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Scaling Long Running Operations

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Agenda

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Who are we and what do we do

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What brought us to Temporal

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Where are we now

Who are we and what do we do

Snyk Make the world a safer place by providing a Developer first security platform

Neal Morris, Imran Bohoran

What brought us to Temporal

Our challenges

Our considerations

Our approach

Our challenge

- **Long running operations**
- **Many participating services**
- **Dropping work on the flow**
- **Being kind to downstream systems**



Why not just a Queue

- **Durability**
- **Flow control**
- **Resilience**
- **Observability**
- **Maintenance**



Why consider Temporal

- **Durability**
- **Flow control**
- **Resilience**
- **Observability**
- **Maintenance**



How we started

- **3+ million Snyk scans a night**
- **Lots of complexity deal with**
- **Unfamiliar domain**
- **New Technology**
- **Prioritise learning over Impact**
- **Small steps**
- **Quick feedback**



Learnings

- **Running a self hosted Temporal cluster**
- **Large payloads**
- **SDK Limitations (when we started)**
- **Non determinism**



Where are we now

- **20+ million operations**
- **Better Flow control**
- **Tolerate failures**
- **Observability across participating services**
- **Hosted Temporal to Temporal Cloud**

