Optimizing the control plane performance

Examples take from "Istio in Action"

https://www.manning.com/books/istio-in-action

Christian Posta (@christianposta)
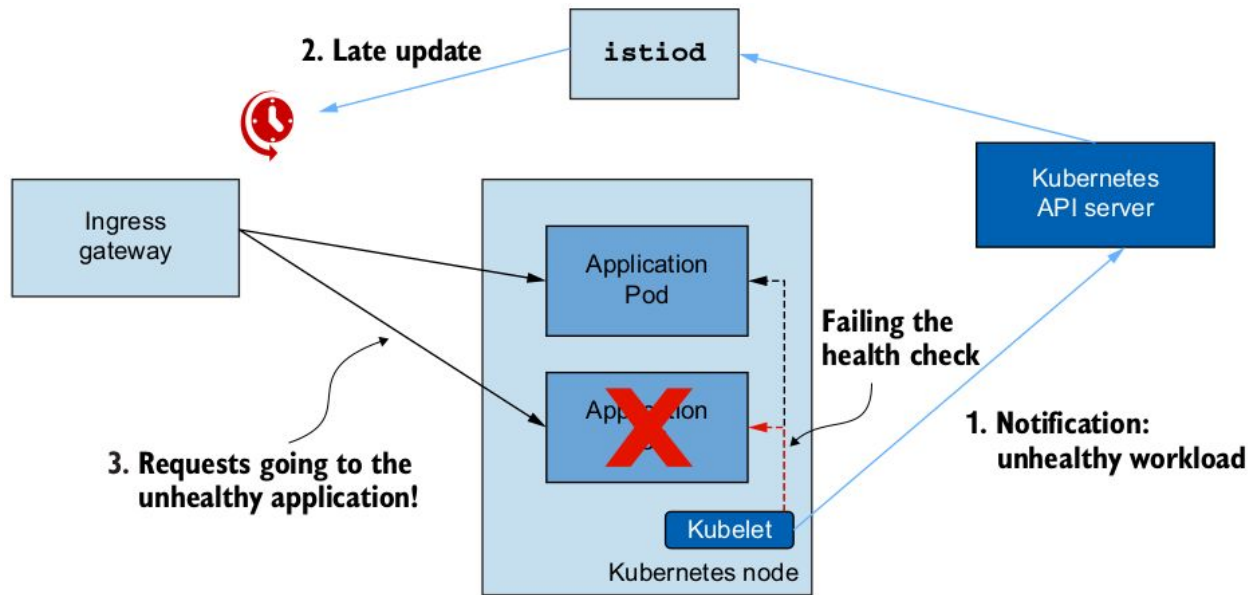
Rinor Maloku (@rinormaloku)
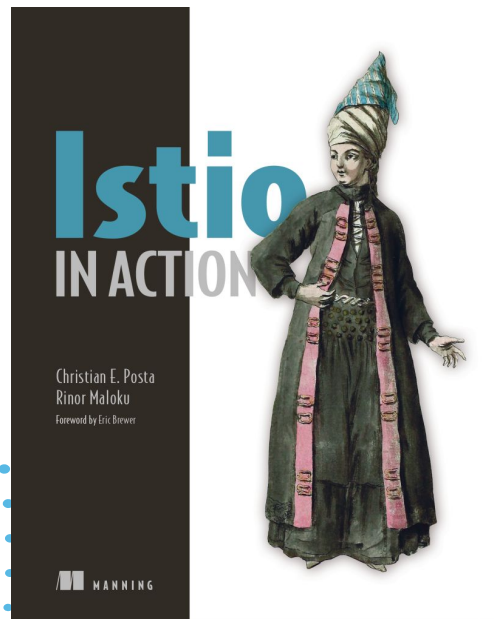
Why is it important?

Figure 11.1   Routing traffic to phantom workloads due to an outdated configuration

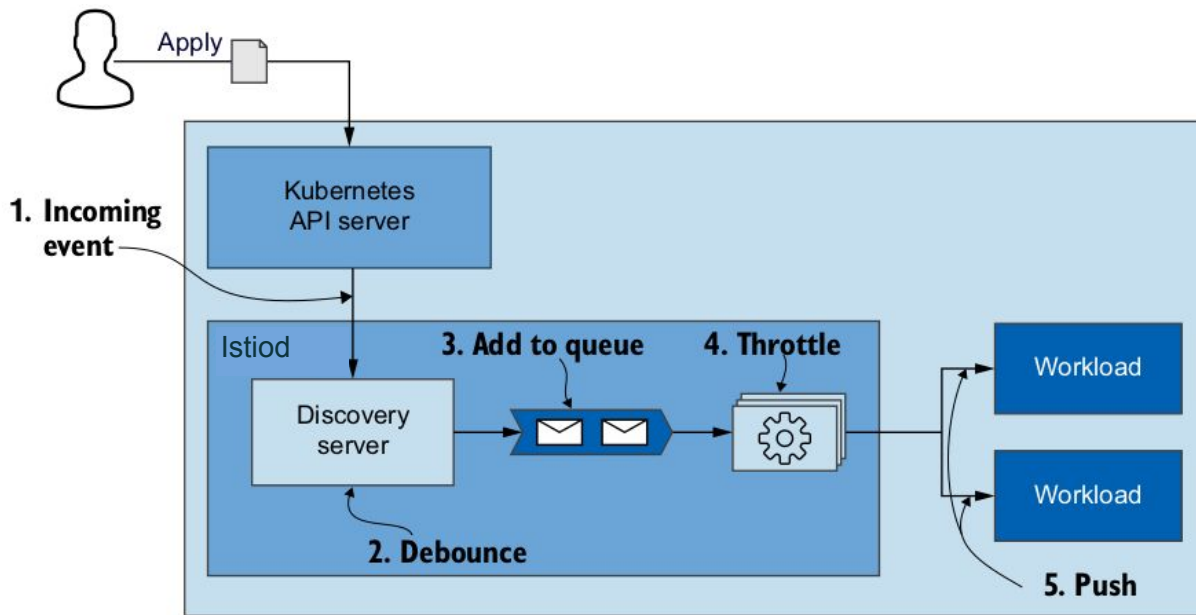*taken from Istio in Action (2022) Manning Publications*

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Steps to synchronize the data plane

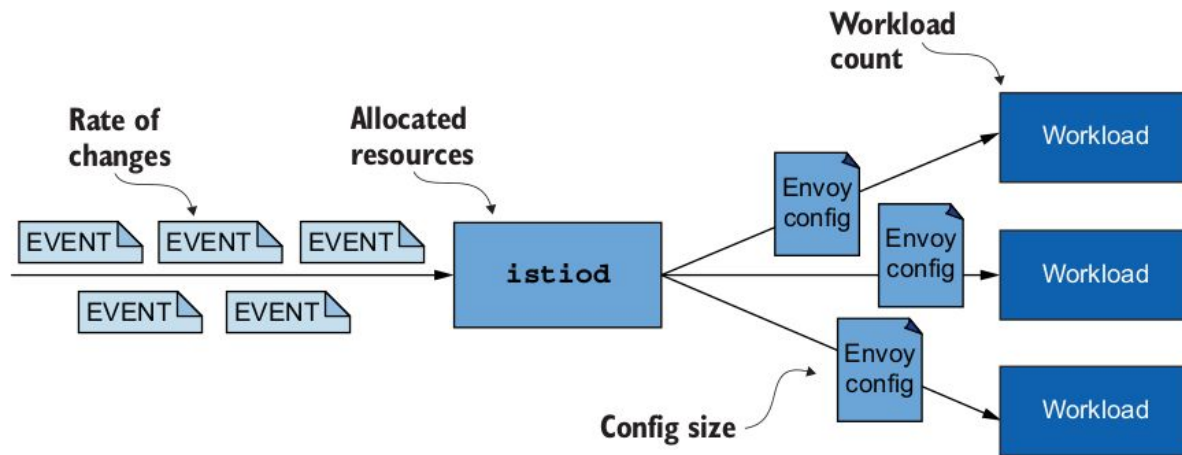Figure 11.2   The sequence of actions to push the latest configuration to workloads

taken from Istio in Action (2022) Manning Publications

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Factors that determine performance

Figure 11.3   The properties that affect control-plane performance

taken from Istio in Action (2022) Manning Publications

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Knobs of improving performance
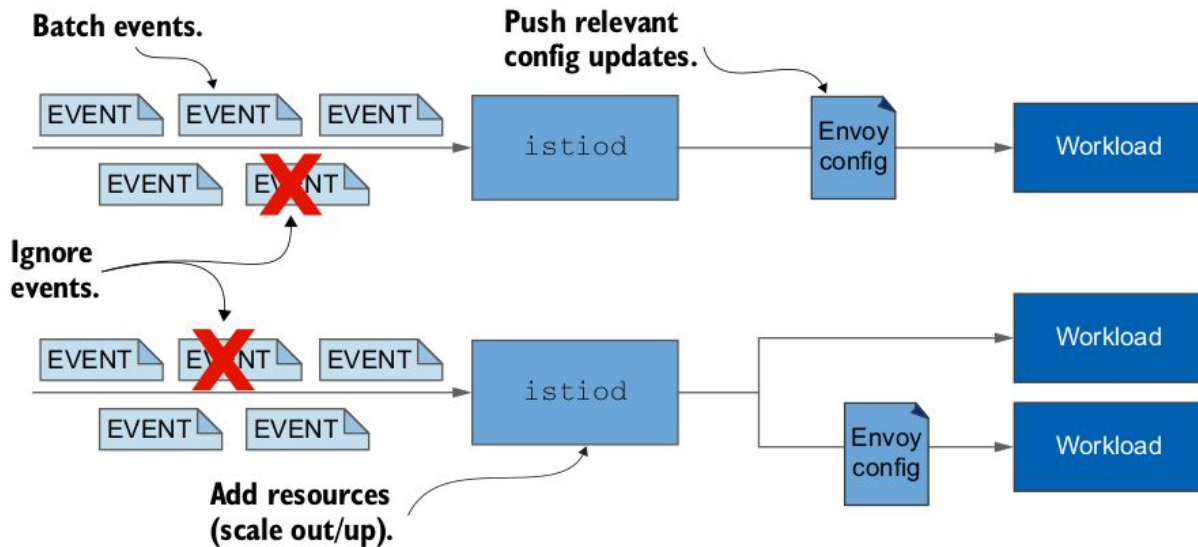
Figure 11.8   The options to improve control-plane performance

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Demo

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Scale out or scale up? (1)

The bottleneck is the rate of changes

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Scale out or scale up? (2)

The bottleneck is outgoing traffic

Get the book!

Thank You!

https://www.manning.com/books/istio-in-action
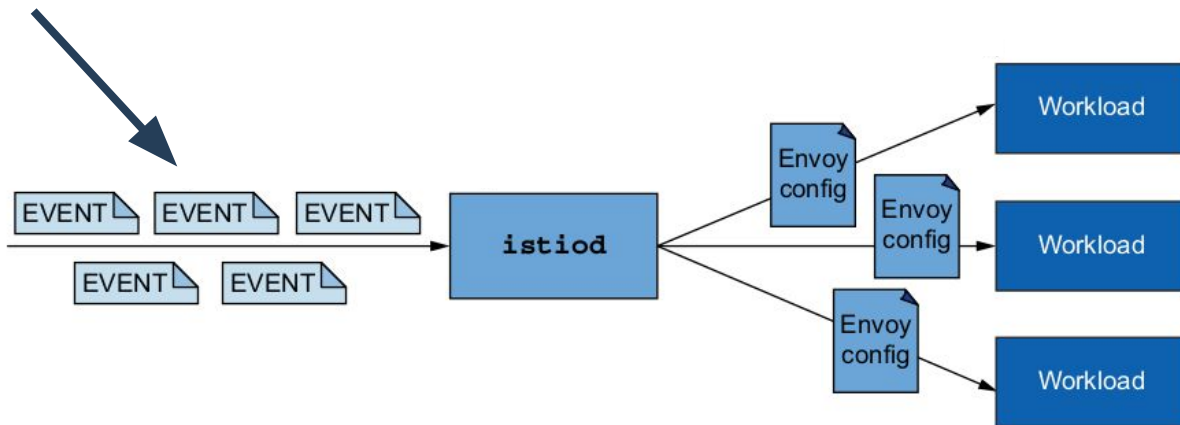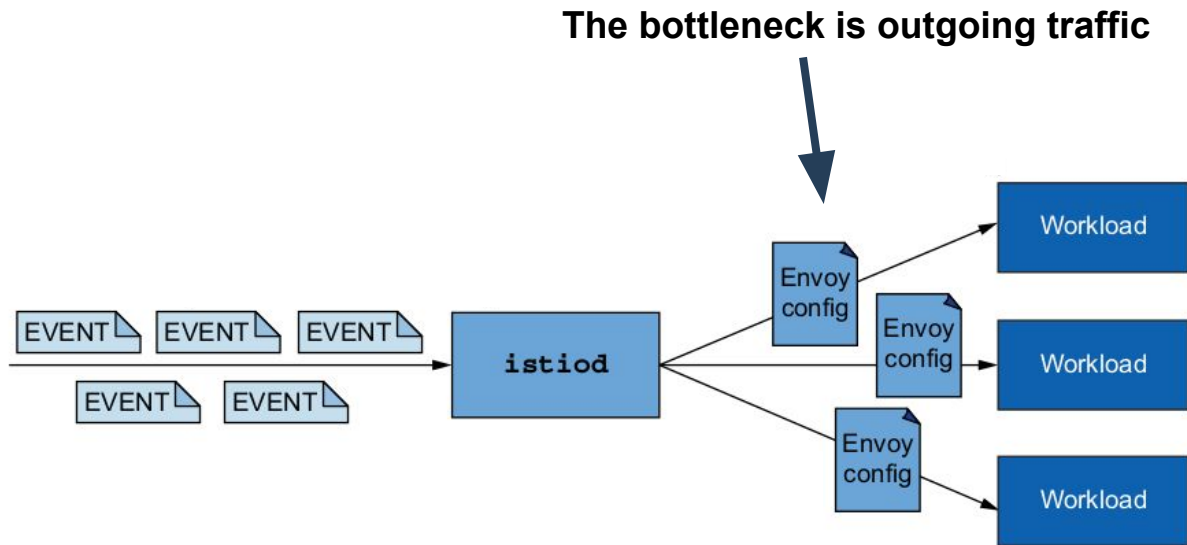
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