

A grayscale image of a hand holding a blue, translucent globe. The globe shows a map of the world with a grid of latitude and longitude lines. A curved arc of text in magenta and blue arches over the globe.

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# Agile Load Testing using StormRunner Load

## September 15, 2016

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Matt Angerer  
Sr. Solution Architect  
ResultsPositive  
Florida Chapter Leader



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# Today's Speakers



Kristina Avrionova  
Product Marketing- StormRunner  
Load/Network Virtualization  
Hewlett Packard Enterprise



Oded Keret  
Product Manager - StormRunner  
Load  
Hewlett Packard Enterprise



# Housekeeping

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





# Webinar Control Panel

Toggle View Window between  
Full screen/window mode.

Questions





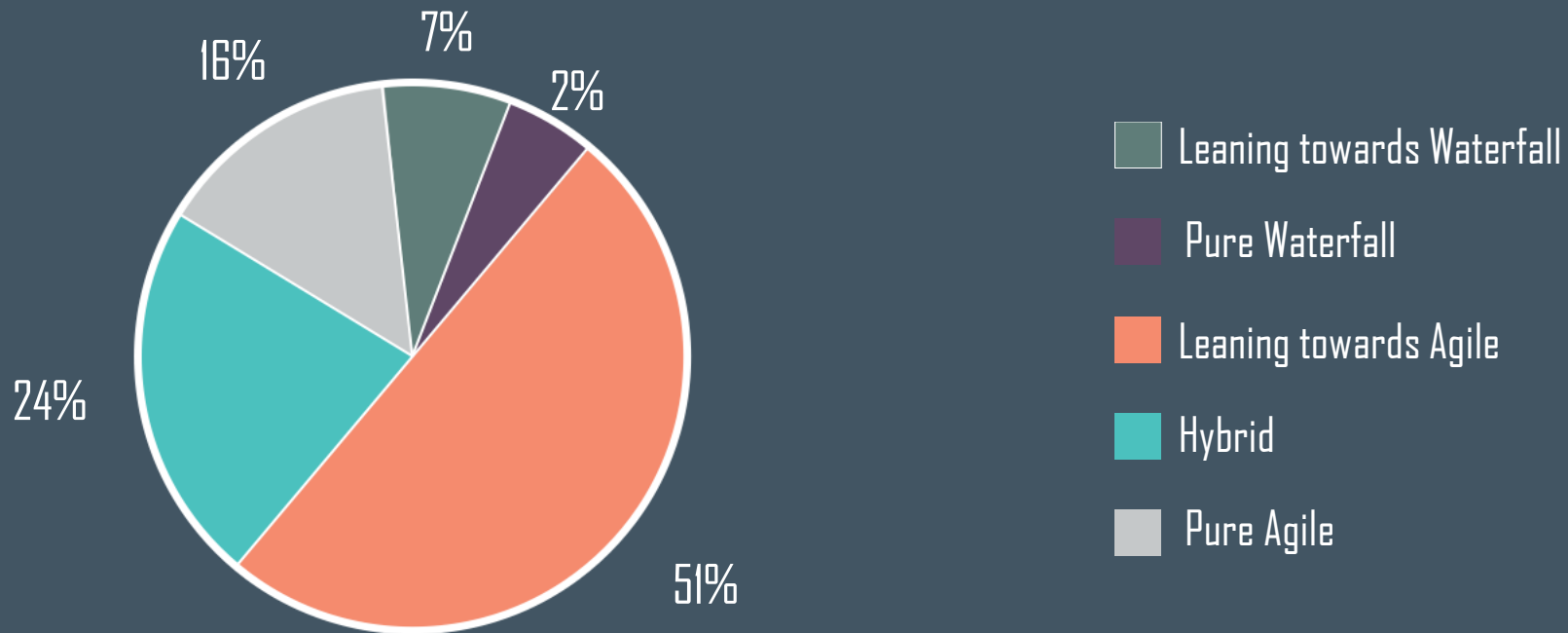
# Agile Cloud Testing

Kristina Avrionova- PMM for StormRunner Load at HPE  
Oded Keret- PM for StormRunner Load at HPE



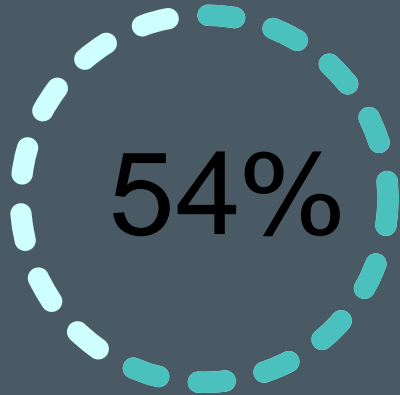
# Agile is the new norm

The vast majority of organizations described their companies as either “pure Agile” or “leaning toward Agile.”

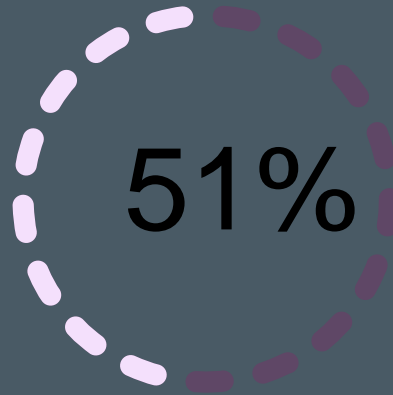


# Why?

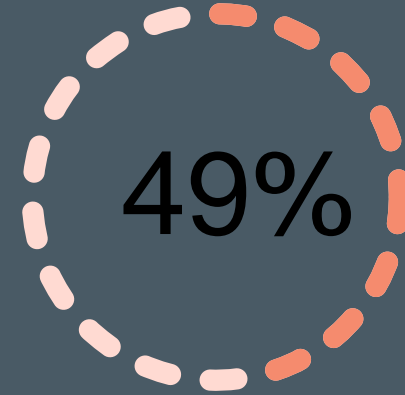
Companies have moved to Agile for two key reasons: improved **collaboration** and **quality**.



felt that Agile enhances **collaboration** between teams

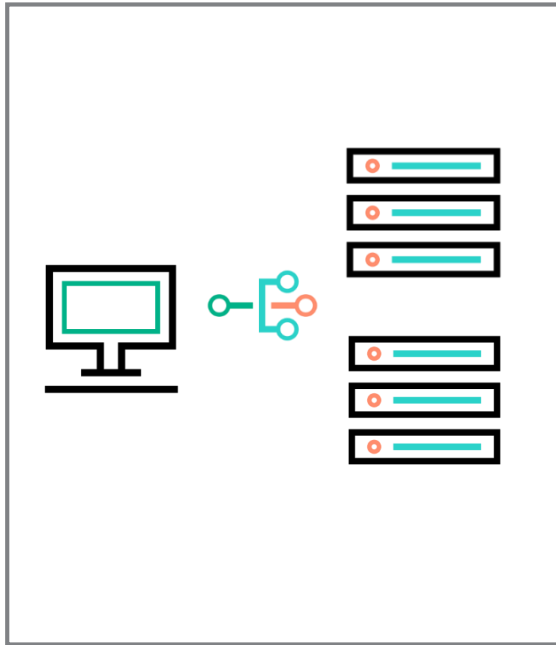


felt that Agile enhances the level of **software quality**

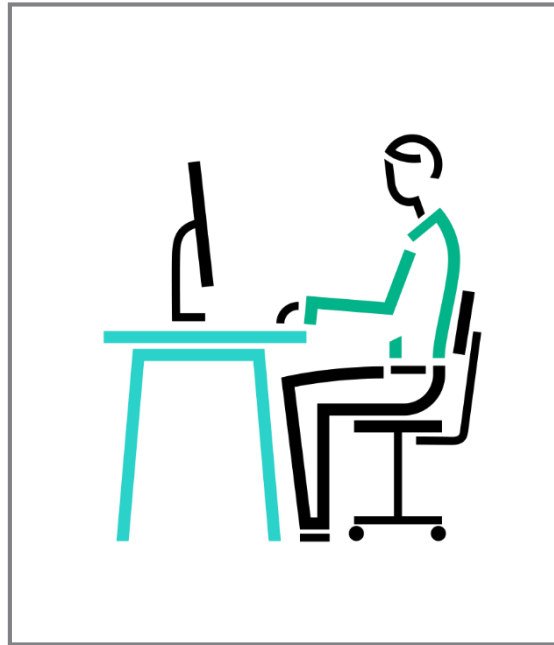


felt that Agile results in increased **customer satisfaction**

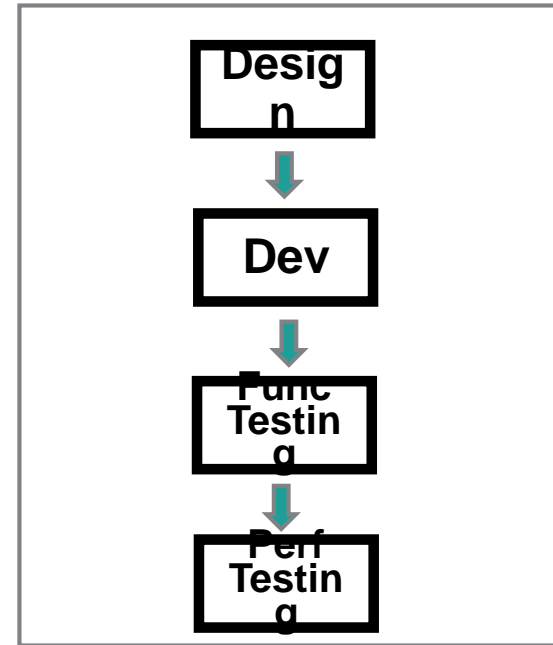
# Traditional performance testing and the Agile world



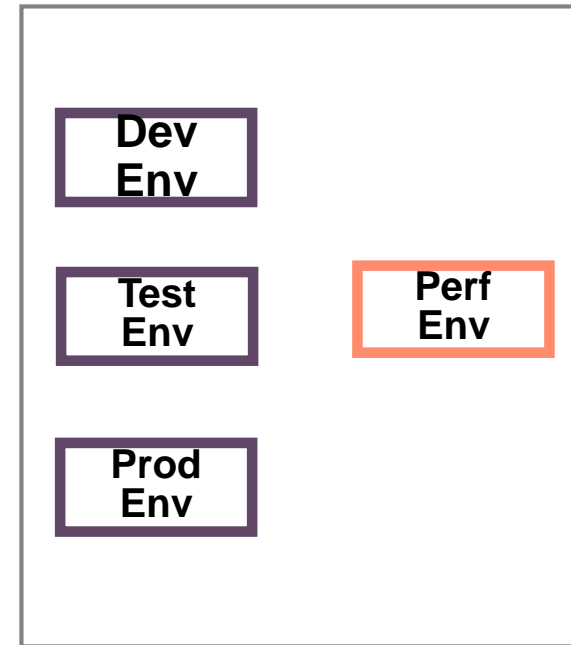
Operationally expensive



Need specialists



Delayed releases



Isolated environments

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## Q&As: How well do you know your Agile

**Q1:** Which of the following is most often omitted during an Agile release?

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# Q&As: How well do you know your Agile

Q1: Which of the following is most often omitted during an Agile release?

- Sprint planning
- Retrospective
- Performance testing
- Daily Stand-up



# Common testing challenges in Agile development

## The naked truth:

Not everyone tests for performance in the Agile sprint

- Small performance issues missed in the first sprint tend to become large performance bottlenecks just before release



## Considerations:

- The team is clear that performance testing needs to be part of the agile process
  - The acceptance criteria for every single sprint should include performance testing
  - If you can't create and run a performance test in sprint N, make sure to test sprint N during sprint N+1



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## Q&As: How well do you know your Agile

**Q2:** If performance issues are found during a sprint, what happens ideally?



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# Q&As: How well do you know your Agile

Q2: If performance issues are found during a sprint, what happens ideally?

- The release date is pushed back
- Items are dropped from the sprint
- Sprint is released with performance issues that will be fixed in the next sprint
- The boss gets mad, we all get fired



# Common testing challenges in Agile development

## The naked truth:

It's hard to test for performance in an Agile sprint

- You need time to create the test, prepare the environment, run the test, analyze the results

## You should know:

- Performance tests must be planned for
- Performance tests must be executed after every sprint
- Automation is a best option, especially for multiple browsers and devices testing
- You cannot guess where the next bottleneck is, so don't pre-optimize before testing
- Leveraging the cloud for scaling up load generation allows setting up the test environment quickly and automatically



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## Q&As: How well do you know your Agile

**Q3:** Which of the following is the average length of an Iterative development project?

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# Q&As: How well do you know your Agile

Q3: Which of the following is the average length of an Iterative development project?

– 5-6 months

– 1-4 days

– 1-4 weeks

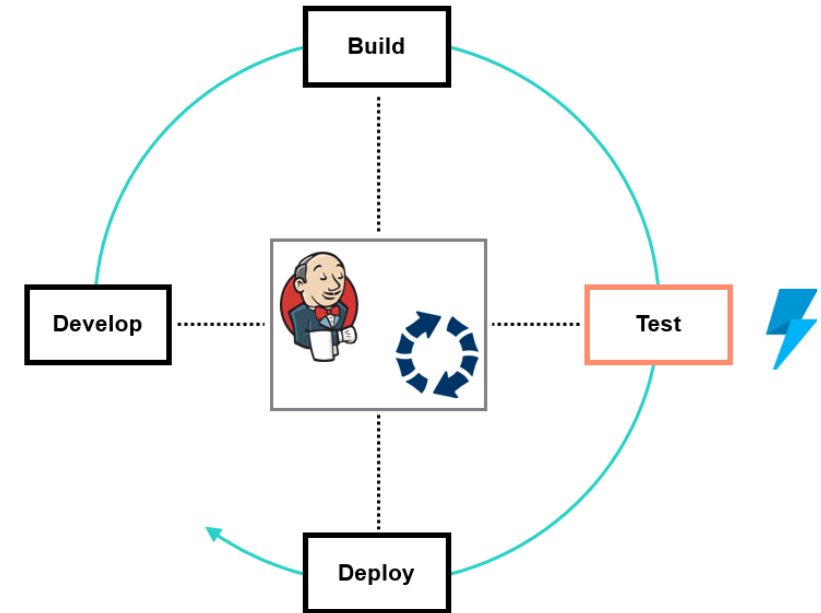
– 2-4 months



# Common testing challenges in Agile development

## The naked truth:

- Agile performance means your testing has to become quicker and easier
- You must test often
- Be a proactive performance engineering
  - Identify slow areas and track performance over time to more objectively document performance from release to release
- You must have the right automation tools
  - Continuous integration and deployment is given, but do you have the right test automation tools?



# HPE StormRunner Load

Agile performance testing in the cloud for web & mobile apps



## Simple

Design & create load test  
under 10 minutes

## Smart

Intelligent & predictive  
analytics for fast  
problem detection

## Scalable

1M+ users from geographically  
distributed locations

# Why is StormRunner Load perfect for Agile Testing

Easy test creation

### HAR file Test Configuration

\* Test name

\* Select your HAR file Carefully review your HAR file before you upload as it may contain private information such as usernames and passwords.

Browse...

[Help](#)

API Vusers 10 ▾ Duration 20 min ▾

### Create REST test

\* Test name

\* Request URL

URL Parameter Key

Header

[Help](#)

API Vusers 10 ▾ Duration 20 min ▾

### CSV file Test Configuration

\* Test name

\* Select your CSV file Carefully review your CSV file before you upload as it may contain private information such as usernames and passwords.

Browse...

[Help](#)

API Vusers 10 ▾ Duration 20 min ▾

10 API VU [Run Test](#)



# Why is StormRunner Load perfect for Agile Testing

Simple test definition

HPE StormRunner

HomeLoad TestsAssetsResults

Load Tests ▶ Firas Test

SCRIPTS2API VUSERS1800UI VUSERS0DEV VUSERS0DURATION01:52:30API VUH2622UI VUH0DEV VUH0Email reportRun Test

General

Scripts

Monitors

Distribution

SLA

Client side breakdown

Runs (10)

Edit locations

Location	Distribution	WAN-Good	WAN-Typical	WiFi	Mobile-Typical	Mobile-Busy	Emulated
California (AWS)	40 %	0 %	0 %	0 %	20 %	30 %	50%
Frankfurt (AWS)	30 %	0 %	10 %	15 %	25 %	35 %	85%
Ireland (AWS)	20 %	10 %	20 %	30 %	0 %	40 %	100%
Singapore (AWS)	10 %	100 %	0 %	0 %	0 %	0 %	100%

Distribution (4)100%

West US California AWS40.00%

Central Europe Frankfurt AWS30.00%

North Europe Ireland AWS20.00%

Southeast Asia Singapore AWS10.00%

Network emulation75.50%

No Emulation24.50%

WAN-Good12.00%

WAN-Typical7.00%

WiFi10.50%

Mobile-Typical15.50%

Mobile-Busy30.50%

# Why is StormRunner Load perfect for Agile Testing

With its open architecture, it easily integrates into Agile build for test automation

## Monitors

SiteScope – cloud and on premise

New Relic

Dynatrace

## Integrations

AWS, Azure, Rackspace

Network Virtualization

WebPageTest

## Dev-ops tools

Jenkins

AWS Code Pipeline

CLI Tool

REST API

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# Why is StormRunner Load perfect for Agile Testing

DEMO

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## Q&As: How well do you know your Agile

**Q4:** Scrum is an iterative and incremental agile software development framework.

It takes its name from which sport?

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# Q&As: How well do you know your Agile

**Q4:** Scrum is an iterative and incremental agile software development framework. It takes its name from which sport?

- Cricket
- Curling
- Rugby
- Badminton



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**Free 30-day trial**  
**HPE StormRunner Load**  
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# Thank you

- Complete the short survey and opt-in for more information from Hewlett Packard Enterprise.

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