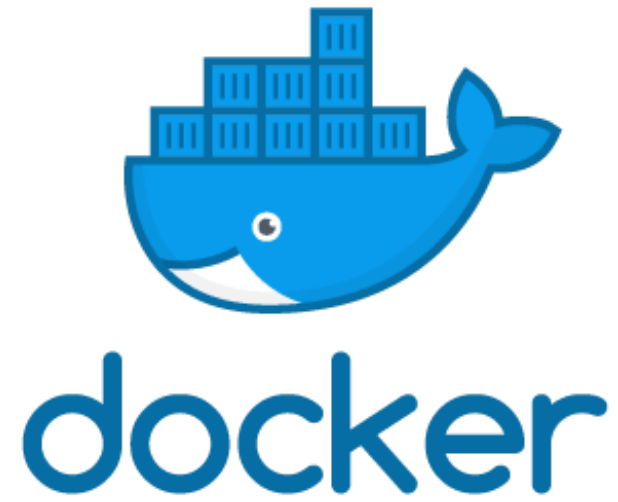
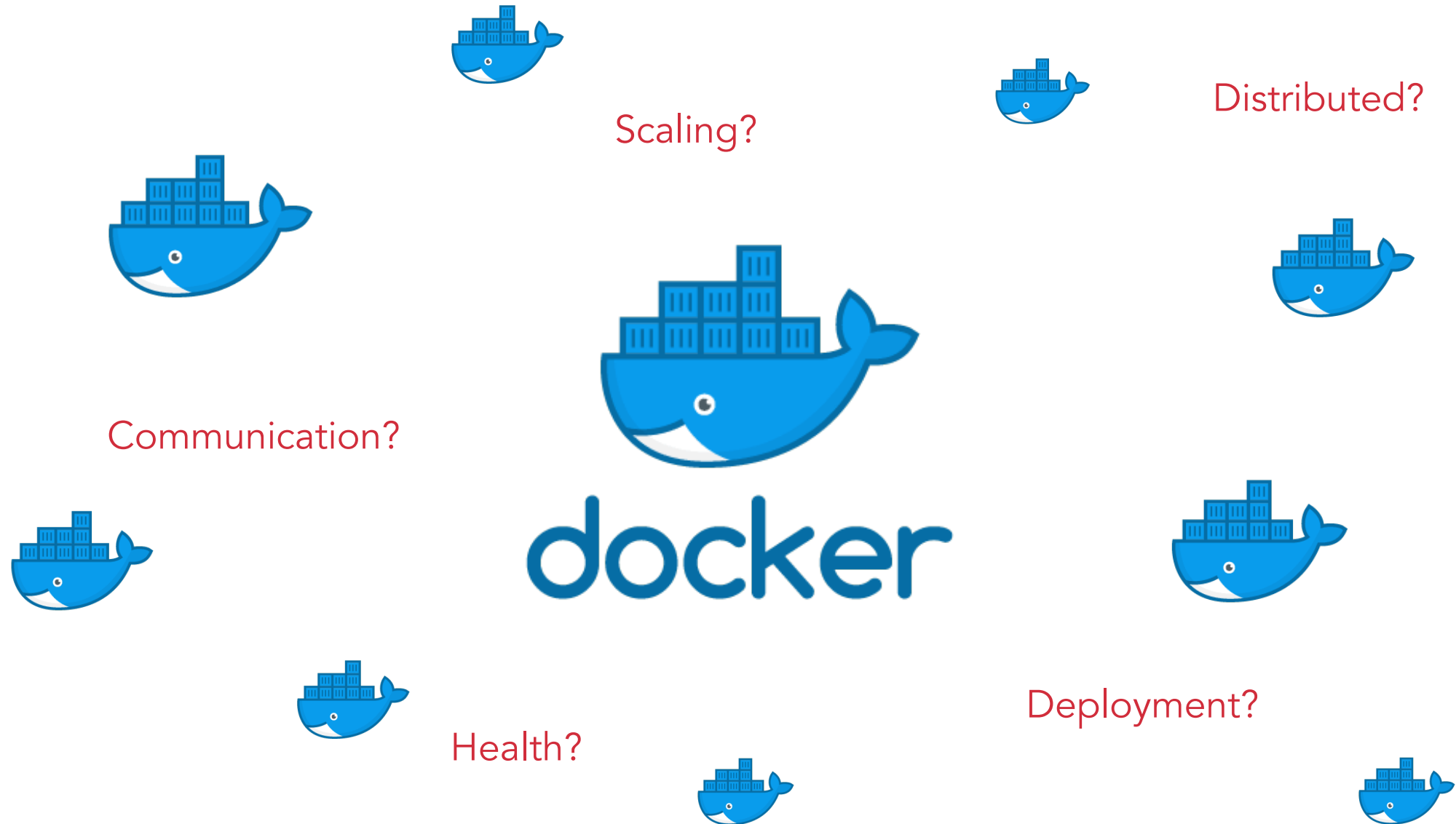


Security Aspects of Container Orchestration

Patrick Deutschmann, 28 June 2019

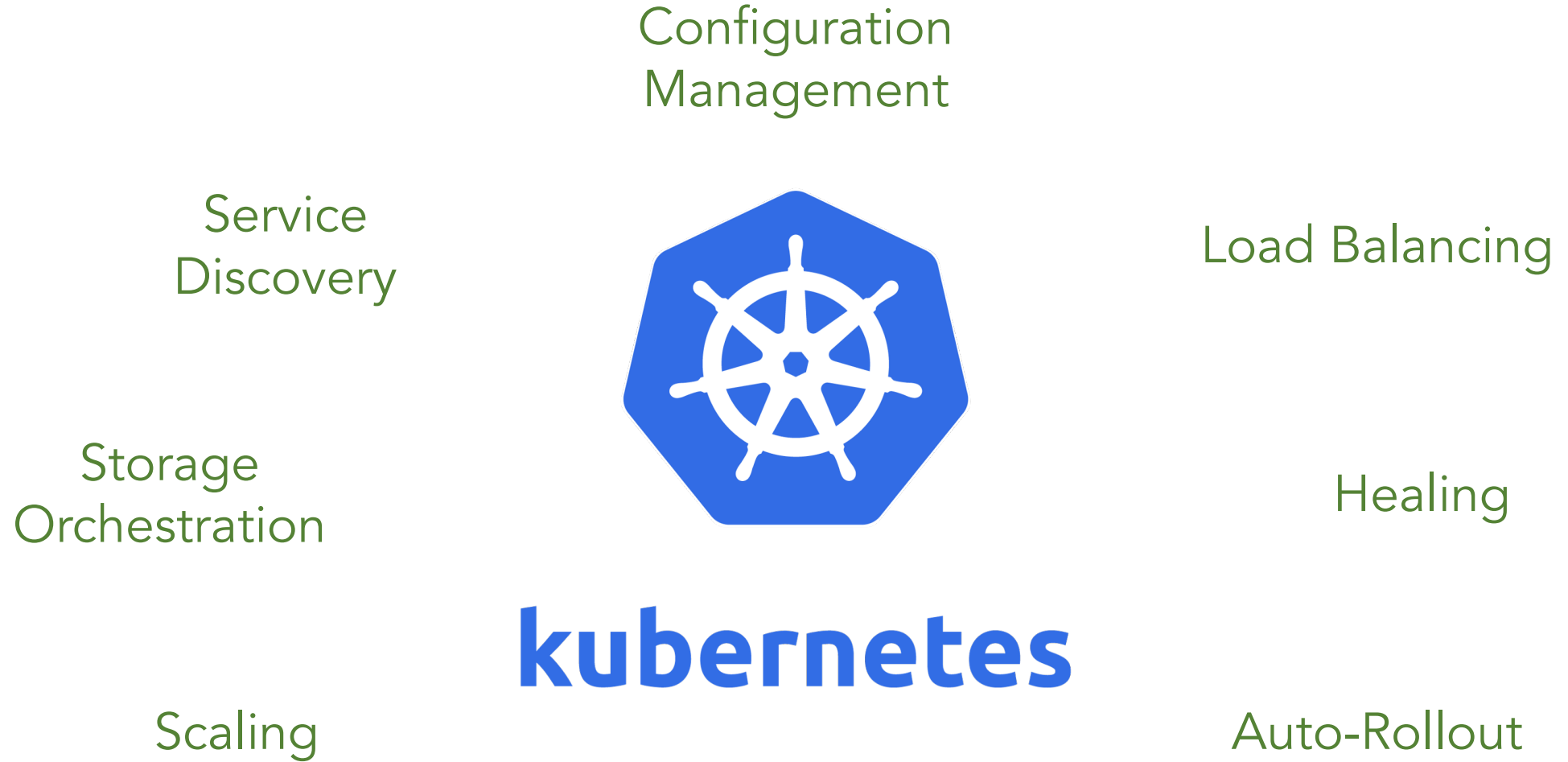


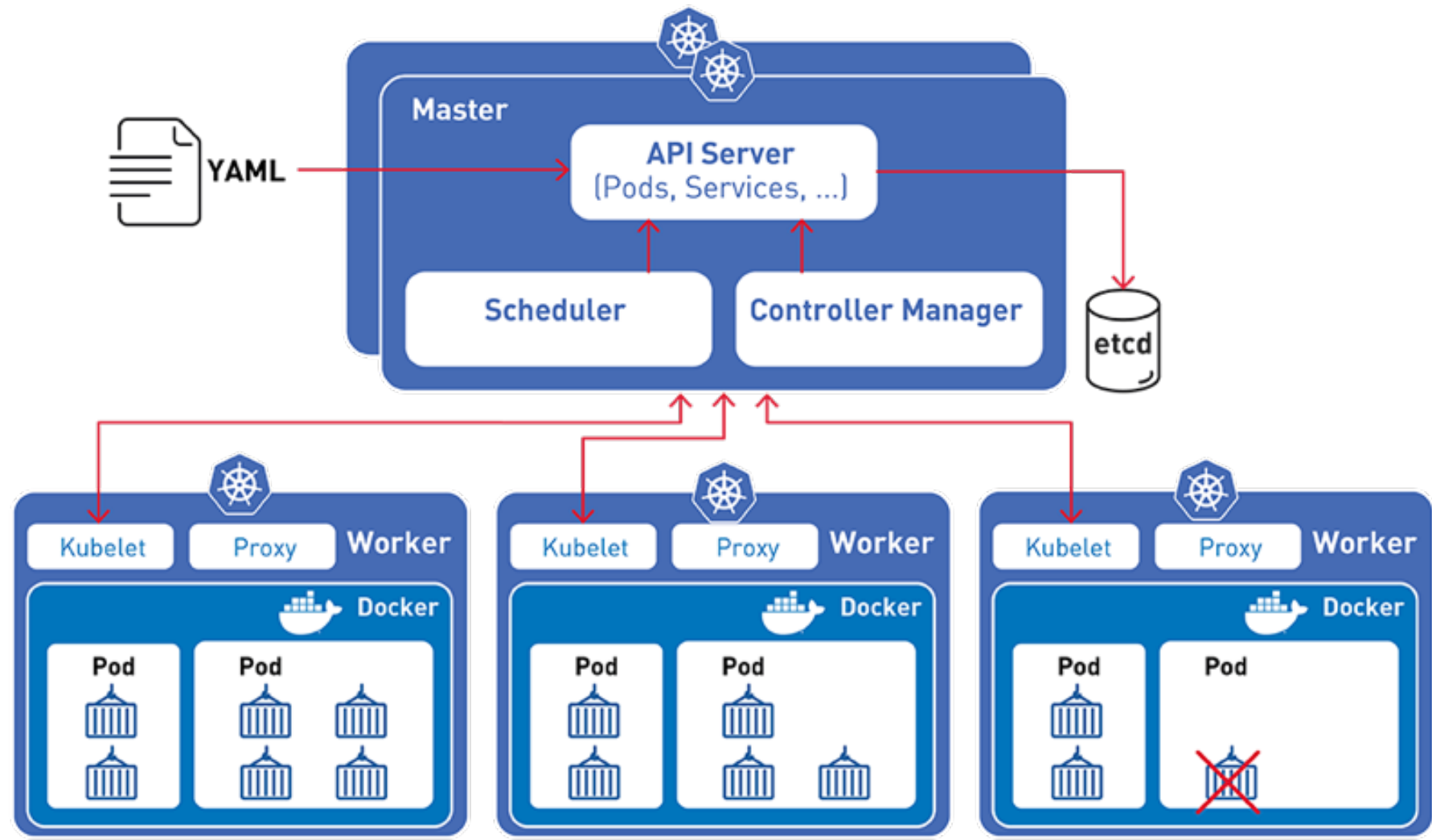


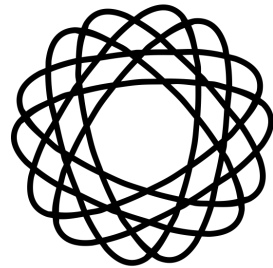


kubernetes



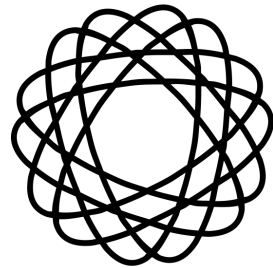






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Complexity



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Complexity



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Security?

Kubernetes Security



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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

☆

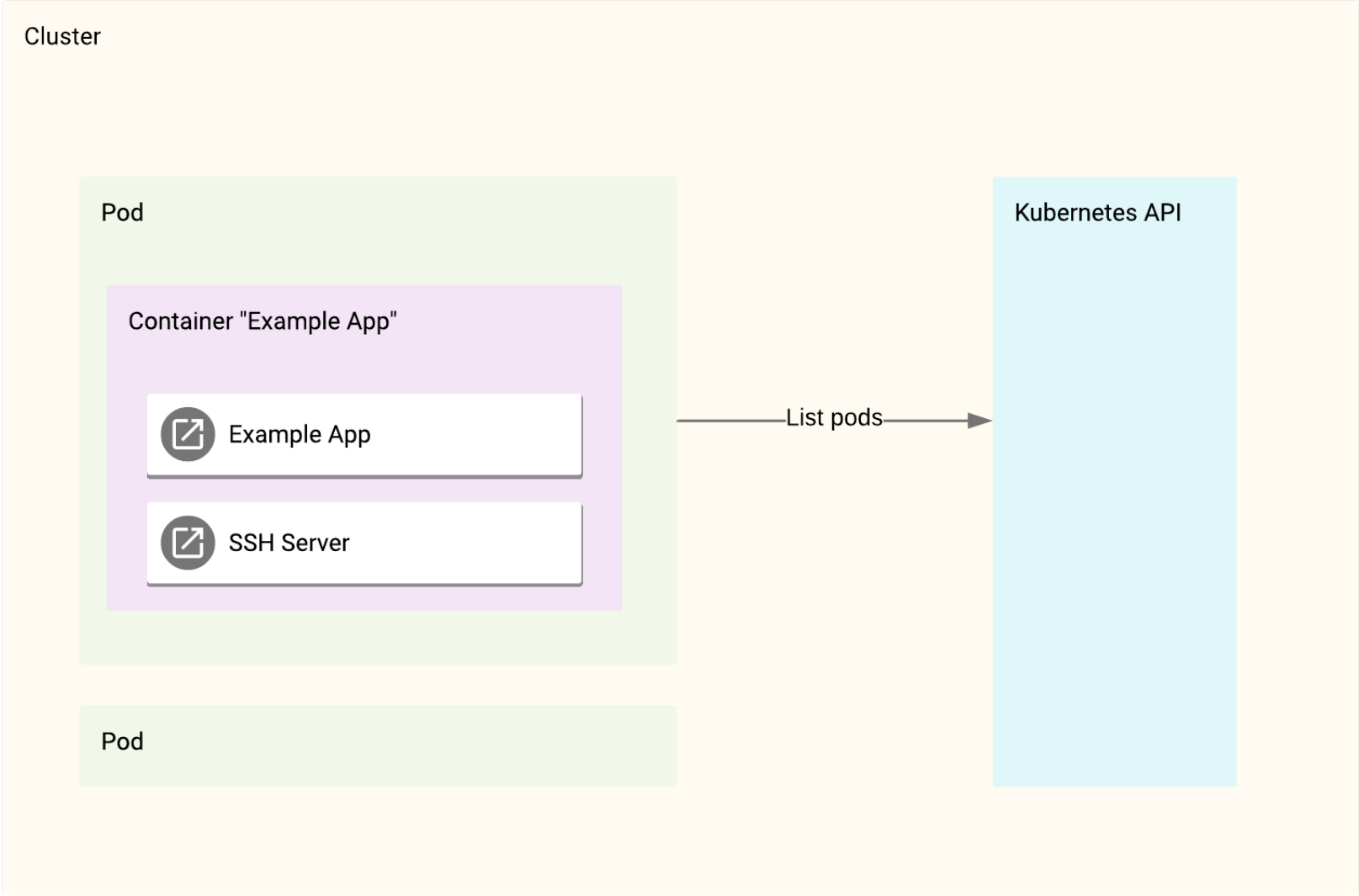
Example Application Home Pods ▾ ReplicaSets ▾

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

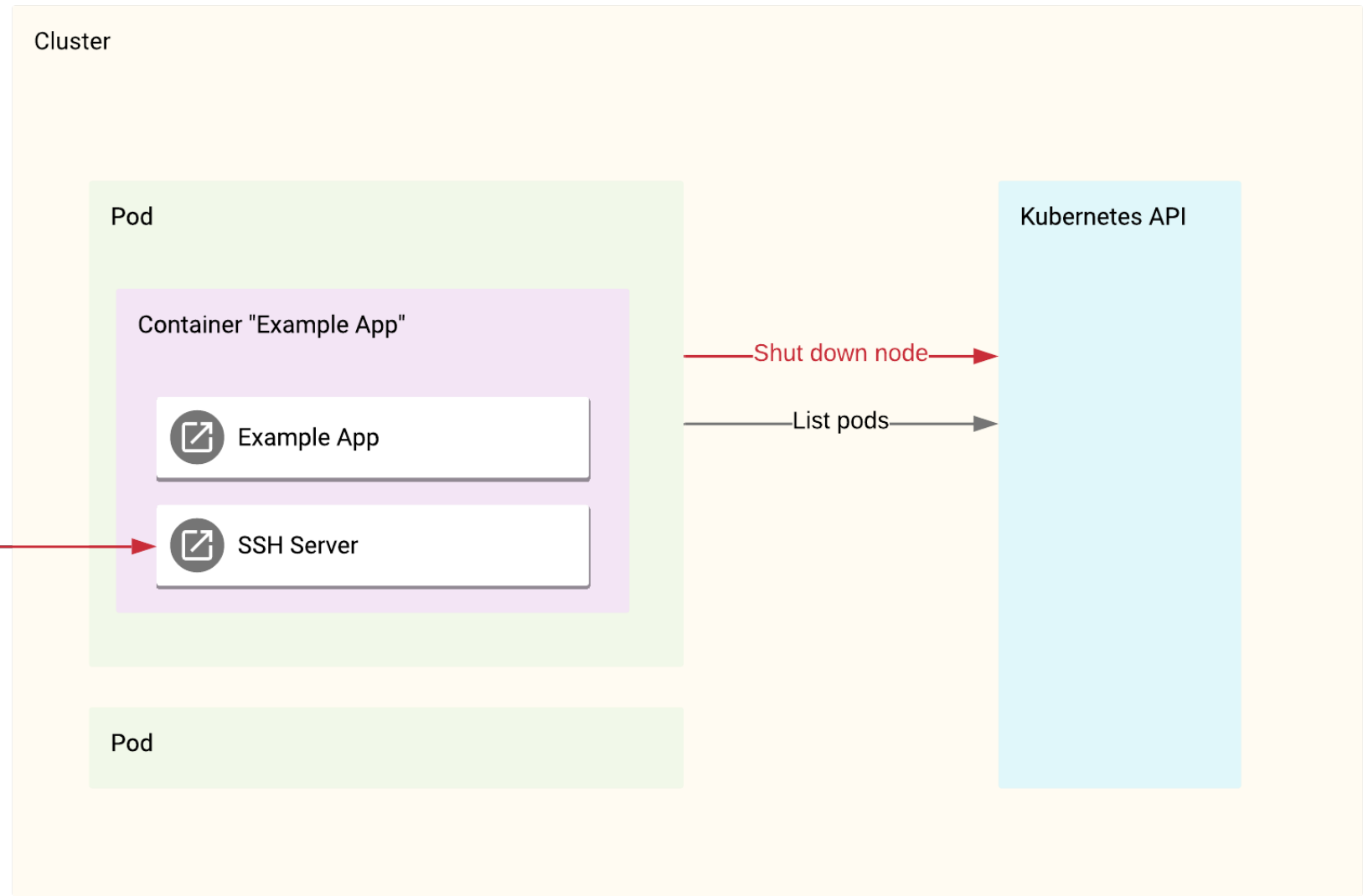
Security Aspects of Container Orchestration

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4 App and Container Security

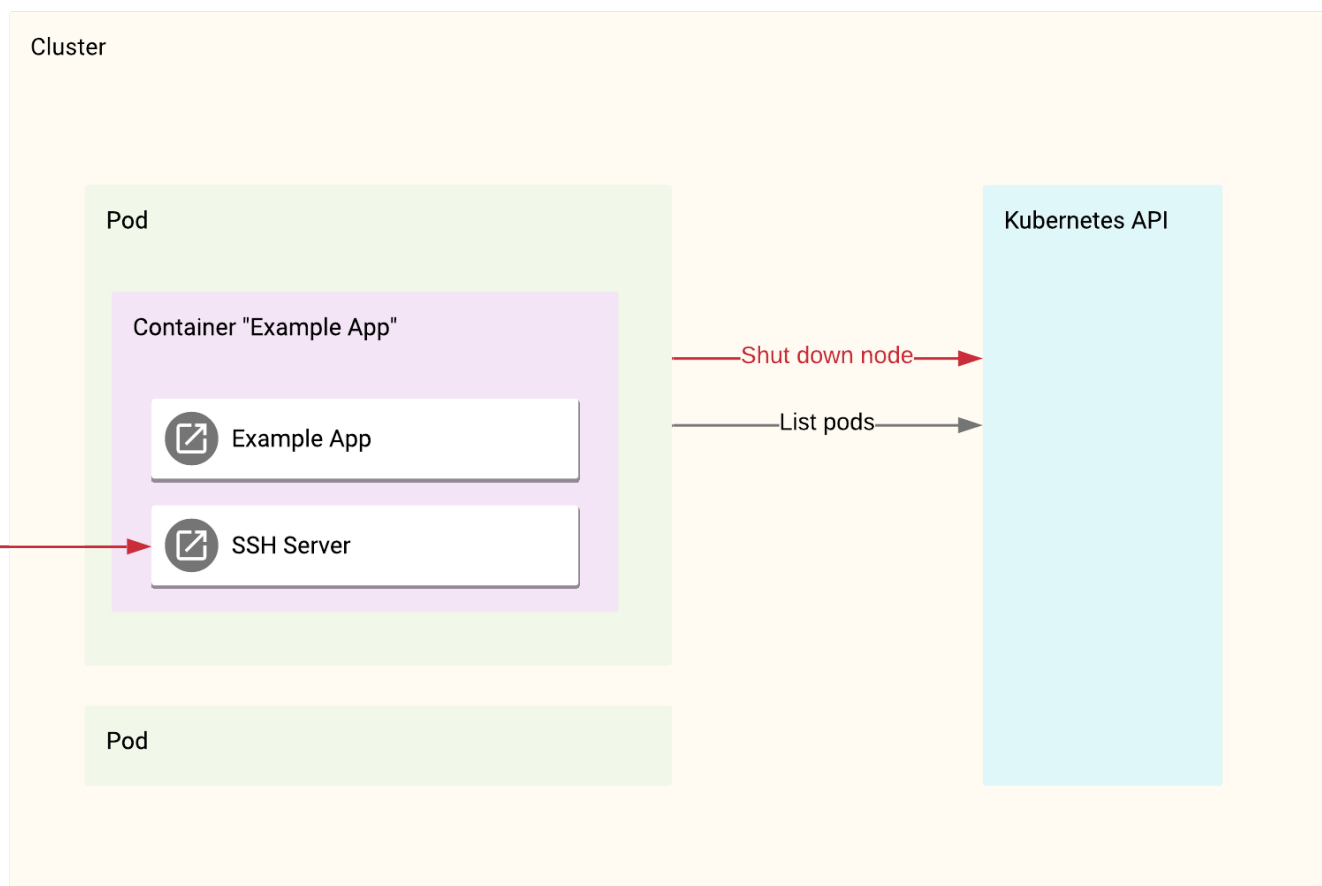
3 Kubernetes Security Controls

2 Kubernetes Infrastructure

1 Base Infrastructure



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4 App and Container Security

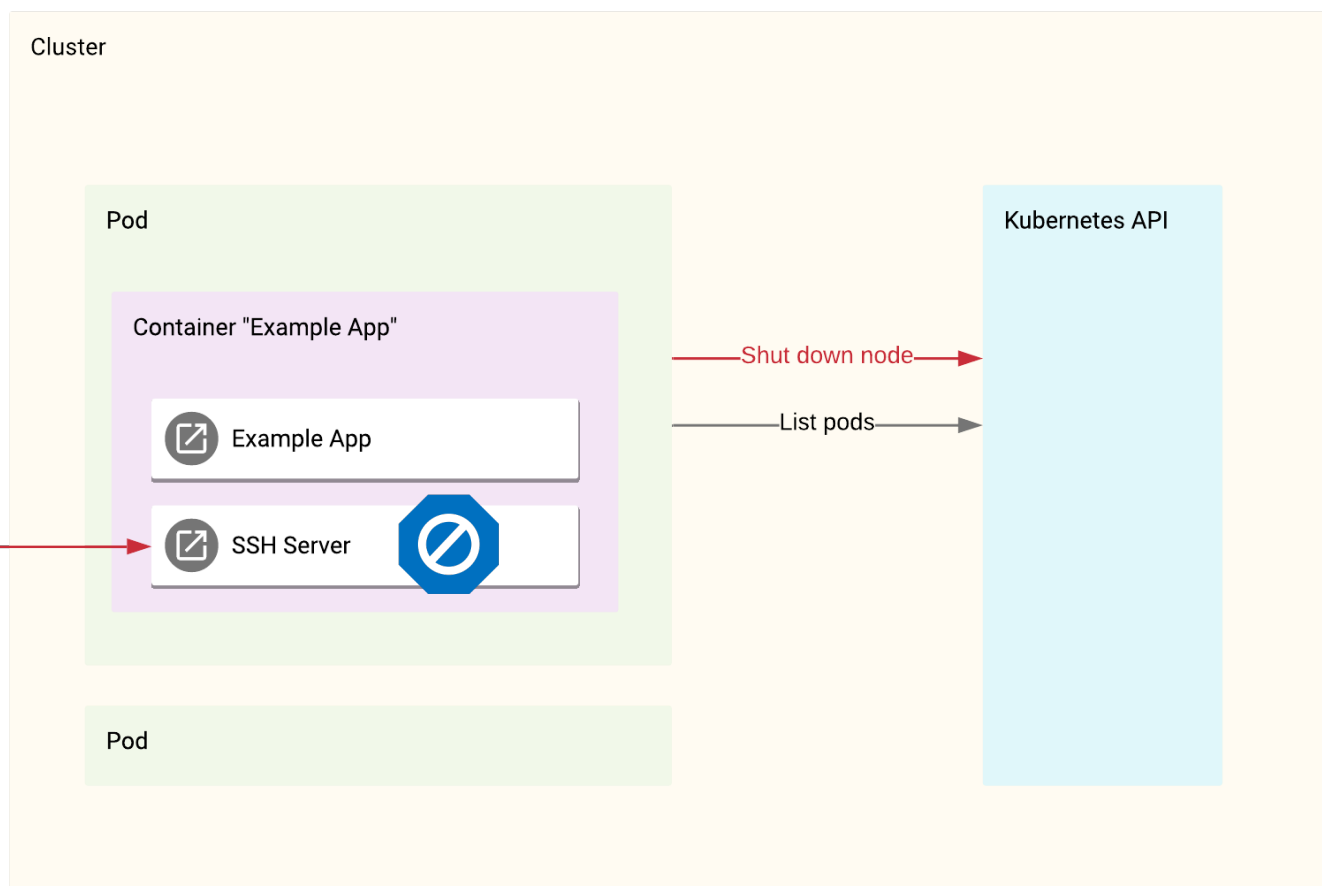
3 Kubernetes Security Controls

2 Kubernetes Infrastructure

1 Base Infrastructure



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4 App and Container Security

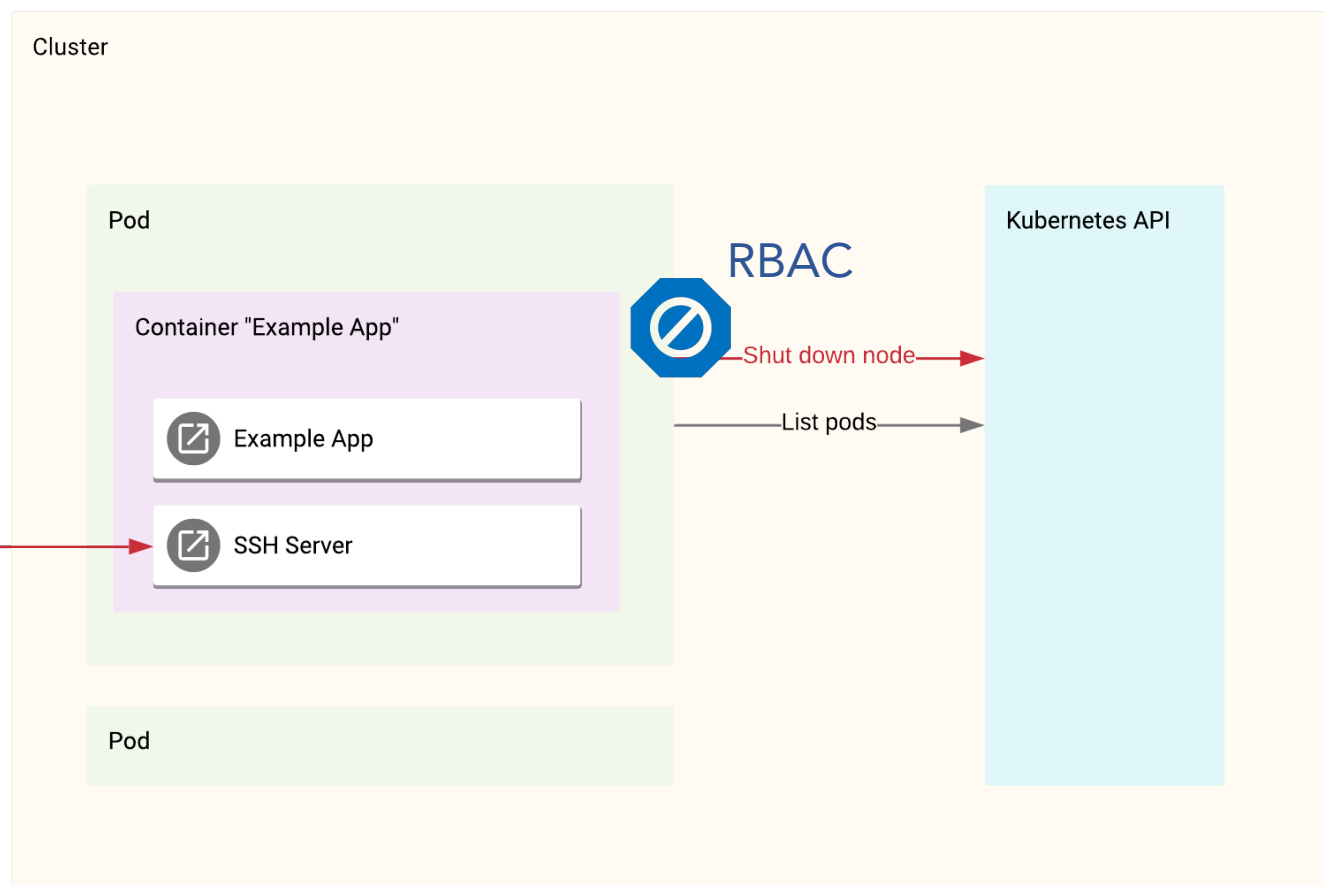
3 Kubernetes Security Controls

2 Kubernetes Infrastructure

1 Base Infrastructure



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4 App and Container Security

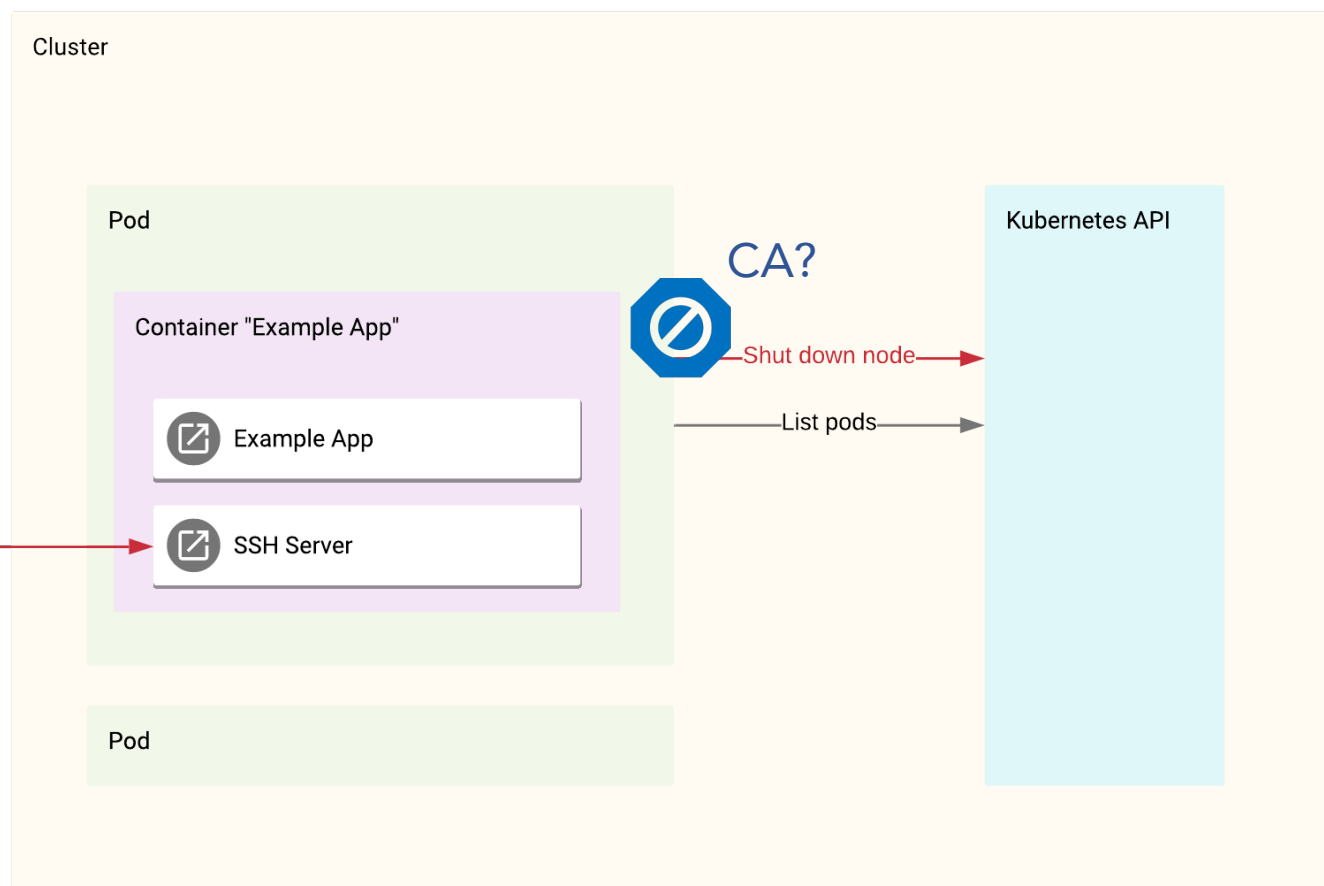
3 Kubernetes Security Controls

2 Kubernetes Infrastructure

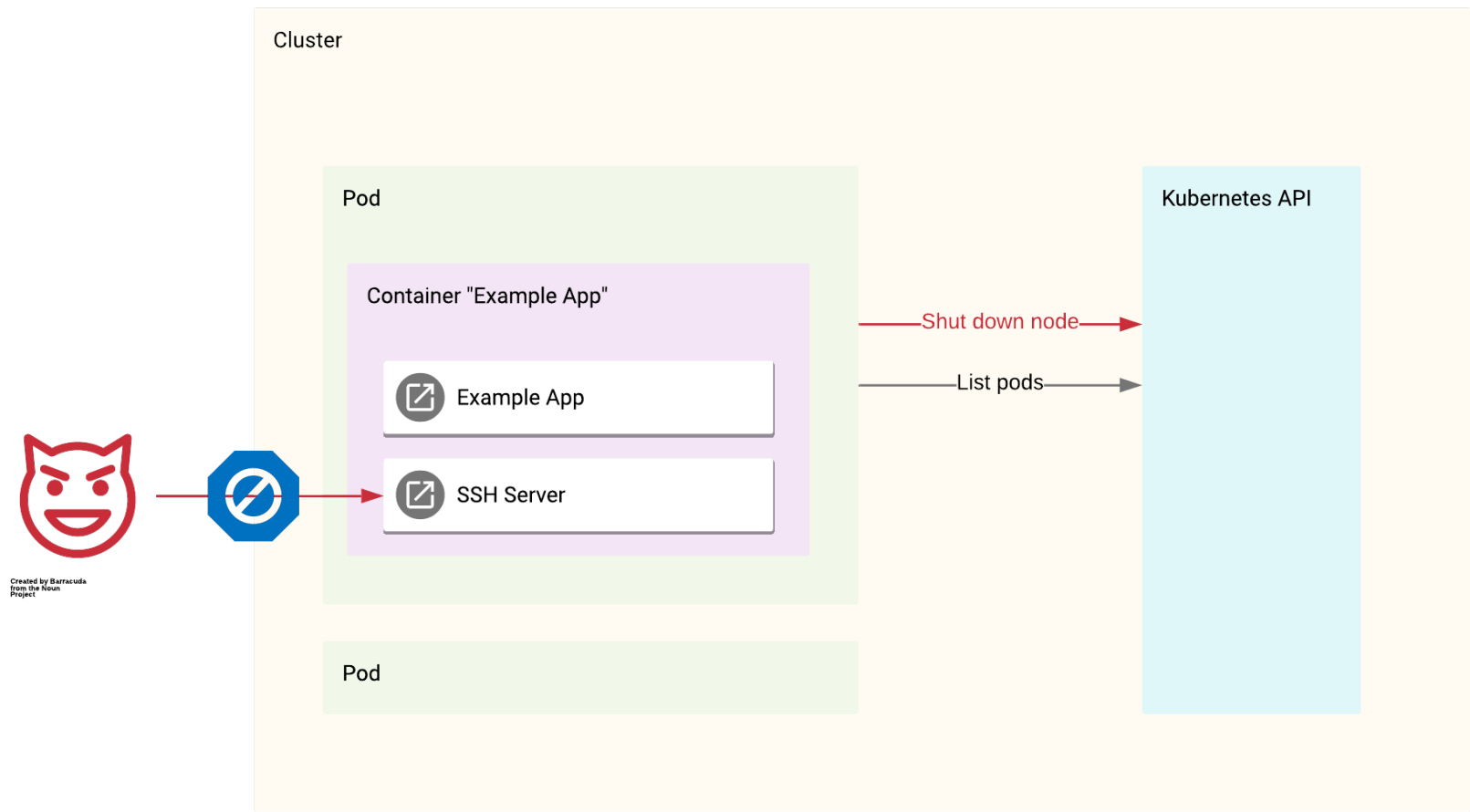
1 Base Infrastructure



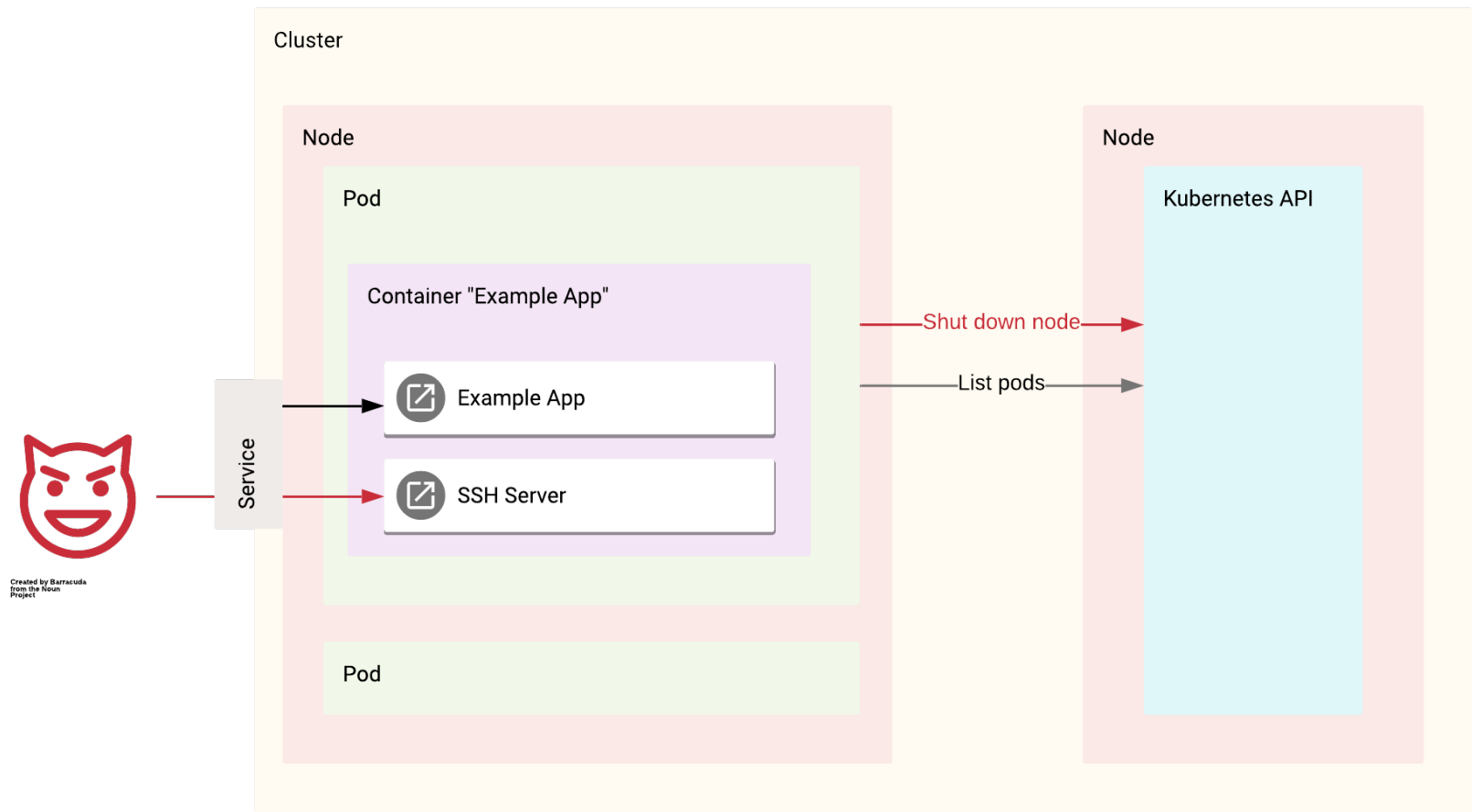
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- 4 App and Container Security
- 3 Kubernetes Security Controls
- 2 Kubernetes Infrastructure
- 1 Base Infrastructure



- 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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