Using Vert.x to build a consistent, bank-wide, toolchain for modern application development at the Royal Bank of Scotland

Rajesh Dasoar - Royal Bank of Scotland
Sam Marland - Red Hat
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Speakers

Raj Dasoar

- RBS Principal Engineer
- Leads the teams building the RBS' Route To Live
- Revolutionising the Engineering Experience
- Open Source Advocate

Sam Marland

- Solution Architect supporting the Royal Bank of Scotland
- Former developer

INTRODUCTION TO RBS

Royal Bank of Scotland

- UK Centric Bank with many different brands.
  - Natwest (Retail)
  - Coutts (Private Banking)
  - Natwest Markets (Investment)
- ~ 70,000 Employees
- Partially government owned due to bailout.
- Digital Engineering Services provide digital services to other parts of the bank.

- Red Hat customer for over 10 years.
- Consuming a wide range of technology from Red Hat.

- Working in an ever changing market, where digital innovation is critical.
- Moving to challenge new, emerging banks disrupting the space.
- Embracing the public cloud with a hybrid strategy.

BUILDING A MODERN & DYNAMIC SDLC

Asynchronous Development: Vert.x

‘We want to build simplified, standardised micro services with scalability in the cloud’

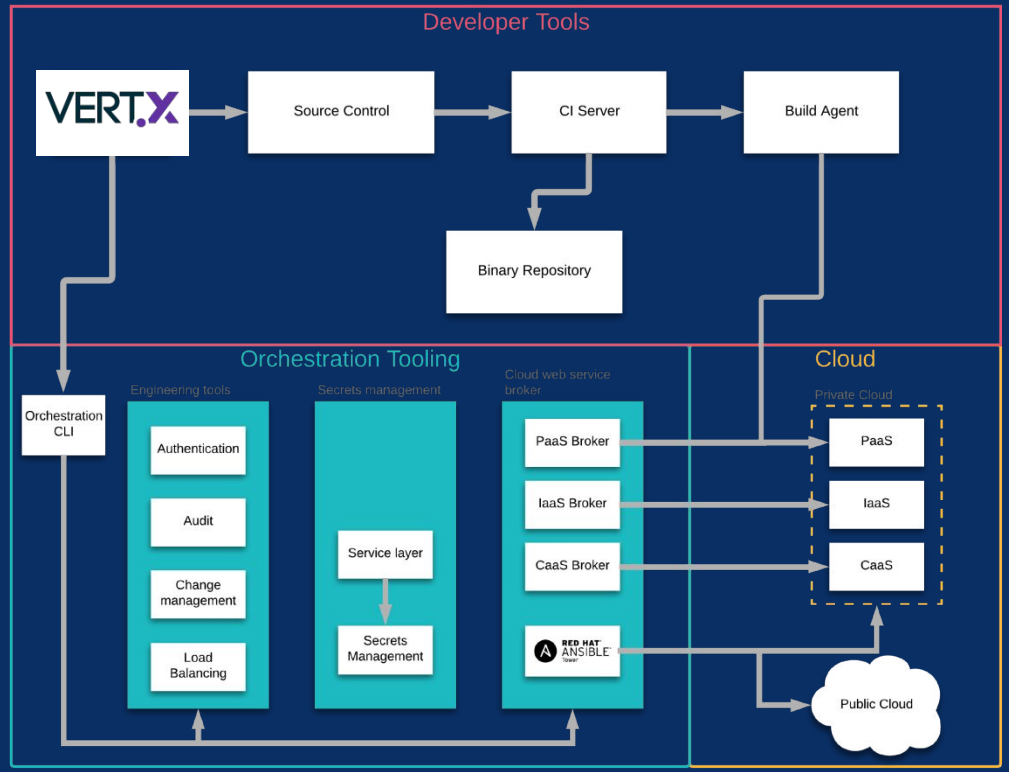
Current state

Enabling our Engineers to build at pace

Create a standard how we do development in the bank.

Integrated Framework into our tooling capabilities.

A mechanism to development with a route to live concept – Value.



Future state

Wide Scale Adoption for performant applications

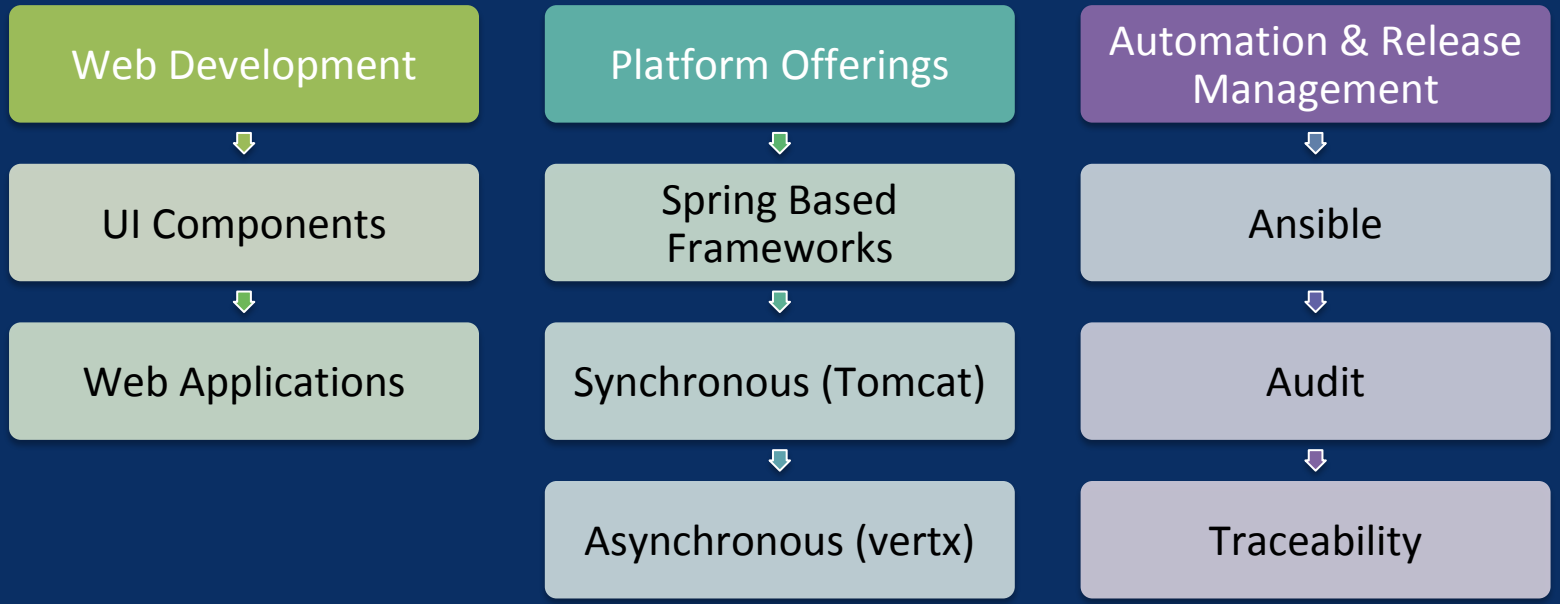
An Open Source community able to contribute to our micro service offerings

A mature ‘DevOps’ culture through the use of automated processes.

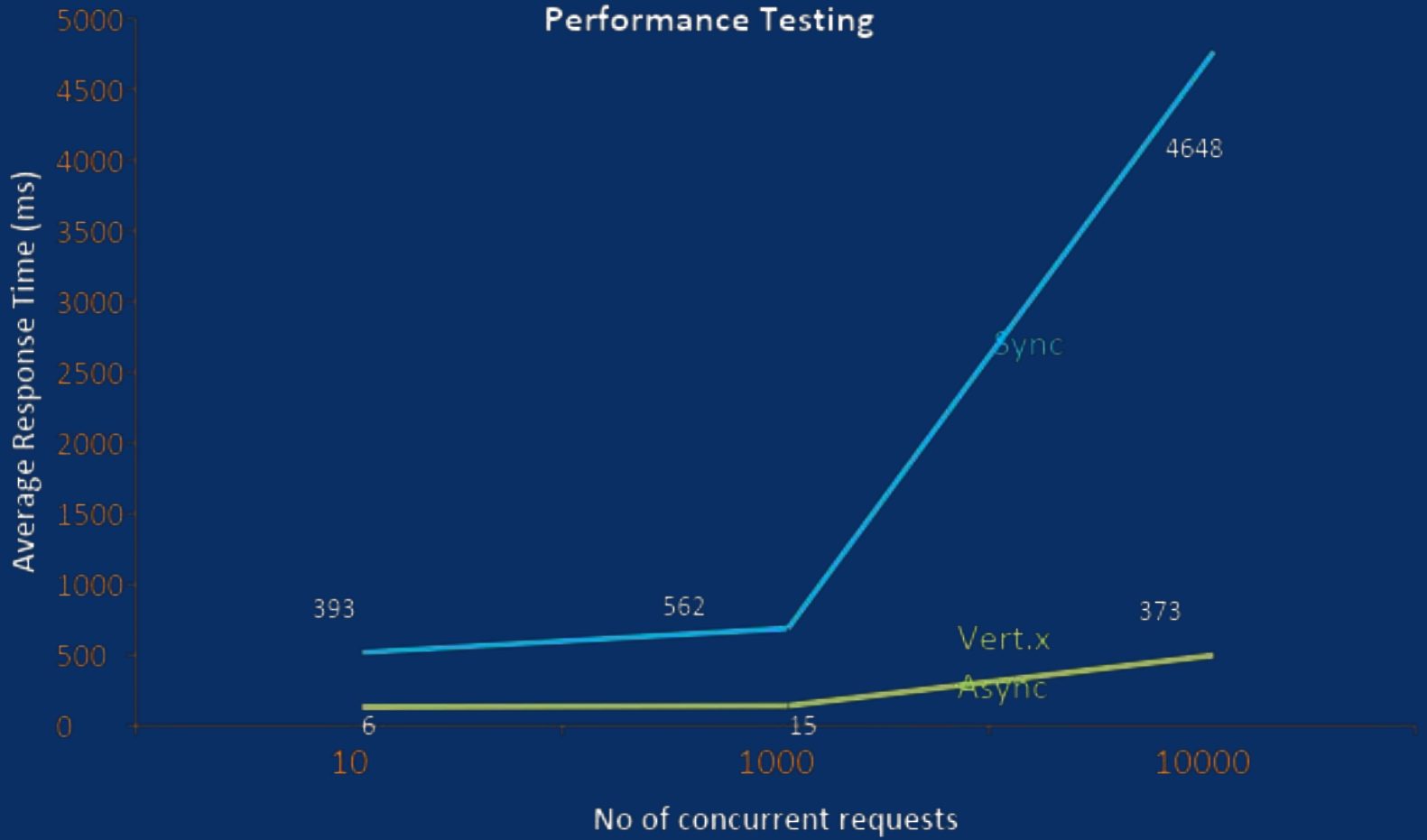
Reduction of our cost foot print in the cloud to scale only when absolutely necessary

Framework …

Standards …


Web Development
UI Components
Web Applications
Platform Offerings
Spring Based Frameworks
Synchronous (Tomcat)
Asynchronous (vertx)
Automation & Release Management
Ansible
Audit
Traceability

Performance vs Synchronous …



Demo

Need to embed the video

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