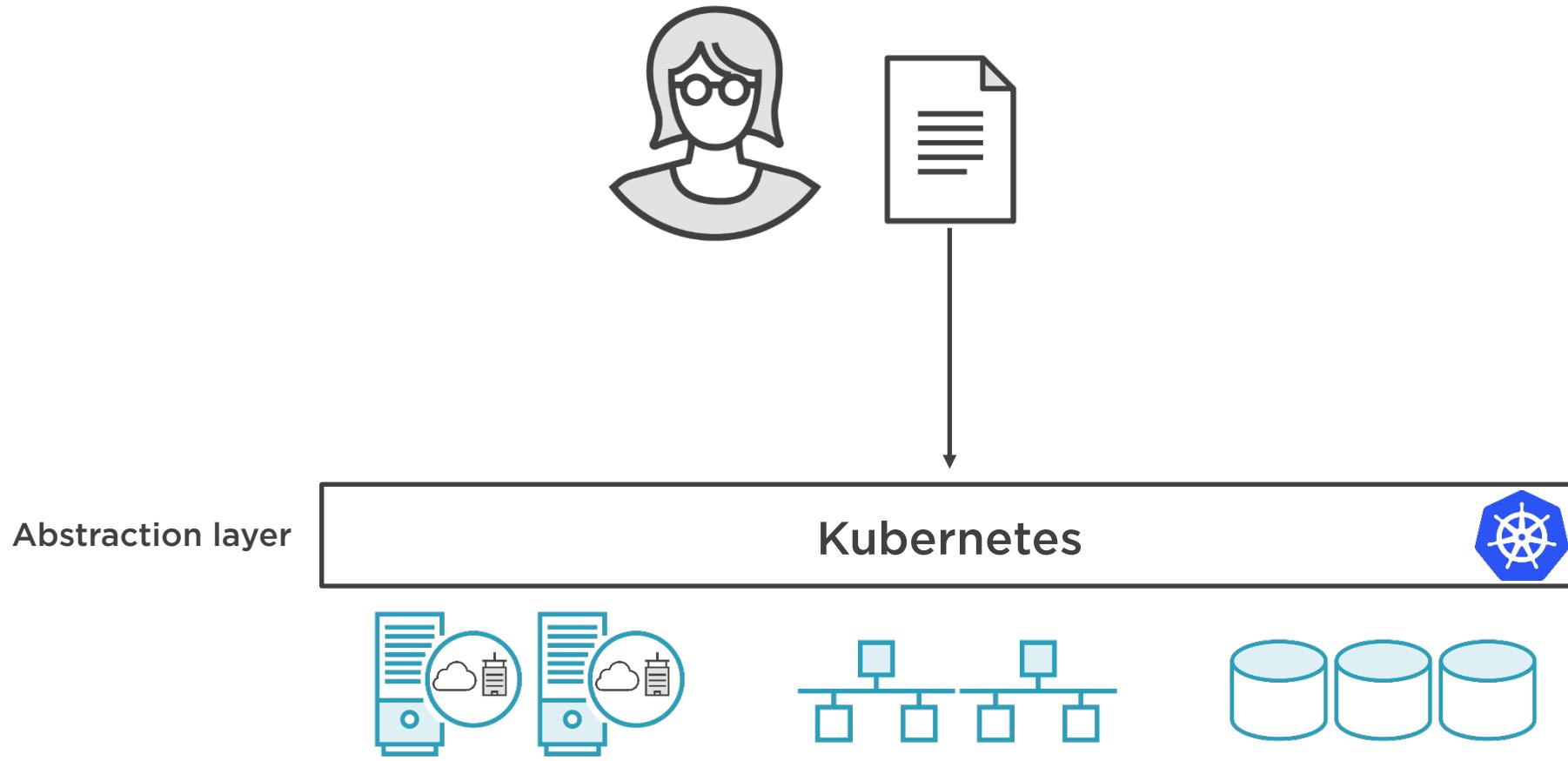


Containers and microservices bring a whole new set of management challenges...

**Kubernetes to the rescue!**









- Standard package format
- Manifest
- Job done!





- **Standard package format**
- **Manifest**
- **Job done!**



Up Next:  
Quick Jargon Busting

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# Quick Jargon Busting

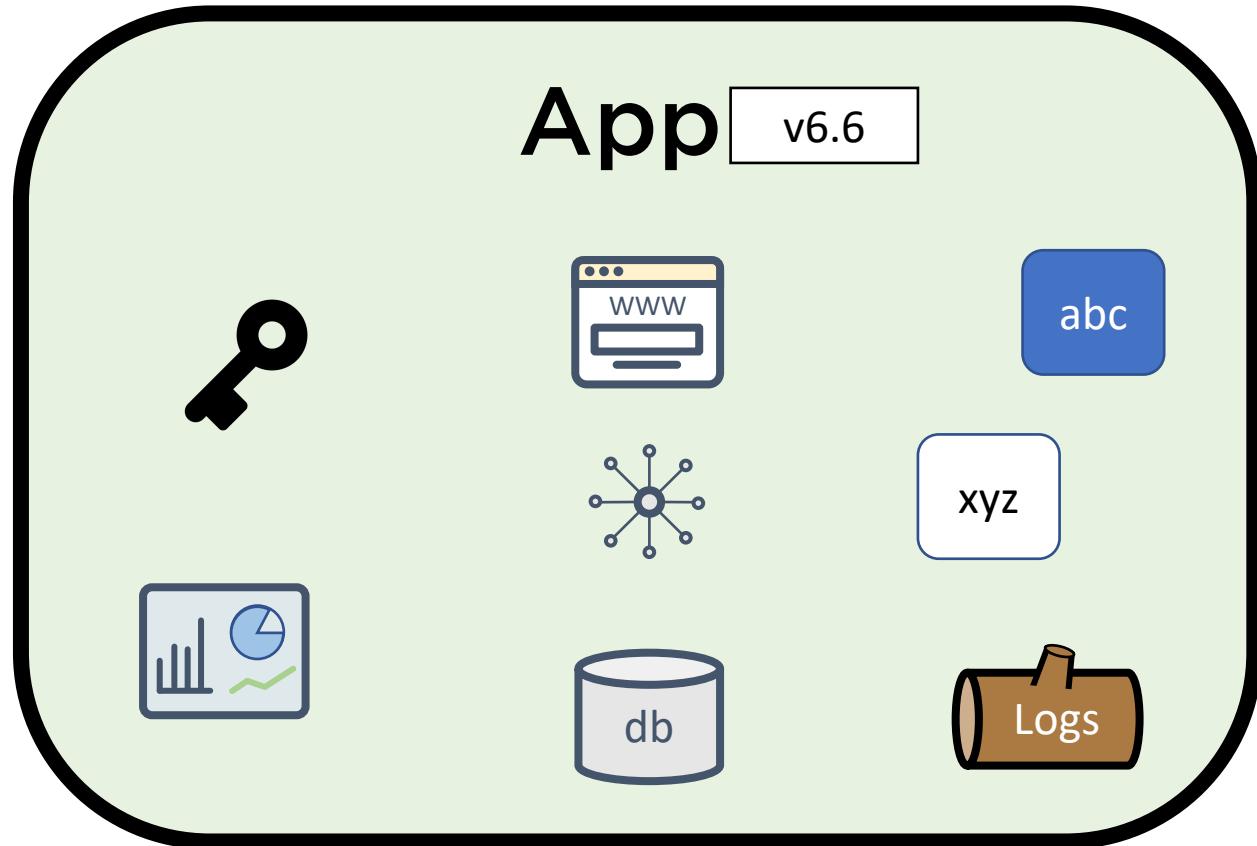
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# **monolith** /'mɒn(ə)lɪθ/

*(noun)* Insulting word for old/legacy application





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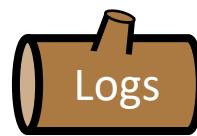


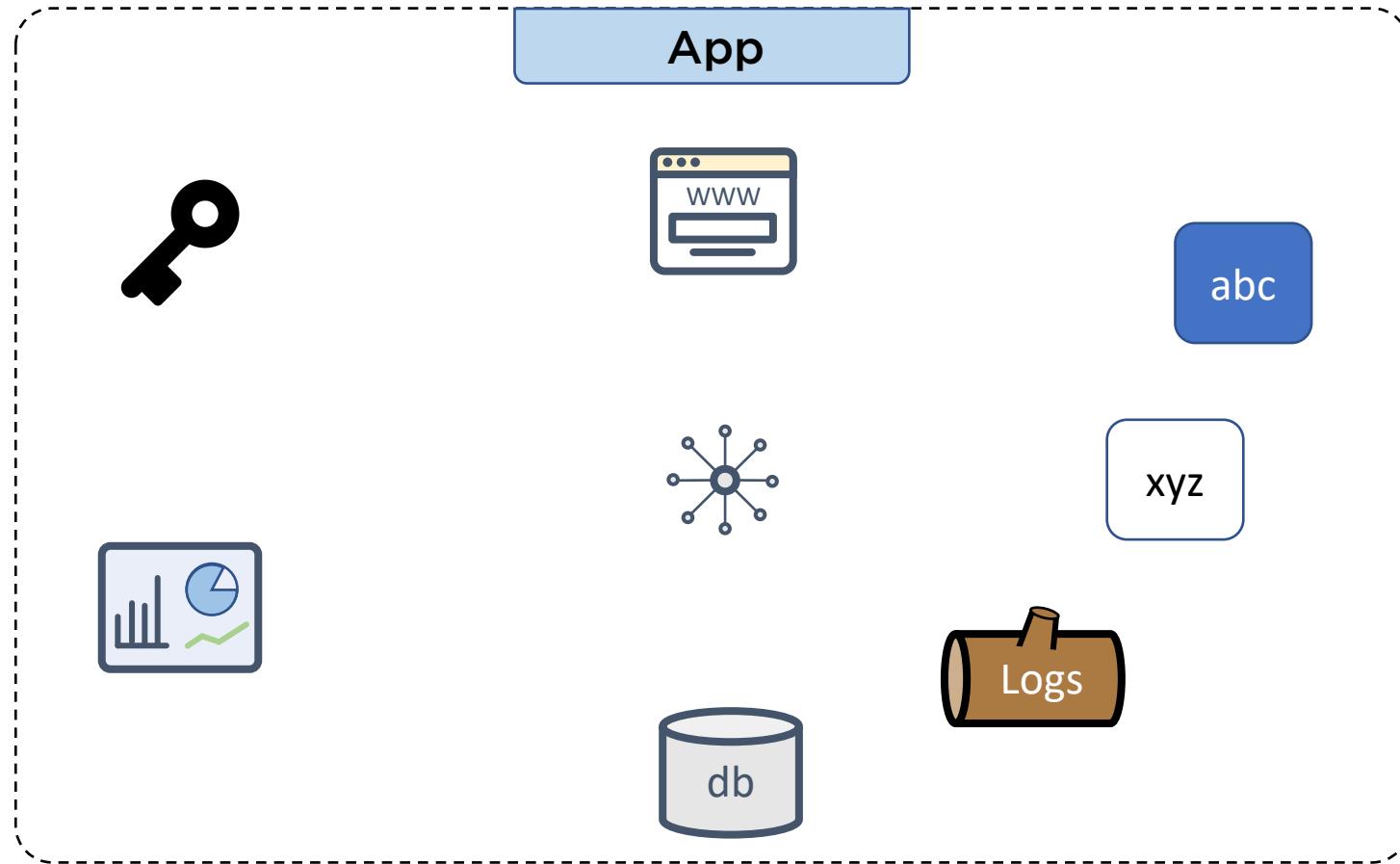


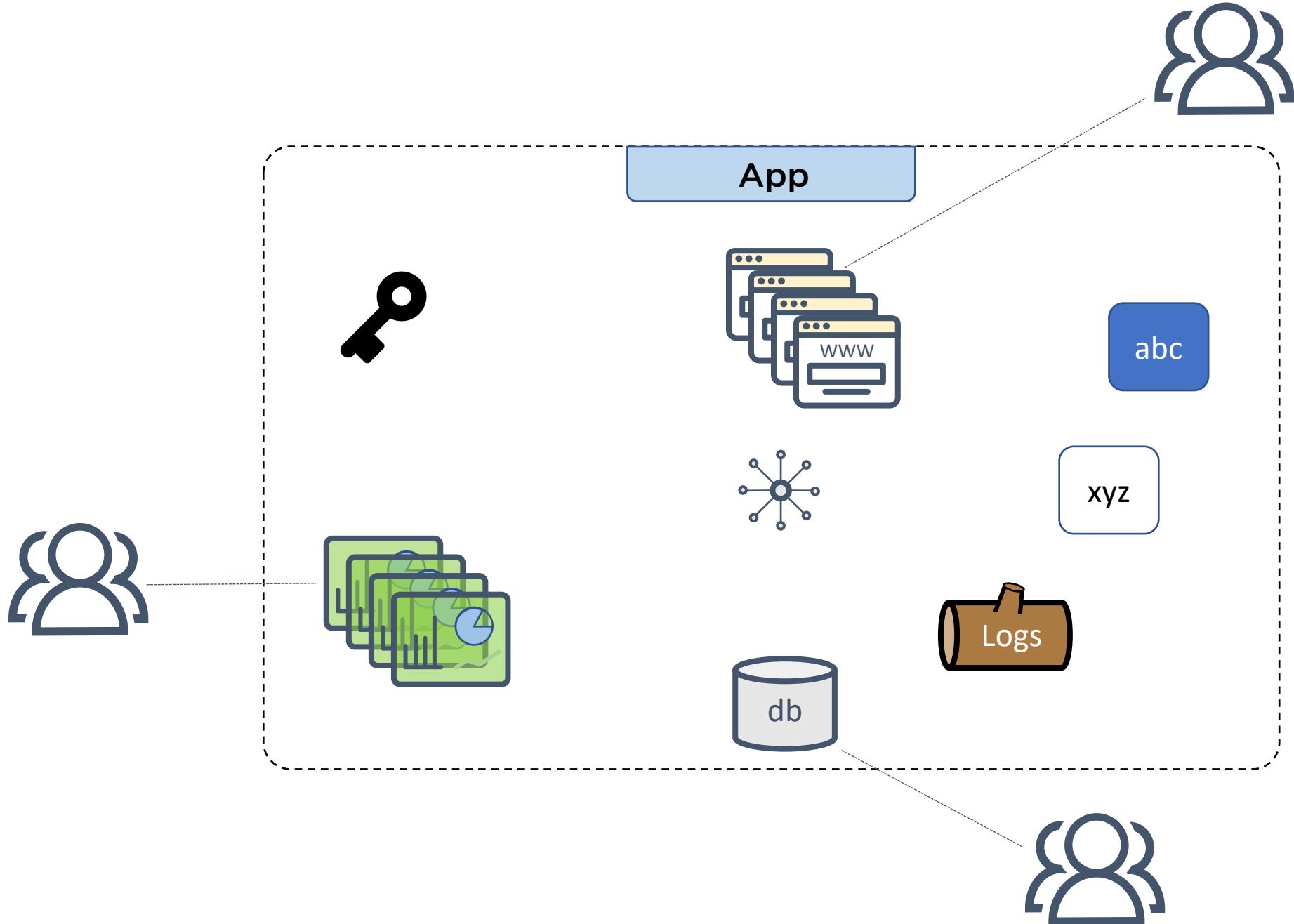
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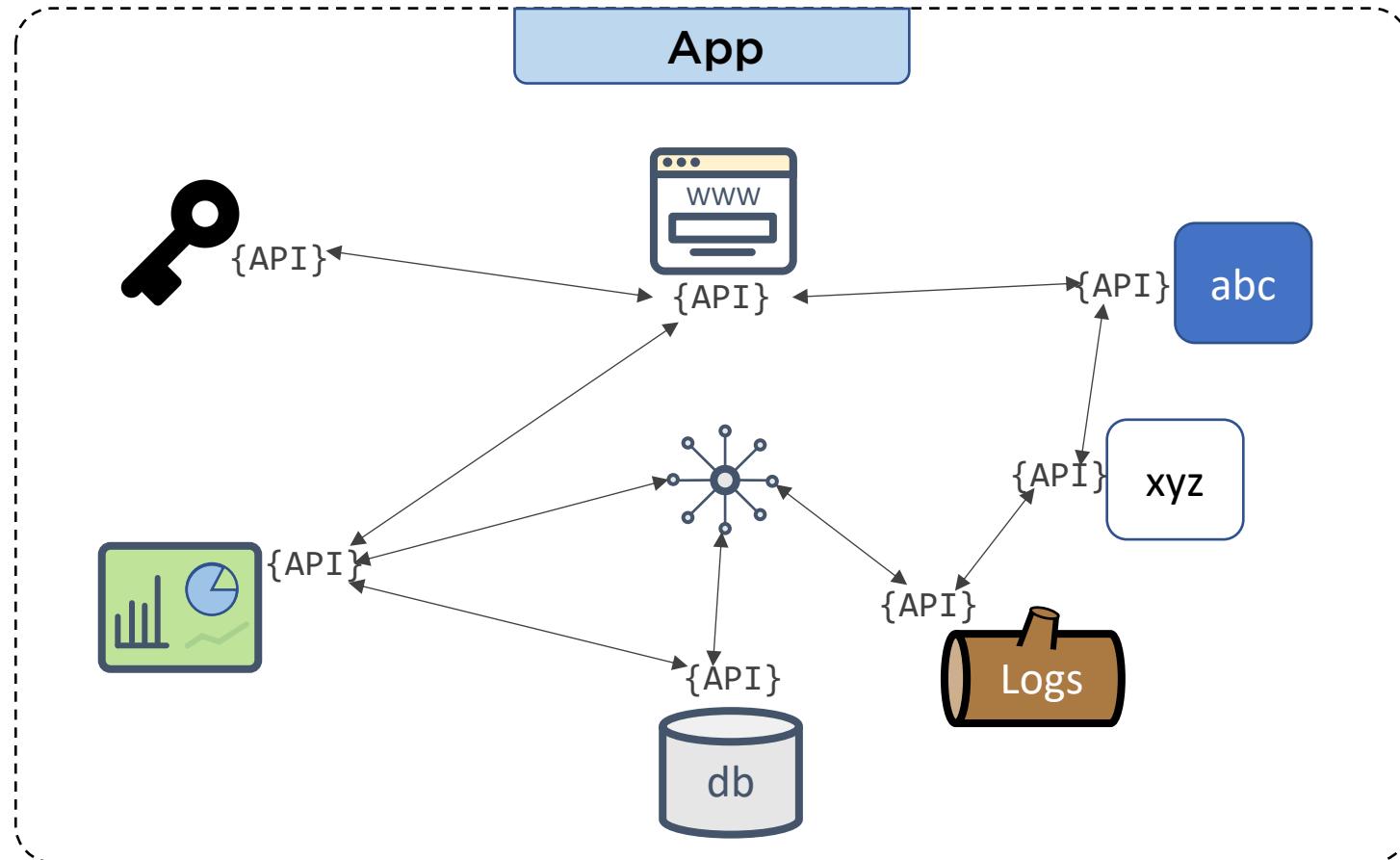


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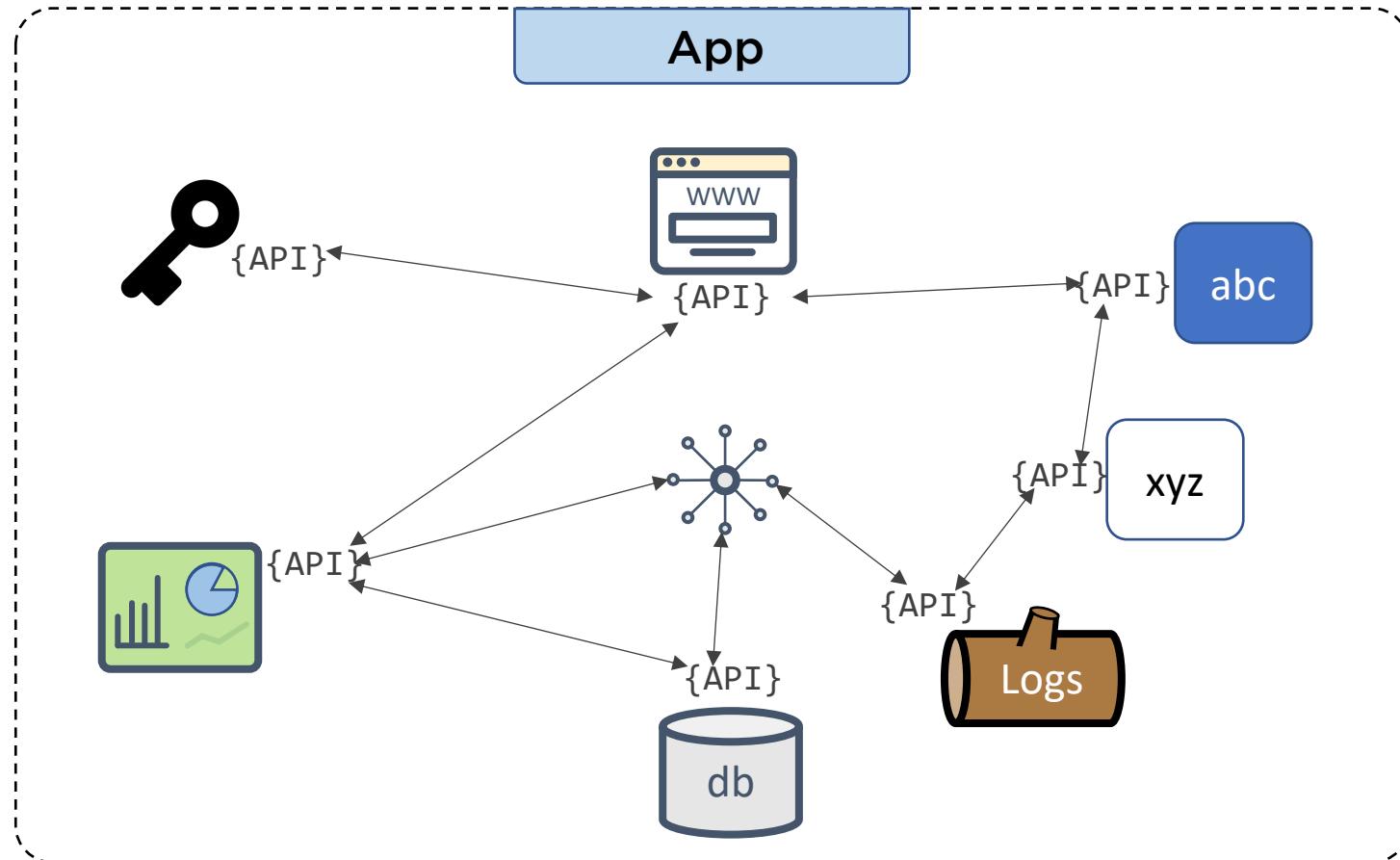


Public  
cloud

Private/hybrid  
cloud

On prem  
Data center



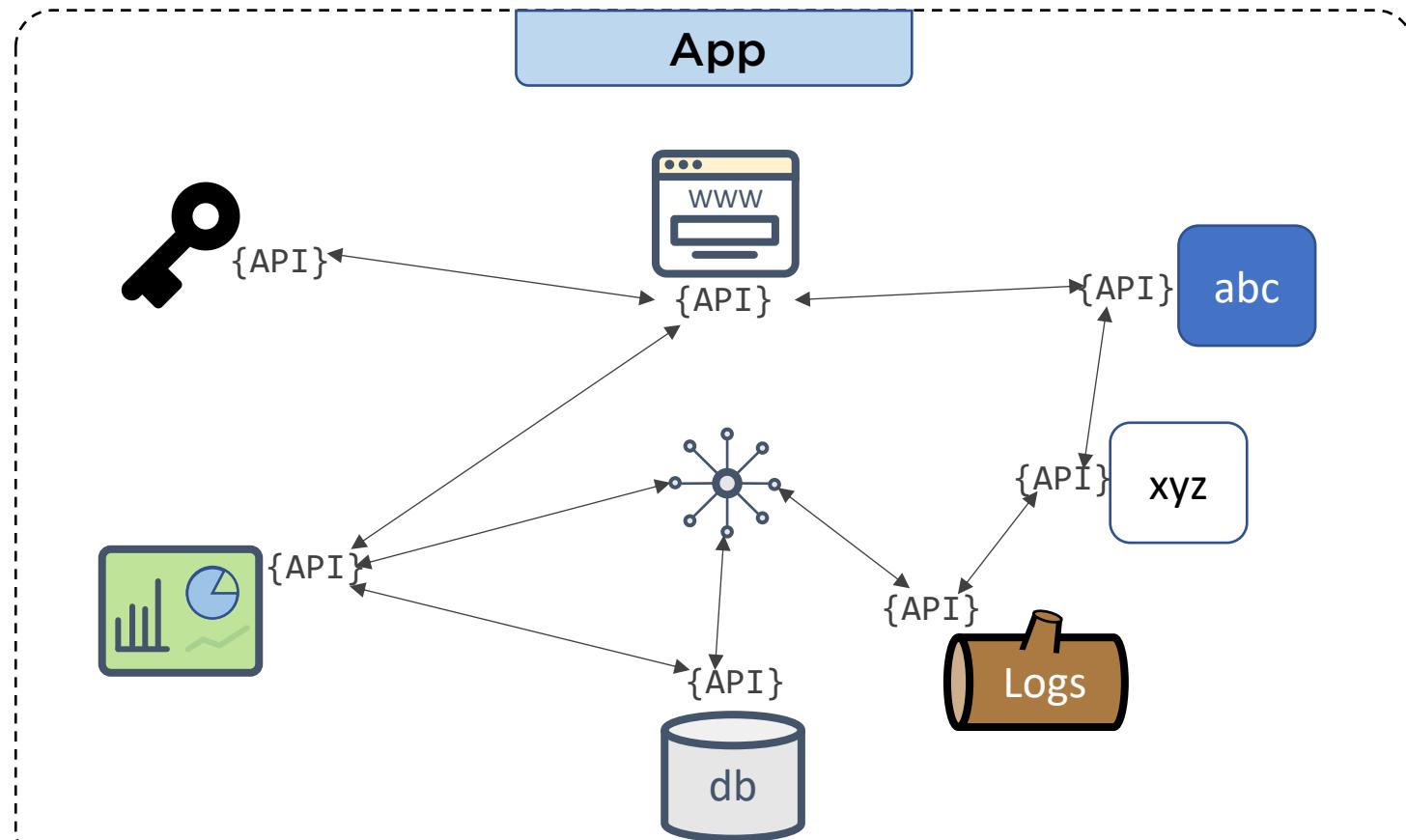


Public  
cloud

Private/hybrid  
cloud

On prem  
Data center





# Docker and Kubernetes: The Big Picture





**Kubernetes is  
developing fast**



**Kubernetes is a  
valuable skill**



Up Next:  
Kubernetes Architecture

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