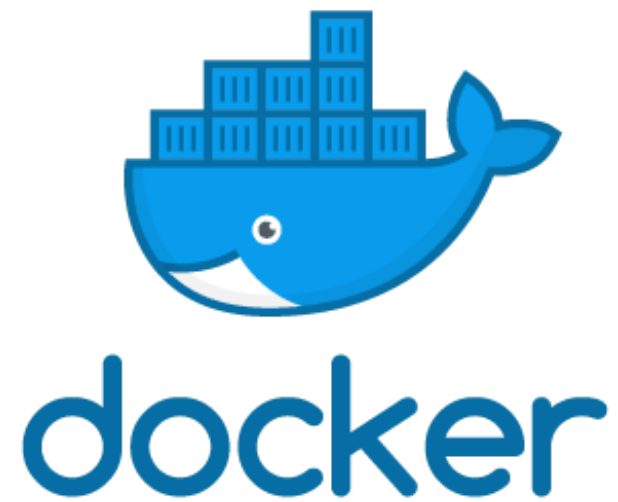
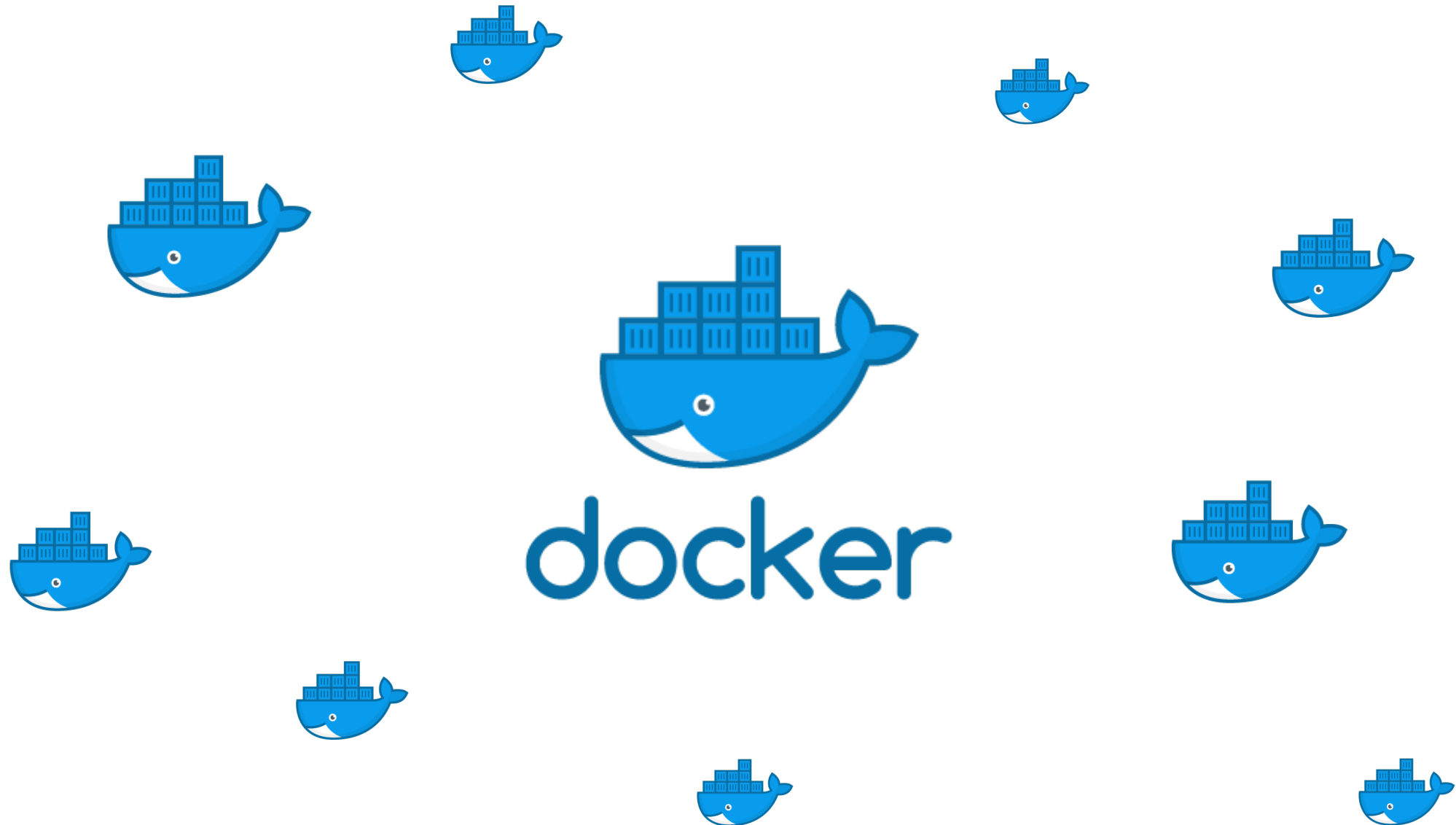




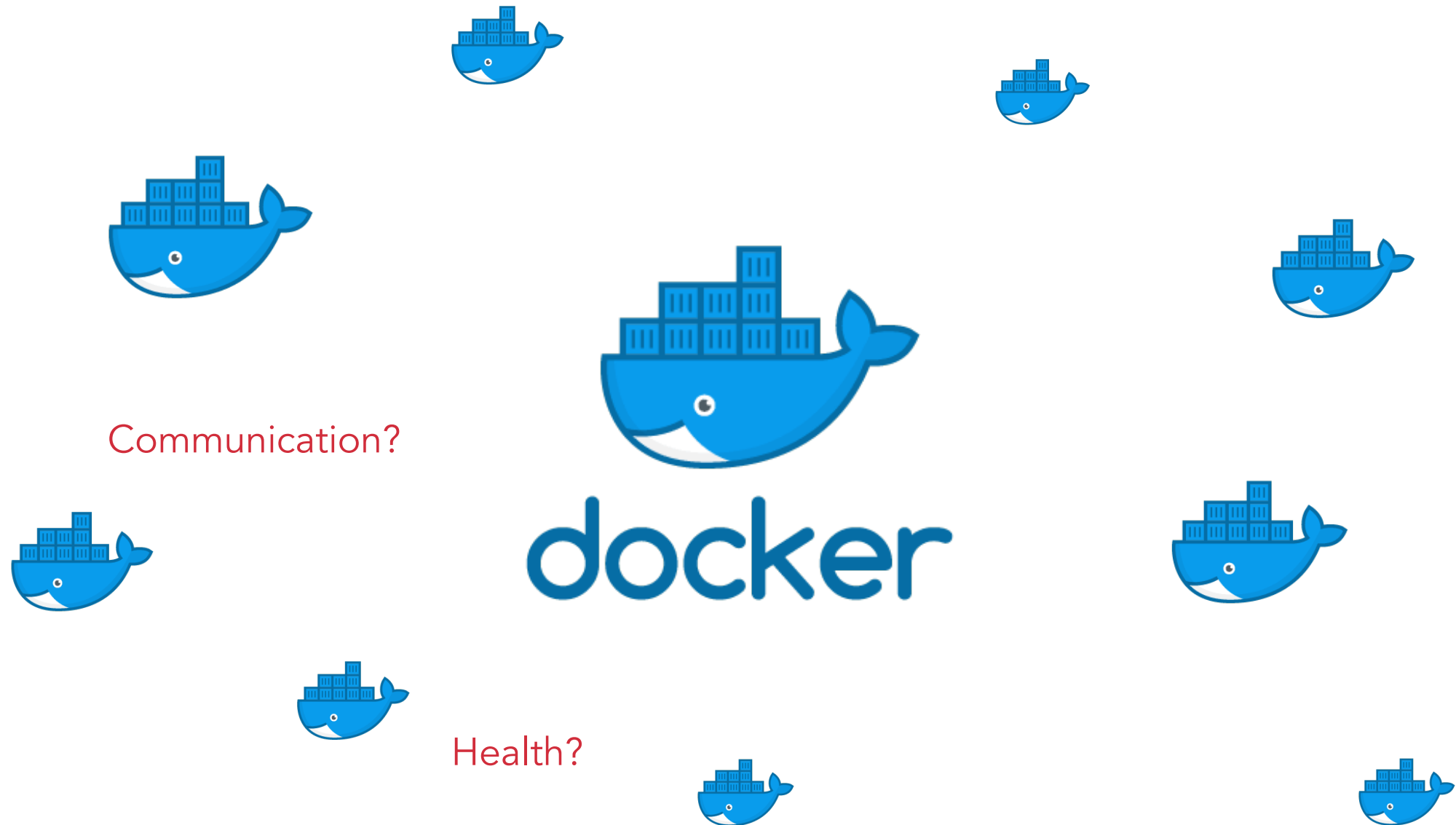
Security Aspects of Container Orchestration

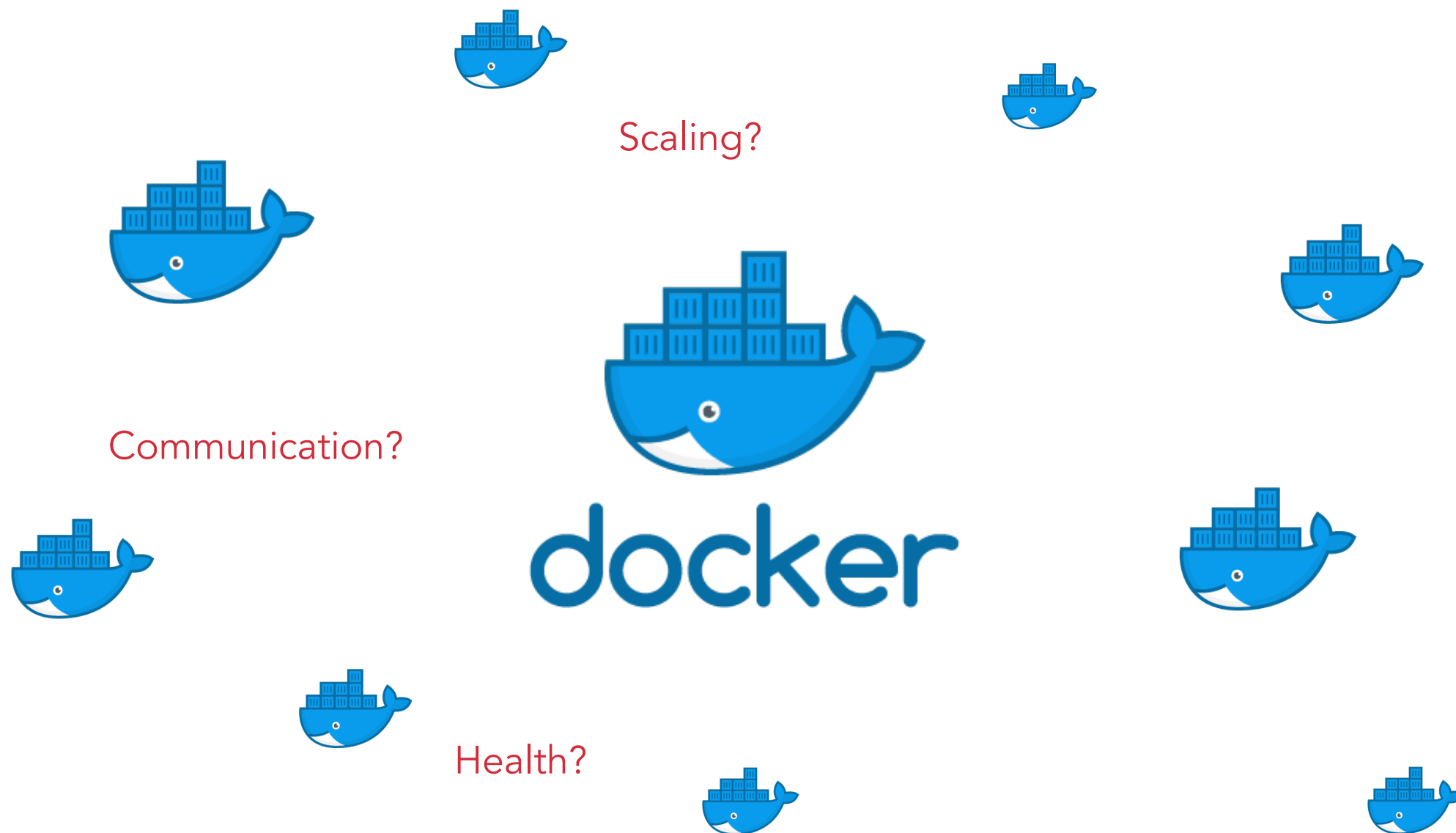
Patrick Deutschmann, 28 June 2019

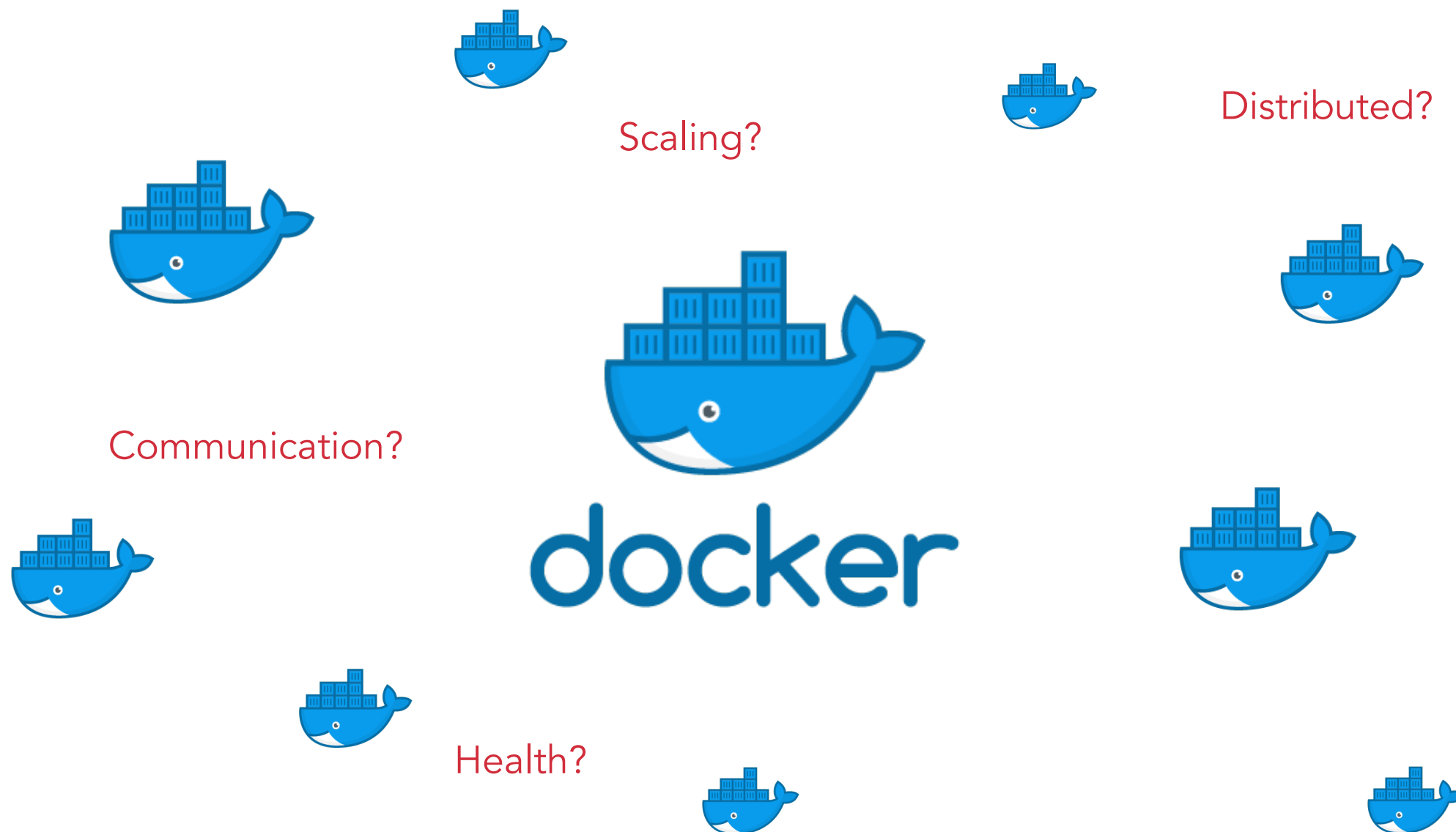


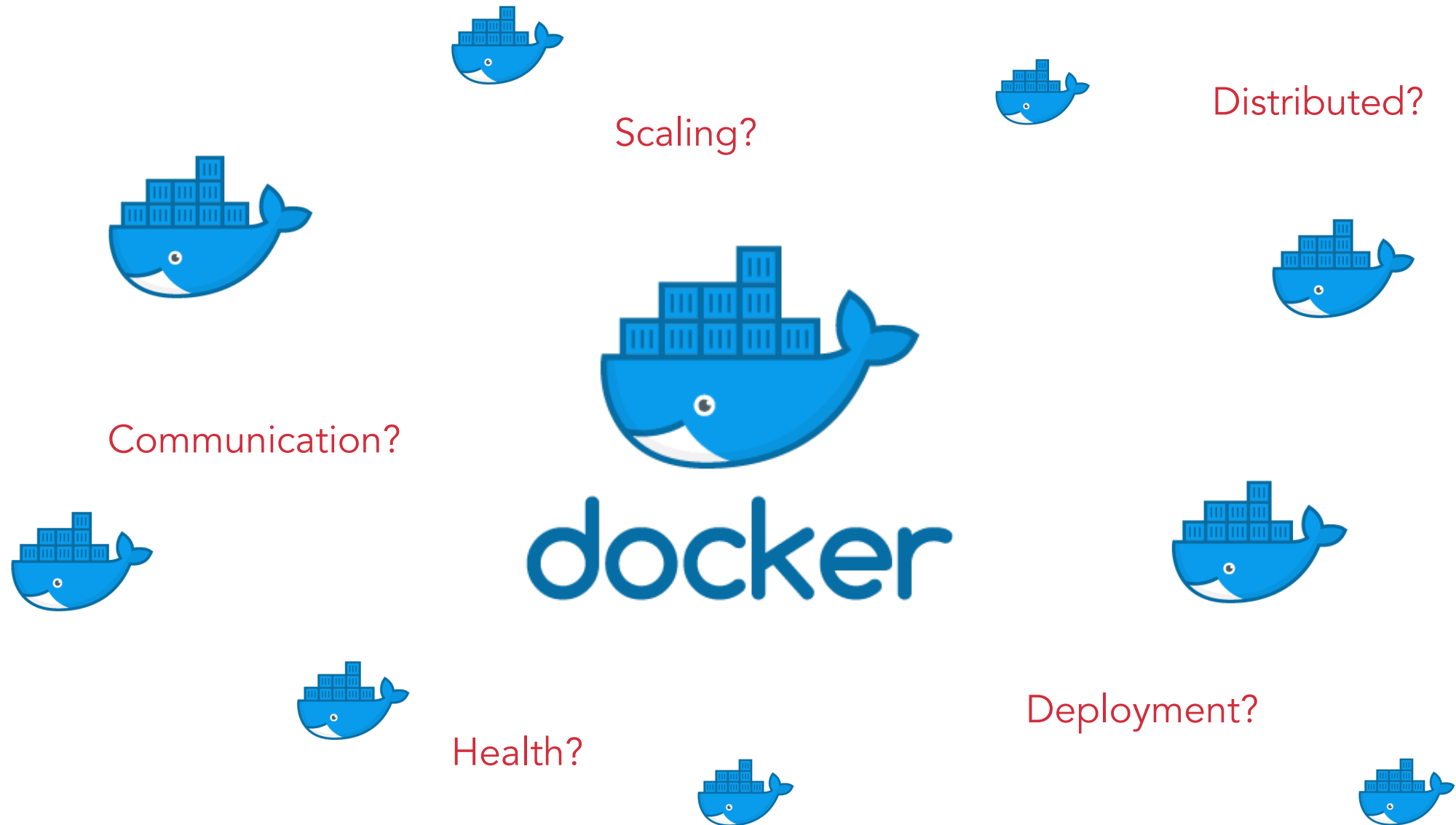














kubernetes





kubernetes



kubernetes

Scaling

Storage
Orchestration

Scaling



kubernetes

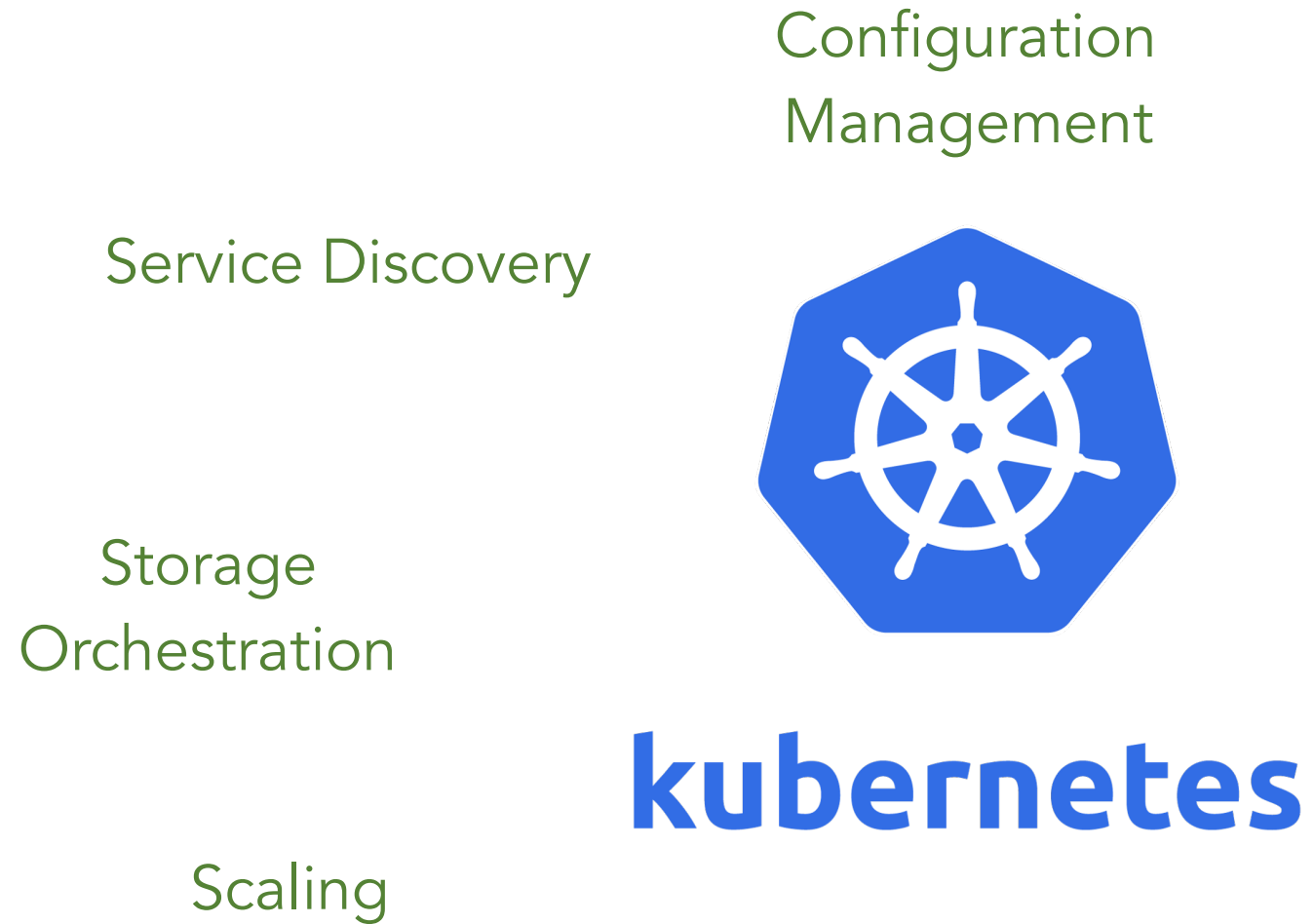
Service Discovery

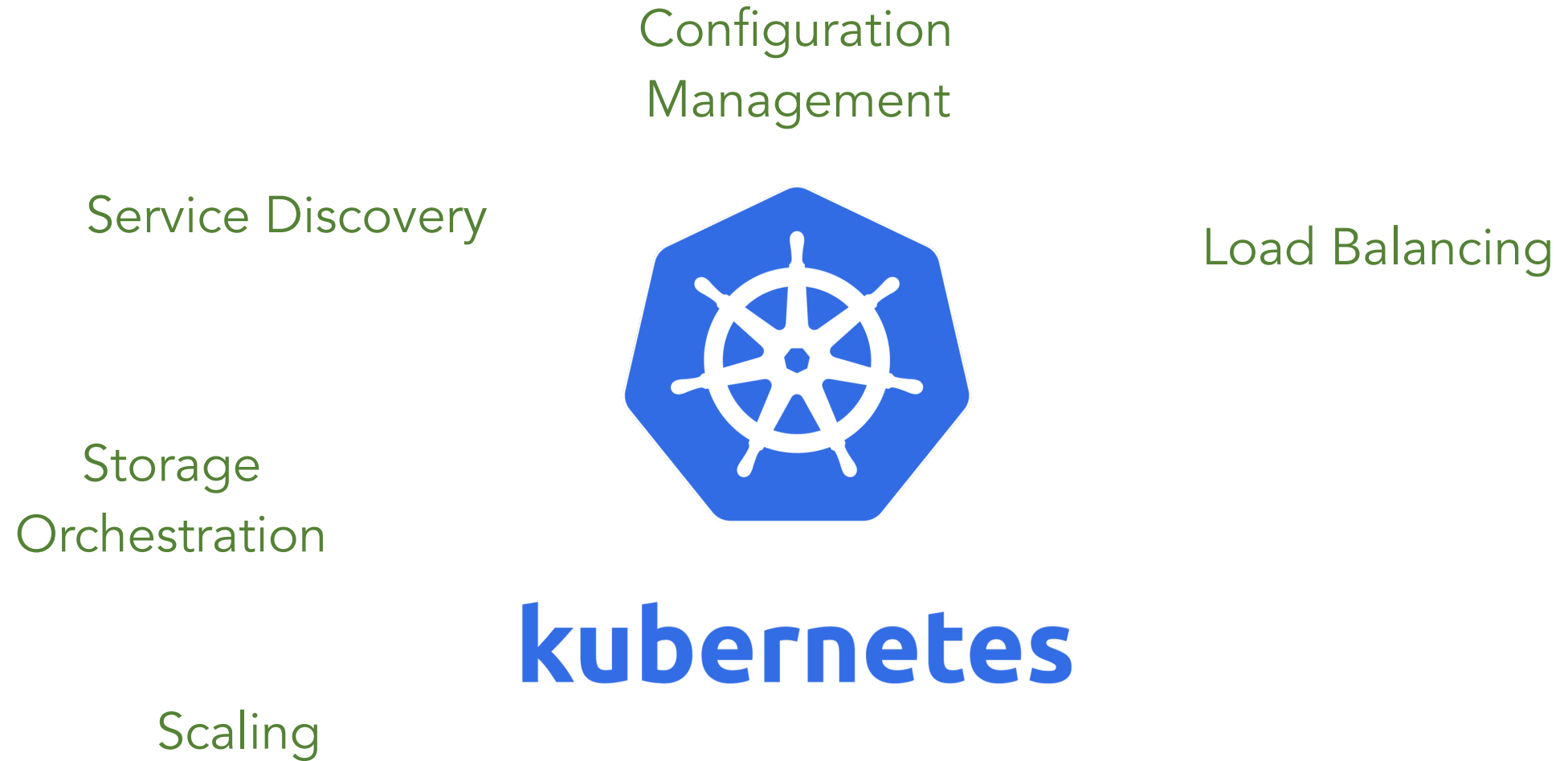
Storage
Orchestration

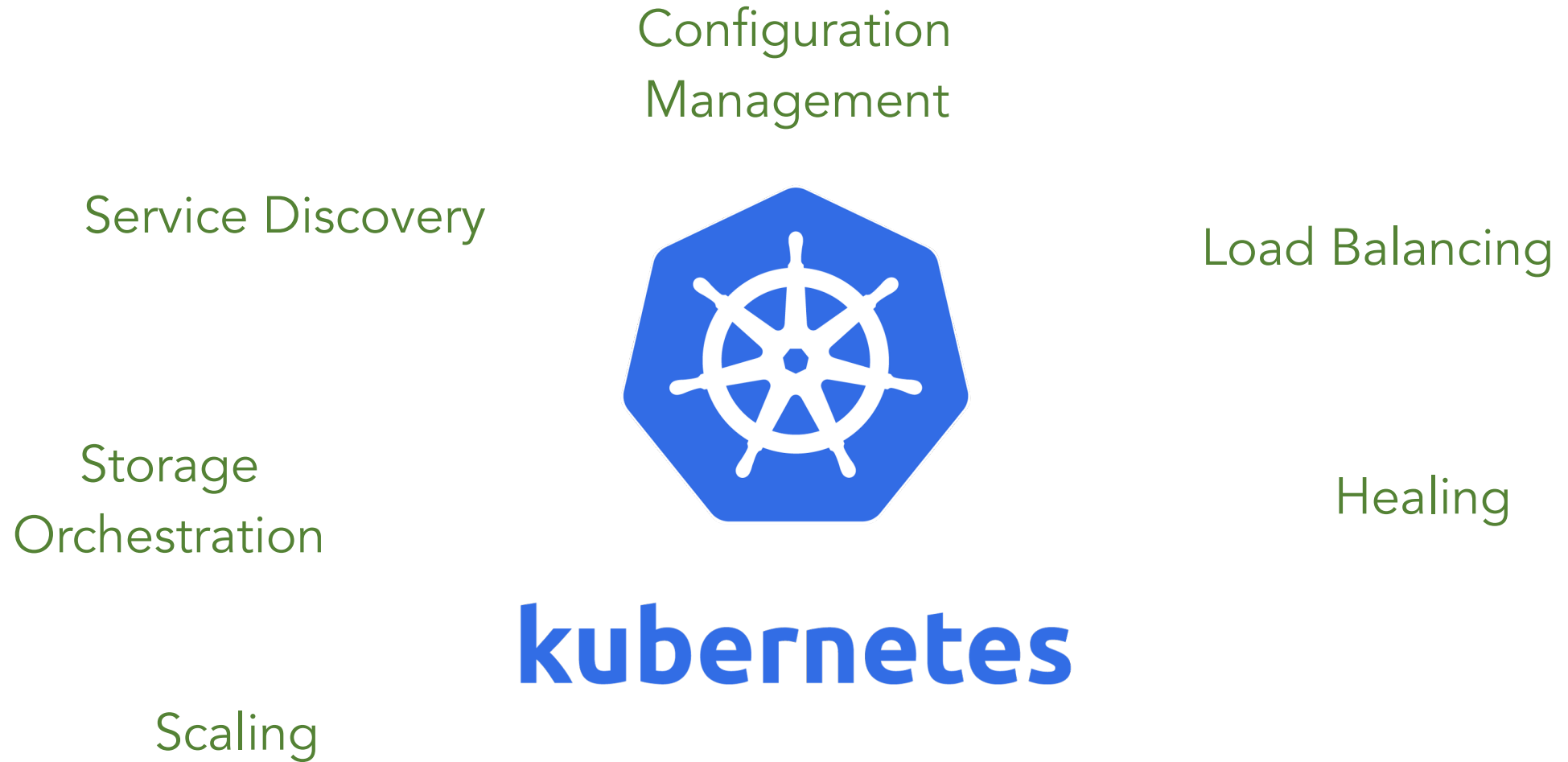
Scaling

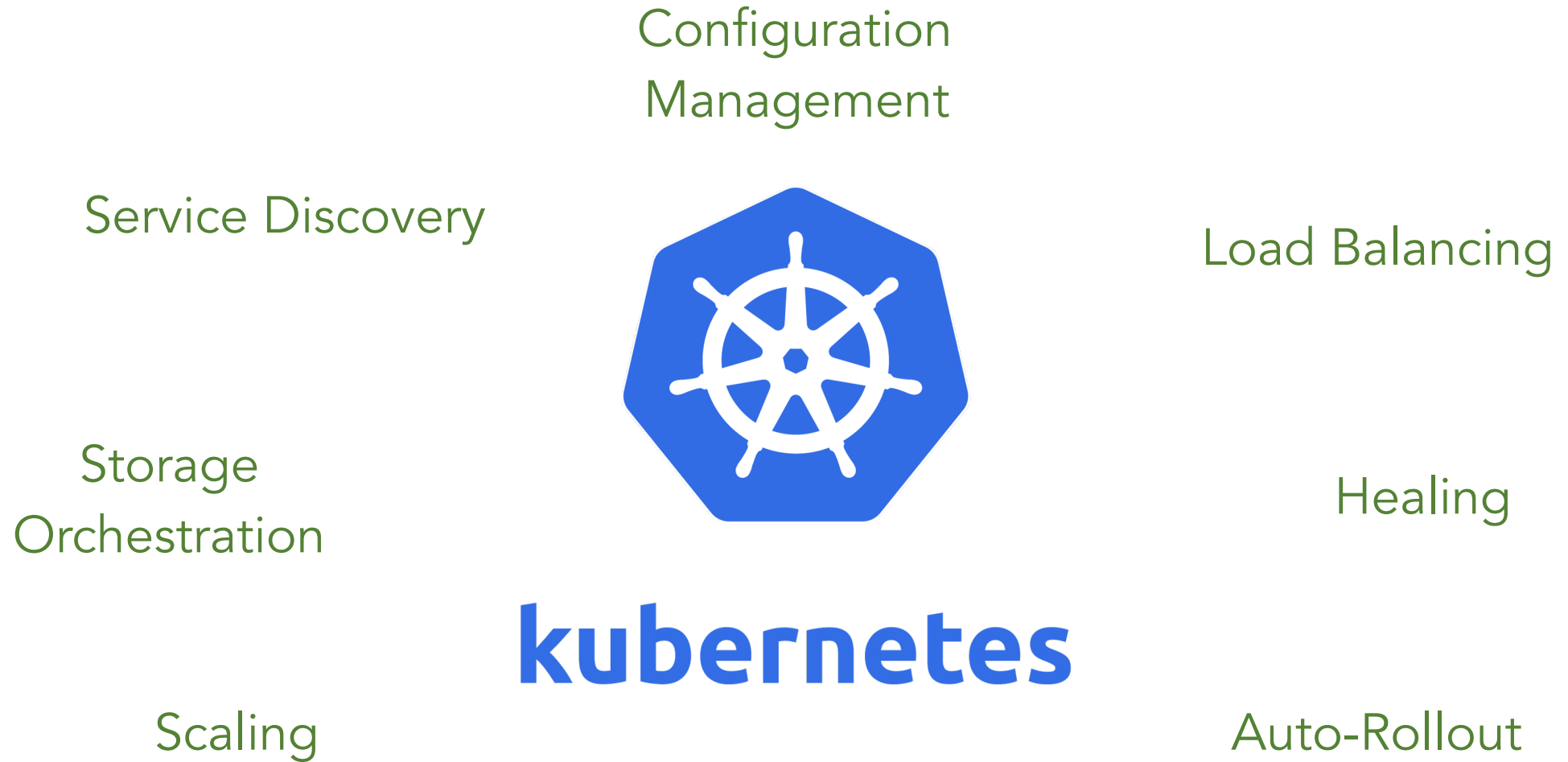


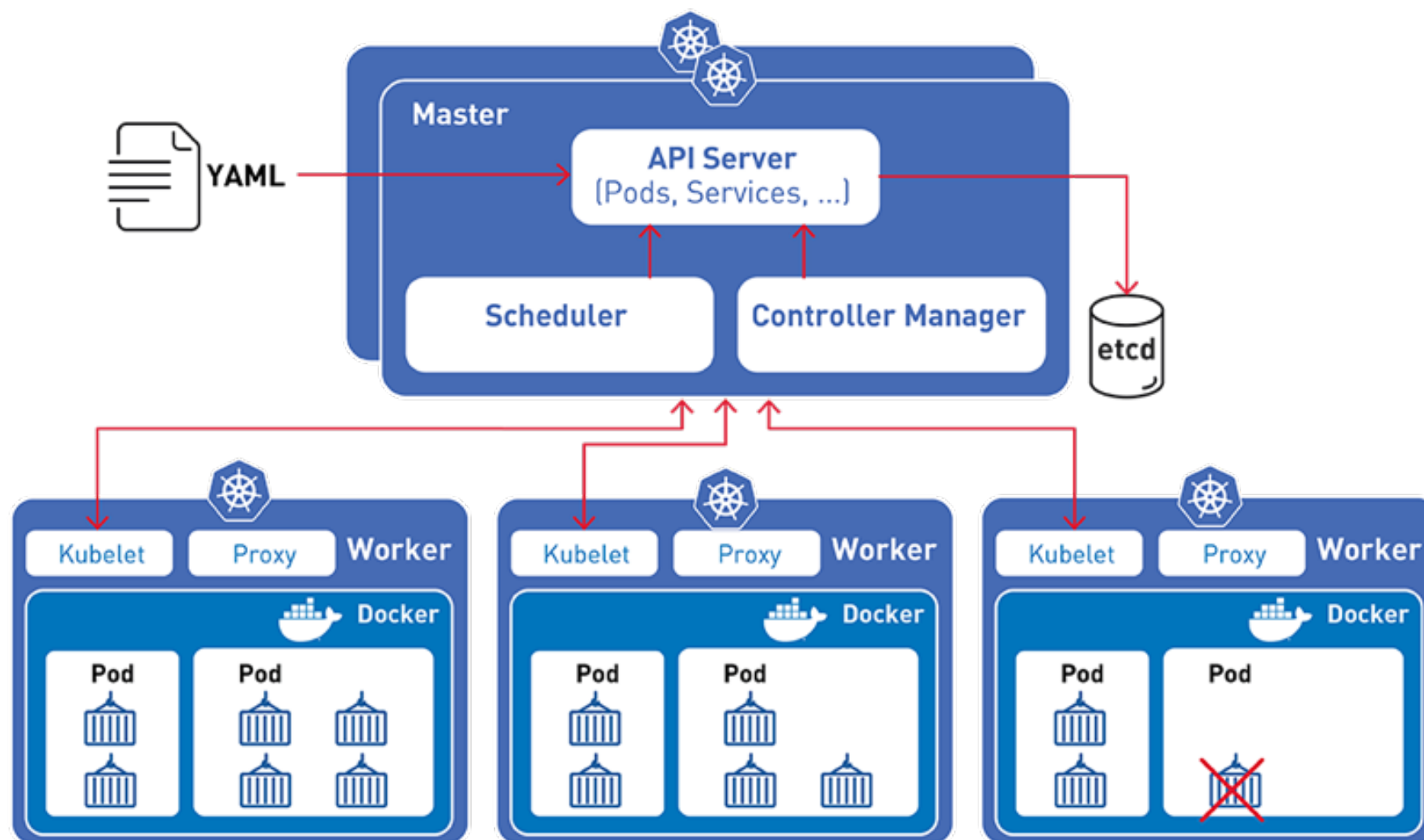
kubernetes

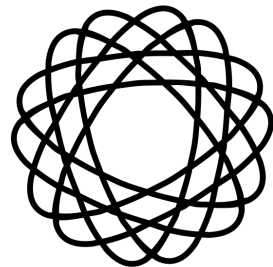






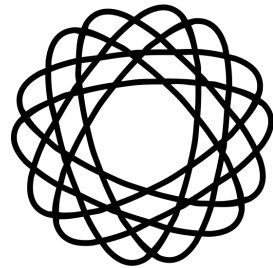






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Complexity



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Complexity



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Security?

Kubernetes Security



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from Noun Project

Where to start?

Kubernetes Security

1 Base Infrastructure

Kubernetes Security

2 Kubernetes Infrastructure

1 Base Infrastructure



Kubernetes Security

3 Kubernetes Security Controls

2 Kubernetes Infrastructure

1 Base Infrastructure

Kubernetes Security

4 App and Container Security

3 Kubernetes Security Controls

2 Kubernetes Infrastructure

1 Base Infrastructure



Time for an example!

Example application

127.0.0.1:8000/pods/default

☆

Example Application Home Pods ▾ ReplicaSets ▾

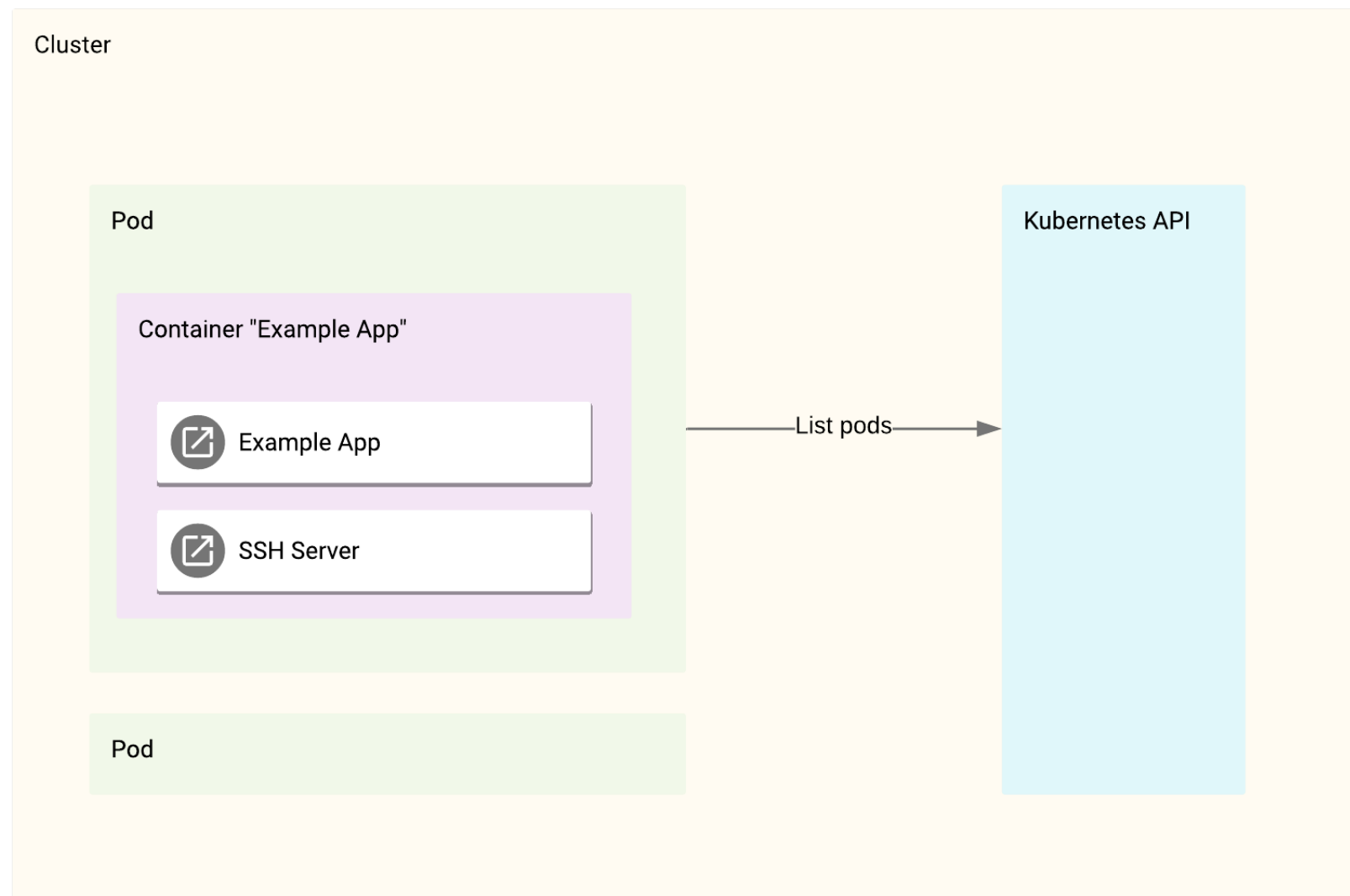
Pods in namespace 'default'

Name	Status	Namespace	IP
exa-backend-p	Running	default	172.17.0.2
exa-frontend-p	Running	default	172.17.0.3
example-app	Running	default	172.17.0.5
kuard-rs-gpp5h	Running	default	172.17.0.9
kuard-rs-jtg2z	Running	default	172.17.0.8



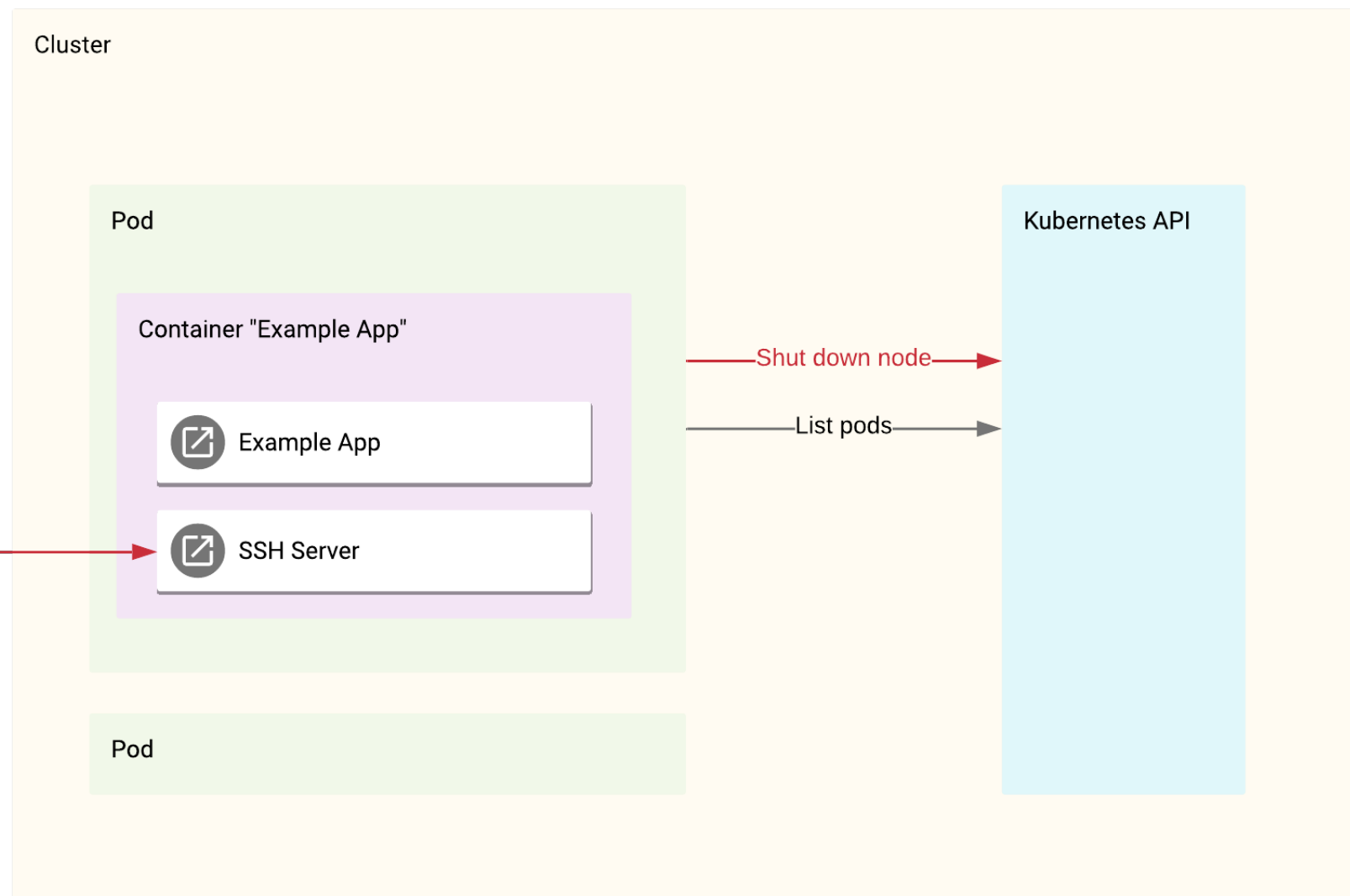
Security Aspects of Container Orchestration

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4 App and Container Security

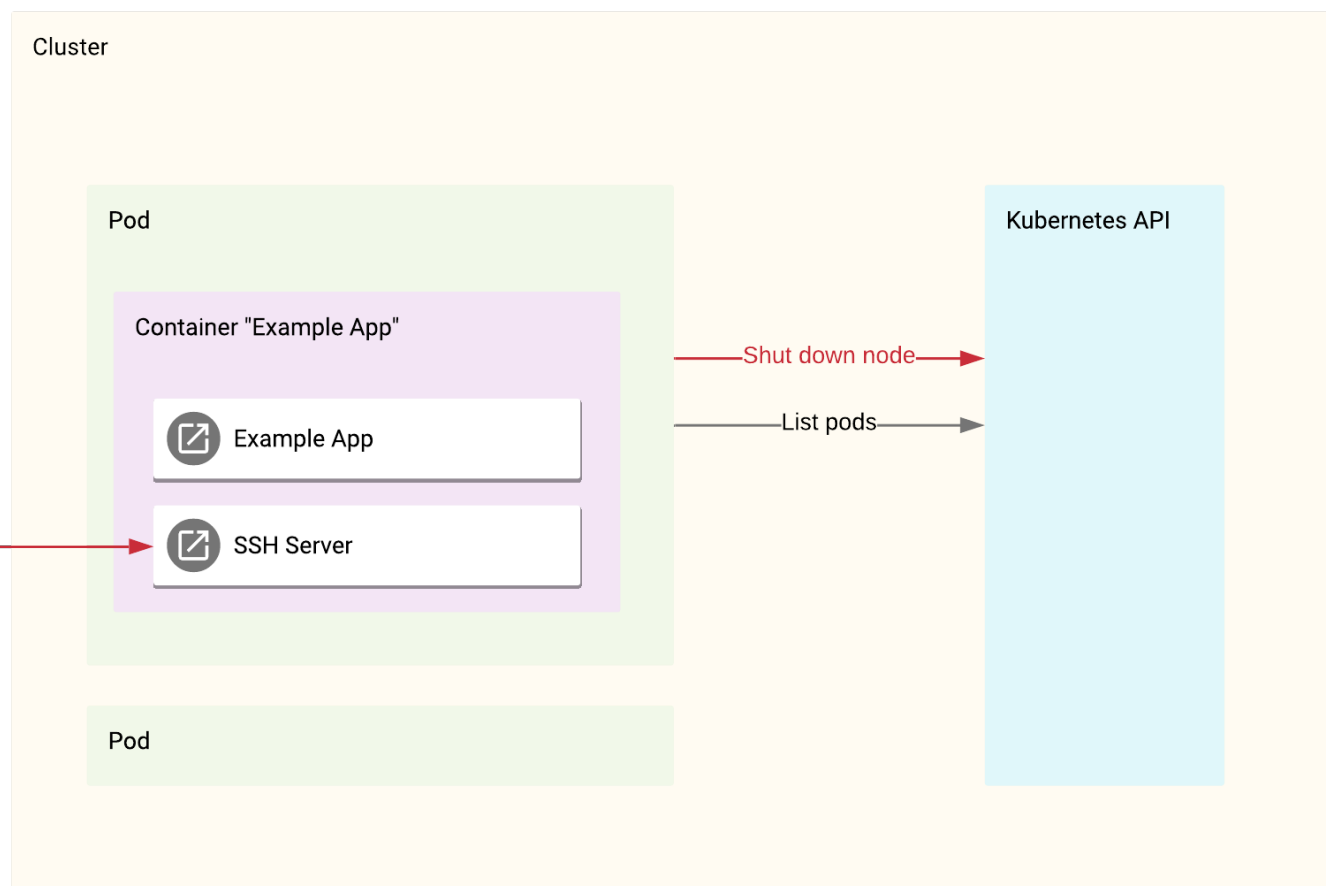
3 Kubernetes Security Controls

2 Kubernetes Infrastructure

1 Base Infrastructure



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Project



4 App and Container Security

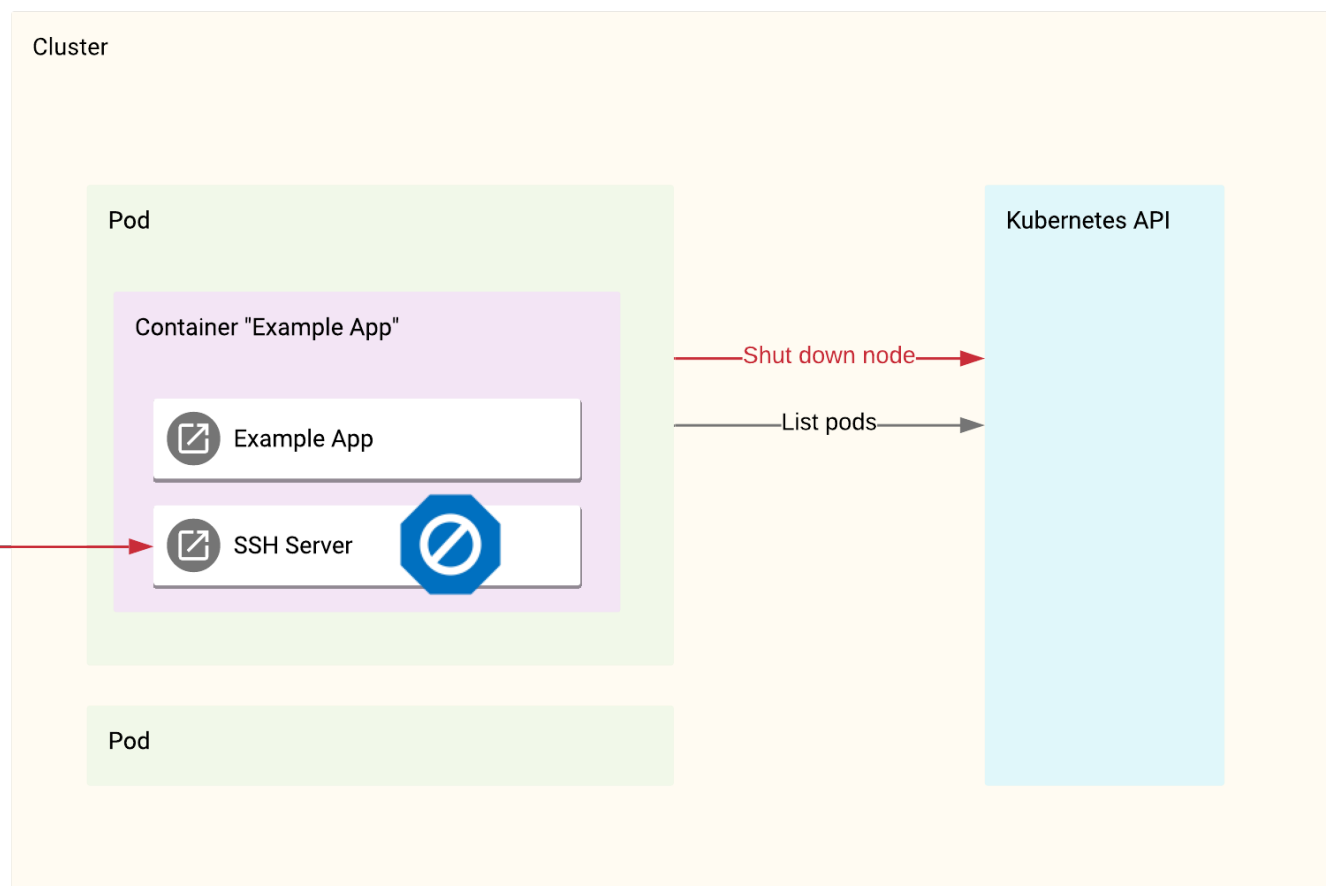
3 Kubernetes Security Controls

2 Kubernetes Infrastructure

1 Base Infrastructure



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4 App and Container Security

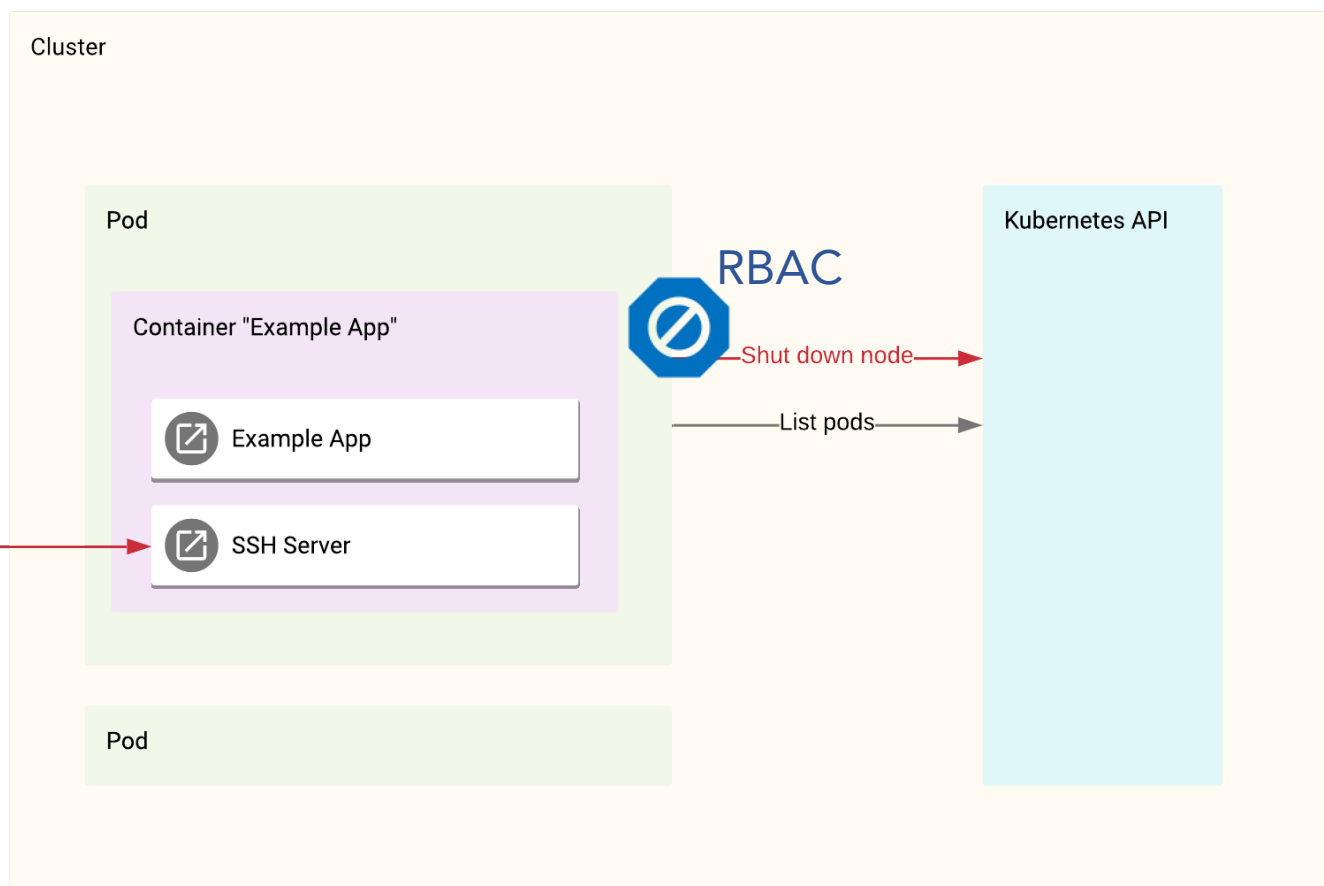
3 Kubernetes Security Controls

2 Kubernetes Infrastructure

1 Base Infrastructure



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4 App and Container Security

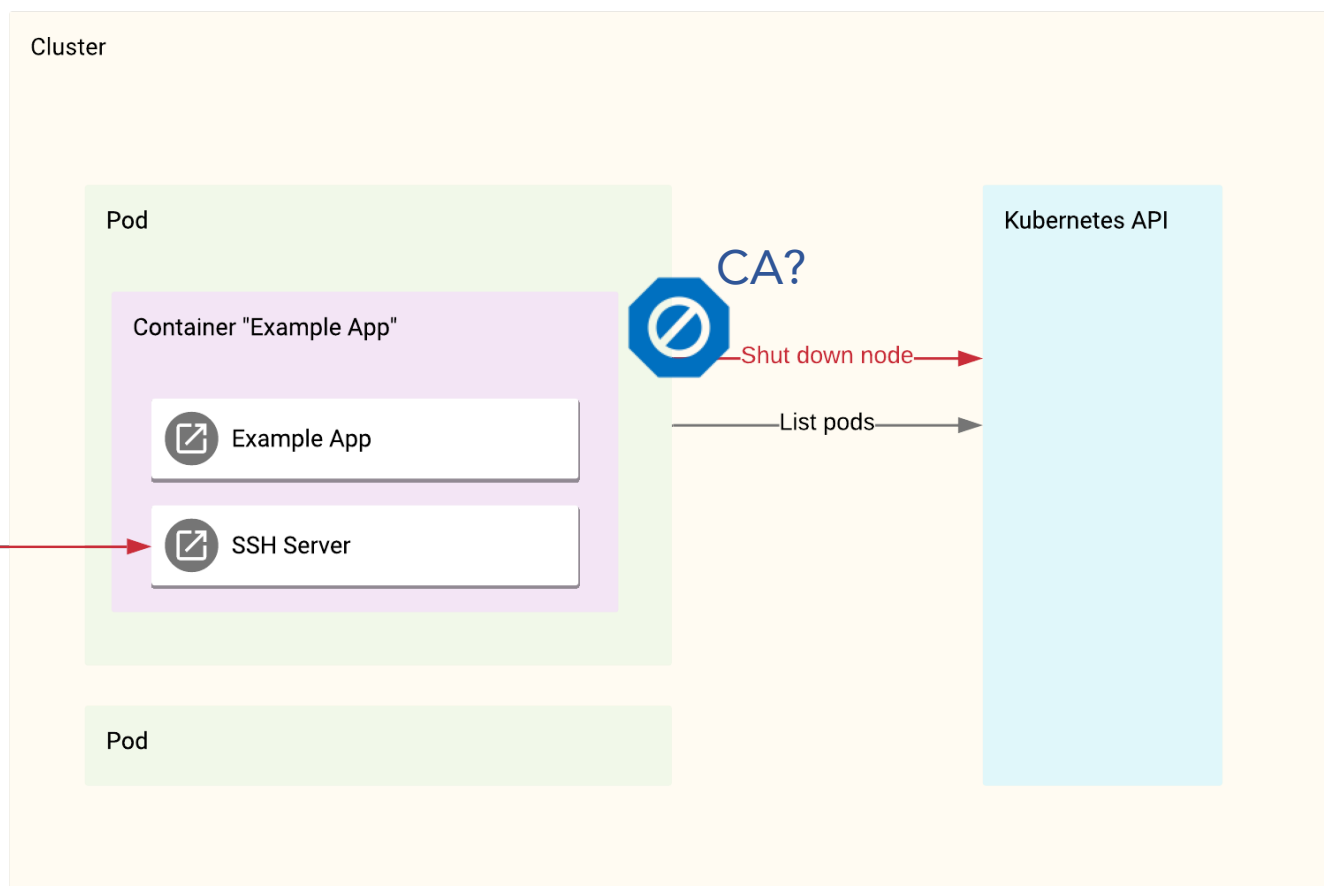
3 Kubernetes Security Controls

2 Kubernetes Infrastructure

1 Base Infrastructure



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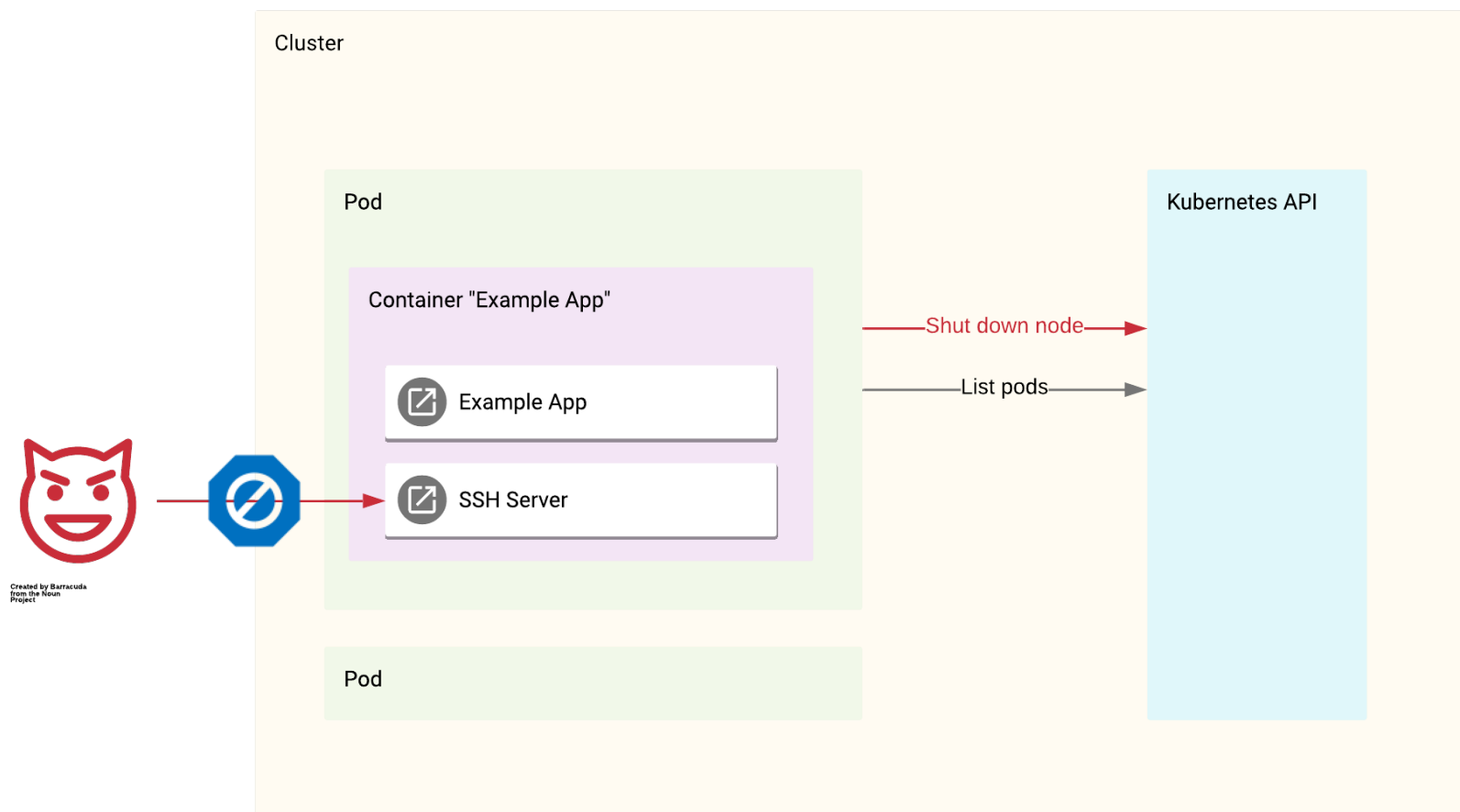


4 App and Container Security

3 Kubernetes Security Controls

2 Kubernetes Infrastructure

1 Base Infrastructure

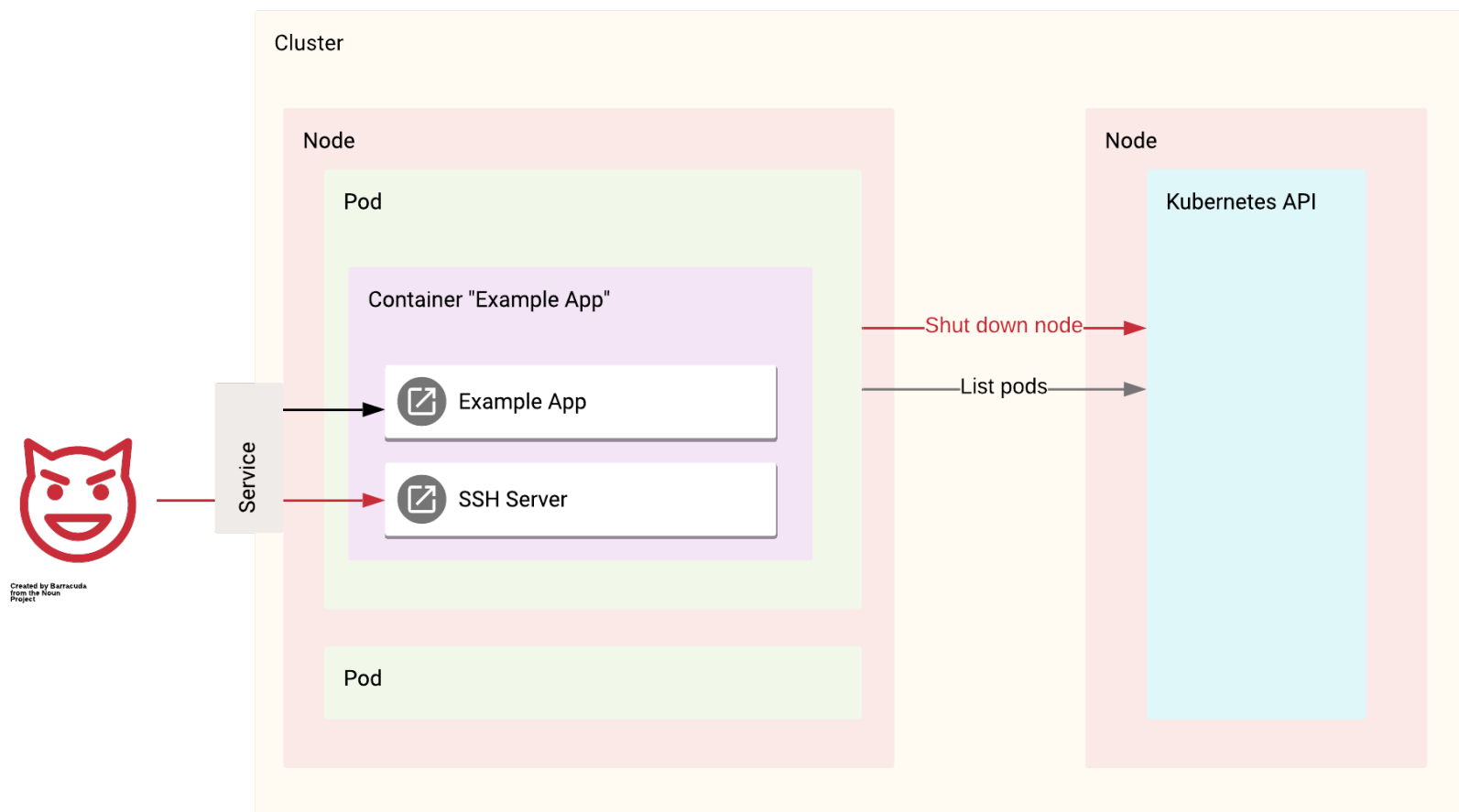


4 App and Container Security

3 Kubernetes Security Controls

2 Kubernetes Infrastructure

1 Base Infrastructure



4 App and Container Security

3 Kubernetes Security Controls

2 Kubernetes Infrastructure

1 Base Infrastructure



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Benedek Böhm
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