



Traversing the performance divide

About Me:



The Agenda

- Context
- The Challenge
 - Defining our 'Why'
- The Change
 - Defining out How and What
- Tool and Process evolution
 - The different Phases
- Summary
 - Actions/Ideas
- Food for thought

'The situation'

- Dedicated E2E performance team
 - Using HP loadrunner
 - Own the PT environment
 - Focus on the online website, including ordering and fulfilment
-

The Challenge

“The challenge of the unknown future is so much more exciting than the stories of the accomplished past.”

- Simon Sinek

Defining our 'Why'

- Faster feedback
- Accountability
- Accessibility
- Ownership
- Confidence
- Manageable + scalable



The Change

**START WHERE
YOU ARE.**

**USE WHAT
YOU HAVE.**

DO WHAT YOU CAN.

ARTHUR ASHE

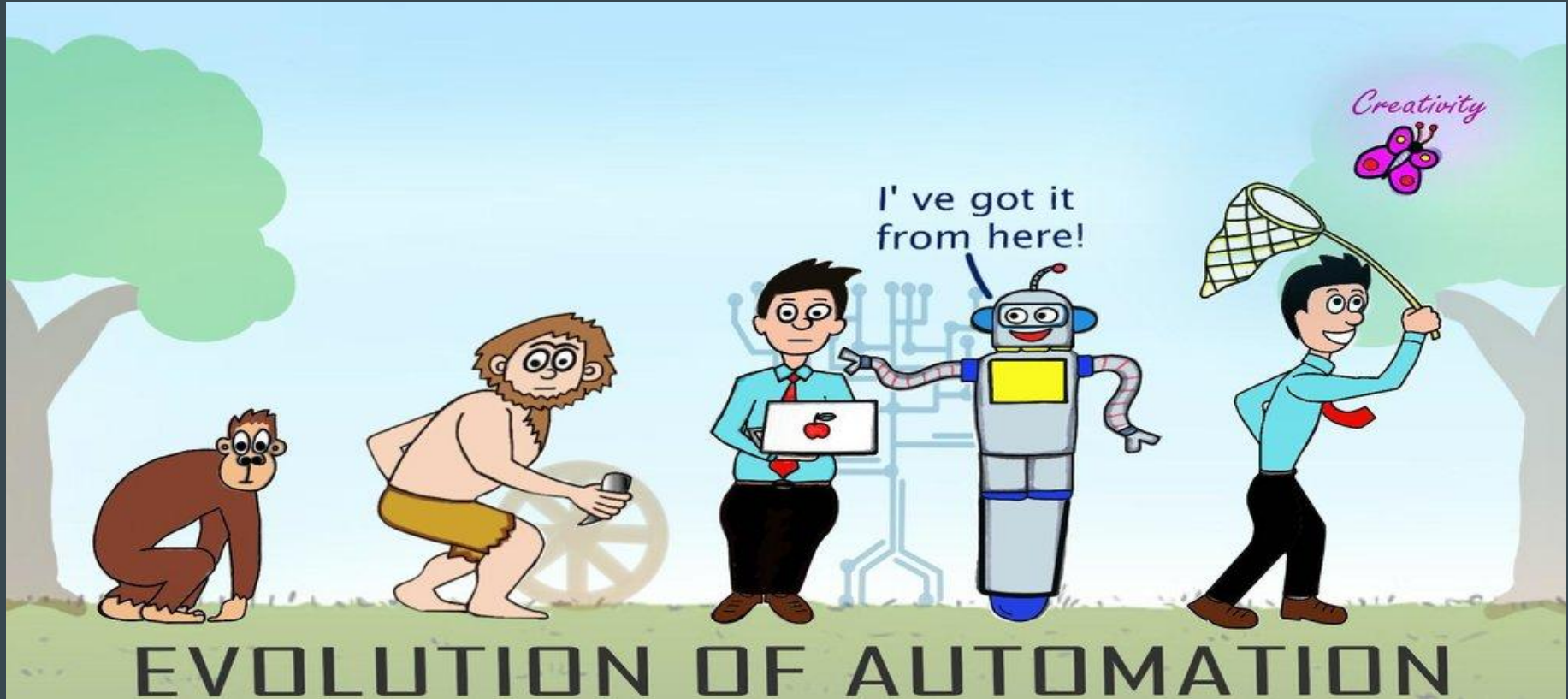
SCRATCH PAPER STUDIO

What

How

- **Defining the framework:** —————> Would need to be lightweight, scalable, extendible have a low barrier to entry and work with our existing CI/CD
- **Choice of tool :** —————> It could be used straight away but had the ability to be extensible for future expansion and be low maintenance
- **Selling the idea:** —————> Getting (and keeping) the other teams engaged, motivated and contributing to the frameworks ongoing development and maintenance
- **Implementation and support:** —————> Starting with the 'right' projects, Working out the handover and onboarding support and well as additional tooling development
- **New Process** —————> By inclusion of the requirement to have performance feedback early in the process

Tooling and process evolution



Phase evolution:

Phase 1

- Use Jmeter and BZT to run some load tests against common endpoints
- Dockerise and be able to run these tests from a docker image

Phase 2

- Add the load tests/ Image to the CI/CD pipeline and to some dotnet projects
- Have these load tests results published to Elasticsearch and viewable in Kibana for different teams

Phase 3

- Ability to run the load tests in a container in our AKS cluster
- Add the configuration files Azure.pipelines for automated builds

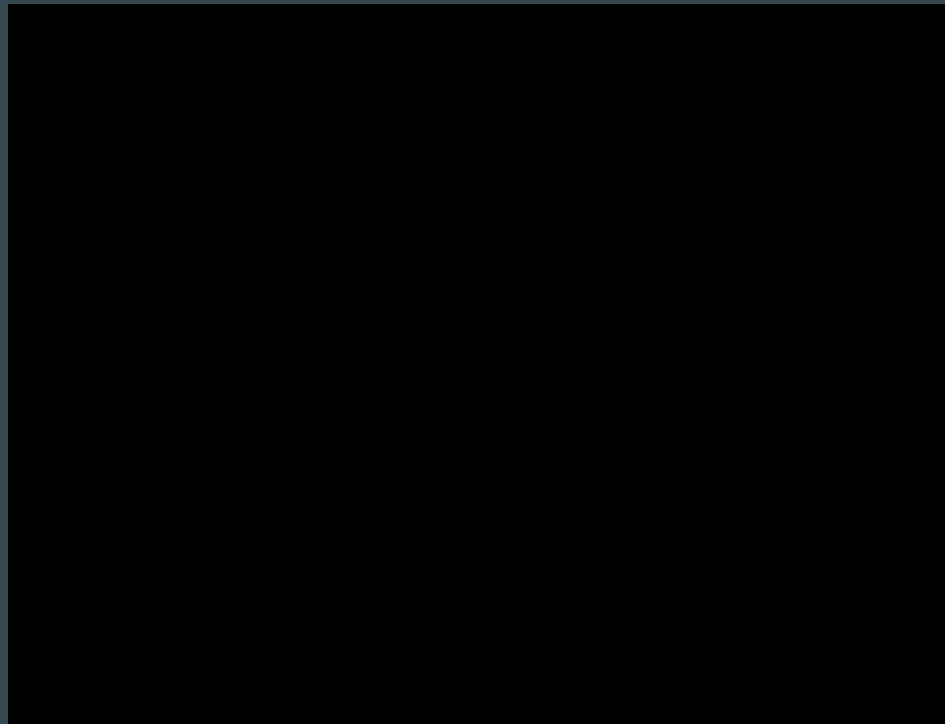
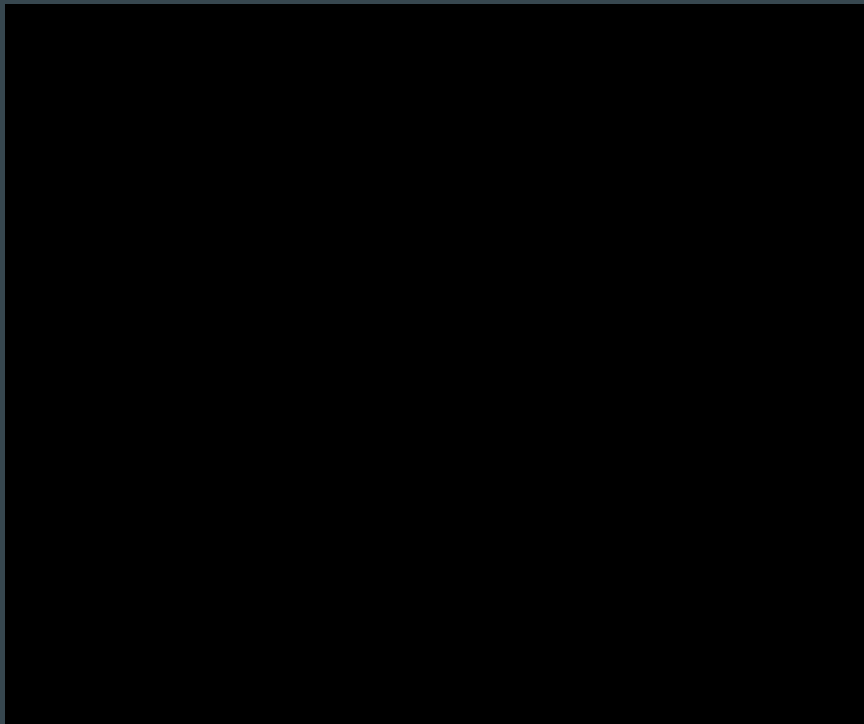
Phase 4

- Decouple the image from the test files into separate pipelines
- Publish the tests as a universal package and get this running locally and in the CD

Phase 5

- Get running with InfluxDb and Grafana (for Rancher reporting consistency)
- Implement in each of the AKS clusters (Dev, UAT, Prod)

Demo:



To Summarise

“You don't have to be great
to start, but you have to
start to be great.”

~ Zig Ziglar

Action

- Attempt to have a common consensus to solidify your idea
- Start small, learn and adapt along the way
- Regularly align your current state with your goal otherwise you run the risk of losing your purpose
- Don't be afraid to make mistakes and challenge the status quo
- Sometimes it's just easier to make and start and show others that there is an alternative

Food for thought

New Horizons



**No matter how much perf testing you do,
there's always a chance there will be a
performance issue.**

Always have a solid failure plan