



Tracing Kubernetes

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Agenda

- Context
- Methodology
- Conclusion & future work

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- **Context**
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Context

- Cloud computing is increasingly popular
- Key factors are startup time and resources overhead
- Popular combo: Kubernetes + Containers

Context

- Known performance issues
 - [No iops limit for pod/pvc/pv](#)
 - [CPU Limits Disaster](#)
 - [Random latencies at scale](#)
- Solution: Tracing Kubernetes

Agenda

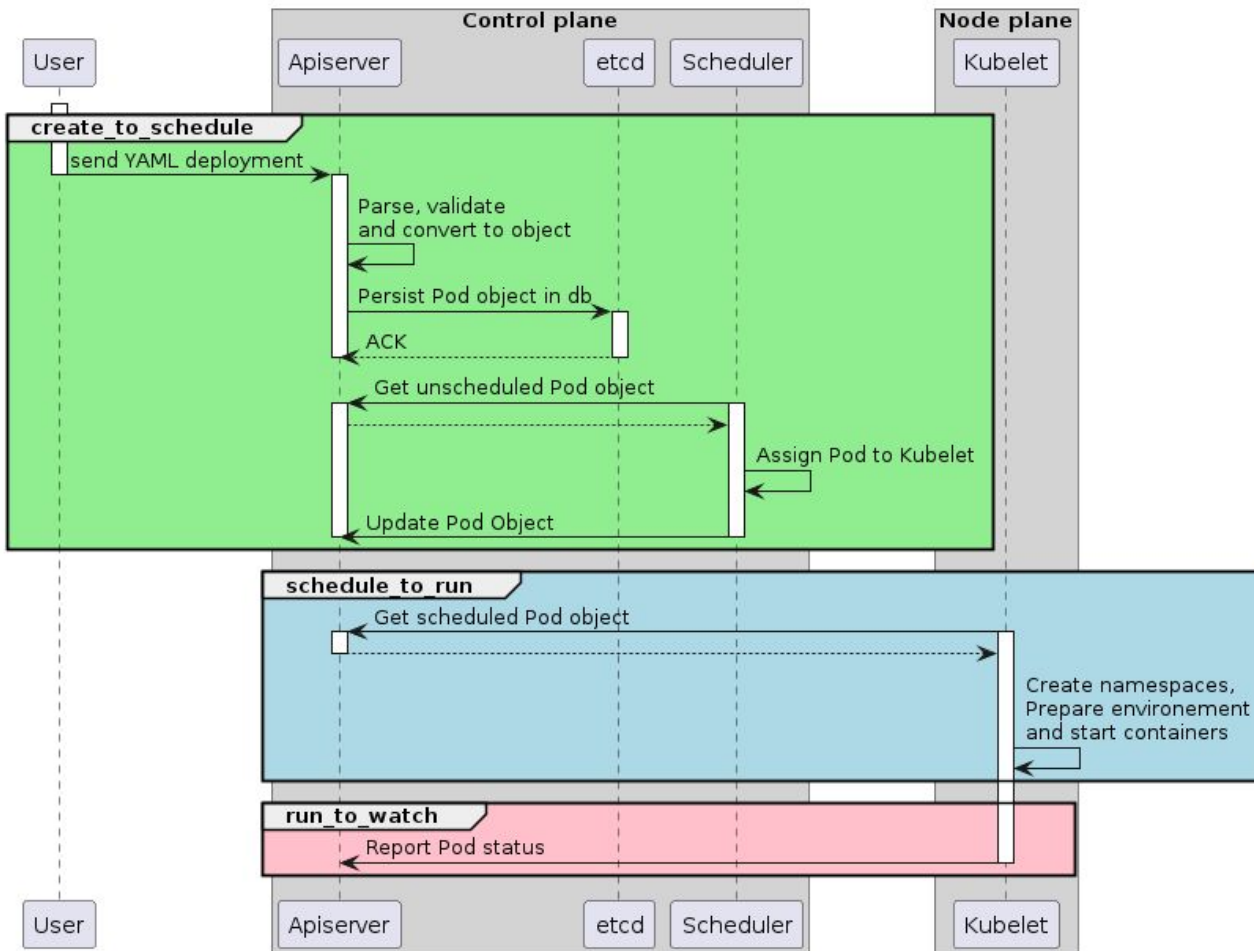
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Methodology

1. Instrumenting Kubernetes
2. Test environnement
3. Visualisation in Trace compass

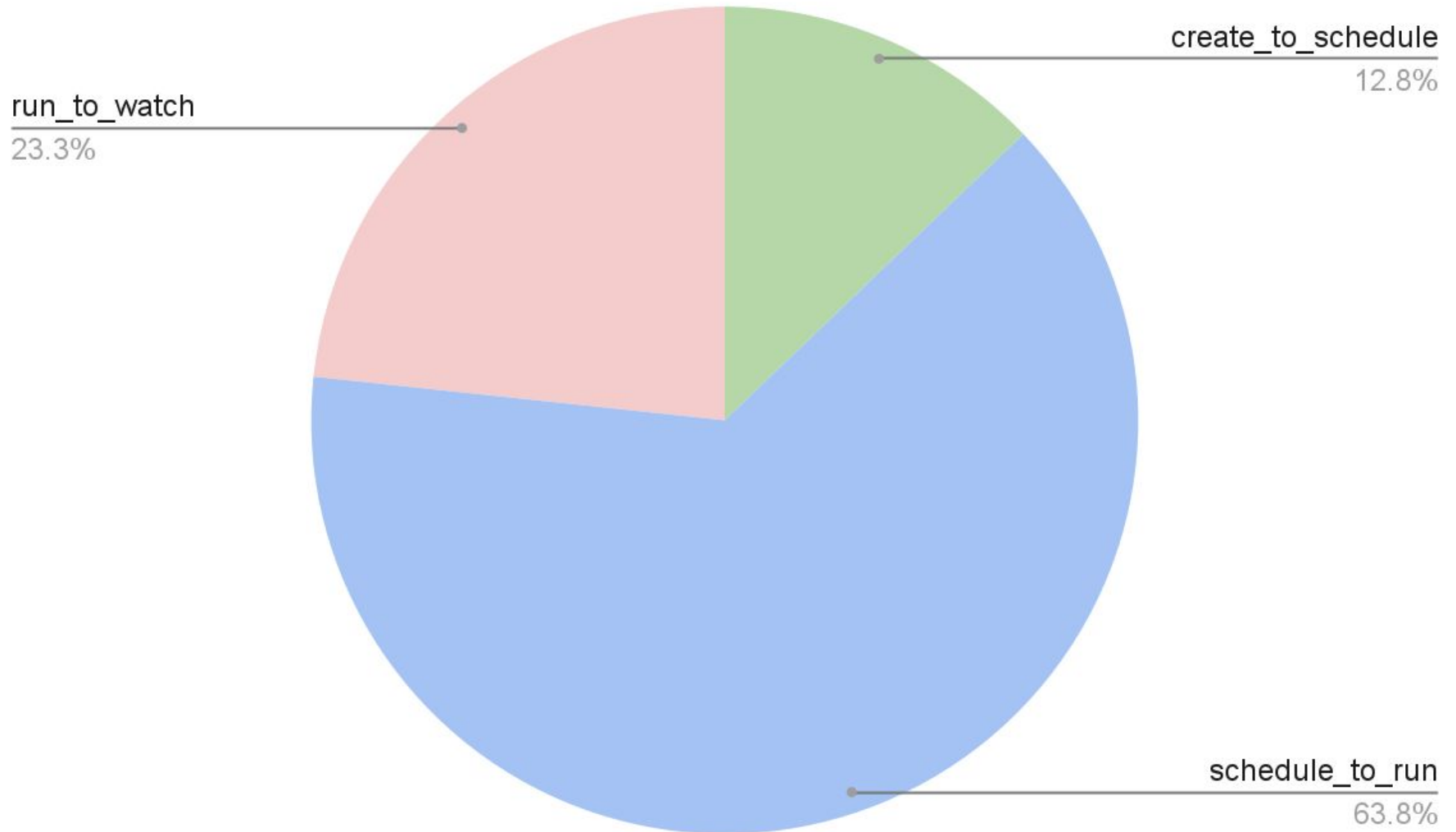
Methodology

1. Instrumenting Kubernetes



Methodology

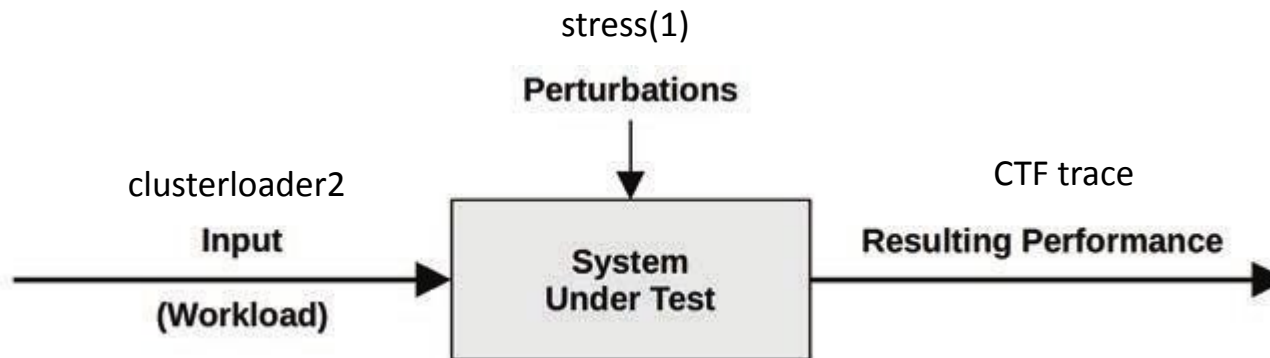
Pod startup



Methodology

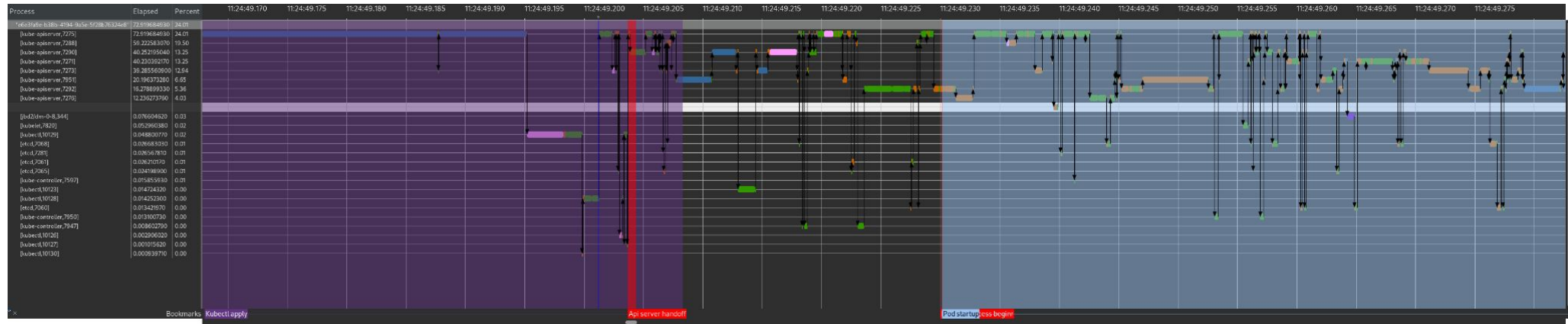
2. Test environment

- Vagrant
- Clusterloader 2



Methodology

3. Visualisation in Trace compass (work in progress)



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Conclusion

- Better visualisation for kubernetes
- More tracepoints for more details
- Tracing at scale

Conclusion

Thank you!

Questions?