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SIG Talk: Quality & Testing - Automation with Jenkins and Continuous Integration

July 24, 2018



Hosted By



Richard Bishop
Test Specialist
Lloyds Banking Group

- Performance testing since 2000
- Worked in finance industry as well as for health, retail and entertainment industries
- President of Vivit
- Role at Lloyds Banking Group
- Central QA Tools team
- LoadRunner & Perf Center
- UFT & ALM
- DevOps integrations
- Test tools strategy

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Today's Presenters



Richard Bishop
Test Specialist
Lloyds Banking Group



Chris Trimper
Enterprise QA Senior Automation Analyst
Independent Health

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Tweet Your Questions



#vivitsigtalk

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House Keeping

- This “LIVE” session is being recorded
Recordings are available to all Vivit members
- Session Q&A:
Please type questions in the Questions Pane

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Webinar Control Panel

Toggle View Window
between Full
screen/window mode.

Questions



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TRANSFORMING TESTING FOR DEVOPS

Richard Bishop

July 2018

LLOYDS BANKING GROUP



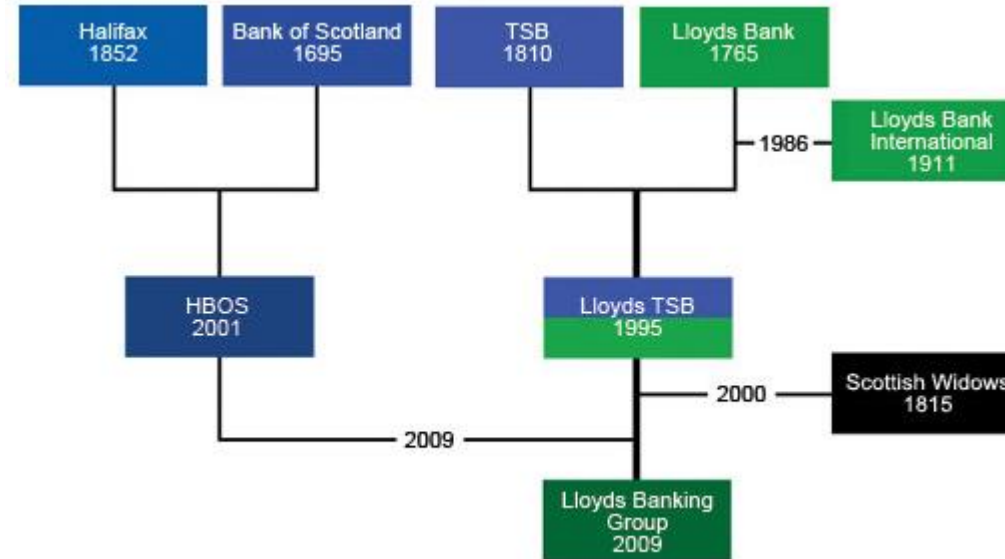
LLOYDS
BANKING
GROUP



Key Facts

UK's largest financial services group.

- Formed in 2009 with over 300 years of heritage
- 25 million personal customers
- 5 million business customers
- 75,000 employees



LLOYDS
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GROUP



DEVOPS AT LLOYDS BANKING GROUP

DEVOPS AT LLOYDS BANKING GROUP



Introducing the concept to a traditional IT audience

- **What is DevOps?**
 - Overcoming objections
 - Pilot projects
 - Knowledge transfer and sharing
 - Demonstrating ROI and promoting success
- Introducing the concept to sceptical audience
- Why DevOps is hard in large organisations
- Cultural change more important than tool change
- Introducing the benefits
 - Improving collaboration between software development and operations (the business).
 - Delivering change faster and reducing “time to market”
 - Delivering software with fewer errors



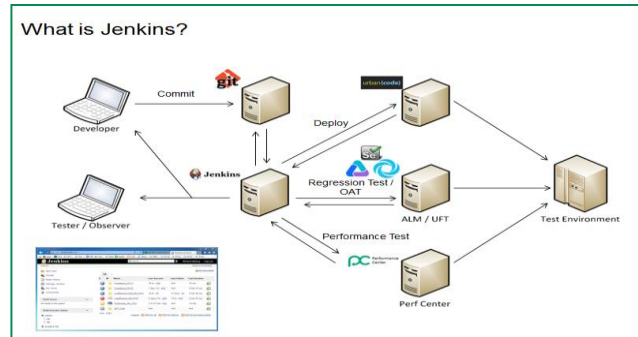
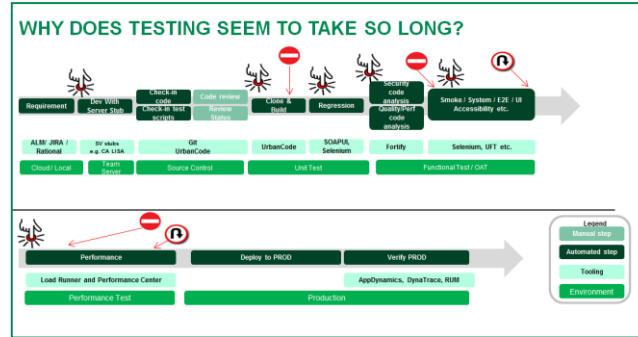
INTRODUCING DEVOPS



Introducing the concept to a traditional IT audience

- What Is DevOps?
- **Overcoming objections**
- Pilot projects
- Knowledge transfer and sharing
- Demonstrating ROI and promoting success

- Demonstrate what doesn't work (Most people know this already)
- Indicate potential areas for improvement
- Empower people to find new tools and develop processes to improve productivity, quality or speed up delivery.
 - Identify areas where delays occur
 - Strive to automate wherever possible
 - Improve quality of automation



ENABLING DEVOPS



Sharing knowledge, empowering teams

- What Is DevOps?
 - Overcoming objections
 - **Pilot projects**
 - Knowledge transfer and sharing
 - Demonstrating ROI and promoting success
-
- Remove barriers to productivity and unnecessary controls
 - Create a “just do it” culture in safe environments
 - Give testers and developers what they want
 - Trust people to do the right thing
 - Create knowledge sharing opportunities (Blogs, videos, knowledge bases, group chat, meetings etc.)



DEVOPS KNOWLEDGE SHARING



No team left behind

- What Is DevOps?
- Overcoming objections
- Pilot projects
- **Knowledge transfer and sharing**
- Demonstrating ROI and promoting success

- “Hive” (Jive) articles
- Confluence, JIRA, HipChat
- Internal webinars
- Access to shared demo / test platforms
- Community events at major sites around the UK
- Tool integration demos and education sessions

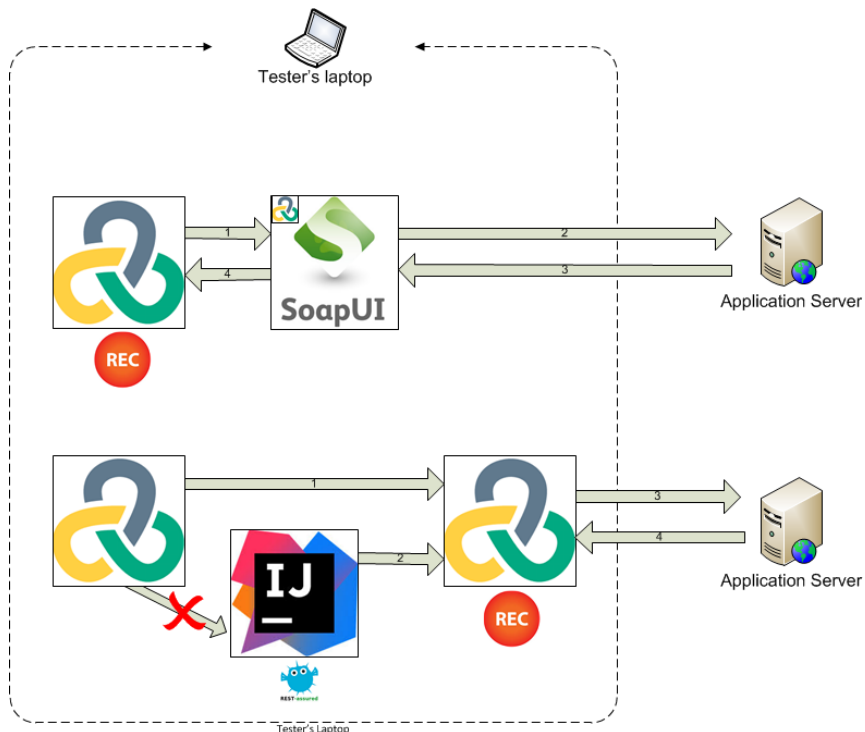


SHARING DEVOPS BEST PRACTICE



Using Enterprise Tools earlier in the lifecycle

- What Is DevOps?
- Overcoming objections
- Pilot projects
- Knowledge transfer and sharing
- **Demonstrating ROI and promoting success**
- Sharing best practice throughout Lloyds Banking Group
- Sharing externally
- Reinforcing positive messages
- Learning from mistakes, sharing mishaps



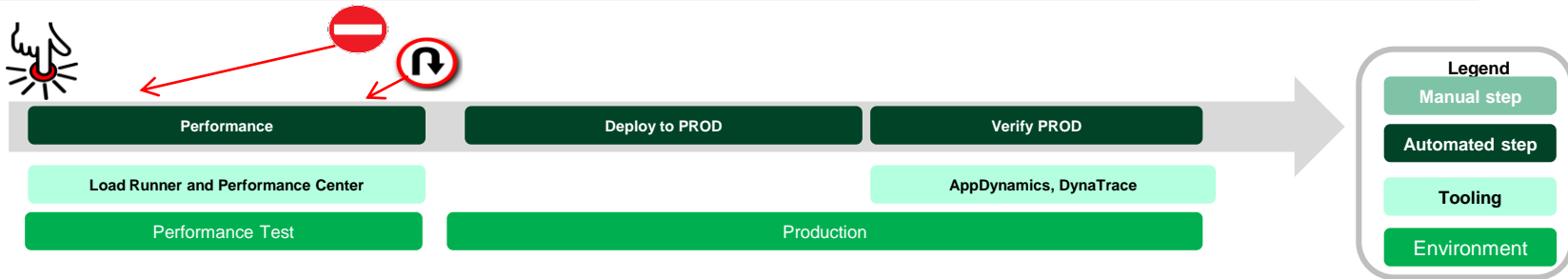
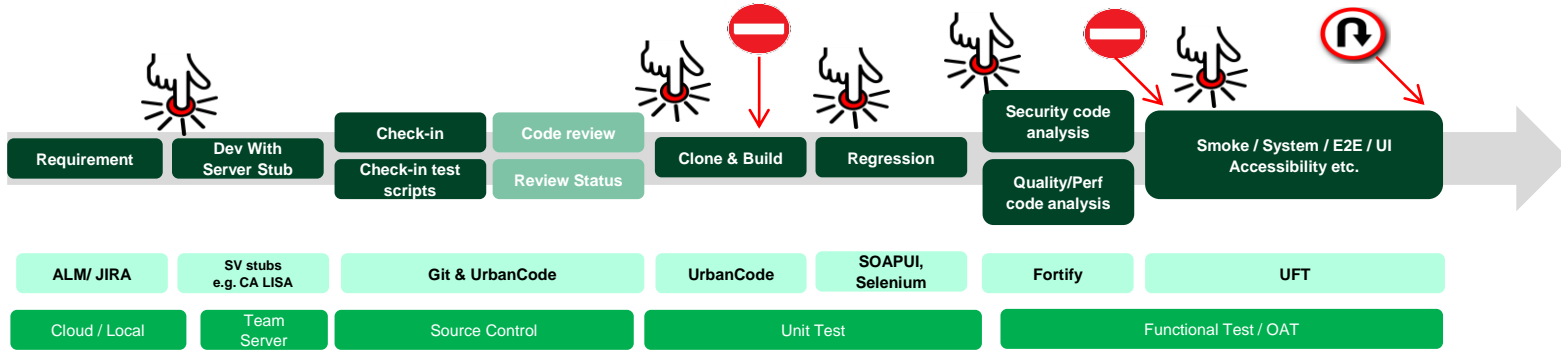


DEVOPS AND TESTING AT LLOYDS BANKING GROUP

EDUCATION

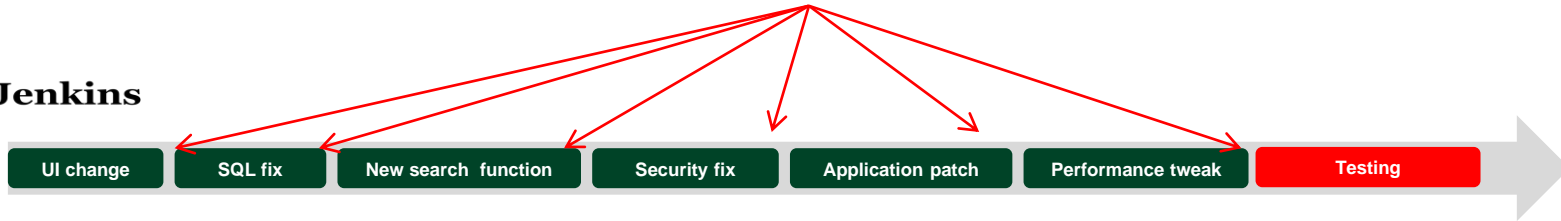


As well as educating testers about DevOps, the test tools team promote “automation everywhere”

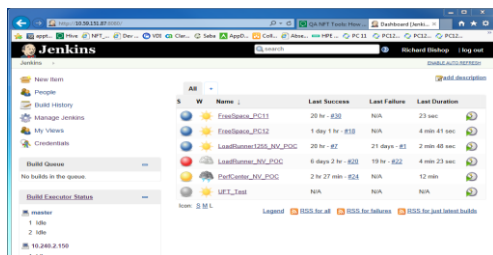
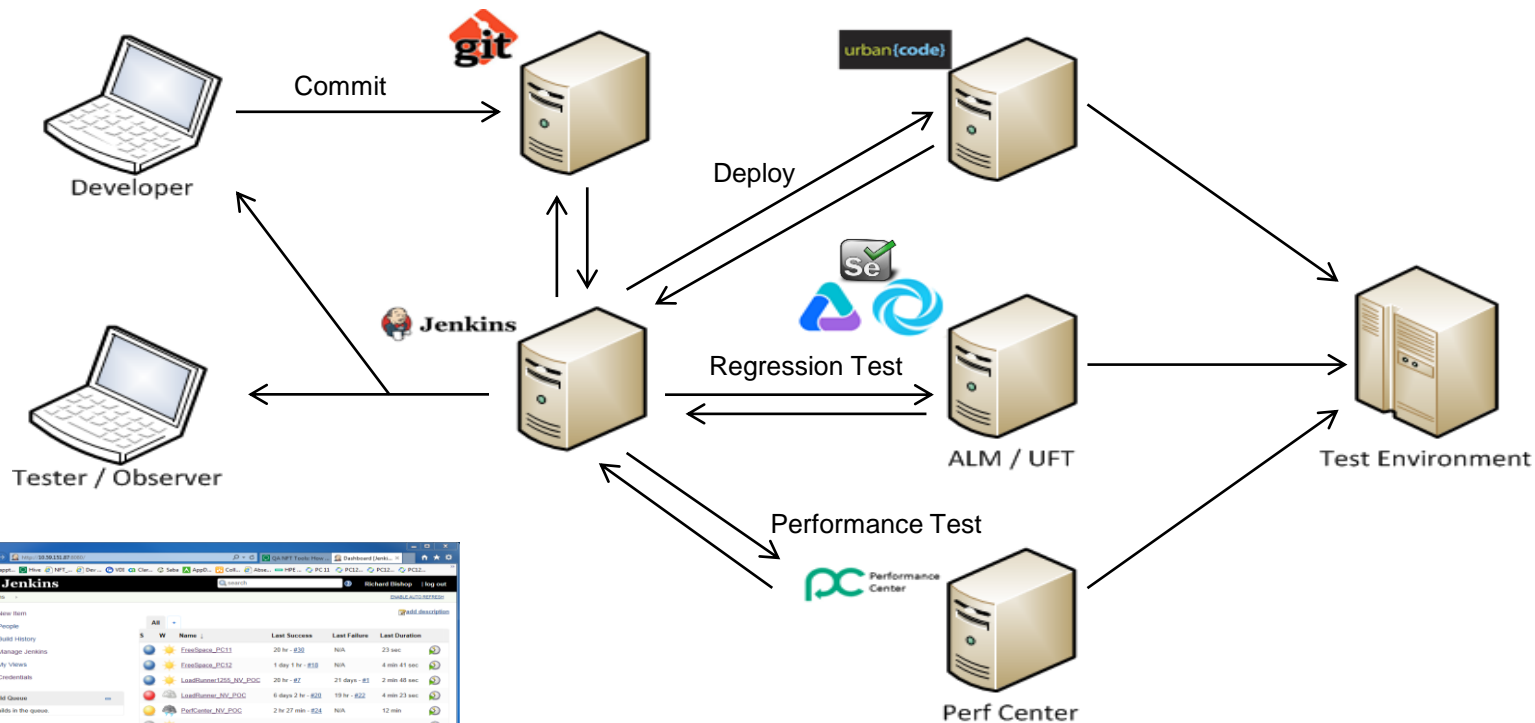


EDUCATION

Sometimes we over-simplify a concept to make a point



JENKINS IN THE TEST LIFECYCLE



JENKINS PIPELINE DEMO

Video showing Jenkins pipeline

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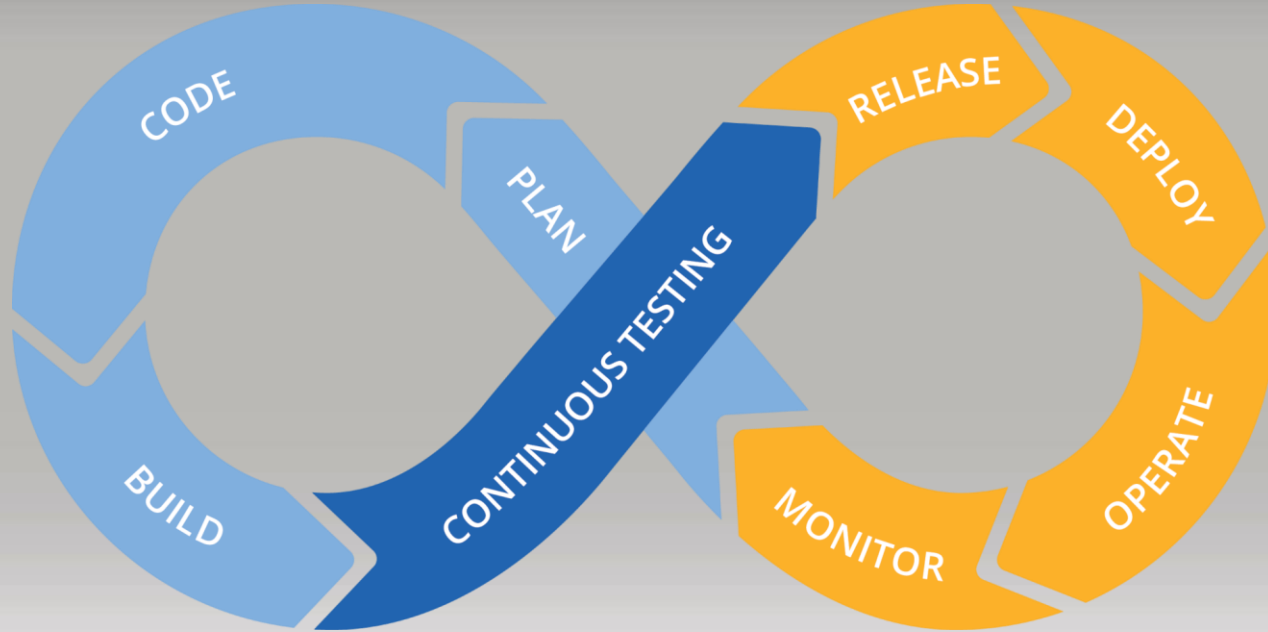
Placeholder

PREPARING FUNCTIONAL TEST AUTOMATION FOR CONTINUOUS INTEGRATION

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Is CI or DevOps in your control?



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Readiness

Script
Inventory

Script
Configuration

Execution
Capability

Reports &
Metrics

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Script Inventory

- Know and publish coverage
- Key regression features
- Smaller tests are friendly
- Be descriptive in errors

Scripts: Read only vs. record changing

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Configuration

General

- Environment Aware
- Environment Configuration
- Test data
 - Greedy or Leverage existing?

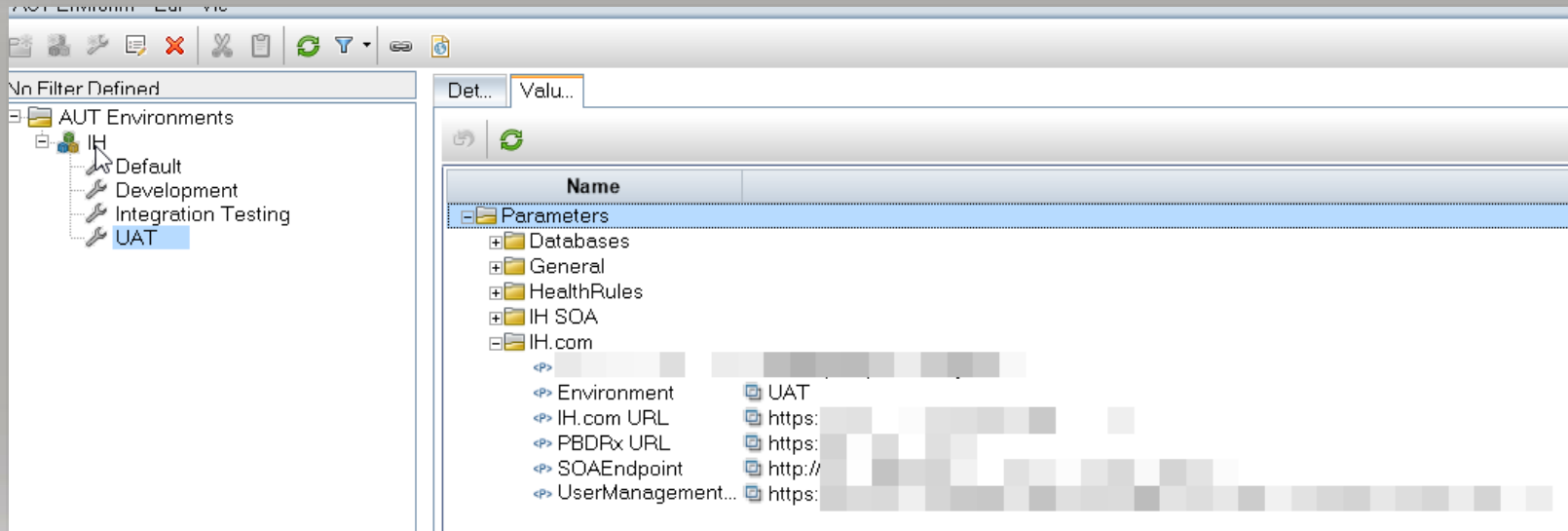
ALM Specific

- ALM Test Lab / Features and Capabilities
- AUT Variables
- Test Resources tied to Test Configurations

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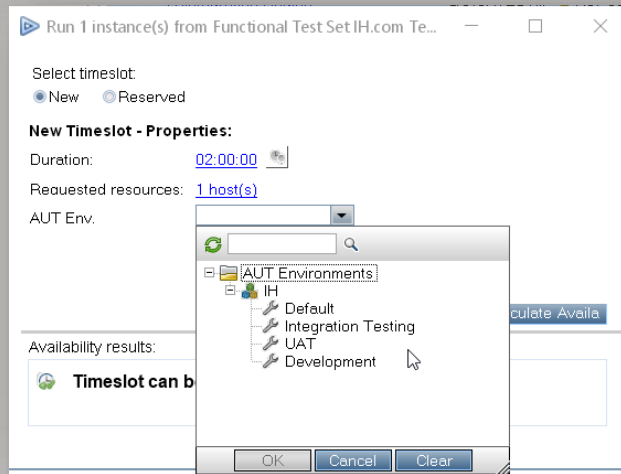
Configuration in ALM



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Configuration in ALM



Name	Status	Registratio...	Purpose	Location	Host Attributes
vmegax02	Operational	Registered	Quick Test Pr...	Virtual	Chrome;Firefox;Internet Explorer 11;
vmegax05	Operational	Registered	Quick Test Pr...	Virtual	Chrome;Firefox;Internet Explorer 11;
vmegax04	Operational	Registered	Quick Test Pr...	Virtual	Chrome;Firefox;Installed component
vmegax06	Operational	Registered	Quick Test Pr...	Virtual	Chrome;Firefox;Internet Explorer 11;

COMMUNITY



Execution Readiness

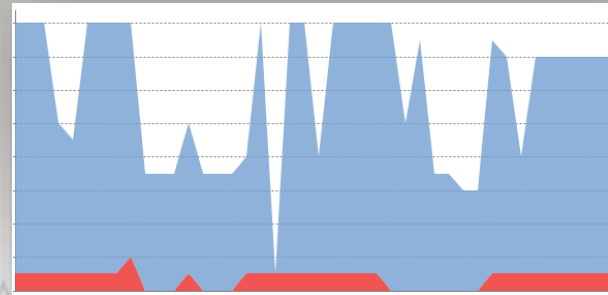
- Machine availability
- Test capabilities
- Instant Execution vs. Queuing
- Knowing your APIs



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Reports & Metrics

- Simple pass/fail vs. detailed results
- Integration with log analysis
- Charts, metrics & trending



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Cybersecurity Summit 2018 Registration



Experience security at the speed of innovation

Join us for education, skills-building and solutions-oriented discussion around the challenges you face protecting your users, apps and data.

[Register Now!](#) Be sure to use this Vivit Member Link!



Upcoming Vivit Webinars

July 25, 2018

7 Reasons Why Value Stream Integration Improves Software Quality Assurance

9:00 - 10:00 AM PDT (Los Angeles), 12:00 - 1:00 PM EDT (New York), 18:00 - 19:00 CET (Frankfurt)

<https://www.vivit-worldwide.org/events/EventDetails.aspx?id=1127077&group=>

August 6, 2018

SIG Talk: OpenStack Cloud and SUSE Integration

8:00 - 9:00 AM PDT (Los Angeles), 11:00 AM- 12:00 PM EDT (New York), 17:00 - 18:00 CET (Frankfurt)

<https://www.vivit-worldwide.org/events/EventDetails.aspx?id=1123094&group=>

September 13, 2018

4 Steps to Achieve a Data Driven Culture using TotalView Analytics for ALM

8:00 - 9:00 AM PDT (Los Angeles), 11:00 AM- 12:00 PM EDT (New York), 17:00 - 18:00 CET (Frankfurt)

<https://www.vivit-worldwide.org/events/EventDetails.aspx?id=1123536&group=>



Thank You

- Complete the short survey
- To speak on a future Vivit SIG Talk or to recommend a speaker, please complete the survey:
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Thank You
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