

January 2017 LUG Meeting Agenda and Abstracts

Agenda

This document contains the agenda for the January 2017 LUG meeting.

Dates: 22 January 2017 through 27 January 2017

Times: **Sunday Evening**

- **6:00** PM meeting preview and 1st-time attendee meeting.
- **7:00** PM Reception.

Monday through Friday sessions and breakouts - IBM site

- 6:45 AM to 7:45 AM breakfast daily.
- 8:00 AM meeting start daily except Wednesday.
- 7:00 AM start on Wednesday with an early morning breakout.
- 5:00 PM close Monday, Tuesday and Thursday.
- 6:00 PM close Wednesday.
- 11:00 AM close Friday.

Evening Events

- Monday dinner
- Wednesday Ask the Experts
- Thursday dinner

Location: **All Monday through Friday sessions and breakouts** are at the IBM Executive Briefing Center in Rochester, MN.

Dress code: Business casual

More: Titles shown below are abbreviated to save space.

P13	January 2017 Meeting Planner Focus = Strategy, Security, Storage																
Sunday		Monday January 23		Tuesday January 24		Wednesday January 25		Thursday January 26		Friday January 27							
Time	Track 1	Track 2	Time	Track 1	Track 2	Time	Track 1	Track 2	Time	Track 1	Track 2	Time	Track 1	Time			
6:45	Registration & Breakfast	Welcome	6:45	Breakfast	Storage Options for IBM i	6:45	Breakfast	Anatomy of a Password	6:45	Breakfast	Power Systems Business Update	6:45	IBM i Strategy and Update	6:45			
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10:15	Power Processor Architecture: Strategic Competitive Trends	International Members	10:15	DS8K Update	IP Packet Filtering Rules	10:15	Security Remediation	DS8K and CSM	10:15	LUG Business	Attendance Required for LUG members	10:15	June LUG Preview	10:15			
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3:00	High Availability Update	Top Security Risks Auditors Complain About	3:00	IFS Security	Power Processor Hardware Plans	3:00	Special Interest	Tours	3:00	IBM Executive Feedback	Network Security	3:00	Closing	3:00			
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Abstracts

Color Coding
Yellow cells are main tent presentations
Green cells are breakout presentations

Sunday, January 22, 2017

Session Title	Abstract
LUG New Member Orientation	This session provides the first time attendee and experienced LUG members with an overview of what to expect during the week, LUG operations, and the web site. The focus is on actions you should take during the week.
LUG Member Reception	This is an opportunity to have informal discussion with other LUG members, renew old acquaintances, and meet some of the IBM development team. There are no presentations, no agenda, just discussion, refreshments and hors d'oeuvres.

Monday, January 23, 2017

Session Title	Abstract
Registration and Breakfast	Things to do on arrival at the meeting this morning: <ul style="list-style-type: none"> • Pick up your registration packet • Meet your IBM Advocate ... be sure to contact them before the meeting • Find a place to sit near the front • Pick up a communicator for voting and asking questions
Welcome and Introductions	This session will include important information and administrative details about the meeting, including <ul style="list-style-type: none"> • Logistics for the week • Introduction of LUG board • Introduction of new LUG member companies • IBM executive welcome
Technical Trends and Impact on IT Infrastructure Brad Brech	A new wave of core technologies continue to transform the IT industry. These impact an organization's strategic direction, plans and initiatives. This session will explore some of the key trends in cloud and cognitive technologies impacting IT. Join us for this session to understand which trends you cannot afford to ignore and which require adoption and investment.
Break and Networking	
Power Processor Technology and Architecture: Strategic Competitive Trends William Starke	This session will review the differentiated capabilities of POWER processor offerings in light of semiconductor technology trends, highlighting IBM's competitive position now and moving into the future.
Storage Overview	This session is a high-level overview of the IBM Storage Portfolio.
Lunch	
International LUG Member Discussion	Discussion with the LUG board and other LUG members from outside the USA.
What's New in DB2 for i Scott Forstie	This session will cover planned database enhancements. Database enhancements are delivered via the DB2 PTF Group SF99702 (IBM i 7.2) and SF99703 (IBM i 7.3) and scheduled to coincide with Technology Refreshes (TRs). DB2 for i continues to deliver new SQL programming capabilities, DBE improvements, IBM i Services and other high priority enhancements. This session will provide LUG with a members-only glimpse into the database future.
How to Make IT a Competitive Differentiator for your Business Roger L Bales	Cloud based cognitive business is little more than industry buzzwords unless it strongly supports business objectives. This session, presented by an executive consultant who has coached CIOs and filed for a patent on her strategy methodology, discusses practical approaches to aligning IT with business goals so that IT is seen as a competitive differentiator in which the business should invest versus pure cost to cut. Topics covered will include marketing IT to business leadership, selling IT to the C-Suite, developing the CIO's and IT leadership team's eminence as well as practical approaches to IT Strategy and IT resource deployment for maximum business impact.
The Top Security Risks Auditors Complain About and How to Tackle Them Thomas Barlen	There are typical security risks that Lab Services consultants find in almost every security assessment. Several of these findings are also risks that auditors complain about. It is not always obvious what security mechanisms and features can be used to address the identified risks. This session lists the most important issues and common misconceptions and shows how to address them based on feasible best practices.
Break and Networking	
High Availability Update Kristopher Whitney	Kris will take the LUG through the latest on IBM i High Availability.
LUG Strategy Teams	The LUG strategic work groups will meet.
Dinner	This is an opportunity for informal discussion with other LUG members, IBMers who are giving presentations, and the IBM development team. You should contact your IBM i advocate or premium services contact to meet you for dinner.

Tuesday, January 24, 2017

Session Title	Abstract
Storage Options for IBM i Alison Pate	External disk presents new options for IBM i but sometimes the choices may seem overwhelming. This presentation describes the alternatives for exploiting IBM disk systems with IBM i. Both direct attached and VIOS attached solutions will be discussed. Learn how external disk can meet the high performance requirements demanded by IBM i, about how best to exploit Flash with IBM i, and hear about the integrated high availability solutions that the IBM i provides to exploit the copy services functionality of the IBM storage systems.
FlashSystems Strategy and Roadmap Brent Yardley	This session will discuss IBM's positioning in the AFA landscape, a high level overview of current product offerings across the storage portfolio, why IBM FlashSystems is different, along with a look at the current FS900 and V9000 product offerings. It will also introduce the A9000 product and go into details as to what new it offers for all flash arrays. The session will also look at where IBM is heading in the next year for our FlashSystem offerings.
Single Sign-on Implementation Best Practices Thomas Barlen	The IBM i single sign-on (SSO) support has been around for many years. More and more companies leverage the SSO support to provide more convenience to users, but also to lower administration cost and improve security. This session starts with a brief overview of the current SSO support. It will then show based on a few typical environments how to plan and perform the SSO deployment to a mass of workstations and how to automate typical administration tasks.
Break and Networking	
DS8K Strategy and Roadmap Clint Hardy	This presentation will review the latest enhancements and upcoming plans for the DS8K product family.
IP Packet Filtering Rules Robert D Andrew	This presentation discusses the considerations and implementation details necessary for using the IBM i's built in firewall. Corporate firewall out of your control? Not providing enough protection? Want to limit access only TLS secure communications? Or do you want to limit services to only certain sources or targets? Then this is the session for you! Come and learn how to setup these rules and learn about the potential pitfalls to ensure a successful roll out.
Tape Portfolio Renan Jeshua Ugalde Amezcua	This session is a technology update of the Tape portfolio. We will go through the latest capacity improvements, performance and understand the importance of Tape in your data centers.
Using DB2 Web Query to consume DB2 for i OLAP and Services Extensions Doug Mack	With the new 7.3 OLAP and Stats extensions to the SQL language, you can create powerful reporting solutions leveraging advanced analytics built into DB2 and consumable by DB2 Web Query. In addition, IBM i Services advances in the last several releases (and TRs) make it very easy to create visualizations over system utilization, PTF, and other pertinent information used by the System Administrator. This session will cover how to do this in addition to new DB2 Web Query "load and go" templates and installation procedures.
Lunch	
First Time Attendee Discussion	Join other first time LUG conference attendees to share your experiences with the LUG board.
Member Minute with PowerSC Tools	In 2016, the IBM Lab Services Security Team collaborated to bring new security solutions online for enhanced security monitoring and compliance. Join this informative session on the challenges encountered and the partnership that enabled an improved security posture.
Spectrum Virtualize Roadmap Christopher Bulmer	A discussion on the recent releases of Spectrum Virtualize and an overview of what's coming up in the next few releases for Spectrum Virtualize, SAN Volume Controller and Storwize products.
Network Security Timothy D Mullenbach	A range of networking related security considerations including enhancements added by the IBM i networking team in the 7.1, 7.2, and 7.3 operating system releases is covered. <ul style="list-style-type: none"> • 7.3 Auditing enhancements for TCP/UDP/TLS/VPN/IPsec • Current state of TLS in the industry and on IBM i. • SNMP considerations VPN capabilities
Break and Networking	

IFS Security Margaret Fenlon	This presentation covers fundamental and advanced security topics designed to help you manage and improve the security of your integrated file system (IFS). Topics include the IFS security semantics (blending of UNIX, PC, and IBM i security), IFS security management, controlling remote access, virus scanning, and more.
Power Processor Hardware Plans William Starke	This session will provide a processor technology overview spanning semiconductor technology, processor micro-architecture and features, and system structure enablement for the future.
LUG Strategy Teams	The LUG strategic work groups will meet.

Wednesday, January 25, 2017

Session Title	Abstract
Anatomy of a Password Robert D Andrews	Have you thought about the passwords you use on your systems? What rules or restrictions do you have in place? But more importantly, why?! Have you ever thought about what those rules actually do to your passwords? Do you think they are making you more secure or less secure? In this presentation, we will cover passwords in depth, in theory, and specific to IBM i. Can your IBM i password be hacked? Come and find out at this inquisitive session!
Client Experience Survey Results Mike Edmonds	We've held a Client Experience survey at the past two LUG meetings and now it's our turn to let you know the results of your input and what actions are being taken based on your feedback.
The Holes in Our Knows Westley P Mcduffie	<p>Domains Addressed: Telecommunications Network Security/Security Architecture and Design</p> <p>Network communication via Ethernet, Fiber, WIFI, and Virtual all pose a threat to the infrastructure. This is not to alarm or scare you. Likewise, so do applications, user and even ourselves. We know, what we know. It's what we don't know, mixed in with what we do know. The holes in our knows.</p> <p>As a security practitioner, the mantra has always been "the holes in our NO's" "we have always been about NO. We can longer afford to be the group of NO, masquerading as KNOW, we must know. Operating systems on Client/Server are getting more secure, applications (primary) are becoming secure. Many 3rd party application are not. Many infrastructures including the IBMi are not. It's not by design, but by implementation.</p> <p>In 2015 Mr. Bart Kulach decided it was high time to show the world even the "i" wasn't totally secured which garnered a response from Carol Woodbury. Mr. Kulach not only released his finding at the world's largest hackers conference, he cited sources to other whom have done the same thing. Unless you were there, let it stay there. What is unique about the fact is that to mainstream client server teams is that IBMi is not dead. It poses security threats no more, (no less) based on implementation. Security is there, you just should (MUST) use it. Not only is it not dead, it uses some of the same attack vectors, and ALL the same attack mythologies. Weakest link, privileged escalation, enumeration, exploiting known and weak cyphers in 3rd party applications. If you don't believe me, come to DEFCON.</p> <p>What is the default user name and password set on IBMi? How many of you changed them? In 2014 an independent audit of IBMi among the customer count was greater 50% still used default password config. A well-documented risk in IBMi security configurations is the use and regulating of ALLOBJ authority, yet during the audit an over use of this privilege. (because if we take it away it will break something.) Again we know the difference between right and wrong, yet...lack of monitoring –here is where your SIEM comes into play, WHO is logging in, who is failing at log in, across the system and is there a place where it is documented? Better yet what do you have in place locally to track whom is doing what and to where?</p> <p>Virus's (VIRI) yes the IBMi is immune to Windows virus –but it is a carrier. Meaning that windows machine connecting to, running in the IBMi environment can still contract what is floating around. Less than the bulk of you are scanning IFS when you open files. It's simple to do, it takes less time to scan, that in it does to infect the entire infrastructure.</p> <p>We know better than to leave default accounts, we know better to leave escalated privilege, we know we show virus scan, we know we should have logging repositories, a SIEM or correlation engine, but for many these are the holes in our knows.</p>

FlashSystems Deep Dive Brent Yardley	This session will cover additional technical information on IBM FlashSystems; the abstract will be updated closer to the meeting with additional details.
Break and Networking	
Ignorance Isn't Bliss, but it is Reality... Westley P Mcduffie	<p>Judges despise it in their courtrooms. Ignorance of the law is no excuse, but it is reality. The ignorance clause works well when the law is defined. When it is not defined however, ignorance takes center stage and many times gives an encore sans curtain calls.</p> <p>Executives who shoot straight to some report; how many actually know the testing criteria for the report they read? How many care, but are dead eyed on the upper right corner. Why, because that's where some "all knowing report" says to look. Where was the critical thinking? We are always searching for something easier for us as professional to work with, I'm guilty of it. I enjoy IT "eye candy", who doesn't? We get lost in the GUI we get lost in the ease of use. What we have really lost is our sense of curiosity. Where are our tinkerers, our hackers, our inquisitive minds wanting to know more?</p> <p>To get further into removing ignorance from our excuses, we will conduct a brief historical review, we will expose some areas in network security trends, and where retail fits into the mix.</p> <p>In closing; there is a simple approach to the madness. Protect the data. Learn that we do not own the risk, we are to manage it. Learn our respective tradecrafts, share information, implement controls which still allow the network to function. Worry about your vulnerabilities and not those exploits, remove those stove pipes between your networking entities.</p>
DS8K and CSM Clint Hardy	IBM Copy Services Manager is a storage replication product that provides a single place to manage all the replication across your IBM storage environment. With IBM Copy Services Manager customers can simplify the management of their replication solutions while providing disaster recovery and high availability to their applications. This session will update you on the latest functionality available for CSM and how can you use it to leverage high availability for your infrastructure.
New PCI-DSS version 3.2 Requirements Jeff Uehling	The Payment Card Industry Standards Council (PCI SSC) published their version 3.2 PCI-DSS document in April of 2016. This document has several new requirements that take effect in 2018. IBM will present their interpretation of these new requirements to the LUG group but will ask each member company to validate, on their own, the interpretation of requirements and how they will impact their organization. The requirements that will be presented are in section 2.3 (TLS 1.2 requirement) and 8.3 (MFA requirement for an admin in the CDE (Card Holder Data Environment) of the PCI-DSS version 3.2 document.
Lab Services PowerHA Tools - What's New Selwyn Dickey	Learn what is new in Lab services high availability offerings.
Lunch	
LUG HUG	This session will be an opportunity for LUG members have a light meal and to discuss topics with other LUG members or any IBM attendees. There are no specific agenda, rather this is an opportunity to voice your opinions, ask questions of other LUG members, and hear what others are doing in areas such as Availability, Database, Security, Storage, RPG, Mobile computing, and more.
Two Factor Authentication and Lab Services Security Overview Robert D Andrews	<p>IBM i Two Factor Authentication: Best practices recommend using more than one factor to secure logins and other critical processes. Using industry standard algorithms, two factor authentication now comes to IBM i. Using this technology, users can also self-service password resets. This session covers one of the latest tools to help secure your IBM i!</p> <p>IBM i Security Services: This brief overview covers the services and tooling offered by IBM Lab Services for IBM i in the area of Security.</p>
Hot Spare Node with Spectrum Virtualize Christopher Bulmer	An introduction to Hot Spare Node with Spectrum Virtualize, including N_Port ID Virtualization functionality, that will improve system resilience and performance during maintenance windows and node failures.
Break and Networking	

Special Interest: Hiking the Appalachian Trail: Choosing The Path of Greatest Resistance from Georgia to Maine Matthew Murtha	Starting late winter of 2016, Matthew Murtha thru-hiked the Appalachian Trail; his journey began at Springer Mountain in Georgia, and ended at the top of Katahdin in Maine. Matthew will speak about what the Appalachian Trail is and why he pursued this months-long trip. He will talk about the planning that went into his trip, the many challenges along the way, as well as the people, places, and animals, encountered while walking 2200 miles. You may have heard of long-distance thru-hiking by reading the books or watching the movies "A Walk in the Woods" or "Wild". In this special interest presentation, hear about thru-hiking first hand from a hiker who completed the entire Appalachian Trail.
Tours	Various tours of the IBM Rochester facility. Space is limited for these tours.
Ask the Experts	Ask the Experts is always gets positive feedback from LUG members. It is your opportunity to meet with the IBM developers, one on one, with no holds barred on the questions. You can often get great suggestions from the IBM folks on ways to solve an issue that you might be having or to learn about some of the newest features and functions just released and some that haven't yet been released. It's also a great way to pitch your ideas for improving the product. There are usually more than 60 tables manned by IBM developers, architects, product managers and others from all aspects of IBM Rochester (many from out of town as well). If you have questions about anything IBM i related, this is the place to raise them.

Thursday, January 26, 2017

Session Title	Abstract
Power Systems Business Update Terri Virnig	Power continues to drive a strategic focus on both the core workloads that clients have deployed (Systems of Record), aligned and extended with new Big Data/Analytics and Cloud workloads. The overall goal is on providing solutions that bring together insights from the full spectrum of data that make up our clients' environments (Systems of Insights). This presentation will cover the latest news about the Power Strategy and Direction.
Marketing Update Susan F Emerick	In 2016, IBM shared with the LUG marketing plans to "Bring sexy back to IBM i". This session gives LUG an update on the marketing work that has occurred since the June 2016 meeting.
LUG Business LUG members only	Possible Topics <ul style="list-style-type: none"> • Operations topics • Financial report • Membership, new member eligibility • Bylaws and policy review • LUG Strategy • Other discussion LUG members will discuss and vote on candidate requirements which were created at least two weeks prior to the meeting. Note: At least one representative from each company must attend the LUG business sessions.
Lunch	
LUG Strategy Teams - Working lunch	The LUG strategic work groups will meet over lunch.
LUG Strategy Presentation	LUG members will present their view their strategic needs for IBM i and Power Systems. The audience is the IBM executive team, management, development leaders, marketing, and interested IBMers.
Break and Networking	
Executive Feedback on Strategy Presentation	At this session, management and technical leaders from IBM will be available for a feedback on the strategy presentation, general discussion, and Q&A.

Break and Networking	
Power Hardware Update Mark Olson	This session reviews recent hardware announcements and then previews future hardware announcements.
The Open Book: Open Source on IBM i Jesse Gorzinski	You may have noticed that IBM i has been embracing open source technologies lately! Come learn about all the things IBM i has done to help the open source community, including the latest round of delivered and planned items for 5733OPS. Also, learn about the IBM i open source community, its growth, and how you can participate.
Dinner	This is an opportunity for informal discussion with other LUG members, IBMers who are giving presentations, and the IBM development team. You should contact your IBM i advocate or premium services contact to meet you for the reception. There will be live music.

Friday, January 27, 2017

Session Title	Abstract
IBM i Strategy & Update Steve Will	Steve Will, Chief Architect of IBM i, offers his perspective on the state of the IBM i platform, its ecosystem, and its customers -- all within the context of the IBM i strategy and how he approaches it.
Break	
SQL for the Security Officer Scott Forsti	The pressures and expectations for the security officer have never been higher. Come to this session to learn how to use SQL to accomplish critical security tasks, including the ability to easily automate security policies. You do not have to be an SQL expert to gain something from this session. In the session, I will explain how the examples work and you'll leave with the skills necessary to be a better and more productive IBM i security officer.
June Meeting Preview Dawn May	A brief review and discussion of topics for the June 2017 meeting.
Closing Comments	
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The meeting will conclude before 11:00 AM.	