We meet once again for the BITUG Little SIG on the 8th of December at the Barclays Bank, Canary Wharf offices

CHAIRMAN'S ADDRESS
Welcome to the Autumn 2022 BITUG Newsletter

Welcome to our Autumn 2022 newsletter, reaching publication a little later than planned due to the extraordinary business demands currently being experienced by all of us on the Committee and across the wider business world, including, not surprisingly, amongst the HPE NonStop community.

As we race headlong into the final weeks of what has been a very uncertain year, we look forward together with increased optimism, a positive outlook and hope, at the continued passing of the remaining remnants of COVID, its variants and the resultant far reaching implications.

Optimism, is enhanced by the new world of work that has emerged, the changed working practices and increased freedoms of not just 'working from home', but 'working from anywhere', providing a wider work / life balance for more and more of us, whilst still delivering the value and contribution that our employers require.

Whether fuelled primarily by optimism, or by the pent up demand from the uncertainty of the past two years, we in the HPE NonStop world are in the centre of a business explosion, a business frenzy, challenging but exciting, in a hedonistic mix of enhanced system protection, upgrade and expansion.

Against the daily mix of on-line conference calls, virtual meetings, bulletin boards, e-mail and the like, many of us also now seek opportunities to return to some direct human interaction, a return to physical meetings and the opportunity to network in a more relaxed environment than communication through a display monitor and microphone will allow.

We received very positive feedback from so many of you after the London BITUG meeting back in June and the number who attended the event was a strong indicator of just how ready our community is to get back together again.

With thanks to Barclays Bank for their kind hospitality, we meet once again for the BITUG Little SIG on the 8th December at the Barclays Bank, Canary Wharf offices. More details are covered elsewhere in this newsletter and an agenda will follow soon. We look forward to seeing you there!

Kind Regards

John Bycroft
BITUG Chairman 2022

4TECH SOFTWARE NEWS

ALL NEW FORMAT-PRESERVING TOKENISATION SOLUTION

HPE NonStop security and compliance specialist, 4tech Software, is very pleased to announce news of its latest security solution: HPE Tokenator™.

HPE Tokenator uses proprietary data-intercept technology. Application data is intercepted before it is written to disk and is converted into format-preserved tokens – desensitising it and rendering it worthless to hackers who might gain access to your application and/or database. By removing sensitive data from your system, you reduce your risk and make it far easier to meet security compliance standards such as PCI DSS.

By using data-intercept and by creating tokens in the same format as the data it's replacing, your application and database require no changes, making deployment fast and relatively simple.

While we anticipate most users would deploy HPE Tokenator to desensitise payment card data, users can define what type of sensitive data they would like to protect with format-preserved tokens. Other typical examples could include: social security numbers, national insurance numbers, telephone numbers, passport numbers, healthcare records etc.

HPE Tokenator is 100% NonStop based (no additional external hardware required) and has been developed with a keen eye on optimising the performance of the solution at every stage. This ensures minimal latency.

HPE Tokenator key features include:
• Strong, industry standard, cryptographic algorithm support: AES-256, SHA-256
• Flexible and customisable cryptographic key management
• Format-preserving encryption including support for custom/specialised tokenisation patterns
• Rapid deployment with no application or database changes: Intercept technology eases implementation and reduces complexity
• HPE NonStop based solution: no external systems required

HPE Tokenator is now released under controlled availability. If you'd like further information, please contact: sean.bicknell@4techsoftware.com and he will connect you with the relevant team at HPE.

If you're at TBC, join our presentation at 13.00 on Tuesday 8th in Regency C to learn more.

NONSTOP DIARY DATES

CONNECT NONSTOP TECHNICAL BOOT CAMP

DATES: 8-10th November 2022
VENUE: Hyatt SFO Airport, Burlingame, California
DETAILS: www.NonStopTBC.com

BITUG LITTLE SIG

DATE: 8th December 2022
VENUE: Barclays, Canary Wharf
DETAILS: www.BITUG.com

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eBITUG 2023

DATE: 15-17th May 2023
VENUE: Sheraton Grand Hotel, Edinburgh
DETAILS: www.BITUG.com

BITUG Little SIG '22 PREVIEW

BITUG IS PLEASED TO ANNOUNCE WE WILL HOLDING OUR USUAL LITTLE SIG IN-PERSON EVENT AGAIN THIS YEAR.

This will consist of approx. 3 hours of Presentation. This one-day event will take place on 8th December and will be hosted by our good friends Barclays Bank, 5 North Colonade, Canary Wharf, London E14 4BB.

This event is free and open to all BITUG members. Come along for following presentations:
• Latest on NonStop news from the Technical Boot Camp (if you were unable to attend)
• Implementing Multi-Factor Authentication on NonStop by a Customer
• State of the Nation – a view from HPE Europe
• Modernising Security and protecting from Ransomware by HPE
• Various vendor product presentations
• Much more…

We will of course provide you tea/coffee during breaks as well as lunch.

As well as our Annual AGM where we will provide an overview of the BITUG performance, finances as well as to confirm next year's Committee members

We are still working on full agenda, but for now, please visit www.bitug.com/Little-SIG-2022 for further details.

Registration will open from website mid-November. You will need to register to attend so no in-person registration on day allowed due to Barclays Security procedures. We will remind you by a mailshot after TBC.

Start Time	End time	Presentations
09:30	09:40	Welcome
09:40	10:10	State of the Nation (HPE)
10:10	10:45	Implementing Multi-Factor Authentication on NonStop
10:45	11:00	Coffee
11:00	12:00	HPE NonStop Updates from TBC 2022 (HPE)
12:00	12:35	Session
12:35	13:30	Lunch
13:30	14:05	Session
14:05	14:40	Modernising Security and Protecting from Ransomware (HPE)
14:40	14:55	Coffee
14:55	15:45	Session
15:30	15:45	BITUG AGM
15:45	15:55	Closing Remarks

Draft agenda. Please vist the BITUG website closer to the event for the final version

NTI NEWS
UNITY IN DATA COMES WITH DRNET®/UNIFIED

The big news from NTI follows our support of the upcoming NonStop Technical Boot Camp 2022 (#NonStopTBC22) at the premium level of Diamond Sponsorship. Consider this your invitation to participate in this major event for the NonStop community and take time to stop by our booth!

If you missed other news, a Customer Case Study featuring Worldline has been added to the NTI web site and will be featured prominently in the NTI presentation planned for the opening day. This will be a time too where NTI will provide further details on our growing partner ecosystem designed to better meet requirements for data borne on NonStop.

Also on the roadmap for NTI is further development of product packages as part of our DRNet®/Unified product portfolio. If AI/ML and even Swarm Learning are of interest, then you must attend the NTI presentation to hear how this is taking shape to address the complexity that is today the world of financial transactions. And lastly, following the success of the Under 40 SIG, look for a new Tech Forum in-person-meeting to be held in support of Business Integration and Analysis at this year's NonStopTBC22!

https://network-tech.com

XYPRO NEWS

HPE NONSTOP SQL AND XYPRO WHERE MANAGEABILITY AND SECURITY MEET FOR A COMMON GOAL

The database manageability experience is in constant evolution. Not only because of new cloud consumption models but also with managed databases where the end customer is delegating the database administration tasks. This delegation may be to another group within the company, or to HPE GreenLake Managed Services (GMS) or other managed services providers (MSP) including in the public cloud. For many customers, this raises security concerns. Is my data still confidential? In what countries does it travel exactly? Am I losing security governance? How do I trust this new partner with my data? And if a security breach does happen, what are my options to ensure accountability? What do I need to do to achieve the same security level as when the database was in my own datacenter?

Clearly, this transformation calls for absolute security on both the manageability layer and of course the underlying database where the mission-critical data exists such as for payment processing or healthcare records. For example, auditing may ease your mind by allowing you to identify any unwanted action that has been performed. Role-Based Access Control may greatly facilitate the setup of a "service" account that cannot access data yet maintain the database

environment up and running.

But the other key element to realize is how some of those features are required not just for security purposes but also because of the new consumption models and the explosion of user-profiles managing the database. It is one of the first discoveries you make when you look at implementing something like database-as-a-service (DBaaS). In a DBaaS environment, end-users deploy their own semi-virtual database in a self-service fashion. Commonly referred to as tenants, they oversee their mini replica of a database instance but with a simplified set of generic database functions. In another scenario, like a managed database, even if you do not use multi-tenancy, you may need another group to service your database, so yet another profile type that is not your typical, highly powered DBA. And beyond DBaaS, analytics calls for more new profiles such as data scientists creating new data products. At this point, it becomes obvious that database management is a very different task depending on who you are.

SQL Database Management that is Modern and Secure

For HPE NonStop SQL, SQLXPress from XYPRO is the most secure and functional NonStop SQL database management solution. Consider SQLXPress the Microsoft SQL Management Studio for SQL/MX. SQLXPress comes with a comprehensive set of security controls, which include:
• Multi-Factor Authentication
• Auditing
• Access Control
• Session Encryption
• Code Integrity

To read the full article, visit
https://tinyurl.com/44pm695k

HPE NONSTOP NEWS

Base24 and Connex monitoring
Base24 and Connex monitoring plug-ins for HPE Web ViewPoint Enterprise.

Web ViewPoint Enterprise provides automated operation management for NonStop systems. HPE is now offering optional monitoring plug-ins for Base24 and Connex payment applications. With these plug-ins, Base24 and Connex applications can be monitored from the Web ViewPoint Enterprise dashboard. The new plug-ins allow users to create their own profiles and customize their dashboards to view Base24 and Connex metrics. Each user can dynamically modify, select, and choose their own dashboard. Furthermore, alert conditions can be defined on any available metrics using the Web ViewPoint Enterprise user interface.

HPE Compliance Pro
HPE Compliance Pro has been replaced by HPE XS1 Compliance Module.

HPE NonStop XYGATE Compliance PRO (XSW) enables customers to secure and monitor their NonStop systems for compliance to standards such as PCI-DSS, HIPAA and GDPR.
The support status of HPE NonStop XYGATE

Compliance PRO for NonStop L-series platform will change from ACTIVE to MATURE effective 1 March 2023. On the earlier generation of HPE NonStop platforms (H and J series), the product is already in MATURE or later levels.

The XS1 Compliance Module, a part of the XS1 suite, provides a modern and automated way to monitor and report on compliance, significantly reducing the manual effort and time needed from your staff to achieve regulatory compliance. HPE recommends to use or upgrade to the XS1 Compliance module to meet the compliance management and monitoring requirements on their NonStop systems going forward. XS1 will receive future R&D investments in the form of new features and capabilities. The XS1 Compliance Module also includes File and Object monitoring for real time file and system integrity monitoring.

NSMQ 5.16
NSMQ 5.16 is a port on NonStop of the popular open source Java Messaging Service (JMS) based software Apache ActiveMQ version 5.16.1.

NSMQ 5.16 is to be deployed on NSJ 11 or its updates. NSMQ 5.16 supports durable

Verify Elite®
File Integrity Monitoring & Compliance Reporting

GRAVIC NEWS
HPE SHADOWBASE AT TBC

HPE Shadowbase – What's New in '22?
Learn about new HPE Shadowbase features to solve enterprise challenges in Business Continuity, Data and Application Integration, Zero Downtime Migration, and Compare and Repair.

New Data Integrity Architectures for Mission Critical Systems
We focus on new innovative HPE NonStop and ProLiant Server architectures and technologies that maximize reliability and data integrity.

Central Bank of Oman Dramatically Improves its Payment Switch's Availability
TCM reviews the bank's project goals, requirements, aggressive timeline, and "gotchas," including the ultimate architecture and products selected.

HPE Business Continuity Product Update
Hear about new HPE Business Continuity products that continuously maintain the availability of data and applications on HPE NonStop Systems.

Hewlett Packard Enterprise globally sells and supports Shadowbase solutions under the name HPE Shadowbase. For more information, please contact your local HPE Shadowbase representative or visit: www. ShadowbaseSoftware.com

HPE NONSTOP NEWS cont.

receivers/subscribers for topics in a non-clustered environment. All the features of the previous version NSMQ 1.2 continue to be available with NSMQ 5.16

To preserve backward compatibility, NSMQ 5.16 supports clients based on both Java SE 8 and Java SE 11. It also supports other Java Virtual Machine versions 8 and 11 that are compliant to the corresponding OpenJDK version.

NSASJ 17

HPE NonStop Enterprise Division (NED) is pleased to announce the General Availability of NonStop Application Server for Java 17 (NSASJ 17) for HPE Integrity NonStop X, Virtualized NonStop and the Virtualized Converged NonStop systems.

NSASJ 17 is a value added port of Wildfly 17.0.1 Application Server which is compliant with JEE 7 full profile specifications. NSASJ 17 is to be deployed on NSJ 11 or its updates. An important enhancement to the Servlet specifications is the adoption of the feature "Server Push" defined in the HTTP/2 protocol. Upon receiving a client's request, a servlet application "pushes" the information about the resources that the client will require to display the response webpage. This information is sent in advance of the webpage response itself thus saving time when the actual webpage arrives at the client. Scripting to deploy JDBC T2 and T4 drivers as well as NSMQ resource adapters along with simplifying the creation of JBBS T2 and T4 data sources are featured.

HPE NonStop Sentinel Software

HPE NonStop Sentinel is an operations and service management software for HPE NonStop systems. It is built on a highly advanced architecture that is object-based and provides monitoring of systems, networks, hardware, subsystems, processes, files, EMS log messages, and even third-party applications.
HPE Shadowbase 6.700
HPE NonStop Shadowbase is a comprehensive suite of software products that address all aspects of data replication and data and application integration and validation for business continuity and other purposes. Note a new license file is required. Enhancements include:
• SBMAP for Enscribe and SQL/MP is supplied (previously this was achieved by user exits).
• Compare enhancements for SQL/MP and

SQL/MX are included.
• Reduced frequency of Julian Timestamp procedure calls improves performance
• PostgreSQL is supported as a target database
• CHECKDBS is included to validate Shadowbase configurations
• SBCREATETP generates a Create Table command and correct DDL for any supported SQL target table
• SBMON configuration parameters can be overridden for bi-directional SQL/MX environments

NSDEE 12.0 Generally Available

NSDDE is a Windows PC-based IDE for NonStop developers and a plugin to Eclipse. NSDEE is a plugin to Eclipse 2202-06 (4.24) and is shipped with C/C++ development tooling 10.7 (CDT 10.7) and Xtext 2.27.0, the release has also solved a few issues with Telnet connections.

NonStop OS L22.09 RVU

Deployment enhancements to Virtualised NonStop are included in this release.
OSS shared memory segments per CPU has been increased 4x.
The OSS PUT library performance has been improved.
NonStop API Gateway has improved load balance and failover, Kafka endpoints, Service Aggregation and Orchestration and support for multiple TCP/IP providers.
HTTP Server 2.4 Update 2 has been released with support for the HTTP2 protocol as well as a migration tool to assist migrations from iTP Webserver, on-line upgrades, integration with NS SOAP 4.1 and a new management CLI.
NSJ11 based upon OpenJDK 11.0.15 has been released.
NonStop TS/MP has automatic weight reconfigurations (AWR) that assist fail-over, fall-back and rebalancing.
SQL/MX 3.8.1 enhances schema ownership transfer, new PL/MX features and native BLOB and CLOB data types.
In NonStop Security the OpenSSL Library, SSL, SSH an SecureTape environments have been improved with features such as new cyphers use of the x86 instruction set for performance and further enhancements to Safeguard management.
NonStop servers for all L series systems now support 1.6TB volume partition size.

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