

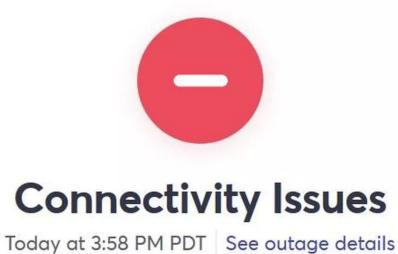
## Speeding to resolution with human-in-the-loop automation

Tina Huang, Founder and CTO

### **Zoom:** August 24, 2020



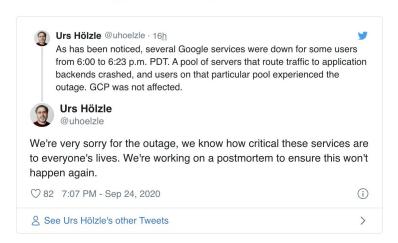
### **Slack:** May 12, 2020





#### Gmail: August 20, 2020 September 24, 2020

#### Microsoft 365: September 28, 2020







### Digital dependency is at an all time high.



Agile requires us to rethink operations and how to make reliability sustainable.



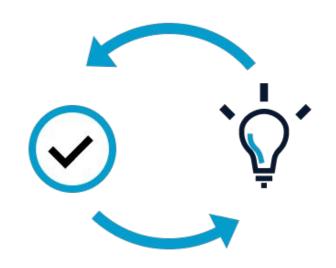


## Agile makes customer support an integral part of reliability.





Sustainable agile requires faster resolution and continuous learning





Automation and post-mortems are not the panacea for incident management.





Resolving faster is more than the technical, it's about helping people communicate better.





#### Why is automation hard?





### **Automation is scary**





### Nuance is hard to automate



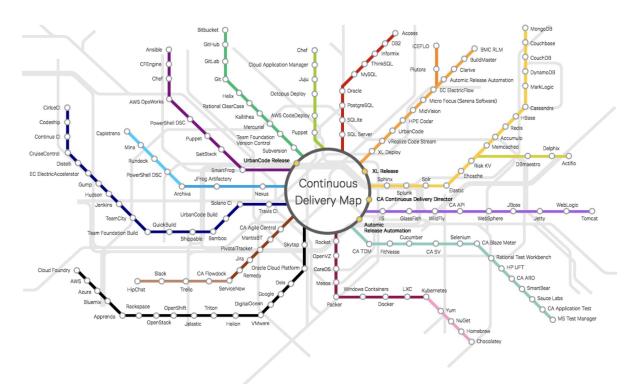


### Innovation breeds incidents





#### **APIs** are hard



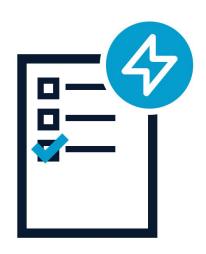


## Let's rethink automation





## Human in the loop automation is checklists on steroids





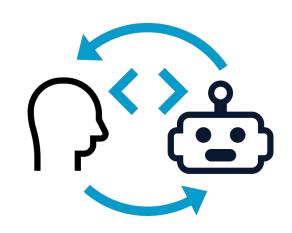
#### What makes a great SRE?

- Having lots of operational expertise
- Lots of domain knowledge
- Great operational and organizational intuition





# Turning human intuition into human judgement



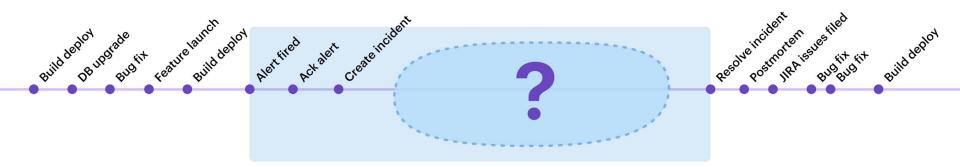


With so much data, why is incident management not more data driven?



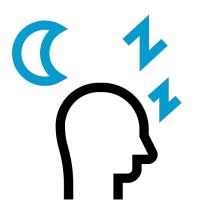


## Incident management is fundamentally broken.





## At 3am no one is thinking about capturing data





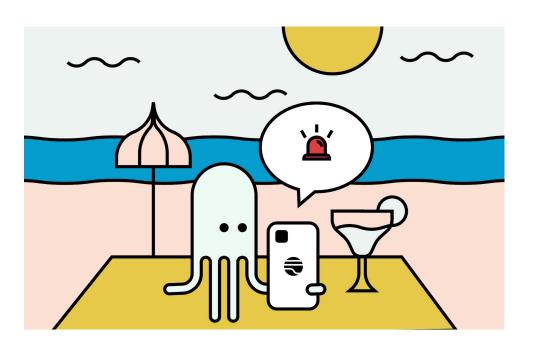
## You need an incident management platform to capture data





### #BeachOps





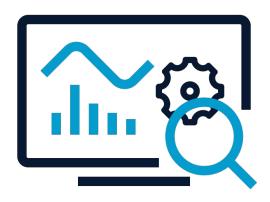


Having data isn't enough. How can we make data accessible and useful during incidents?





## Make data access friendly with search and recommendations

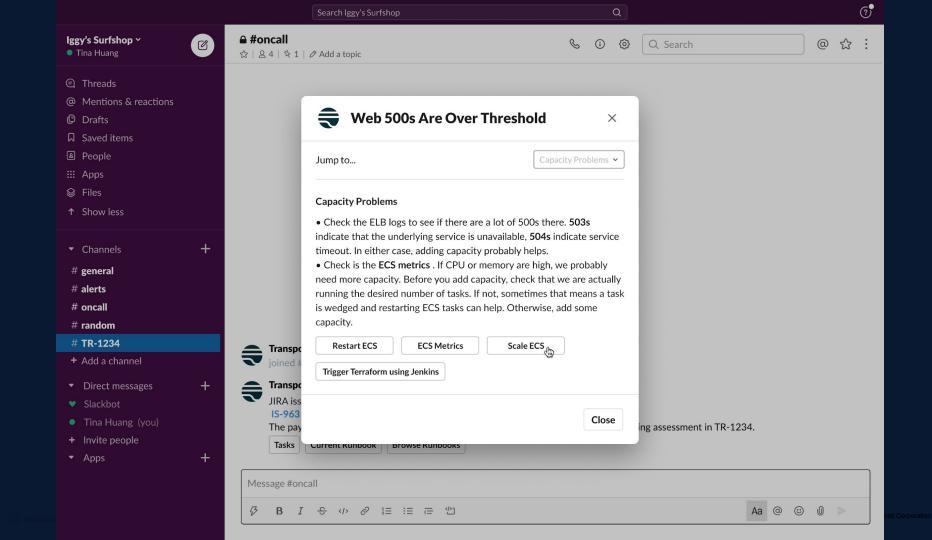


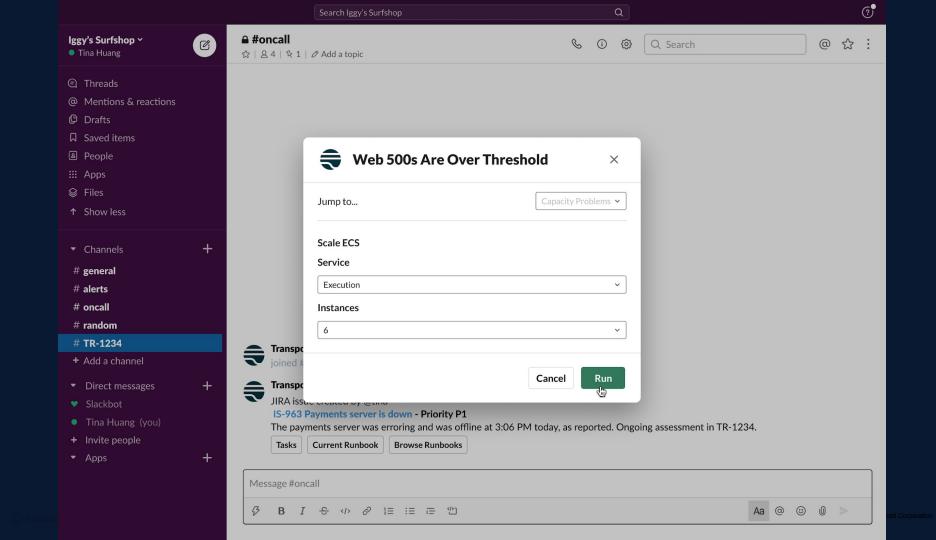


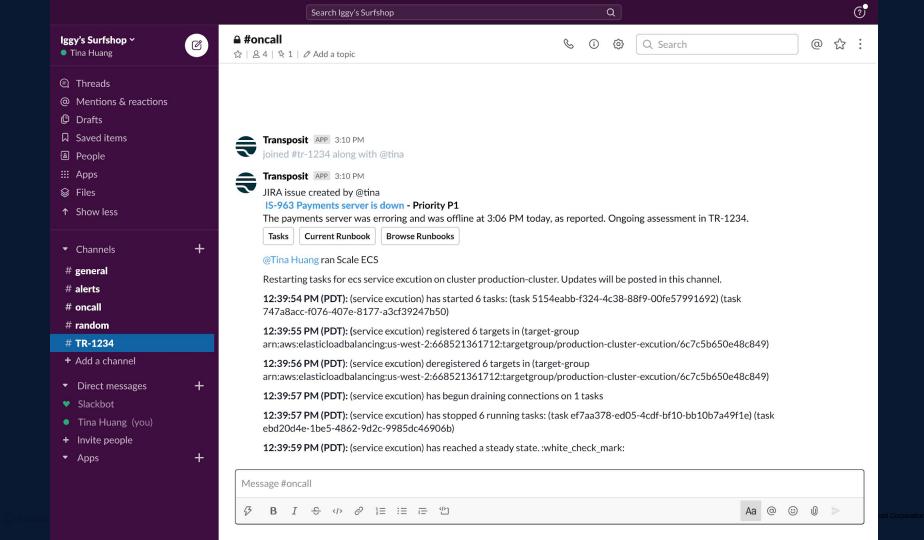
### Automating the learning process

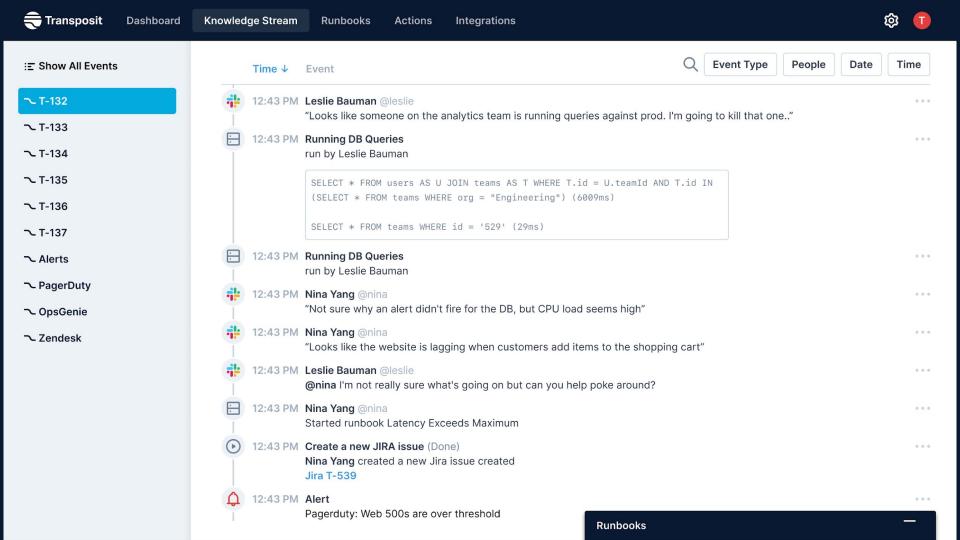


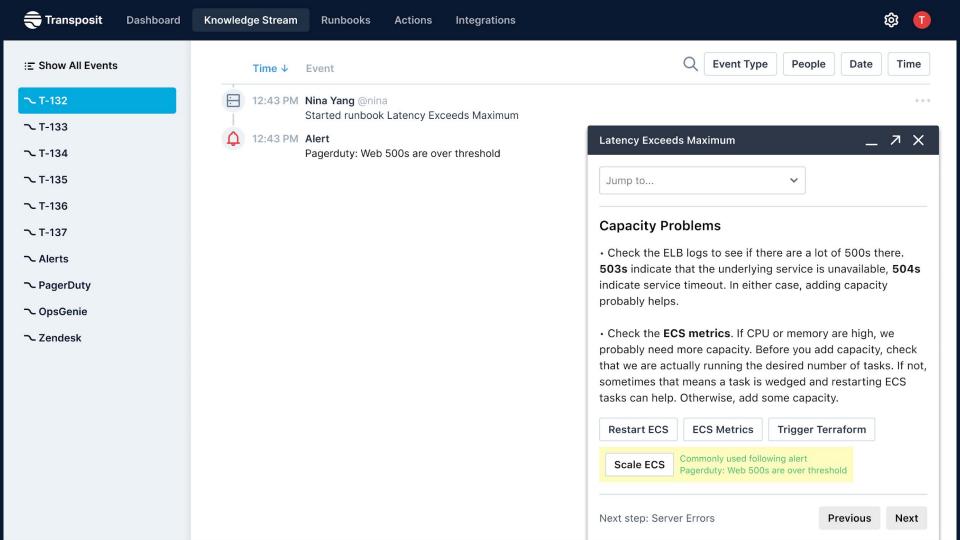


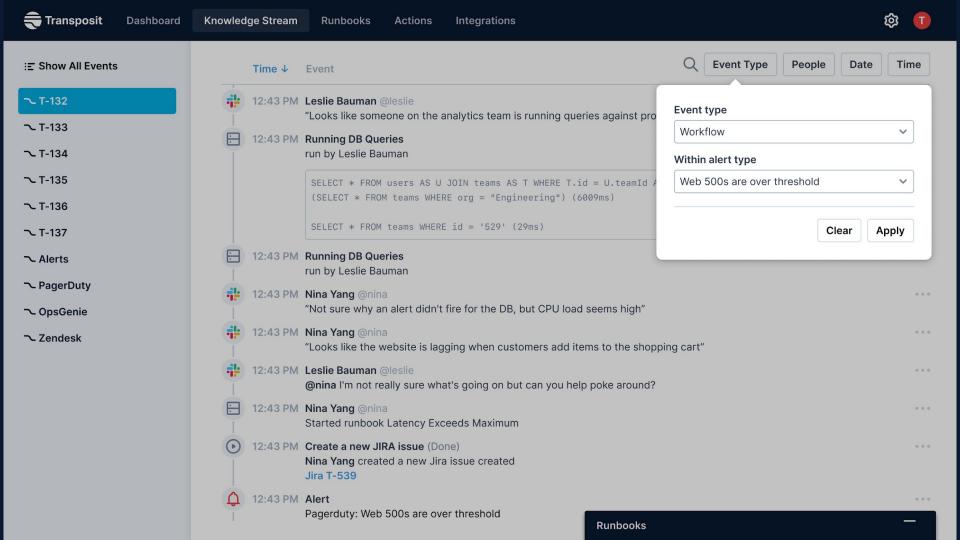


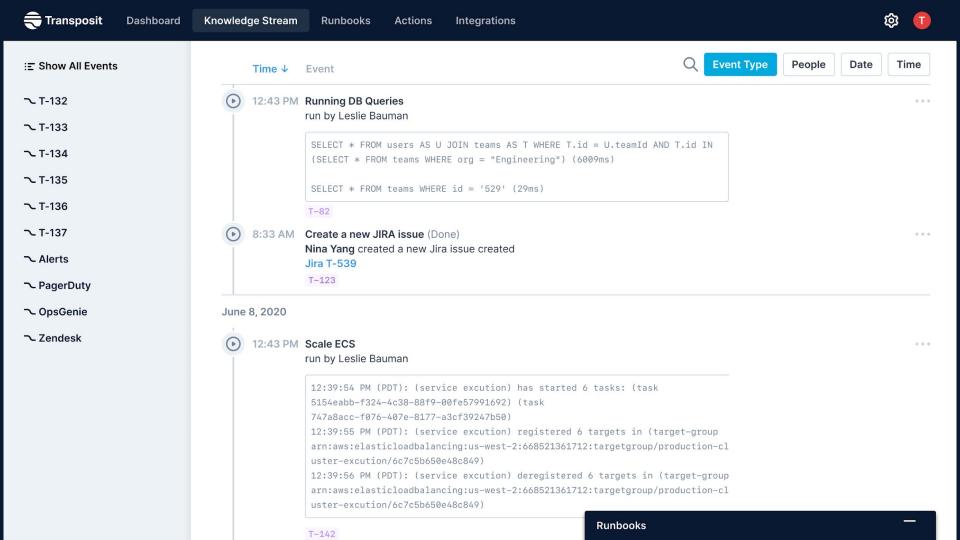


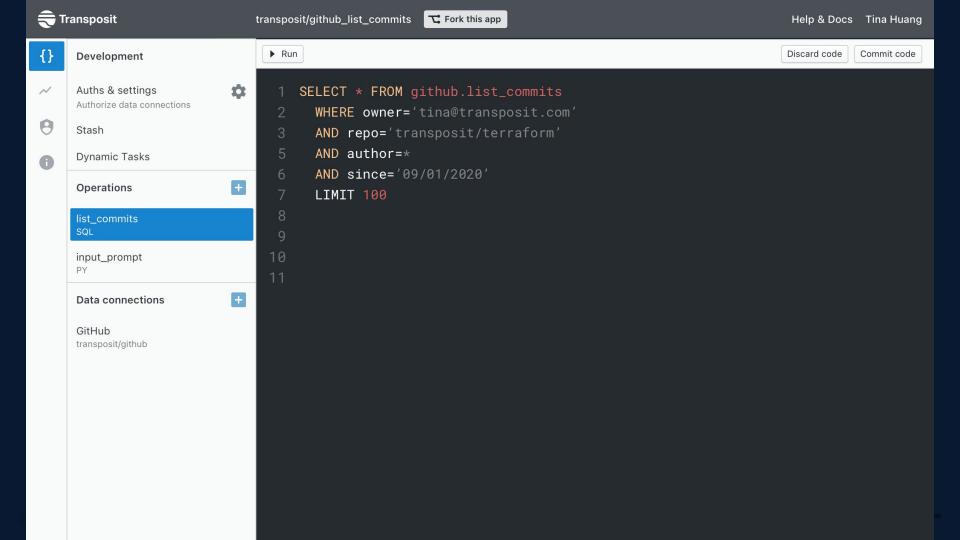












## The Future of Operations is Now

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