



vivit

Discover the independent Micro Focus software user community where you can share, collaborate, exchange, and grow



COMMUNITY



**Quality & Testing SIG Talk #1**  
**Discover the New**  
**December 12, 2017**



# Hosted By



Richard Bishop  
Head of Service  
Development/Delivery  
Trust IV Ltd

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# Webinar Housekeeping



The screenshot shows a webinar interface with a presentation slide titled "Building the DevOps Tool Chain" dated "January 17, 2017". The slide features the Vivit logo and the text "Discover the independent HPE software user community where you can share, collaborate, exchange, and grow". The slide is part of a presentation of 27 slides, currently on slide 2. The interface includes a Q&A section, a "DOWNLOAD FILES" section, and a footer with contact information.

Slide 2 of 27

LOGO/PICTURE

Q&A

Ask a question

Ask

DOWNLOAD FILES

File Name	Size
No file Found	

Folder: All Files

Dial-In #: VoIP or 415-926-7795 or [International Numbers](#) Conference ID: 0866-2702 User ID: 280895

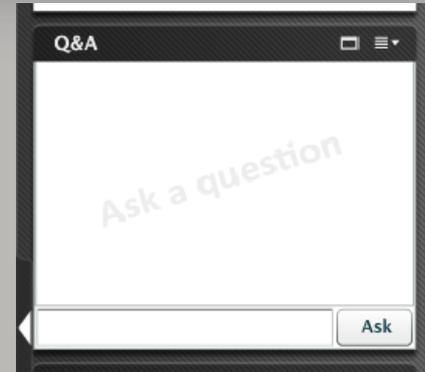
- This “LIVE” session is being recorded
- Recordings are available to all Vivit members
- To enlarge the presentation screen, click on the rectangle in the upper right hand corner of the Presentation pane

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# Webinar Control Panel

- Session Q&A:  
Please type questions in the Q&A pane and click on “Ask”
- Choose the language in which you would like to ask your questions



# Welcome to



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# SIG Talks

- Monthly “show and tell”
- Sharing best practice
- Collaborative with Q&A
- Member to member
- Technical focus (not “salesy”)

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# Future topics

If you are interested in **participating as a SIG Talk speaker** for one of our 2018 Quality and Testing topics or want to **suggest a speaker or topic**, please take a moment to [answer our survey](#).



Date	SIG Talk	Moderator
December 12, 2017	SIG Talk	
January 9, 2018	<u>Discover the New Tour</u>	<u>Richard Bishop</u>
February 13, 2018	Proven Practices	<u>Todd DeCapua</u>
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December 11, 2018	Testing Tools	<u>Mihai Grigorescu</u>
	Tips & Tricks	<u>Mark Ford</u>

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# Tweet Your Questions



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# Today's topics



- The move to Micro Focus

“Discover the New”

- Big Data, AI and Machine learning
- VTS demonstration
- SRF demonstration

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# Today's Speakers

## Today's Speakers:



Richard Bishop  
Head of Service  
Development/Delivery  
Trust IV Ltd



Todd DeCapua  
Senior Director of  
Technology and  
Product Innovation  
Corporation Service  
Company



Chris Trimper  
Enterprise QA Senior  
Automation Analyst  
Independent Health

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# Discover the New

- Micro Focus post merger “Discover the New” tour
- 14 cities in 4 weeks
- Discussed key tech disruptions. Agile / DevOps, Cloud, Open Source, Data Centric Enterprises, Analytics & Machine Learning
- Chance for customers & partners to meet the Micro Focus leadership



September 1, 2017 - NYSE

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# Discover the New



Discover the New Company

## Our Mission

We provide our customers with a best-in-class portfolio of enterprise-grade scalable software with analytics built in.

We put customers at the center of our innovation and build high quality products that our customers can rely on and our teams can be proud of.

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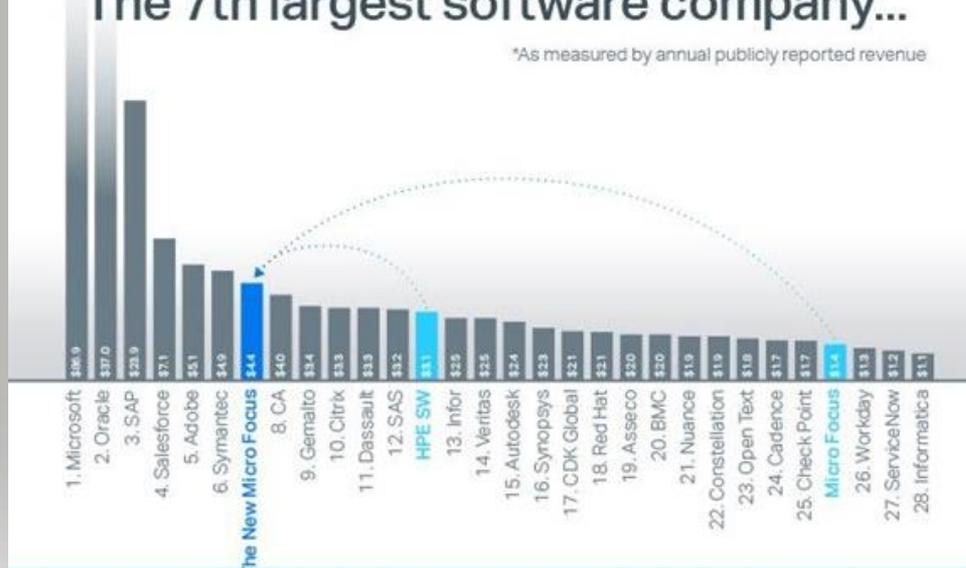


# Discover the New



## The 7th largest software company...

\*As measured by annual publicly reported revenue



#DiscovertheNew



# Big Data, AI & Machine Learning

Big Data, Artificial Intelligence and Machine learning are rapidly impacting businesses and customers, another massive opportunity for you to pivot through technology enablement.

In this session, Todd DeCapua will share how these capabilities are being leveraged in Performance Engineering now, and into the future.



Todd DeCapua

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# VIVIT SIG TALK:

# Big Data, Machine Learning and Artificial Intelligence

Todd DeCapua

December 2017



EffectivePerformanceEngineering.com



# #VivitSIGTalk

### 2018 SIG Talk - Quality and Testing Schedule

Date	SIG Talk	Moderator
December 12, 2017	<a href="#">Discover the New Tour</a>	<a href="#">Richard Bishop</a>
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All 12 Months of 2018  
2<sup>nd</sup> Tuesday at 12noon ET  
Every Session: 3-5 Talks, 12-15 Minutes Each  
Do You Have A Talk Yet?

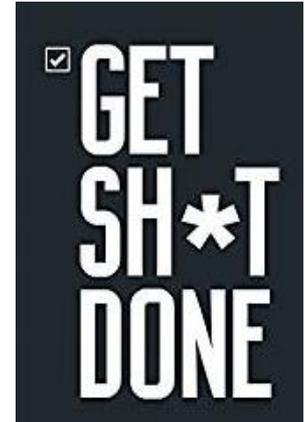
<http://bit.ly/2iH38Et>

# Agenda

Big Data / Machine Learning / Artificial Intelligence

---

1. I am sick of the hype
2. Big Data / Machine Learning / Artificial Intelligence
3. Let's take a closer look
  1. Introduction
  2. Deep Dive
  3. Future and How-To's
4. Summary and Next Steps



# big data

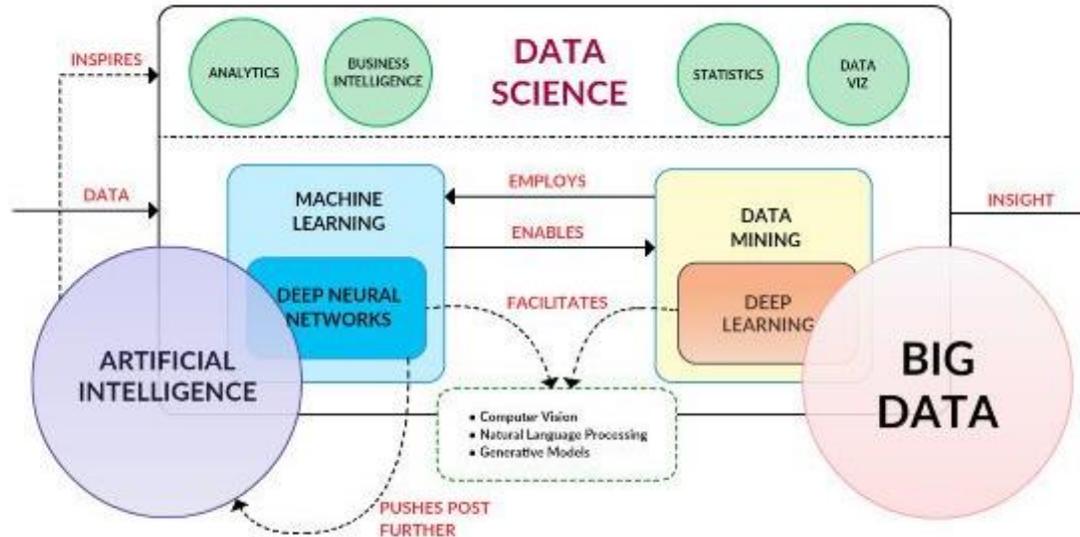
plural noun

1. (**computing**) data held in such large amounts that it can be difficult to process

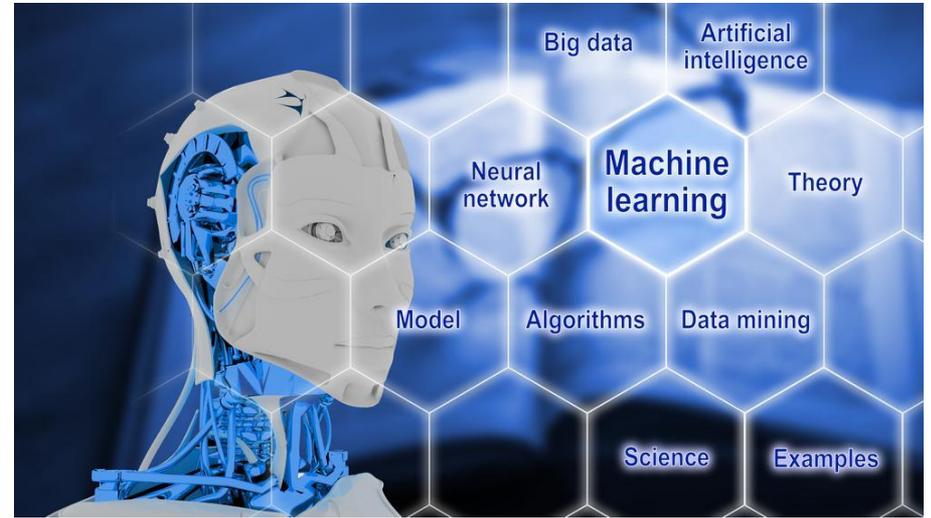
**Machine learning** is an application of artificial intelligence (AI) that provides systems the ability to automatically learn and improve from experience without being explicitly programmed. **Machine learning** focuses on the development of computer programs that can access data and use it learn for themselves.

## Definition of ARTIFICIAL INTELLIGENCE

- 1 : a branch of computer science dealing with the simulation of intelligent behavior in computers
- 2 : the capability of a machine to imitate intelligent human behavior



1. Do we know all the data points?
2. Have all the algorithms been defined?
3. Where are all the 'processing engines'?
4. Are there unique protocols?
5. What are the volumes / size of data?
6. How do we create, reset and refresh?



# The AI reset



**75% of early AI projects will underwhelm due to operational oversights.**

[FORRESTER.COM/PREDICTIONS](https://www.forrester.com/Predictions)

Forrester Quote: [Predictions 2018 – A Year of Reckoning](#)  
“In 2018, 75% of AI projects will underwhelm because they fail to model operational considerations, causing business leaders to reset the scope of AI investments — and place their firms on a path to realizing the expected benefits.”

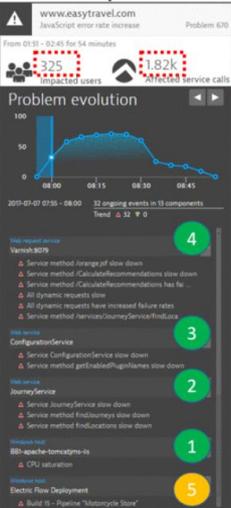
<https://go.forrester.com/2018-predictions/>

## How-To's

1. Define the objective(s)
2. Break down into sub-cycles
3. Map the flow and scenarios
4. Create the environment
5. Create the data
6. Validate algorithm(s)
7. Validate data / feeds
8. Review results

<https://www.dynatrace.com/blog/auto-mitigation-with-dynatrace-ai-or-shall-we-call-it-self-healing>

### Improve MTTR: Automate Mitigate with AI Data



**?Rescale at 2AM?**        ...

**Auto Mitigate!**       ...

- 1** CPU Exhausted? Add a new service instance!
- 2** High Garbage Collection? Adjust/Revert Memory Settings!
- 3** Issue with BLUE only? Switch back to GREEN!
- 4** Hung threads? Restart Service!

**? Impact Mitigated?**  

- 5** Still ongoing? Initiate Rollback!  

**? Still ongoing?**  

AI Detected Problem details allow us to build smarter automated mitigation actions. No need to wake up engineers at 2AM every time a problem happens.

Our point of the webinar was that with the Dynatrace AI (Artificial Intelligence) analyzed data, we can trigger and build much smarter Auto Mitigation actions. Here are our thoughts



@AppPerfEng

# Thank You



EffectivePerformanceEngineering.com

# Virtual Table Server

**Virtual Table Server (VTS)**, in days of Mercury Interactive, was the often overlooked repository for dynamically updated real-time test data.

Even after a revamp and relaunch in 2014, many people still don't use it (they should).

Richard's VTS demo will help you to get started with this great add-on for LoadRunner and Performance Center.



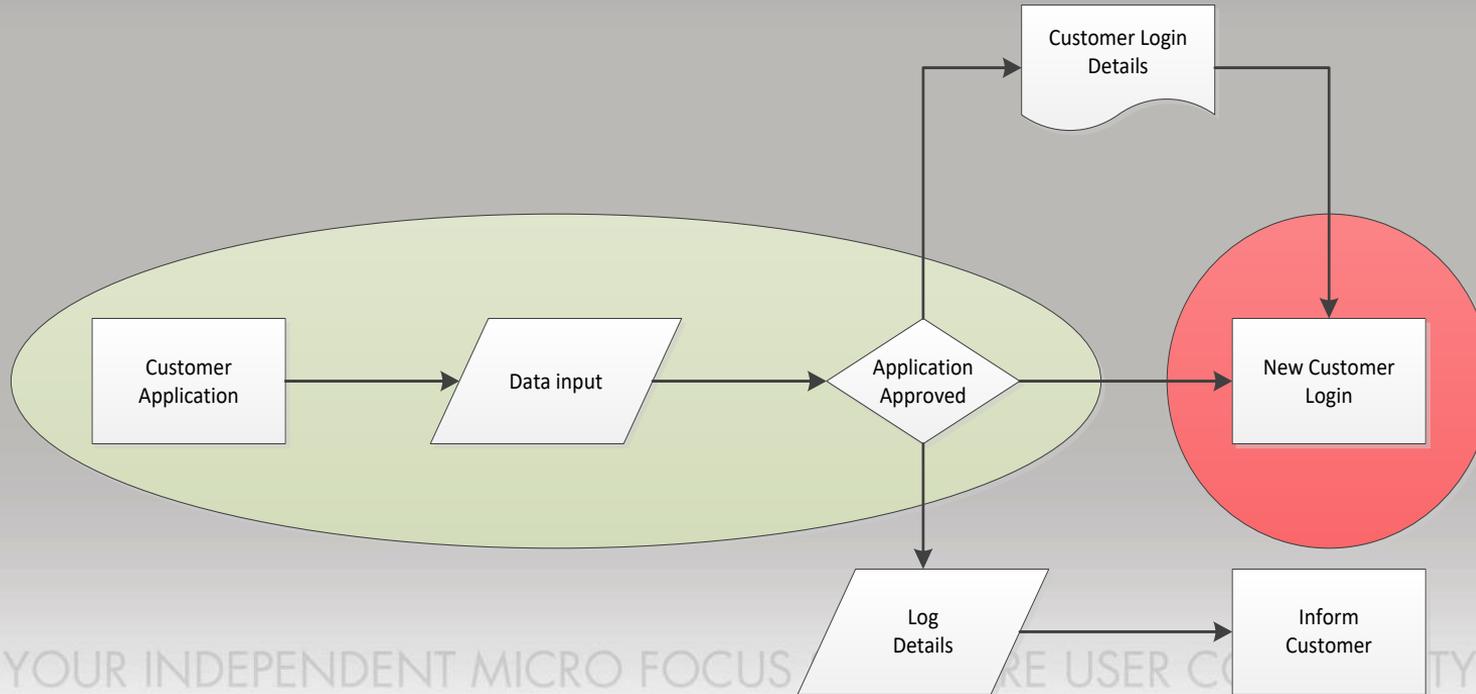
Richard Bishop



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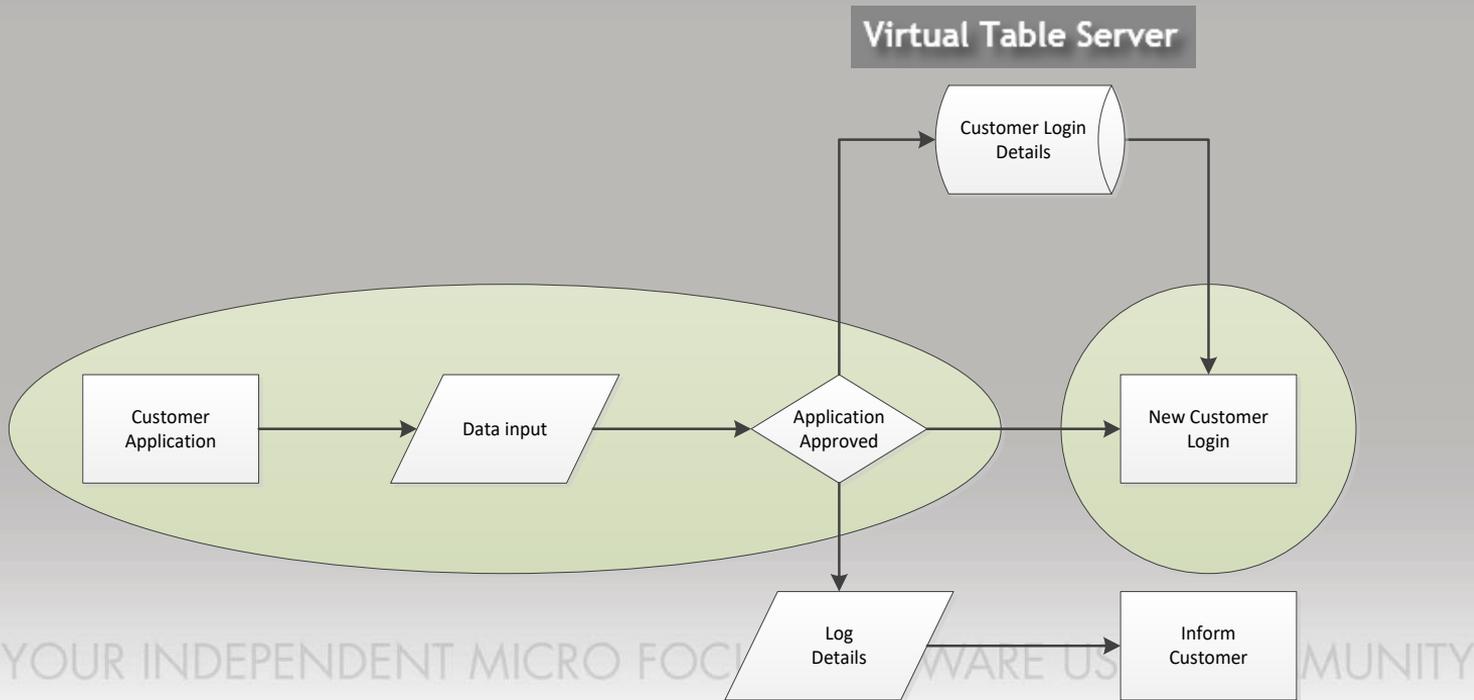


# Why VTS?



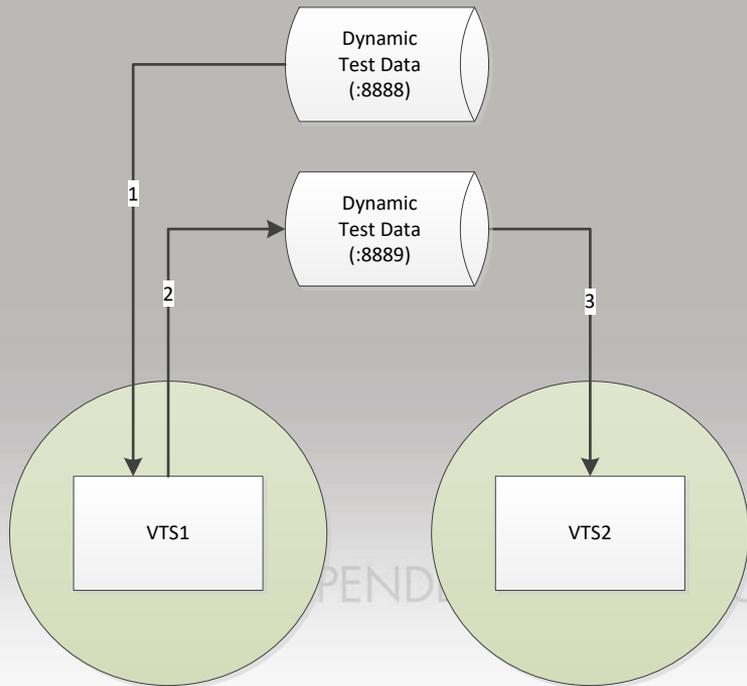
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# Why VTS?



# Virtual Table Server

## Virtual Table Server



1. The first script (VTS1) takes in a row of customer information from a VTS table containing VTS sample data and appends a timestamp (to simulate a business process).
2. The VTS1 script then writes information out to the second VTS instance on port 8889
3. The VTS2 script then takes the "newly created data" from the second VTS instance demonstrating the "real-time" consumption of test data.

# VTS Demo

hp Virtual Table Server Admin x Richard

127.0.0.1:4000

hp Virtual Table Server Options | Help

Server Name: 127.0.0.1 API Access Port: 8888 Access from Script:  Enabled

Import Export Column Actions Delete Table Refresh search in table

	CustomerID (30)	CompanyName (30)	ContactName (30)	ContactTitle (30)	Address (30)	City (30)	Region (30)	PostalCode (30)	Country (30)	Phone (30)	Fax (30)
1	QUEEN	Queen Cozinha	Lúcia Carvalho	Marketing Assistant	Alameda dos Cana	Sao Paulo	SP	05487-020	Brazil	(11) 555-1189	
2	QUICK	QUICK-Stop	Horst Kloss	Accounting Manager	Taucherstraße 10	Cunewalde		01307	Germany	0372-035188	
3	RANCH	Rancho grande	Sergio Gutiérrez	Sales Representative	Av. del Libertador	Buenos Aires		1010	Argentina	(1) 123-5555	(1) 123-5556
4	RATTC	Rattlesnake Canyon	Paula Wilson	Assistant Sales Rep	2817 Milton Dr.	Albuquerque	NM	87110	USA	(505) 555-5939	(505) 555-3620
5	REGGC	Reggiani Caseifici	Maurizio Moroni	Sales Associate	Strada Provinciale	Reggio Emilia		42100	Italy	0522-556721	0522-556722
6	RICAR	Richter Supermark	Eric Holz	Sales Manager	Grenzacherweg 23	Geneve		1203	Switzerland	0897-034214	
7	RICSU	Richter Supermark	Eric Holz	Sales Manager	Grenzacherweg 23	Geneve		1203	Switzerland	0897-034214	
8	ROMEY	Romero y tomillo	Alejandro Camino	Accounting Manager	Gran Vía, 1	Madrid		28001	Spain	(91) 745 6200	(91) 745 6210
9	SANTG	Santitas Gourmet	Manfred Müller	Marketing Manager	Route 123, Box 345	Stavern		4110	Norway	07-98 92 35	07-98 92 47
10	SAVEA	Save-a-lot Markets	Jose Pavarotti	Sales Representative	187 Suffolk Ln.	Boise	ID	83720	USA	(208) 555-8097	
11	SEVES	Seven Seas Imports	Hari Kumar	Sales Manager	90 Wadhurst Rd.	London		OX15 4NB	UK	(171) 555-1717	(171) 555-5646
12	SIMOB	Simons bistro	Jytte Petersen	Owner	Vinbæltet 34	Kobenhavn		1734	Denmark	31 12 34 56	31 13 35 57
13	SPECD	Spécialités du mon	Dominique Perrier	Marketing Manager	25, rue Lauriston	Paris		75016	France	(1) 47.55.60.10	(1) 47.55.60.20
14	SPLIR	Split Rail Beer & Al	Art Braunschweiler	Sales Manager	P.O. Box 555	Lander	WY	82520	USA	(307) 555-4680	(307) 555-6525
15	SUPRD	Suprêmes délices	Pascale Cartrain	Accounting Manager	Boulevard Tirou, 2	Charleroi		B-6000	Belgium	(071) 23 67 22 20	(071) 23 67 22 21
16	THEBI	The Big Cheese	Liz Nixon	Marketing Manager	89 Jefferson Way S	Portland	OR	97201	USA	(503) 555-3612	
17	THECR	The Cracker Box	Liu Wong	Marketing Assistant	55 Grizzly Peak Rd	Butte	MT	59801	USA	(406) 555-5834	(406) 555-8083
18	TOMSP	Toms Spezialitäten	Karin Josephs	Marketing Manager	Luisenstr. 48	Münster		44087	Germany	0251-031259	0251-035695
19	TORTU	Tortuga Restaurant	Miguel Angel Paolir	Owner	Avda. Azteca 123	México D.F.		05033	Mexico	(5) 555-2933	
20	TRADH	Tradição Hipermerci	Anabela Domingue	Sales Representative	Av. Inês de Castro,	Sao Paulo	SP	05634-030	Brazil	(11) 555-2167	(11) 555-2168

Page 1 Total Records: 30

<https://github.com/richardbishop/LoadRunnerSamples/tree/master/VTS>



# StormRunner Functional



StormRunner Functional is the latest functional test offering from Micro Focus.

In this session, Chris Trimper, an early adopter and beta tester, will share his experiences with this new product



Chris Trimper



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Show and Tell

# STORM RUNNER FUNCTIONAL

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# Why

- Web is a pain
- Devices are a pain
- Functional Automators are Lazy

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# How it can help



Explore

Execute

Report

Record

Web

Mobile



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# Explore

- Any OS / Browser
- Devices
- On Demand

Web: Windows  
ID: 12

START

USER: Chris Trimper  
AUTHOR: Chris Trimper  
OS: Windows 10

ENVIRONMENTS

OS	BROWSER	VERSION	RESOLUTION
Windows 10	Chrome	54	1024x768

Find A Doctor  
Log in  
Register  
Why become an online member?  
An online member can save time by using your personal plan information 24 hours a day, 7 days a week.

From your everyday

ENVIRONMENT SELECTION | WEB TEST

DESKTOP BROWSERS (1)

BROWSER	VERSION	RESOLUTION
Chrome	latest	800x600

ENVIRONMENT SELECTION | MOBILE TEST

MOBILE DEVICES (1)

VERSION	MODEL	NAME & ID	AVAILABILITY
6.0.1	Sony E6653	Sony Z1 - HPE Private Dev... ID: B19002445	Available

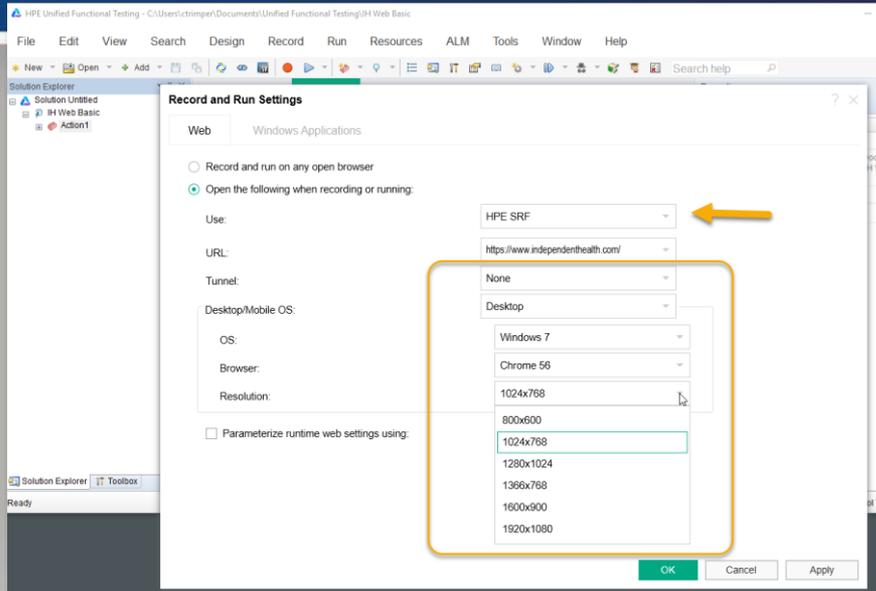
APPLICATIONS (1)

VERSION	NAME	USE PACKAGED VERSION	UPLOAD
17230	Vivit Mobile App	<input checked="" type="checkbox"/>	Upload 1 03/12/17 04:14 PM

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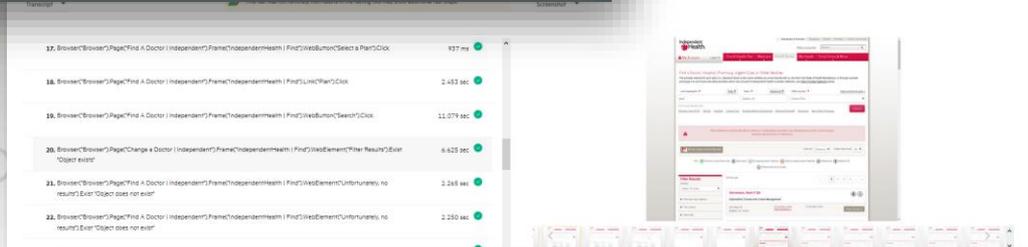
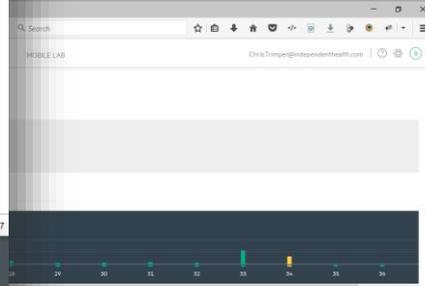


# Execute



## Web

- Cross Browser
- Various screen resolutions
- Various operating systems



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# Execute

The screenshot shows the StormRunner Functional web interface. The top navigation bar includes 'HOME', 'AUTOMATION', 'EXPLORATORY', 'SCRIPTS', 'RESULTS', and 'MOBILE LAB'. The user is logged in as 'Chris.Trimper@independenthealth.com'. The main area displays a grid of script cards, each with a 'JS' icon and a title. An 'UPLOAD SCRIPT' dialog box is open in the foreground, showing the 'PLATFORM' selection options: 'Web' (selected) and 'Mobile'. Below the platform selection, there is a list of script types: 'LeanFT', 'Selenium', and 'Optional\*'. A mouse cursor is pointing at the 'Selenium' option.

## Remote

- UFT -> SRF
- LeanFT -> SRF
- Selenium -> SRF

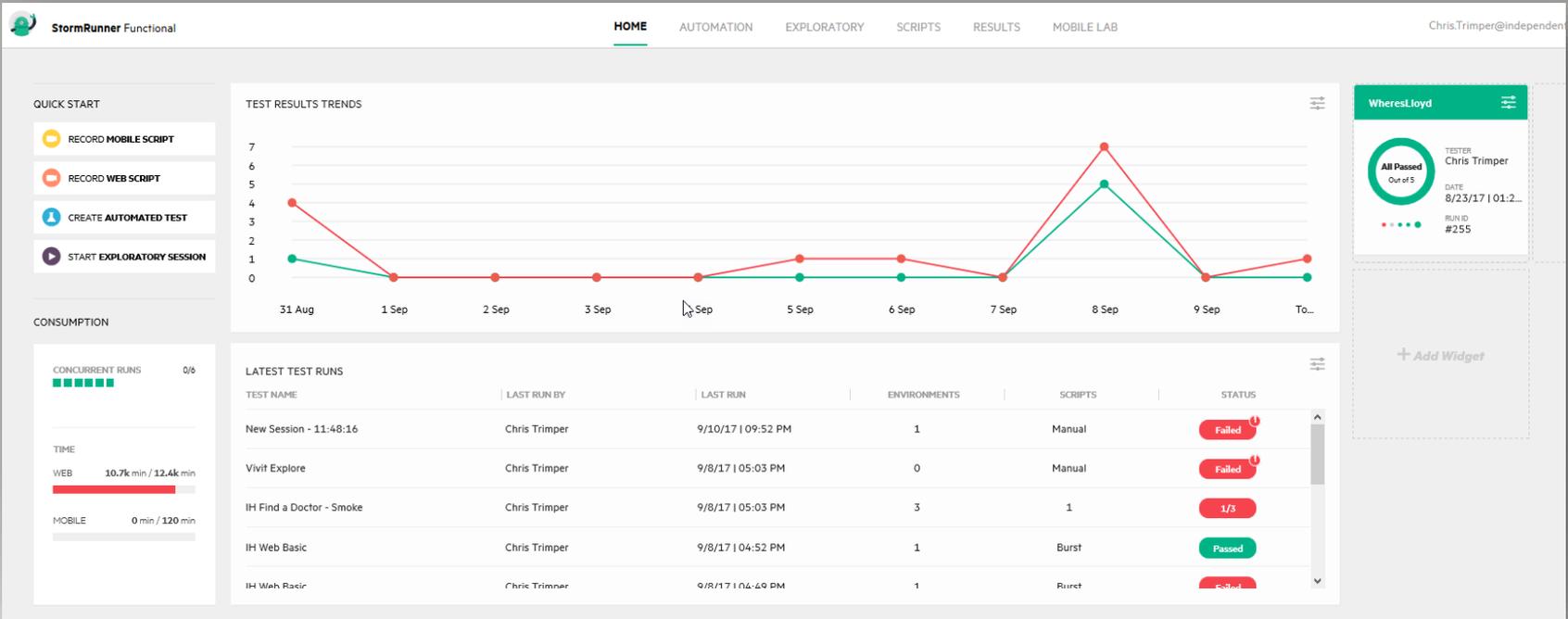
## Upload

- UFT -> SRF
- LeanFT via SRF
- Selenium via SRF

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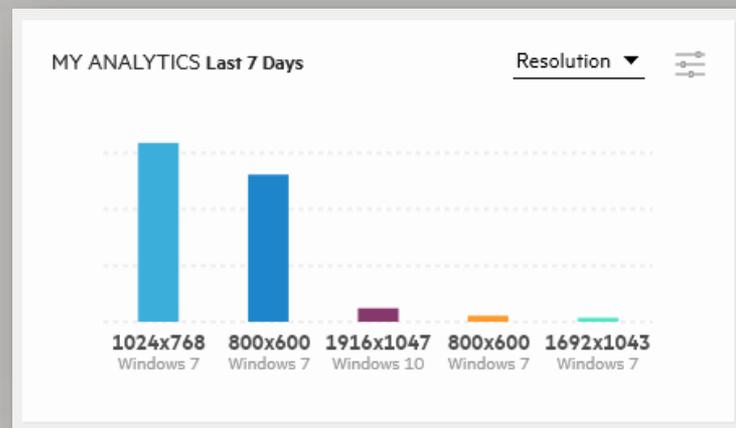
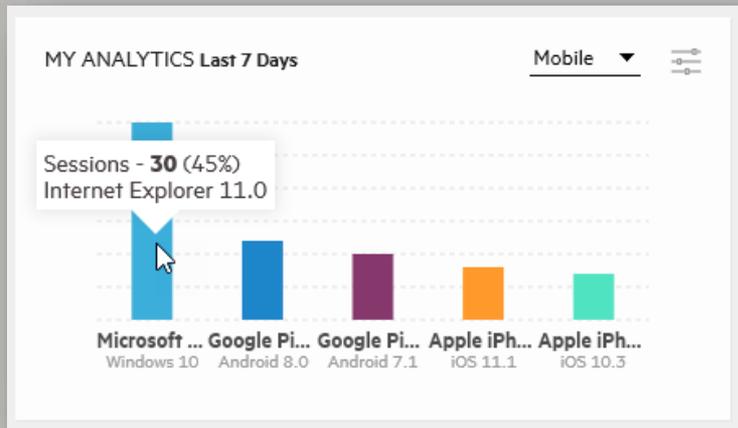
# Report



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# Analyze



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# Record

The screenshot shows a web browser window with the URL `https://ftaas.saas.hpe.com/scripts/record?platform=web&TENANTID=6967957`. The browser is displaying a Google search for "robots". The search results show "Hitachi - Robotics Technology" and "Robots (2005) - IMDb".

The background shows the StormRunner Functional interface. The "SCRIPTS" tab is active, showing a test script titled "Simple Google Search". The script is written in JavaScript and includes the following code:

```
1 var LFT = require('lft');
2 var SDK = LFT.SDK;
3 var web = LFT.web;
4 var SdkES = LFT.SdkES;
5 var whenDone = LFT.whenDone;
6 var verify = require('assert/strict');
7
8 describe('demo', function() {
9   var browser;
10
11   beforeEach(function(done) {
12     LFT.LINKS({});
13     whenDone(done);
14   });
15
16   beforeEach(function(done) {
17     LFT.beforeTest();
18     web.Browser.launch('chrome'), then(function(b) {
19       browser = b;
20     });
21     whenDone(done);
22   });
23
24   it('should work', function(done) {
25     browser.url('https://www.google.com/');
26
27     var search = browser.$(web.ELIT({
28       name: "q",
29       tagName: "INPUT",
30       type: "text"
31     }));
32     search.setValue("robots");
33
34     var robots = browser.$(web.Element({
35       name: "robots",
36       tagName: "a"
37     }));
38     verify(robots.tagName(), notEqual("a"));
39     verify(robots.innerHTML(), notEqual("Robots"));
40   });
41 });
```

The test script is titled "Simple Google Search" and includes the following steps:

- 1. Launch Chrome browser (0.627 sec)
- 2. Navigate to URL, "https://www.google.com/" (801 ms)
- 3. Set the Search textbox to 'robots' (1.840 sec)
- 4. WebElementTagName (20.964 sec)
- 5. Close the browser window (1.509 sec)

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# Mobile Too

ENVIRONMENT SELECTION | MOBILE TEST

MOBILE DEVICES (1)

Capabilities

ADD MORE

Devices

Search

Sony Z3 - HPE Private Device, OS: 6.0.1 Sony E6683

APPLICATIONS (1)

VERSION	MODEL	NAME & ID	AVAILA
0.0.1	Sony E6683	Sony Z3 - HPE Private Device, ID: B949022455	Availa

ADVANCED	Uninstall	Install	Restart
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

VERSION	NAME	USE PACKAGED VERSION	UPLOA
172380	Vivit Mobile App	<input checked="" type="checkbox"/>	Uploaded 8/25/17

SUMMARY 1 Device 1 Application

StormRunner Functional

HOME AUTOMATION EXPLORATORY (6/3x) SCRIPTS RESULTS MOBILE LAB

Chris.Trimper@independenthealth.com

CONTROL PANEL

DEVICE INTERACTIONS

Image quality 100% High performance High quality

Zoom - 100% +

Latency 290 ms

Device Info

0.0.1 Sony Z3 - HPE Private Device Sony E6683 B949022455

Powered by MOBILE CENTER

Vivit Member Login

Vivit Username

Vivit Password

Log in Remember me

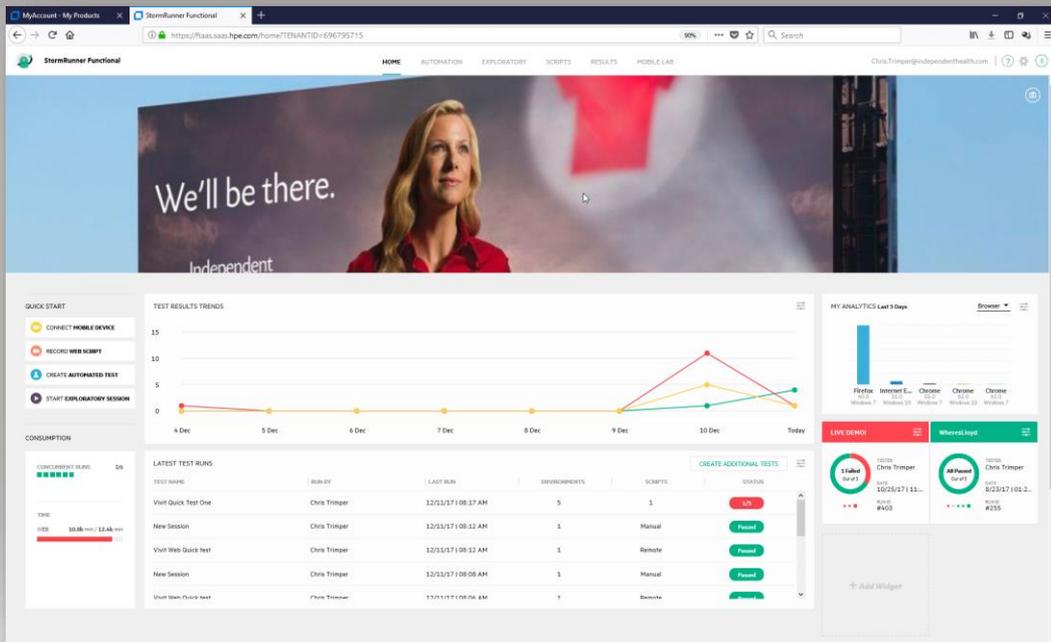
Welcome to Vivit - your unbiased, trusted and field-tested Hewlett Packard Enterprise software user group providing an infrastructure support through programs centered around education, community building, and advocacy for members.

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# Demo Time



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# Future topics

If you are interested in **participating as a SIG Talk speaker** for one of our 2018 Quality and Testing topics or want to **suggest a speaker or topic**, please take a moment to [answer our survey](#).



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	Tips & Tricks	<u>Mark Ford</u>



# #VivitSIGtalks

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# Upcoming Vivit Webinars

December 13, 2017

## **Managing Compliance and Risk with Data Center Automation**

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

<https://vivitworldwide.site-ym.com/events/EventDetails.aspx?id=1037830&group=>

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**Thank you**  
vivit-worldwide.org



# Thank you

Please complete the short survey so we can better serve our community.

[www.vivit-worldwide.org](http://www.vivit-worldwide.org)

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**Thank You**  
vivit-worldwide.org

