



How to architect a cloud-native and reactive application environment

An Interactive demo session

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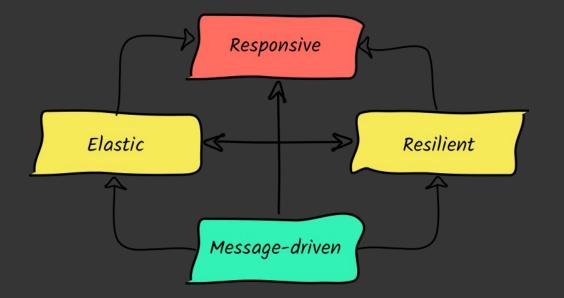
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Reactive all things?

Message
ElasticityMessage
ResilienceBack-PressureManifestoSystemStreamsManifestoSystemScalabilityAsynchrony
ActorAsynchronyData FlowsProgramming
EventsSpreadsheetsObservable
RX JavaEventsSpreadsheetsRX Java

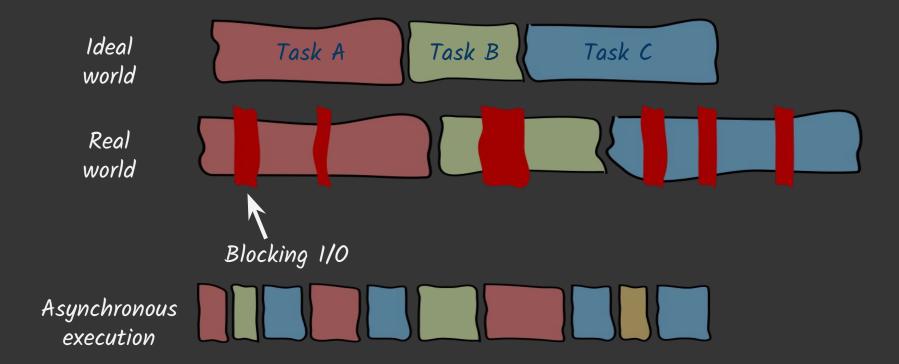


Reactive Manifesto





Async Execution





Just the evolution of Software

Distributed

Massively distributed

Dynamic Environment Users

No Downtime

Reply fast

Push vs. Pull

Data

Increasing amount of data

Data in motion

Data Rivers



Some use cases

Edge

High Concurrency

Orchestration of backend services

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Interactive

Bi-Directional communication

Push-first

Data

Process data on the fly

React on data changes



Goal: Create a greenfield solution



CAJUN NAVY Emergency response demo

- Community-Powered Disaster Response Solution
- Inspired by the Cajun Navy response from Hurricane Harvey
- As people are stranded need help, responders want to help
- We want to make it easy to engage the community to organize people who can help out
- Want to make it easy to engage the community that needs help





CONTAINER CAPABILITIES



LIFECYCLE MANAGER







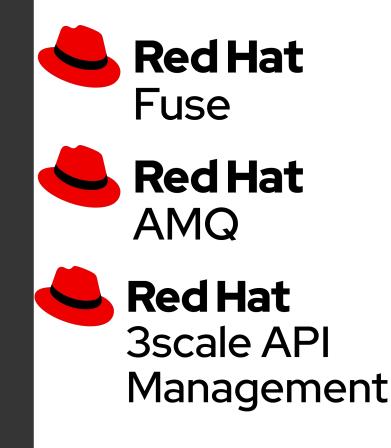




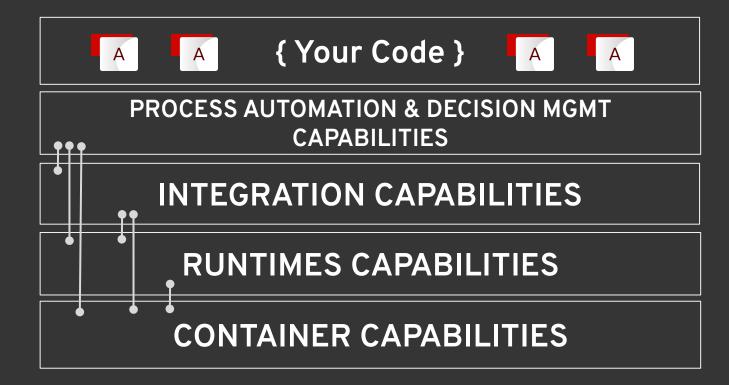




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Red Hat Process Automation



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3VAE	INTEGRATION CAPABILITIES	
BSE	RUNTIMES CAPABILITIES	DEV
ō •	CONTAINER CAPABILITIES	•

RED HAT[®] CODEREADY



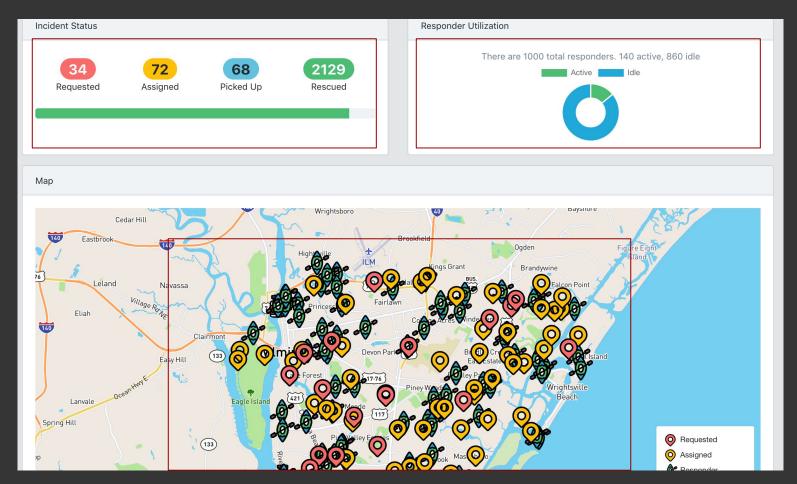






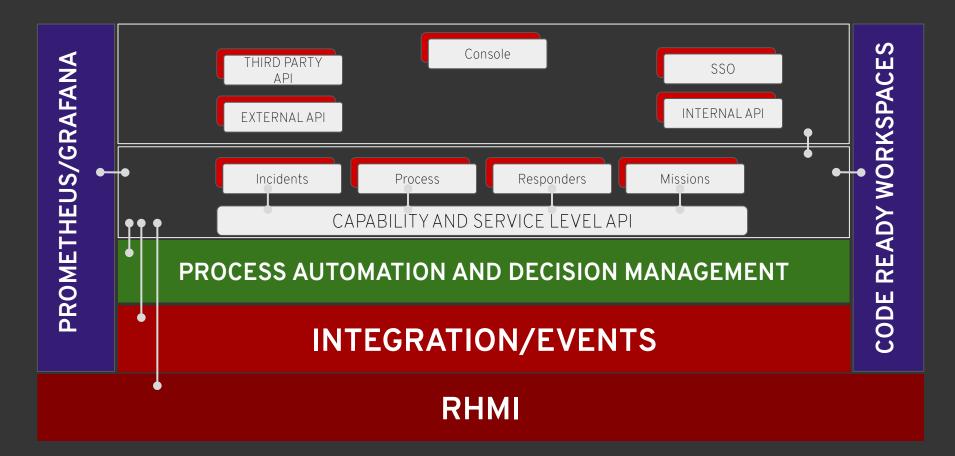


Live events, reactive services



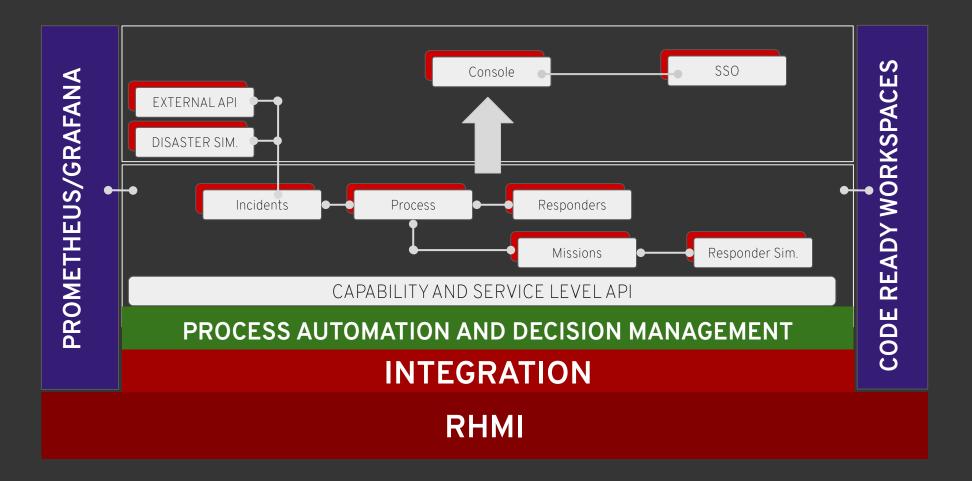


Defining capabilities



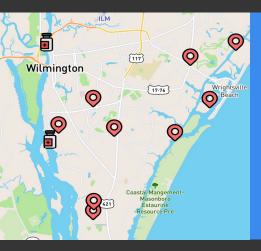


Flow of Events





Demo



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http://bit.ly/erdemo-montreal

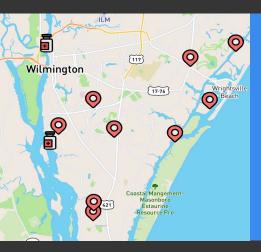
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Resources



CAJUN NAVY Emergency response demo

- More info: <u>www.erdemo.io</u>
- **PRs are welcomed!** Github:

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- https://github.com/Emergency-Response-Demo
- Red Hat Developers <u>https://developers.redhat.com</u>
- Red Hat Middleware -<u>https://www.redhat.com/en/pro</u> <u>ducts/middleware</u>



Thank you

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