

Session Abstracts - Friday

RPGLE as a Web Service - Liam Allan

Through the use of SQL and an open-source environment such as PHP, Node.js or Python you can turn traditional RPGLE into a web service.

Node.js Intro – Liam Allan

This Node.js Introduction will get you running from ground up, to tools and debugging before you start writing the best code ever. We'll cover installation, languages, IDE, development extensions and debugging.

Web Language Face-Off – Liam Allan, Patrick Behr, and Mike Pavlak

In this session, we'll compare some of the open-source languages commonly used for web-related development and the role of RPG alongside them. Languages include PHP, Python, and Node.js (javascript). The session contains concrete information as well as a lively discussion.

Learning Objectives:

1. Learn what makes each of these languages unique
2. Get an idea of when each language would be best
3. Learn something about web and API architecture

VS Code on IBM i – Patrick Behr

Visual Studio Code, or "VS Code" for short, is continuing to gain popularity among programmers worldwide. No wonder: it's free and open source, and a large community is delivering improvements constantly. What does that mean for IBM i? In this session, we will explore the basics of VS Code, as well as explore a set of extensions that can enable IBM i development within this IDE.

Git 101 – Patrick Behr

A beginner's look at source change management with Git. We'll cover all the basic concepts and workflow that will get you up and running with Git in no time. Git is the most popular change management software around, and is also becoming a very popular choice on IBM i.

1. Understand local and remote repositories
2. The local workflow and file status
3. Branching, merging, and collaborating with others

Journey to the Cloud – David Contreras

Attend this session and learn how to prepare to migrate to the Cloud. Also, how to utilize Logical Replication to protect your business. Backups, Disaster Recovery (DR) and High Availability (HA) will be discussed.

Learning objectives:

1. What to look for
2. What to prepare for
3. What analysis and research should be completed in advance

What's New in Db2 for i for 7.5 – Scott Forstie

In the tradition of previous Technology Refreshes (TR), the database team is delivering enhancements on the same cadence. Attend this session to hear about the many enhancements to SQL on i, SQL Query Engine, IBM i Services and more. This session will cover the new and enhanced Db2 for i capabilities added to IBM i. Resource: <https://www.ibm.com/support/pages/node/1116645/>

Learning Objectives:

1. Understand the new database capabilities in Db2 for IBM i
2. Learn how the enhancements can be utilized.
3. Hear about the Db2 for i strategy.

What is SYSTOOLS and How Can You Leverage It – Scott Forstie

Db2 for i provides useful tools and examples in the SYSTOOLS schema. Come to this session to learn what shiny gems lie within this unopened treasure chest. You need not be an SQL programmer to gain tremendous value from SQL tools!

Learning Objectives:

1. Understand what is SYSTOOLS?
2. Quick training in how to discover and use the tools within SYSTOOLS.
3. Understand how ACS can help you use SYSTOOLS.

IBM i Security Cocktail with an SQL Chaser – Scott Forstie and Carol Woodbury

Be prepared to hear ideas and concepts that will make your head spin as Scott Forstie and Carol Woodbury shake up the world of IBM i Security, mixing the dull foundational concepts of IBM i Security with the vibrant and rich features of SQL. Before you know it, you'll be sipping on the refreshing features of SQL and pouring out your current processes that have reached their 'consume by' date. A note of caution, however. You may leave a bit shaken (but not stirred.)

Learning Objectives:

1. Foundational knowledge of IBM i security
2. Why and how SQL is useful to the Security Officer and beyond
3. Have an idea of where to start and how

The Best of iSee – Scott Forstie and Tim Rowe

Scott and Tim will share their favorite short demonstrations of tools, techniques and examples (including working SQL examples!

Technology Updates & Refresh - Charlie Guarino

Abstract will be available soon. Modern programming, data-centric databases, new languages, and so much more, we are all on board. But staying relevant in IT is much more than adopting these technologies. Digital transformation is the order of the day. Today's information landscape relies heavily on data in all forms, artificial intelligence, digital recognition, and other newer technologies. Join in the discussion.

Configuring RDi for RPG Development – Charles Guarino

RDi is the most versatile application development tools available today. It provides more and more functionality with each update, and the results are obvious. This session focuses on the particular attributes of enhancing your RPG development. How many of these features are you already using?

What's Going on with My Code: Debugging 101 with RDi – Charles Guarino

Gain accelerated insight into your code with the latest in debugging technologies.

Temporal Tables – Looking Back into Your Data's Past – Simon Hutchinson

We all work in environments where data is changing, often rapidly. At times it would be nice to know what the data looked like an hour, a day, or even a week ago. With conventional files and tables this is hard, that might even involve restoring data from journals. SQL Temporal Tables alleviates all of that work. They allow you to view the data as it was at any time, and allows many people to view the data at different times all at the same time. Learn how to create a Temporal Table, how to view the data as it was at different times, and even use it to recreate accidentally deleted records.

Simon's top 10 SQL favorites – Simon Hutchinson

IBM Champion Simon Hutchinson has written a lot about modern Db2 for i and SQL on his blog for the past nine years. In this session he will take you through his top 10 favorites. You will have to attend to learn what these cool SQL tricks and tips are!

Digital Directions & Modernization: Real World IBM i Roadmaps Revealed – Eamon Musallam

In today's hypercompetitive landscape, IT groups in every organization are facing a united goal to bring speed, agility, security, and insights through technology innovation to solve their digital dilemmas. The need for highly modern, scalable and secure systems in IT has never been higher and will continue to accelerate. Join Eamon Musallam from Fresche to learn about the latest modernization strategies, digital engagement initiatives, next-gen IBM i technologies being adopted, and get a look at several IBM i client roadmaps to see the directions being taken.

Eamon will cover:

- Application modernization strategies – everything from infrastructure to security, user interfaces, languages, and the various tools to get you there.
- Deep dive into real-life customer roadmap examples.
 - The business needs, the challenges and the opportunities.
 - Technologies, architectures, and approaches (APIs, web, mobile, cloud).
 - New digital initiatives to drive growth and deliver more engaging experiences.
- How to create the perfect roadmap for you.

Python APIs: aka REST with Flask – Mike Pavlak

Gluing applications together in the 21st century relies on loosely coupled services. Python has several methods for provisioning and consuming web services. In this session we will explore several approaches to leveraging APIs or Web Services including some of the powerful modules in the python world that make this process incredibly simple.

Learning Objectives:

- 1) Review of Python fundamentals.
- 2) Explore modules used with services
- 3) Review several examples of services consumption and provisioning

Test Driven Development Using Python – Mike Pavlak

User Acceptance Testing should not be the only testing tool in your arsenal. Building a solid Python application is easy if you automate the boring testing process. In this session we'll explore how easy testing can be in Python and how to get it done with several examples.

Learning Objectives:

- 1) Explore benefits of test Driven Development.
- 2) Work through a basic framework for architecting TDD.
- 3) Build an example case from scratch using Python and the unit test module.

The Magic of Creating REST APIs for IBM i – Tim Rowe

Rest APIs are a key technology in the world of Modern Applications these days. The Integrated Web Services - IWS support provides a rich, robust, secure way to easily create and host Rest APIs. IWS provides a way to point at an existing ILE program or services program and will create a Rest wrapper for that function. Additionally, you can build Rest APIs that wrapper SQL directly. With IBM i 7.5 the IWS support now also has a rich access logging support including the ability to digest with tools such as Splunk!

Merlin & Application Development – A Technical Deep Dive – Tim Rowe

Modernization Engine for Lifecycle Integration – Merlin is a brand new offering from the IBM i team. This session will focus on how Merlin and Application Development fit together. The App Dev world today is becoming more centered around tools like Git, Jenkins, and leveraging the latest modern development tooling. Tim and Andrew will explain and demo how the tooling from IBM and Arc42 integrated together can be a game changer for future development on IBM i.

IBM i Navigator, An Administrator's View – Tim Rowe

IBM Navigator for i is the web based interface for accessing, managing, and monitoring your IBM i. A brand new version has been released. This session will look at how to get started, how to best leverage this interface for one user or an entire company. We will look at some of the administrative features added to New Nav to help with rolling this out to many users. This includes how to set up TLS for your connections and how to limit select users from working with areas within the interface.

What's New in Security for i for 7.5 – Carol Woodbury

Learn about the latest IBM i Security Enhancements - There's A LOT new in IBM i 7.5 that's security related!

Moving to a Higher Level – Carol Woodbury

During this session Carol will provide her tips and tricks for moving to a higher security level (QSECURITY) as well as moving to a higher password level (QPWDLVL). With planning and a bit of investigation, each move can be done successfully. Carol will discuss her methods for successfully making these moves.

Learning Objectives:

Learn how to successfully move from: - QSECURITY level 30 to 40 - QSECURITY level 20 to 40 - a lower to a higher level of QPWDLVL