eBITUG is face to face, no barking dogs, no "you're on mute" and no answering the door to get to Amazon! Just real, live people, keen to share their experiences, enhance their knowledge and to identify even more possibilities to get the most from their NonStop Systems.

CHAIRMAN'S INTRO
Welcome to the Spring 2023 BITUG Newsletter

Your committee, along with HPE, our vendor community members and friends at Connect have all been in full throttle preparation for eBITUG in Edinburgh, Scotland on the 15th to 17th May 2023 at the Sheraton Grand Hotel. We have plans for the rest of the year too, but for this newsletter we are focused on eBITUG.

This is your event, with no lock down restrictions. This event is face to face, with no barking dogs in the background, no calls of "you're on mute", no screen sharing and no answering the door to get the Amazon delivery you ordered the night before. Just real, live people, keen to share their experiences, enhance their knowledge and to identify even more possibilities to get the most from their NonStop Systems.

Go to www.BITUG.com and register now! For those who plan to arrive during the day on Monday there is a great opportunity to attend the TCM Golf event, take a tour of Holyrood and/or enjoy a whisky tasting experience, followed by a BrewDog beer bust just a few yards walk from the hotel entrance.

All that and we haven't even started! On Tuesday and Wednesday we have a comprehensive two-day agenda, either side of a magnificent networking event at "The Caves" on Tuesday evening - see the current draft agenda in this newsletter. We already have a full-bodied commitment for keynote and breakout sessions from HPE, Vendors, and Customers alike, including product updates and case studies. This agenda will continue to be frequently updated and refined in the build up to the event. Once you have registered you will have access to the event activities via the WHOVA app to keep up with all the changes. Thanks to Kelly at Connect, in WHOVA you can plan your day, choose your sessions, network with other attendees and much, much more.

Space is limited, so to avoid disappointment please register at www.BITUG.com as soon as you can. We also have a limited number of rooms (first come first served) in the Sheraton Grand Hotel at a reduced rate specifically for this event. To take advantage of this rate select the link and the group rate booking option.

It's not too late to have your say! If you would like to see any specific subject covered at eBITUG, we will do our best to fit it in. Please email chair@bitug.com if you do have thoughts on that and include a note if you want to remain anonymous.

Kevin Poultney
Brightstrand
BITUG Chair 2023
Email: chair@bitug.com

NONSTOP DIARY DATES

eBITUG 2023
European NonStop Symposium
15-17th May 2023
www.bitug.com
Sheraton, Edinburgh, Scotland

Connect NonStop Technical Boot Camp
12-14th September 2023
www.nonstoptbc.com
Hilton, Denver, Colorado

PORTION OF PYALLA

OBSERVE, REFLECT, LEARN, ADAPT … REPEAT!

In today's IT world, it is an often overlooked cycle. To remain competitive and to support innovation, not forgetting our desire to foster creativity, we need to be attuned to the world around us. At no time has this been more important than today; whether IT is returning to a time of rightsizing, embracing new technology or simply remaining in business there is no substitute for observing, reflecting, learning and then adapting.

The NonStop community is witnessing first-hand the changes being made to the way we perceive NonStop. At first it was just a simple case of evaluating the merits of running NonStop on virtual machines rather than on traditional machines. Before we had time to fully reflect on what this might entail, along came cloud computing. HPE played a truly big card when it announced the GreenLake initiative as it focused on the value that came with opting for an OpEx expenditure rather than a CapEx. However, this was only the start.

The more we observed this changing IT landscape the more we came to realize that interacting with our peers took on an even greater sense of urgency. What other NonStop users going to do? What did their plans look like? And most important of all, did the value proposition of NonStop hold up in a virtualized, cloud centric world of hybrid IT? Were the NonStop vendors showing signs of adapting to this new reality for NonStop?

We have been subjected to global pandemics, natural disasters (of a massive scale) and even unexpected warfare close to home. It is during these troubling times that nations are looking at what's happening and redefining their own place in the world. One military strategist recently made the following observation: an important battle in Ukraine right now is the adaptation battle. Both sides and their strategic leaders are learning and adapting, seeking to constantly generate a new advantage over the other.

While this illustration can only take us so far in the business environment in which we operate, there is no escaping the reality that we must continue to observe, reflect, learn and adapt. Continuous adaptation is perhaps the most important endgame when it comes to NonStop vendors.

Not only is the world around them driving

GRAVIC NEWS

CUSTOMERS IN WESTERN EUROPE AND AROUND THE WORLD ARE PERFORMING HPE SHADOWBASE ZERO DOWNTIME MIGRATIONS

A noteworthy Case Study: Zero Downtime Migration for California Credit Union (ShadowbaseSoftware.com/Publications/Use-Cases/ZDM-for-Credit-Union/) was presented at the 2018 TBC and is an exemplary illustration of how you can reach migration success with proper planning, eliminating application downtime risk, and following other best practices.

Please join the HPE Shadowbase team at eBITUG in Edinburgh to learn more about ZDM and our exciting story of how a major HPE NonStop banking customer in the EMEA region migrated its BASE24™ application to active/active for Continuous Availability. Learn about what developments went well, what changes could have gone better, and how the bank successfully completed the project with no application downtime.

www.shadowbasesoftware.com/publications/use-cases/zdm-for-credit-union/

change so too is the HPE NonStop team having an impact. But given the opportunity NonStop vendors have become adept at levelling the playing field when it comes to extending the breadth of product choices. Pay these vendors heed and you will observe that the NonStop team no longer holds a monopoly on good software product offerings.

There will be much that we observe and learn while attending events and at this year's eBITUG that will be held in Edinburgh, Scotland. It is at the user group events and conferences where the full extent of the directions of many products will be displayed and the appeal of eBITUG comes from the many opportunities that will be available to check out which products best meet the needs of your enterprise. Of course, Edinburgh itself is an attraction that is hard to ignore and eBITUG always takes advantage of this venue.

The Taste of Scotland Gala Dinner on Tuesday evening and before that, the Beer Bust at the BrewDog Pub on Monday night are not simply good occasions to pursue networking at a social level but an opportunity to talk with other members of the NonStop community on a less formal basis. Such conversations often fuel a higher level of reflection on what has been the subject of presentations that day.

As each day winds down, it is not unusual to see smaller gatherings occurring, often times in corners of the hotel and even executive suites. Just as often, as the noise level increases what may have begun as a private conversation expands to embrace other participants who are simply passing by. And this again is a well-established tradition among the NonStop community where no door is ever closed for times of reflection.

In many ways this is an inescapable part of our culture and we all know the NonStop community is well versed in its culture and its cultural roots. Culture is "catchy" – it spreads. A good culture is one that is reinforced by the actions of others and we all want "in." Ultimately, when it comes to the NonStop vendor community, culture is all about sustaining creativity and innovation as together they can strongly influence a company's strategic direction.

Take the time to observe, learn, reflect and then appreciate how the NonStop vendor community continues to reinvent itself, adapting to what we see happening around us. Certainly, there will be further events taking place in 2023 but think of the advantages that come with observing the world of NonStop as it happens in the Spring of 2023! See you there …

Richard Buckle
Cofounder and CEO
Pyalla Technologies, LLC

XYPRO WHITE PAPER

A GUIDE TO THE CHANGES BETWEEN PCI DSS 3.2.1 AND 4.0

For a step-by-step guide on the changes between PCI DSS 3.2.1 and PCI DSS 4.0, please see XYPRO's "PCI DSS Version 3.2.1 to 4.0 Summary of Changes for HPE NonStop™ Servers" guide on www.xypro.com. XYPRO also provides a comprehensive PCI DSS gap assessment to identify and recommend areas that need to be addressed to ensure you pass your PCI 4.0 audit. Now is the time to interpret the changes and determine how PCI 4.0 clarifications and added requirements impact your organization.

The full summary of changes can be found on the PCI Security Standards website: www.pcisecuritystandards.org/document_library/

CSP NEWS

CSP ADDRESSES COMPLIANCE AND SECURITY VULNERABILITIES WITH NEW SOLUTIONS

NonStop systems have captured sensitive information for as long as they have been deployed. Since the PCI DSS standard has emerged, its goal has always been to protect card holder's data to ensure the information is not compromised.

CSP has been at the forefront of security for NonStop users, delivering industry-leading solutions that ensure organizations remain compliant and adhere to PCI DSS standards.

Standards, mandates, and directives may not be universally adhered to across all regions. However, organizations must ensure that the sensitive information captured by NonStop applications will not be compromised as long as the appropriate security tools are in place.

There were many headlines in 2022 that drew a lot of industry attention to the topic of security, particularly to the presence of Ransomware and the resultant need to know all about who is accessing your systems and applications.

Increasingly, this has spotlighted the need to pursue greater protections, with many different security models being discussed. Perhaps the most discussed approach is Zero Trust. For CSP, this isn't surprising to see as it has become a cornerstone of

CSP development for some time, and the response from the NonStop community has been positive.

CSP is not alone in emphasizing the importance of implementing a zero-trust model. Discover Europe 2022 was recently held in Frankfurt, and HPE addressed its approach to Zero Trust Security. "Essentially, the Zero Trust security model replaces faith in the integrity of secure network perimeters (such as private networks, firewalls, and VPN/VPC) with that of the individual software systems that manage critical data," is how HPE defines Zero Trust.

Read the full article at the CSP Website:
www.cspsecurity.com/blog/compliance-and-security-vulnerabilities/

NONSTOP SECURITY WIKI

COMPLIMENTARY ACCESS TO THE CSP WIKI FOR NONSTOP SECURITY

For complimentary access to CSP-Wiki®, an extensive repository of NonStop security knowledge and best practices, please visit:

wiki.cspsecurity.com

eBITUG 2023

TUESDAY 16TH MAY
DRAFT AGENDA

E-BITUG
European NonStop Symposium
EDINBURGH 2023 bitug.com

Sheraton Grand Hotel
1 Festival Square, Edinburgh, EH3 9SR

Tuesday May 16th 2023 Draft Agenda

Start	Duration	End	Track #1 Glamis Suite (30)	Track #2 Braemar Suite (30)	Track #3 Culzean Suite (30)	Track #4 Edinburgh Suite (Plenary)
08:30	00:30:00	09:00	Event registration (badge pickup) and Refreshments - Registration Desk / Exhibition Area			
09:00	00:15:00	09:15	Event Welcome Day 1 — BITUG Committee			
09:15	00:45:00	10:00	Keynote Day 1 — Philippe Evans - Iron Man			
10:00	00:05:00	10:05	Changeover			
10:05	00:40:00	10:45	HPE Plenary - Teresa Sorg & Neil Davis — Strategy & Direction			
10:45	00:15:00	11:00	Morning Coffee and Networking - Sponsored by: Insider Technologies			
11:00	00:35:00	11:35	Plenary - Richard Buckle NTI — Continuous Adaptation			
11:35	00:05:00	11:40	Transit			
11:40	00:30:00	12:10	User presentation - Jeroen Wallaard & Jan van der Lelij — HPE NonStop Systems Management using Azure DevOps & Ansible	Vendor Breakout - Paul Holenstein Gravic — HPE Shadowbase — Digital Resilience, Data Integration, and Data Validation for HPE NonStop Systems	Vendor Breakout - Manpreet Singh ESQ — DataEdge For NonStop – Streaming Analytics & Monitoring for Financial Transactions	
12:10	00:05:00	12:15	Transit			
12:15	00:35:00	12:50	Plenary - Mirko Buzolitch & Karl Gilbank ETINet — Significantly Improve the Overwatch of your NonStop Systems & Using Backbox for Ransomware Protection			
12:50	01:00:00	13:50	Lunch - Sponsored by: TBD			
13:50	00:30:00	14:20	User presentation - Yogesh Teli — Base24 ATM Active-Active BC with Shadowbase	Developers Chat 1 — Lars Plum HPE	Vendor Breakout - Shiva Subramanian TCM — vNS to InfiniBand and Beyond	
14:20	00:05:00	14:25	Transit			
14:20	00:35:00	14:55	Plenary - Sean Bicknell & Greg Swedosh - 4Tech Software — Regulatory Compliance and your HPE NonStop			
14:55	00:05:00	15:00	Transit			
15:00	00:30:00	15:30	Vendor Breakout - Opsol — Customer experience implementing Omnipayments	Vendor Breakout - Vedant Shrivastava Idelji — Automated Open Ops. Payment Monitors. Smart Analytics	Vendor Breakout - Michelle Butterworth & Carlos Larranag Inetco — 0	
15:30	00:05:00	15:35	Afternoon Tea, Coffee and Networking - Sponsored by: Xypro			
15:35	00:40:00	16:15	HPE Plenary - Prashanth Kamath — HPE NonStop futures – Mission Critical Platform for a Hybrid IT environment			
16:15	00:05:00	16:20	Changeover			
16:20	00:30:00	16:50	HPE Breakout - Franz Koenig — Art of the Possible Part I - Modernising through APIs and Middleware			
18:00	00:30:00	18:30	Walking Guide to Gala Event			
18:30	05:00:00	23:30	Gala Dinner — The Caves Edinburgh with Tom Morley (ex Scritti Politti) Entertainment			

EBITUG WEDNESDAY 17TH MAY
DRAFT AGENDA

E-BITUG
European NonStop Symposium
EDINBURGH 2023
www.bitug.com

Sheraton Grand Hotel
1 Festival Square, Edinburgh, EH3 9SR

Wednesday May 17th 2023 Draft Agenda

Start	Duration	End	Track #1 Glamis Suite (30)	Track #2 Braemar Suite (30)	Track #3 Culzean Suite (30)	Track #4 Edinburgh Suite (Plenary)
08:30	00:30	09:00	Event registration (badge pickup) and Refreshments - Registration Desk / Exibition Area			
09:00	00:15	09:15	Event Welcome Day 2, BITUG Committee			
09:15	00:45	10:00	HPE Plenary - Prashanth Kamath — Establish a secure and resilient operating environment on HPE NonStop			
10:00	00:05	10:05	Changeover			
10:05	00:35	10:40	Plenary - Rick Stather & Andy Vasey TCM — How InSight stops Oversight			
10:40	00:15	10:55	Morning Coffee and Networking - Sponsored by: ETINet			
10:55	00:40	11:35	Plenary - David Lock & Andrew Price Comforte — Kafka integration on HPE NonStop - a use case			
11:35	00:05	11:40	Transit			
11:40	00:30	12:10	User presentation - Daniel Thiel Kyndryl — System Monitoring with Web ViewPoint Enterprise and Local Analyst	Vendor Breakout - Paden Holenstein Gravic — Shadowbase Validation Architecture to assist with Ransomware elimination	Vendor Breakout - Gustavo Cavazos NuWave — LightWave Client & Server	
12:10	00:05	12:15	Transit			
12:15	00:35	12:50	Plenary - Steve Tcherchian Xypro — Identify, Protect, Detect - A ZERO Trust Approach to Ransomware Protection			
12:50	01:00	13:50	Lunch - Sponsored by: TBD			
13:50	00:30	14:20	Developers Chat 2 — Lars Plum HPE	Vendor Breakout - Henry Fonseca CSP — Vulnerability Management & Compliance for NonStop Systems	HPE Breakout - Franz Koenig/Frans Jongma NonStop SQL and friends - the best choice for the Cloud (TBD)	
14:20	00:05	14:25	Transit			
14:25	00:35	15:00	HPE Breakout - Franz Koenig — Art of the Possible Part II - Modernising Development & Deployments			
15:00	00:15	15:15	Afternoon Tea, Coffee and Networking - Sponsored by: Xypro			
15:15	00:30	15:45	HPE Breakout - Iain Liston-Brown/Prashanth Kamath — HPE Showcase - The Manageability story			
15:45	00:05	15:50	Transit			
15:50	00:30	16:20	Plenary — HPE Executives Q&A			
16:20	00:05	16:25	Changeover			
16:25	00:15	16:40	BITUG Committee — Roundup of conference, Thanks, Prize Giving and Intro to GTUG for next ETBC			

XYPRO NEWS

STEVE TCHERCHIAN'S 2023 CYBERSECURITY PREDICTIONS: WHAT TO EXPECT IN THE COMING YEAR

As we enter 2023, the cybersecurity threat landscape evolves and expands. From the rise of IoT cloud-based attacks to an increased focus on edge computing and IoT devices, organizations must stay vigilant in their efforts to protect against cyber threats. As technology continues to advance and becomes smarter and more automated, it is important to stay ahead of potential threats and understand the latest trends in cybersecurity. In this article, we will examine the top predictions for the 2023 cybersecurity landscape.

1. Cybersecurity Consolidation

Over the last decade, the cybersecurity market has become a crowded space with solutions for just about every vulnerability or threat. Over time we created a boundless sprawl of technology; shelfware, overlapping functionality, gaps in vendor's offerings, manual effort, and lack of training and resources has resulted in more of a problem rather than solving one. The need for consolidation is long overdue.

Cybersecurity consolidation refers to the integration and centralization of multiple cybersecurity tools and solutions into a single, unified platform or suite. The goal is to improve the efficiency and effectiveness of cybersecurity operations by streamlining the management of security technologies and reducing the complexity of security architecture. This is achieved by integrating a range of tools and solutions, such as firewalls, intrusion detection and prevention systems, security information and event management (SIEM) solutions, and vulnerability management tools.

Cybersecurity consolidation has numerous benefits. Firstly, it reduces costs and minimizes duplication of effort, as organizations no longer have to manage disparate systems. Secondly, it can improve security visibility, as all security data is aggregated and analyzed in a single location. This helps organizations identify and respond to security threats more quickly and effectively. Consolidation also improves the efficiency of security operations, as security teams can manage and respond to incidents from a single console, reducing the need for manual intervention and streamlining security workflows. Finally, all those benefits of cybersecurity consolidation mean the money spent on cybersecurity is more effectively applied.

> "Real-time security monitoring and alerting on anomalies is a must. There is no excuse not to know what is happening in your IT systems in real-time."

2. API Security

In 2021, as part of their lawsuit settlement, T-Mobile committed to a $150 million initiative to improve its cyber security. In January, they disclosed another mega breach of 37 MILLION customer records, including addresses, emails, phone numbers, dates of birth and more. You're probably one of the victims.

This particular breach was not discovered for more than a month. The threat actor was taking advantage of flaws in T-Mobile's APIs. This suggests that T-Mobile is not using widely available, modern security monitoring and detection methods.

APIs are used everywhere, especially by Cloud Service Providers, to access and manage "as a service" offerings. As more workloads migrate to the cloud, API security becomes paramount. API security weaknesses lead to unauthorized access to data and resources, or to malicious attacks, such as data manipulation or injection attacks.

API abuse will continue to be a challenge in 2023. Solving one problem with technology and modernization can reveal another. If you're not yet securing and monitoring your APIs, start with the basics.

Read the full article here:
https://xypro.com/enterprise-identity-access-management/xypros-2023-cybersecurity-predictions-what-to-expect-in-the-coming-year/

TANDSOFT NEWS

TANDSOFT EXTENDS COMPARE-AND-REPAIR SOLUTION TO ACTIVE/ACTIVE ENVIRONMENTS

As they look to meet today's demands for 24x7 service, it is getting increasingly common for teams to run HPE NonStop systems in an active/active configuration. In an active/active environment, multiple distributed processing nodes operate in support of a common application. In active/active environments, it's essential that different nodes are kept in synch at all times. However, to date, teams have lacked a commercial solution to support this synchronization in these environments.

FS Compare and Repair offers fast, advanced capabilities for ensuring data consistency between databases. The solution can validate and repair HPE NonStop Enscribe files, OSS files, and SQL/MP and SQL/MX tables. To date, customers have typically used the solution in environments in which a production server is being compared against a disaster recovery (DR) system. Now, teams can also use the solution to ensure nodes are kept in synch in active/active environments.

To learn more:
https://tandsoft.com/pdf/Bitug-spring-2023-fs-compare-repair-active-active.pdf

Hewlett Packard
Enterprise

HPE NONSTOP NEWS

L22.09 RVU for the NonStop Mission Critical OS is generally available. This introduces a number on features:
• DP2 volume size of 1.6TB on any NonStop X system
• Expansion of vNS volume disk size via the vNS App
• vNS deployments using vSAN datastore to utilise the vSAN fault tolerance feature
• OSS shared memory segments increased from 1000 to 4000 per CPU
• A new Automatic Weights Reconfiguration algorithm in TS/MP
• SQL/MX 3.8.1 with enhanced management features, new features for PL/MX and support for native BLOBs and CLOBs data types in ODBC/MX
• Use of AES-NI x86 instruction set in NS SSL for better throughput
• Additional 256 and 512 Diffie-Hellman algorithms in NS SSH
• Secure Tape AES algorithm enhancements in GCM mode with key sizes of 128 and 256
• Expand line handler and NCP defaults updated to math current recommended settings
A new 1.6TB SSD has been made available to order for NonStop X systems, hard partitionable up to 8 ways, which the new DP2 volume size can support as a single partition.

NonStop API Gateway Update 2 has the following enhancements:
• Support for Kafka endpoints

• Support for service aggregation/orchestration
• Support for multiple TCP/IP providers
• Charset conversion
• Load balance and failover support in Proxy mode

NonStop HTTP Server 2.4 Update 2 has the following enhancements:
• Migration tool to assist migration from iTP Webserver
• Support for HTTP2 protocol
• Support for online upgrade
• Existing SOAP deployments can run as a Pathway CGI application in NonStop HTTP

NonStop Development Environment for Eclipse 12.0 (NSDEE)
NSDEE 12.0 is a plug-in to Eclipse 2022-06 (4.24) and is shipped with C/C++ Development Tooling 10.7 (CDT 10.7) and Xtext 2.27.0.

NonStop Database Analyser 1.4 (NSDA)
New features for this tool to enhance database performance monitoring includes:
• Installation is made easier with a container-based Linux image
• User Interface additions
- Auto-Cancel of queries based on user given criteria or machine learning
- Multi-window support
- Time Range management
- Heatmap enhancements
• NSJ11 support
• Graphing tutorial