Containers and Cloud Native

Technical workshop THREE
Service Mesh
Starting at 10am CST

WELCOME

RED HAT OPENSHIFT

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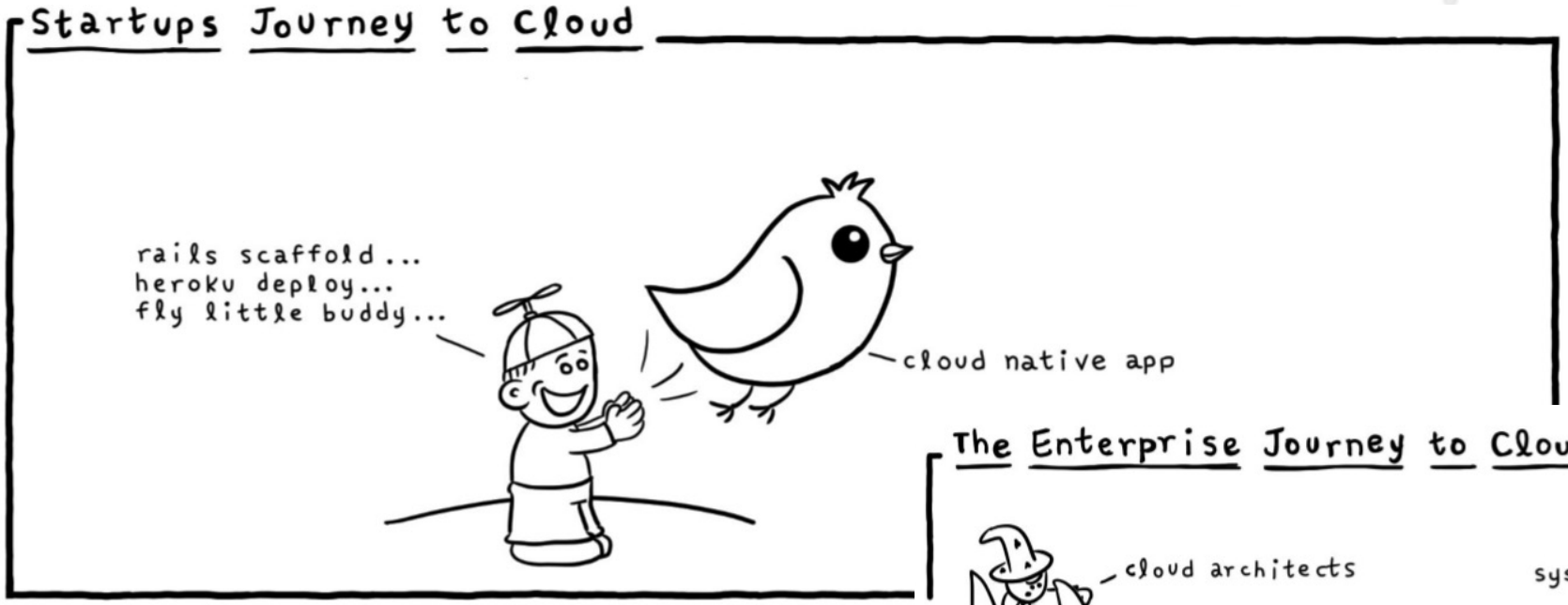
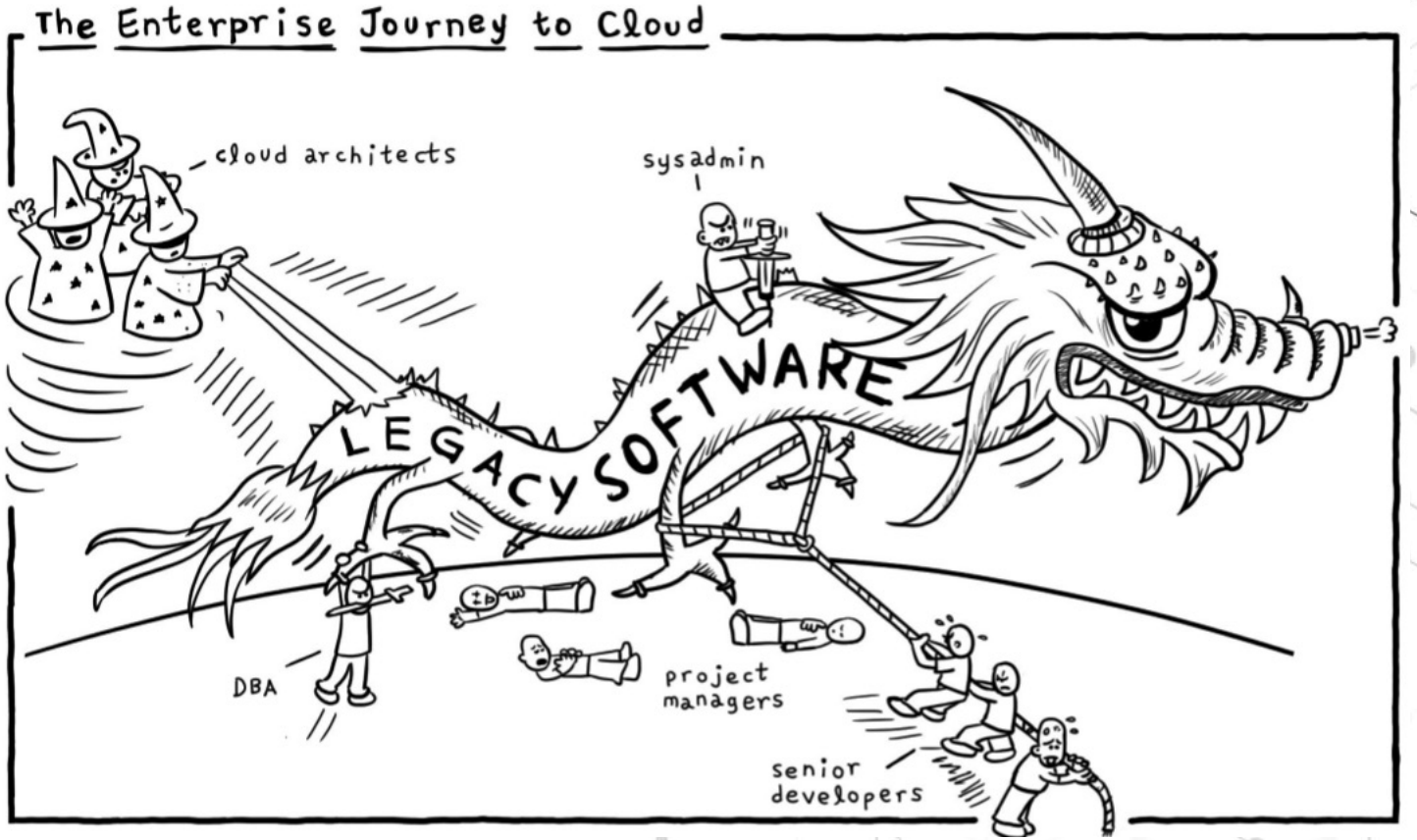


Daniel Stori {turnoff.us}
Thanks to Michael Tharrington



WORKSHOP AGENDA

- 2pm start. 180mins Duration. Recorded event.

10:00	01	Company Introduction
10:15	02	Introduction to Cloud Native series
10:30	03	Commence Workshop THREE
12:45	04	Conclusions and Wrap-up
1:00	05	Close

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Who Is Crossvale?

WHAT, WHERE, HOW AND WHEN

- Offices in UK, Spain and US

How we Engage

- Discovery calls
- Assessments
- PoC
- SoW

Contact:
Mike Kohorst
mkohorst@Crossvale.com

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Crossvale is your fastest route to your business success

Who Is Crossvale?

Crossvale supports customers in rethinking **Digital Transformation**.

Our team provides expertise in every area to meet the needs of your **Modernization** initiative

We are **Hybrid** heavy

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DAY ZERO

DAY ONE

DAY TWO

Engage More – Instruct Less

Learn	What's your big vision
Understand	Where are you today
Assess	What are you capability gaps
Design	Modernization Reference Architecture
Implement	Pick your implementation path
Maintain	We support what you build
Grow	Partner for success

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Automation

Hybrid Cloud

SDLC Modernization

Rethink Repetitive Tasks

Automation Enables Strategic Thinking at the Speed of Business

Low-Level repetitive Business and IT tasks are cost organizations large amounts of shareholder value!

Rethink Where IT is Running

Hybrid Cloud Enables IT to Run at the Speed of Business

A lack of a modern hybrid cloud strategy limits organization's ability to think innovatively, which enables disruptors to take market share.

Rethink Development Processes

Modern SDLC Enables IT to Develop at the Speed of Business

Legacy SDLC processes cost organizations known and unknown revenue opportunities. When IT is not able to deliver at the speed of Business

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RED HAT PARTNER OF THE YEAR

- 2018 – Red Hat Application Platform Partner of the Year.
- 2019 – Red Hat Application Platform Partner of the Year.
- 2020 – Red Hat Leading Edge Partner of the Year.
- 2021 – Red Hat Customer solution Partner of the Year
- 2021 – Crossvale EMEA – Red Hat Container Platform Specialist

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Red Hat
Apex Partner

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Private & Confidential – not for distribution

EVENTS

3rd December — 01 — Quarkus: Introduction and Key Benefits

14th December — 02 — PART 4 - Scale to Zero: Event-driven Architecture with Serverless

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CONTAINER & CLOUD NATIVE ROADSHOW

DEBUGGING, MONITORING AND CONTINUOUS DELIVERY

2ND WORKSHOP
in this
OPENSHIFT SERIES
presented by
CROSSVALE

August 25, 2021 10:00 AM – 1:00 PM
(GMT-05:00) Central Time (US & Canada)

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Red Hat
Runtimes

Red Hat
OpenShift 4

WORKSHOP SERIES

- 10am start. 180mins Duration. Recorded event.

11th August	01	Migrating Workloads``
25th August	02	Automating Pipelines using CI-CD
10th November	03	Service Mesh
14th December	04	PART 4 - Scale to Zero: Event-driven Architecture with Serverless
Anytime/duration	05	Customized workshops

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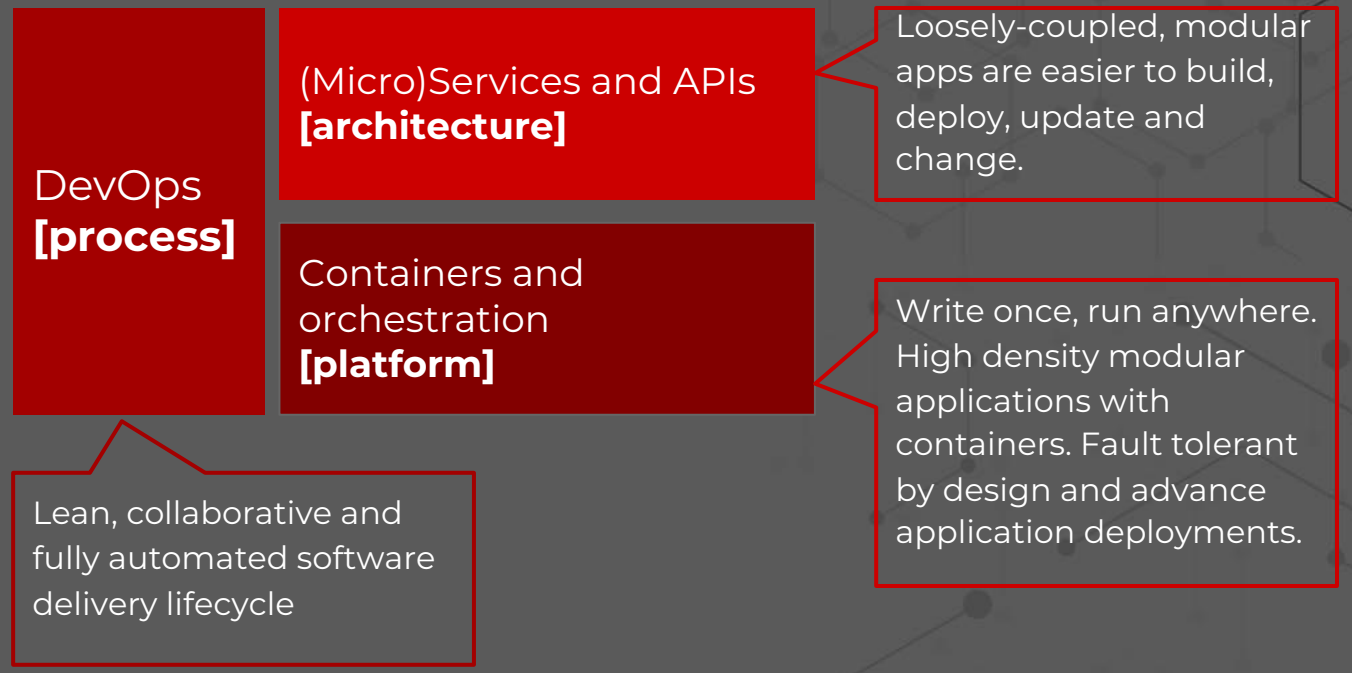
A NEW INNOVATION MODEL IS REQUIRED TO KEEP PACE WITH BUSINESS CHANGE

Cloud Native Development

Applications adopting the principles of **DevSecOps CICD** practices to create **(Micro)Services** packaged as **Containers** orchestrated by **Platforms** running on top of **Cloud** infrastructure



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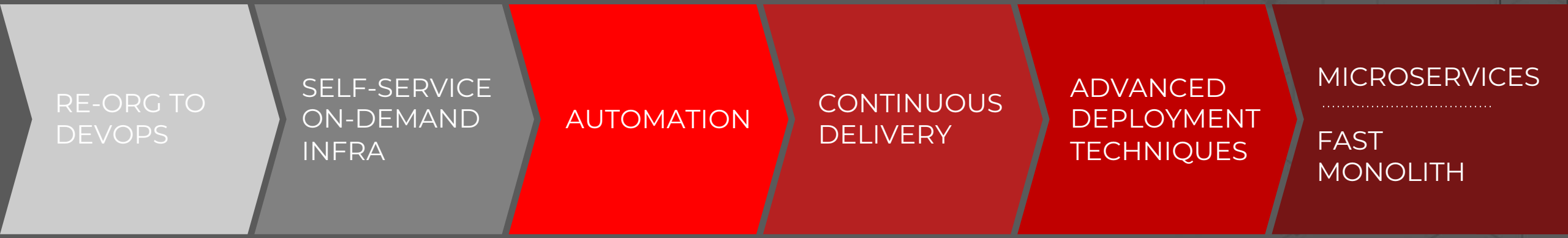
THE PATH TO CLOUD-NATIVE APPS

A DIGITAL DARWINISM



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RED HAT CLOUD-NATIVE DEV PLATFORM

Our vision is to simplify the creation of cloud-native services and serverless functions with a rich set of components and tools to match the **workloads** of modern cloud native apps.

Automate Kubernetes application operations with DevOps in mind

Red Hat OpenShift 4

Cloud-native middleware applications services and service mesh

RED HAT® MIDDLEWARE

Tools and standard processes to increase developer productivity on Kubernetes

RED HAT® CODEREADY

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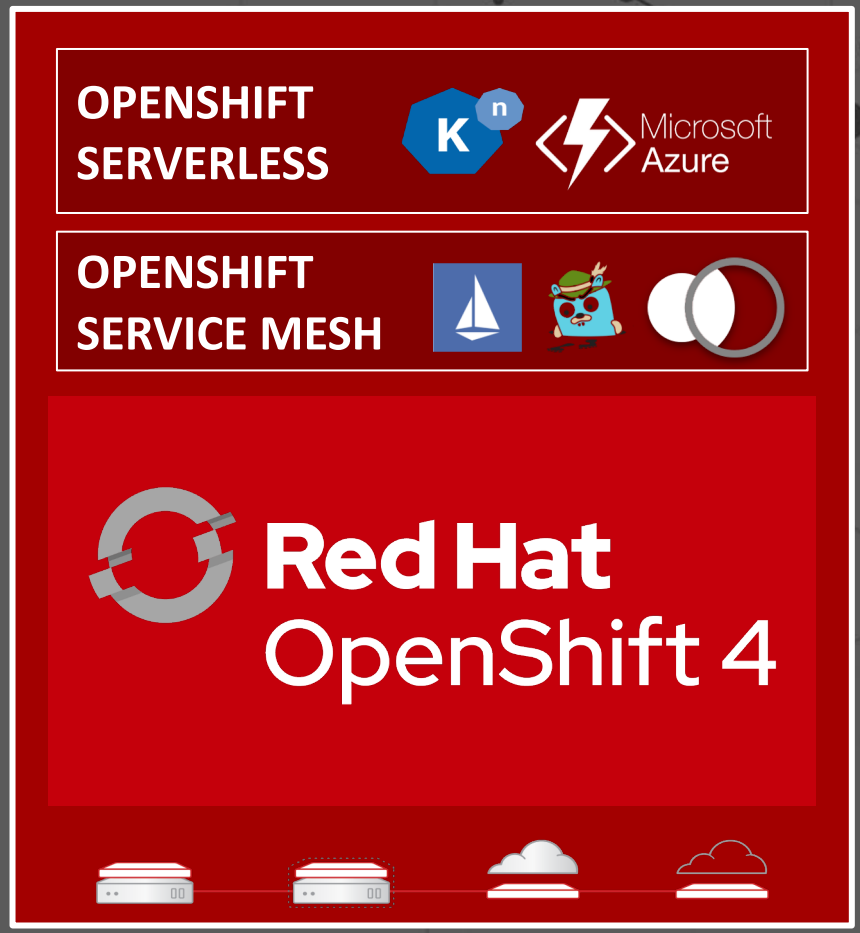
BUILDING NEXT-GEN APPLICATIONS

OpenShift Service Mesh

Integrated Service Mesh for enhanced security and network segmentation of microservices applications. Combines Istio, Kiali (UI), and Jaeger (Tracing) projects.

OpenShift Serverless

Integrated serverless, enabling scale-to-zero FaaS services and event sources - built on the Knative framework.
Support for Azure Functions
Integrated with Camel-k for rich set of initial event sources: HTTP, Kafka, AMQP



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AGILE,
INCREMENTAL,
ITERATIVE

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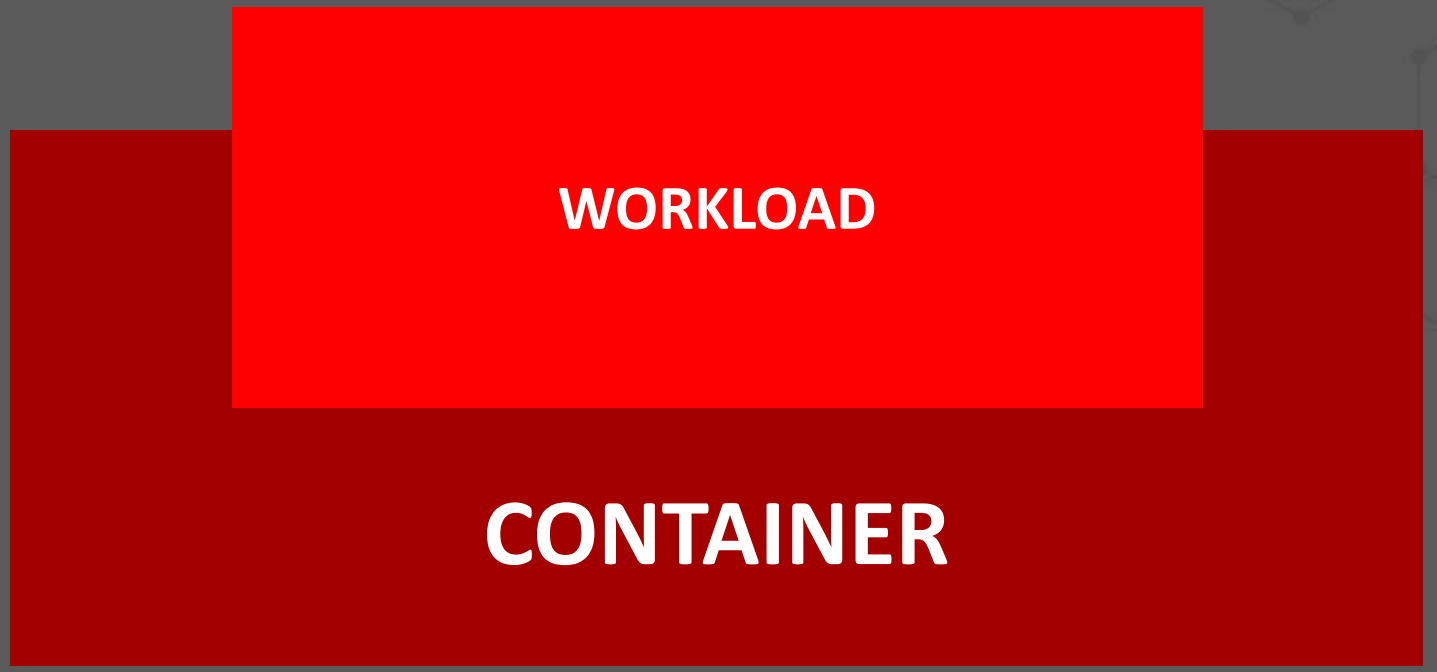
KEY TO INCREMENTAL: THE CONTAINER



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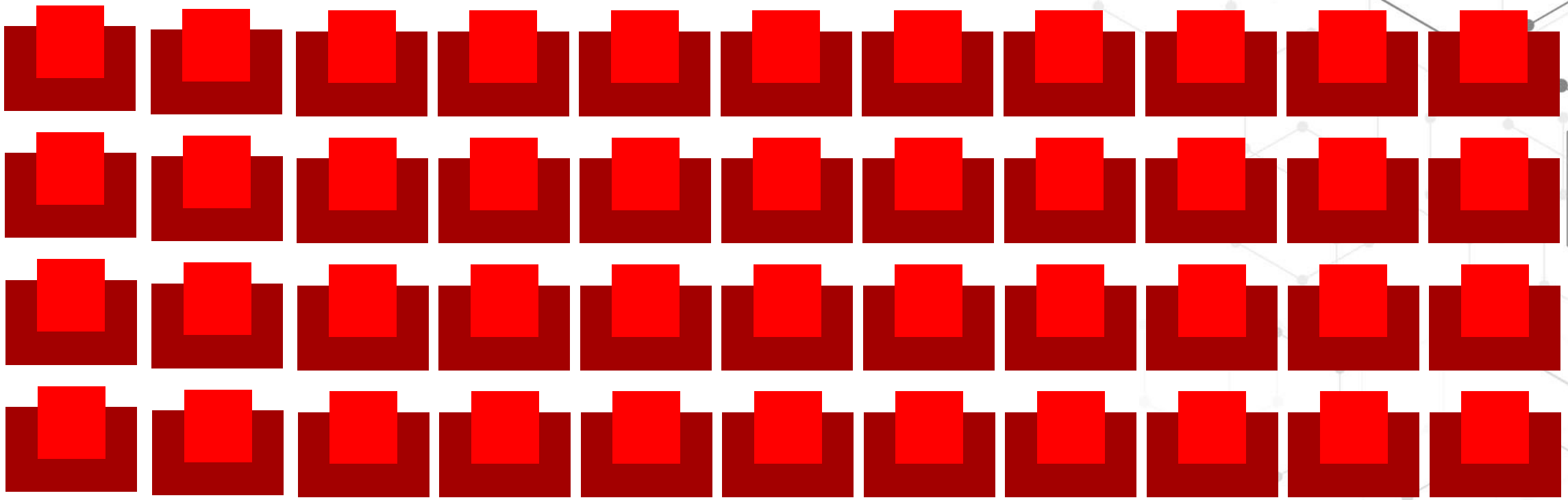
DOING CONTAINERS AT SCALE IS HARD



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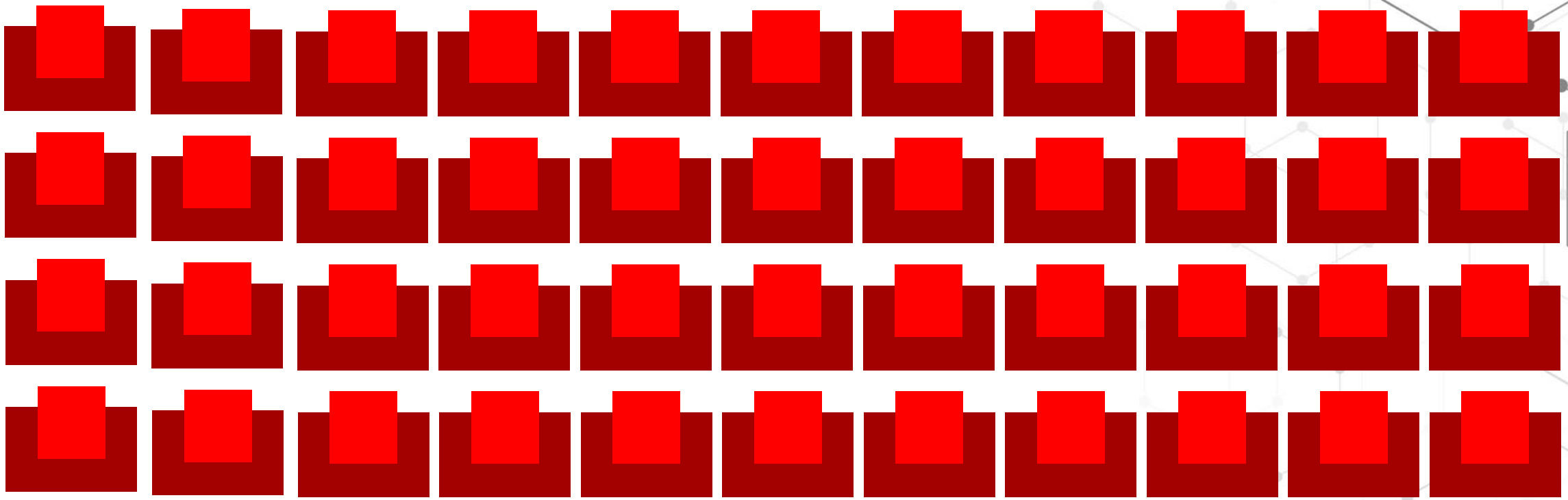

PLATFORM

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OPENSHIFT TOOLS

- Openshfit provides tools to overcome the Microservice Architecture challenges
  - Deployment (Jenkins and Tekton Pipelines)
  - Monitoring (Prometheus and Grafana)
  - Tracing (Jaeger)
  - Service Mesh (Istio)

Grafana

Jenkins

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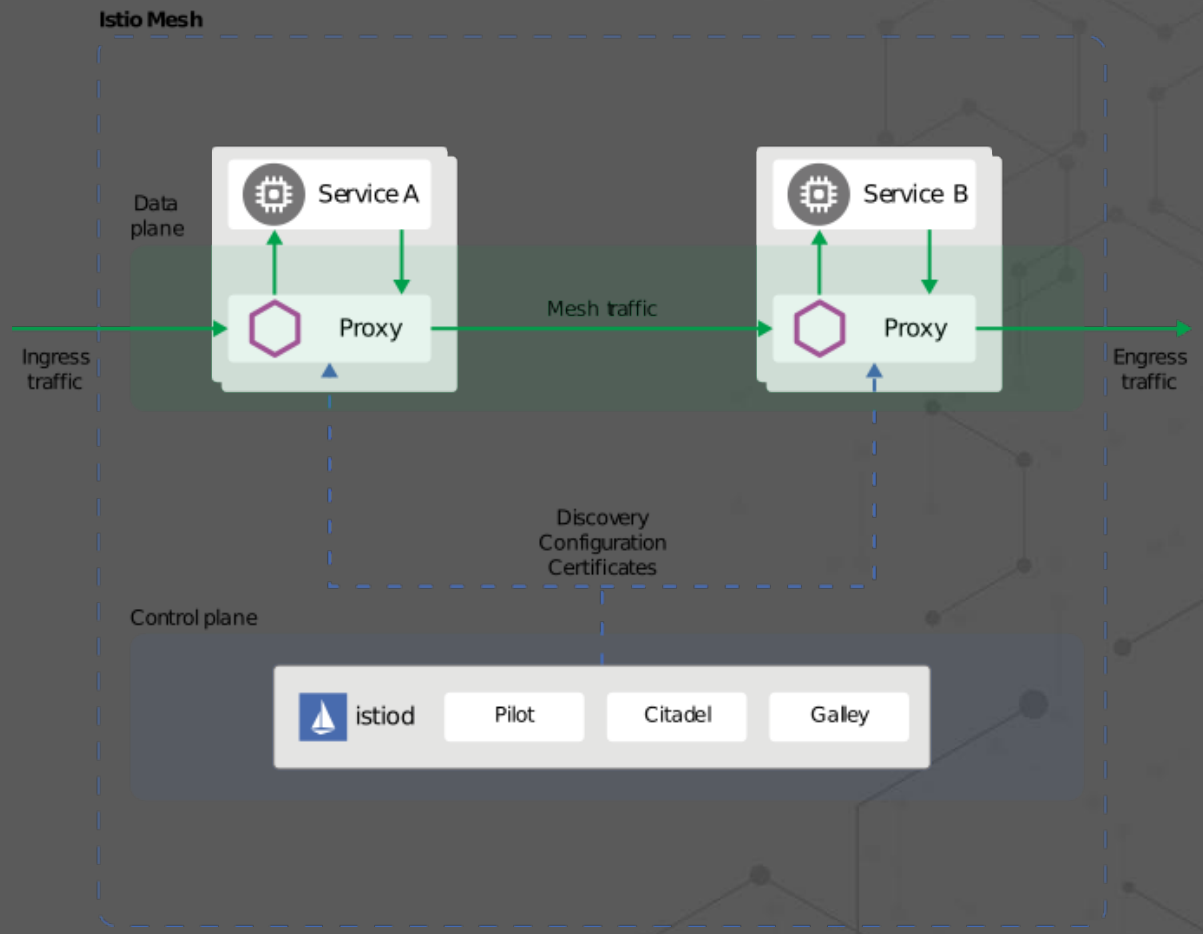
WORKSHOP LAB-ISTIO

- Traffic Management
- Observability
- Policy Enforcement
- Service Identity and Security



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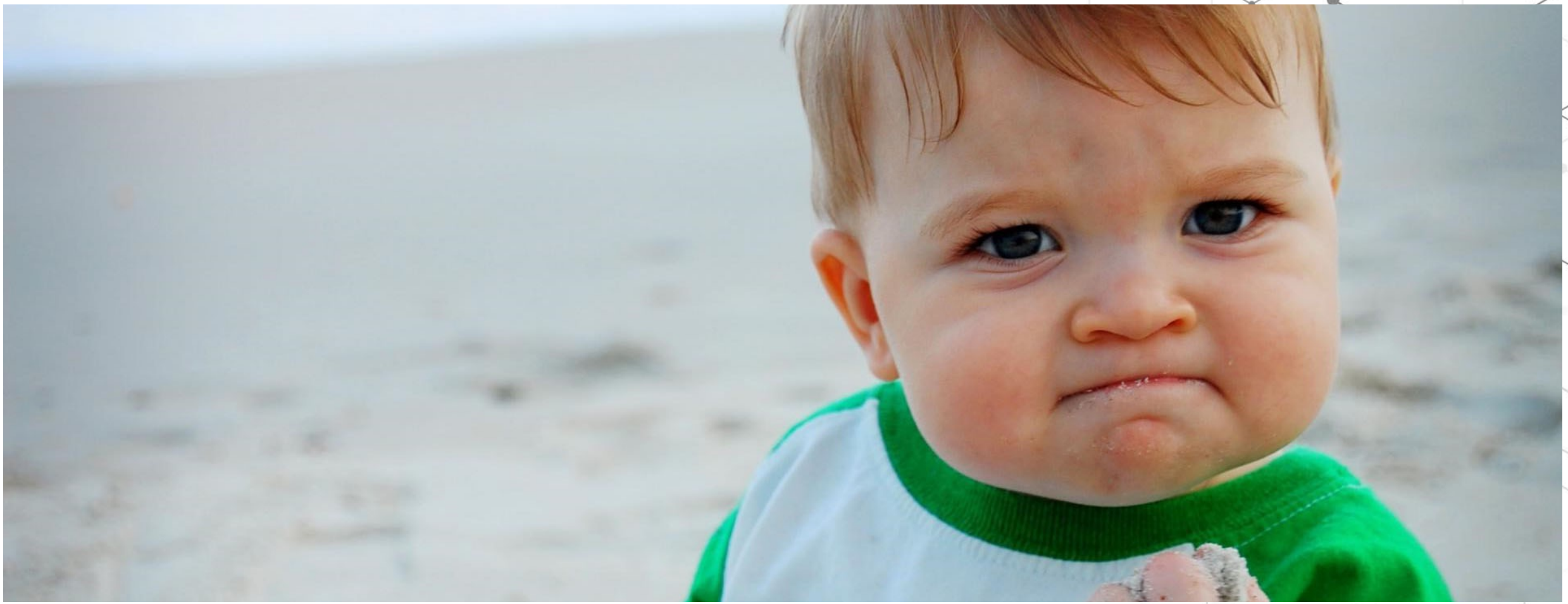
LET'S DO THIS!



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