Looking forward to Bootcamp & Little SIG

Lloyds Bank, 33 Old Broad Street

CHAIRMAN'S CHAT
Welcome to the Autumn 2018 BITUG Newsletter

Hello folks. Welcome to another Chairman's chat, its October (sober) and we are heading into arguably the most interesting part of the year for NonStop. Bootcamp time!! Myself and a couple of other BITUG committee members have managed to secure authorisation to attend this year's event in San Francisco and with only a couple of weeks to go and I am very much looking forward to it.

Unfortunately, I have been super busy with the day job recently and still haven't had time to look at the agenda and plan my week properly. I will be arriving at the Hyatt on Friday so will have plenty of time to prep once I get there and am very much looking forward to seeing some NonStop friends again.

For those of you unable to attend Boot Camp this year, BITUG's Little SIG is the next best thing...

Seriously, this is where HPE will be presenting all the latest NonStop news direct from BootCamp.

On top of the usual excellent HPE content, including a session on DevOps, and a session featuring IBM MQ 8 on NonStop, this year's Little SIG has developed a crime theme.

City of London police will present a KeyNote session on "Terrorism Awareness", we have a session on PII (Personal Identification Information) data protection and to round off the day of presentations, a session looking at ATM hacks and specifically the recent Cosmos Bank attack.

Following Little SIG, BITUG are presenting a "free" day of training focused on the VMWare implementation of vNonStop, there are only a few places left for this event so book soon to avoid disappointment.

Full details and registration forms for this year's Little SIG and Education day can be found on the www.bitug.com website.

Don't forget BITUG are also hosting the 2019 European NonStop Symposium in Edinburgh next May.

We are currently arranging the agenda and sponsorship. We hope to have a some more announcements and an event registration page available early in the new year, so keep a look out on Twitter and on our website for the latest news.

Finally, an update to my previous Chairman's Chat. Good news!! The Dutch HPE NonStop user group is alive and well contrary to my initial investigations. So that's another user group holding events on behalf of European NonStop customers.

Best regards, we hope to see you at Little SIG.

Damian and all of the BITUG committee.

BITUG Little SIG 2018

DATE:
4th December 2018

VENUE:
Lloyds Bank, 33 Old Broad Street, London EC2N 1HZ

CLOSEST TUBE:
Liverprool St.

BITUG are very excited to announce another new SIG location, this December we will be holding our Little SIG at the Lloyds Bank building at 33 Old Broad Street London. This is a fantastic venue and we are very grateful to Llloyds for allowing us to use their conference space.

To comply with Lloyds Bank's security requirements you must register in advance - you cannot just arrive on the day. Registration will close on Friday 30th November 2018.

To register your places please visit www.BITUG.com/little-sig

BITUG Little SIG @ Lloyds
Tuesday December 4th 2018

Time	Session
08:30	**Event registration and Refreshments**
09:00	Damian Ward - BITUG Committee / Vocalink / Mastercard **Welcome to Little SIG**
09:15	Collin Yates - BITUG Committee / TCM **Overview of eBITUG 2019 Edinburgh**
09:30	Kelly Hemmise - City of London Police **Counter Terrorism Awareness**
10:30	Neil Davis - HPE **NonStop State of the Nation**
11:00	**Coffee & Networking sponsored by BITUG**
11:15	Kevin Mcgeough - HPE **HPE NonStop Updates & Roadmap**
12:00	Keith Bell - 4Tech **Lessons learned for the management of PII Data**
12:45	tbc - HPE **HPE NonStop Education Overview**
13:00	**Lunch & Networking sponsored by BITUG**
14:00	Daniel Craig - NSU40 / TCM **NSU40 @ eBITUG Edinburgh update**
14:15	Cor Geboers - HPE **DevOps in the Trenches**
15:00	David Ward - IBM **IBM MQ 8 - Roadmap and Updates**
15:45	**Coffee & Networking sponsored by BITUG**
16:00	Damian Ward - BITUG Committee / Vocalink / Mastercard **Cryptocurrency Update Bitcoin / Altcoins / Deadcoins**
16:30	Damian Ward - BITUG Committee / Vocalink / Mastercard **Cosmos Bank ATM Central Infrastructure Hack Analysis**
17:00	Neil Barnes - BITUG Committee / Lloyds Bank **Roundup and close / AGM**

XYPRO NEWS

SECURE APPLICATION DEVELOPMENT IN A CONNECTED WORLD

By Steve Tcherchian, CISSP - CISO and Director of Product, XYPRO Technology

Applications are everywhere. Take a look at your mobile device and you will realize how integral applications are to everyday life. We use them to shop, bank, order dinner, get a ride, keep our house warm, even keep track of our children. But such modern conveniences do not come cheap. Our data needs to be shared with applications for them to provide value. In most cases, extremely sensitive information about us and our lives. Who we are, where we live, where our kids go to school, our daily patterns, habits, likes and dislikes. All this data is shared under the assumption and hope that the application creator is doing everything possible to protect our most personal information.

To read more go to:
bit.ly/2AyXjPk

XYPRO partners with CyberArk and SailPoint to maximize enterprise identity governance and security investments for HPE NonStop servers.
Integrate HPE NonStop servers with CyberArk Privileged Access Security Solution

Expanding on the recent strategic SailPoint partnership and integration for the HPE NonStop Server, XYPRO has worked closely with CyberArk and our mutual customer base to deliver the only CyberArk integration for the HPE NonStop server. XYPRO's XYGATE Identity Connector for CyberArk bridges the existing gap on HPE NonStop servers between identity governance and enterprise password management. Using XYGATE Identity Connector (XIC), your HPE NonStop servers can now seamlessly integrate with the CyberArk Privileged Access Security Solution, the most used and trusted privileged access security solution, allowing end-to-end password management of NonStop privileged accounts, such as SUPER.SUPER.

To read more go to:
bit.ly/2PqPX92

EVENTS CALENDAR

ASCERT NEWS

GREEN SCREEN, IN 2018, SERIOUSLY?

By Rob Walker

Dinosaurs, disco and flares. If you imagined Green Screen applications had joined these once great dynasties on the extinct list, then think again. The winds of IT climate change have definitely eroded a significant proportion of their once dominant position, but the mainframe systems that have survived are bigger and uglier than ever, and they don't like being ignored. But whilst the systems may not have died out yet, the pool of skills to properly support them is drying up faster than a water hole in the desert heat. Join Rob Walker for a surprising, and unexpected journey into the very much alive and still essential world of old school green screen applications, and the importance of automating their testing within a modern CI process using tools such as Jenkins and Docker. Follow the URL to read the full article: www.ascert.com/go/DiscosAndDinosaurs

OMNIPAYMENTS NEWS

WHY ARE SO MANY OF THE UK'S BANKING SERVICES SUFFERING DOWNTIME?

Bank service outages are now so regular we've almost stopped caring. Unless you're an affected customer of one of these blips, the chances are you shrug your shoulders and get on with your day. But why are so many banks continuing to let us down?

We in the Nonstop Tandemsphere thought we'd solved this problem back in 1976. Banks were then crying out for reliable systems that would tolerate failures and keep running.

These systems we rely upon today date from before the days of the Internet, before the days of the iPhone, and certainly before the days when the words Dark Web and Hackers drifted into modern use. Since then, we've been busy trying to adapt our legacy systems for the modern world, tacking on bits of software, plugging gaps, changing a few operational procedures, jumping through a few hoops to satisfy the regulators. But what continues to happen? Systems fall over, or worse still freeze like rabbits in headlights.

OmniPayments takes a 21st century approach to e-payments. We recognise that modern systems require a number of key characteristics:

• Flexible APIs
• Rapid implementation times
• Robust Security
• 100% availability

Read the full article: bit.ly/2AAyyCJ

AVAILABILITY DIGEST

THE BENEFITS OF DARK FIBER

By Dr. Bill Highleyman
Managing Editor
Availability Digest
billh@sombers.com
www.availabilitydigest.com

Dark fiber is a fiber-optic cable that has been installed in the ground but that remains dormant, or 'unlit,' available for future use. Cable installers often will lay more fiber strands than needed in order to control the costs of having to lay lines again and again. As fiber-optic networks grow more popular with industries requiring high bandwidth, scalability, reliability, near-zero latency, and enhanced security, companies will lease unused strands of dark fiber cable to create their own private dark-fiber networks instead of competing for bandwidth on some carrier's existing network. The declining costs of dark-fiber leasing makes it even more attractive. With the number of Internet-connected devices expected to reach over 20 billion by the year 2020 and with cloud usage escalating at a similar rate, enterprises in increasing numbers are turning to dark fiber for the level of network independence they require for their operations.

Read the full article at:
www.availabilitydigest.com/public_
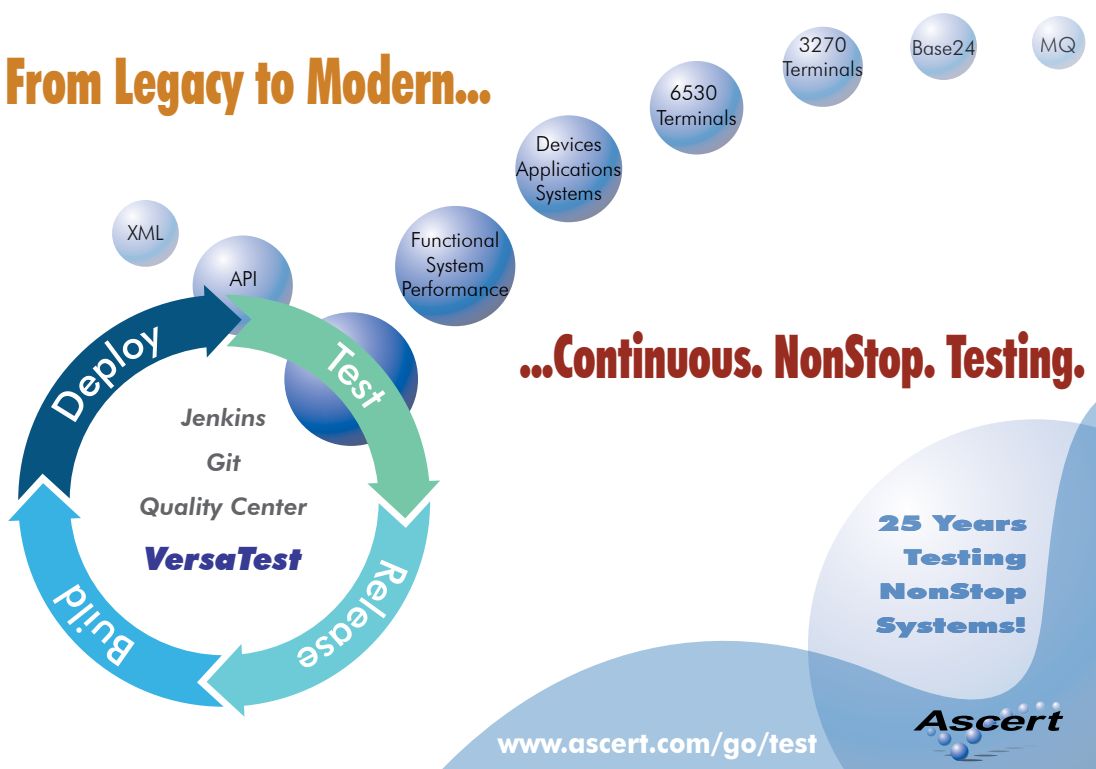articles/1310/dark_fiber_combined.pdf

TAND SOFT NEWS

INCREMENTAL FILE SYNCHRO-NISATION SAVES TIME AND PROCESSING
By Jack Di Giacomo, Principal, TANDsoft

'How can we reduce our file synchronisation runtime?' asked a NonStop customer with 200,000 OSS and Guardian unaudited files. The job ran twice daily, and the customer used full file synchronization in multiple Guardian and OSS environments. But with 200,000 files and the challenge of OSS pathname lengths, the runtime took 50 minutes – longer than acceptable. The customer chose to adopt incremental file synchronisation. The result was a runtime decrease from 50 minutes to 2 ½ minutes, a substantial savings in time and processing power.

Incremental file synchro-nisation replicates only files that are new or that have been modified since the last synchronisation. It will look for altered files within specified time parameters – 12 hours, a day, a week, etc. In the case of the customer above, only files that changed since the morning run were synchronised. Learn more about incremental file synchronisation in this paper by TANDsoft, Inc.:
bit.ly/2KiKr2Z

From Legacy to Modern...

XML

API

Deploy

Test

Jenkins

Git

Quality Center

VersaTest

Build

Release

Functional System Performance

Devices Applications Systems

6530 Terminals

3270 Terminals

Base24

MQ

...Continuous. NonStop. Testing.

25 Years Testing NonStop Systems!

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BUCKLED VIEW

CONTEMPLATING A BRAVE NEW WORLD, NONSTOP AS A SERVICE (NSAAS)

By Richard Buckle

For almost a year now we have all seen slides in HPE NonStop presentations alluding to the third option for consuming NonStop – as a service. Looking at the complete picture, we can call up HPE and purchase a loaded NonStop X system that will meet all of our needs or we can opt instead to run virtualized NonStop, where we purchase the new converged virtualized NonStop, the NS2. But there is also an option to simply tap your friendly vendor on the arm and ask to run a couple of NonStop applications from the service the vendor is providing. For now, this is a little vague in terms of how to license and who will become one of those friendly vendors, but the die is cast. We will have three significant options to consider comes this time next year.

There is no question that HPE has made a sizable investment in NonStop and no community is more surprised to read this than the NonStop community. After a decade of perceived indecision on the part of those close to NonStop it now appears much was happening in the background. Final numbers can only be guessed, but when you see the results and know that work has been going on for more than five years and perhaps as much as ten, then coming to a place where we have these options to consume NonStop than the investment must be close to passing the half billion dollar mark. So, what is NonStop as a Service and how best to understand the market it will likely serve?

When you poll HPE NonStop executives and managers the results are mixed, to say the least. There are those who wish to remain quiet on the topic, preferring instead to see which market bites first, whereas there are others who are really excited by the future prospects of NonStop and believe it will serve every market. However, it was back in the Spring, 2016, issue of NonStop Insider that we first read about "a future where a virtualized HPE NonStop server could be deployed as a traditional hardware appliance or as cloud-based NSaaS and DBaaS." More recently, in the LinkedIn promotional post for the June, 2018, issue of NonStop Insider, something a little more pragmatic appeared, "While it's still all to be sorted out, just the mention of the possibility of having HPE deliver a working NSaaS has many members of the NonStop vendor community hitting the books. How's this going to all work, indeed!

And yes, can we make any money from such a model, ouch!"

To put the words appearing in HPE NonStop PowerPoint slides as well as the commentaries that are beginning to appear into context, it may be wise to take a good long look at what NSaaS really is. According to those members of the NonStop team using these PowerPoint slides, it really is a case of NSaaS being more a Platform as a Service (PaaS) than it is Infrastructure as a Service simply because NSaaS provides so much more in terms of functionality and indeed usability. "A pure IaaS, in classical terms, does not make sense for NonStop," one NonStop team member told me recently. "So it definitely is more on the PaaS side, but I'd call it PaaS++ due to its potential flexibility, which even allows easy adoption of newer hyped topics such as Serverless!"

For now we will leave the Serverless topic and return to NonStop and NSaaS being a PaaS. And why is this important to know? It all comes back to messaging and how we present the option to turn to NSaaS to our fellow IT professionals including our CTOs / CIOs. For instance, set the expectation wrong and our one shot at expanding the presence of NonStop within our enterprise may end sooner than it began. Again, NSaaS is just another way to consume NonStop and if you already have a massive NonStop system powering a financial network or a manufacturing plant, NSaaS isn't going to prove to be an option.

"The real potential is in the new way to consume NonStop, i.e. removing entry barriers for customers (e.g. provision in minutes, quick time to market / time to value (TTM / TTV), no need to install/ manage, pay per use, etc)," was one response I was given by the NonStop team. And this makes sense – after all, we are learning so much about the benefits of cloud computing with its elasticity of provisioning that it is influencing other deployment models. "Enabling new business models, opening new channels to the market for partners through the app-store, leverage business- and infrastructure services, such as Mission Critical Distributed Ledger Technology (DLT) as a Service, even the potential to support DR as a Service, along with some of the more classical PaaS elements, including middleware services, such API gateway, Java / Python / etc."

And yes, with the caveat, all in due time of course. "The focus of NSaaS should be new opportunities rather than existing customers," is the common theme coming from the NonStop team. "New customers often have very different needs and so running NSaaS in production up to some level is something I'd not preclude at this point." Fortunately, for the NonStop community, the availability of NSaaS will likely develop traction for a couple of reasons that have to do with leveraging all the work that has gone into making NonStop a software platform (the best software platform on the planet), embracing

commoditization, openness and standards. One publication recently admitted that PaaS as it stood right now suffered from two major weaknesses, according to CIOs they polled.

"Service availability or resilience, however, can be a concern with PaaS. If a provider experiences a service outage or other infrastructure disruption, this can adversely affect customers and result in costly lapses of productivity. Provider lock-in is another common concern, since users cannot easily migrate many of the services and much of the data produced through one PaaS product to another competing product. Users must evaluate the business risks of service downtime and lock-in before they commit to a PaaS provider." We have already seen how easy it is today to move applications and middleware to NonStop and indeed, should it warrant it, onto another platform and for the NonStop community this is not as much an issue as it once was. However, when it comes to that all important service availability then there is nothing else on the planet that can match the service uptime of NonStop!

However, this isn't the only note of concern being expressed about PaaS. From another publication, "With PaaS, proprietary platform features may leave a client with little recourse should new requirements arise that the platform cannot address. Brain drain or loss of key personnel and skillsets may leave future updates and adaptations delayed or deferred, increasing technical debt. And wringing the most performance out of a PaaS solution may require specific (and expensive) expertise that cannot be easily scaled. When taking on PaaS, clients must enter with eyes wide open to the stickiness that closed or proprietary PaaS services incur." And yet, the NonStop community is well served with expertise on this front and more than one managed service provider is already stepping up their investment in NSaaS to better serve the NonStop community.

But eventually, the question will arise, "Where will we turn for NSaaS and who will deliver NSaaS along the lines of traditional PaaS offerings?" Right now, this is being pursued by HPE on a couple of fronts. There is work being done at the ATC to explore options and to answer that all important question: "Can we make any money from such a model?" There is also work being done by the solutions vendors and we are already beginning to hear about recent wins by NonStop vendors in the payments solutions marketplace delivering their solution and NonStop as a combination PaaS / SaaS. However, this is a rapidly evolving topic and to hear more of what is taking place and how the HPE NonStop team is addressing the topic of NSaaS from both the user and vendor perspective, perhaps you need to pack your bags and head to this year's NonStop Technical Boot Camp, as I have to believe this is one topic where the NonStop team will be only too happy to explore options with you!

GRAVIC NEWS

NEW WHITE PAPER AND TWO NEW HPE SHADOWBASE UTILITIES

Gravic releases two new utilities: Shadowbase Data Definition Language Utility (SBDDLUTL), a part of Shadowbase Data Management Utilities and Shadowbase Repair, a feature in the HPE Shadowbase Compare Utility. SBDDLUTL provides a powerful interface to convert and map the Enscribe DDL data structures (records, fields) into their SQL equivalents (tables, columns). SBDDLUTL supports a variety of target SQL databases, including NonStop SQL/MP, NonStop SQL/MX, Oracle, Microsoft SQL Server, IBM DB2, Oracle MySQL, SAP HANA, and SAP Sybase. HPE Shadowbase Repair assists with correcting or repairing SQL/MP or SQL/MX database discrepancies between two tables. Shadowbase Repair works on any two tables in these databases, provided they are both of the same type (MP or MX). It does not require a Shadowbase replication configuration, and can be used in any environment where a source and target table need to be verified. Please read our solution briefs at: bit.ly/2xHR9d1 and bit.ly/2PXT2dr

NTI NEWS

A STRATEGY UNFOLDING FOR DATA INTEGRATION THAT INCLUDES SUPPORT FOR SPLUNK

Data integration demands has led to the development of DRNet® support for integration with Splunk. Such integration support is all part of NTI's vision for our expanded Hybrid IT offering as it goes beyond simply replication to and from NonStop to include support for mainstream databases like Oracle and MS SQL Server. DRNet® for Splunk is among many new capabilities available from NTI about which you will be hearing a lot more in the coming months. In the all-important world of big data and analytics, Splunk has risen to a position of dominance and this is fully understood by the NTI development team.

To read complete article, go to: bit.ly/2pZunKn

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Hewlett Packard Enterprise

HPE NONSTOP NEWS

The **L18.02** RVU of the NonStop Operating System for NonStop X was a significant release which may have gone unnoticed by many people. As well as a plethora of updated to software products including: Samba 4.6.8, GNU automake and autoconf, cURL, Python 2 and 3, SQL/MX 3.6 including JDBC 4.2 APIs and workload management services, SSL, SSH, XMA and XUA enhancements in the security bundle; there was support for Virtualised NonStop 2.0 and the Virtualised Converged NonStop.

This L18.02 virtualisation 2.0 enhancement means that customers can choose from Red Hat Open Stack KVM (**RHOS**), **Ubuntu** KVM OpenStack and now **VMware** ESXi 6.5 and above for their virtualisation hypervisor and IaaS techniques to deploy NonStop. For the 2 core and 4 core virtualised NonStop systems then L18.02 added **NonStop Dynamic Capacity** licensing allowing bursting from 2 to 4 cores or 4 cores to six cores temporarily to handle short term peak processing. NSDC is purchasable in 30 day "chunks" which expire after one year.

Additionally the x86-based **NS2** virtualised converged system became supported by this revision of the OS with 2P and 12 or 24 disk configurations and 4P with 24 or 48 disk configurations all with core licensing. The NS2 has the smallest footprint for any NonStop system

currently available.

NonStop X is not only the most scalable and available x86-based server platform but now has **three families** (converged, virtualised and virtual converged) and **two deployment models** (physical or IaaS) to choose from.

NonStop Servlets for JavaServer Pages (**NSJSP 8.5**) version 8.5 has become available for NonStop X and NonStop i systems. This is a deep port of the Apache Tomcat 8.5.14 engine bringing scalability and availability to its implementation. It supports Servlet specifications 3.1 as well as invocation of a customised authorisation process.

NonStop Application Server for Java 10 (**NSASJ 10**) has been released for the NonStop X platform. This is a port of JBOSS Wildfly AS 10 which supports JEE 7 enhancements as well as JSON processing.

NonStop Message Queue 1.2 (**NSMQ 1.2**), the Java Messaging Service (JMS) based upon Apache ActiveMQ 5.15.0, is now available for NonStop X. It supports Java SE 8 binaries and JMS 1.1 APIs as well as other enhancements.

NonStop Development Environment for Eclipse 8.0 (**NSDEE 8.0**) is now available for use with NonStop X and NonStop i systems. It plugs in to Eclipse

4.7.2 (Oxygen) and supports C/C++ development tooling 9.4 (CDT 9.4) and has an enhanced Cobol Editor, Bash support as well as improved build, project and NonStop support features.

J06.22 RVU for the NonStop i platforms has been released which has a number of enhanced software products (TS/MP 2.7, NSJ 8 Update 3, NSJI, Samba 4.6.8, Python 2.7.13) plus features such as increased format 2 entry sequenced file limits allowing 32KB blocks, 27,576 byte records and alternate keys up to ~2KB.

Virtualised Converged NS2 (22U)