



Systems Management

Larry Bolhuis, Arbor Solutions, Inc.

Tuesday, October 7, 2008

The IBM i systems administration workshop will cover many of the key topics that system administrators must understand to keep i5/OS running at peak efficiency. We will focus on maintenance items that are often ignored by administrators.

Learning Objectives:

- After this session you will understand cleaning up disk, updates to the HMC, the FSP and i5/OS.
- You will also understand some of the system values needed to control storage and finally how to help deal with spooled files on the system.

Audience:

This workshop is designed for those who are in charge of administering IBM i or i5/OS.

Syllabus:

1. HMC what it is, what it does, and general care and feeding.
2. FSP updates, why, when, and how (two ways: with and without HMC).
3. PTFs for i5/OS, getting them, loading them, and knowing what you have! (including Fix Central overview).
4. VMI - Tape and Optical. The care and feeding of image catalogs and how to clean a virtual tape drive.
5. Management central - performance monitoring, PTF distribution, central site inventory.
6. Storage Management - How much disk is enough (rhetorical question!). Figuring out what is using it with a focus on the IFS and improving its performance.
7. RCLSTG and when you might need one or how to avoid one.
8. Various System values.
9. Spool file maintenance including use of iASPs, Joblog Servers, and disconnected spool file functions.

Implementing IBM i on JS12 and JS22

Vess Natchev, IBM Corporation

Tuesday, October 7, 2008

This technical workshop includes detailed information on installing IBM i on a Power blade. We will cover I/O virtualization and logical partitioning (LPAR) on JS12 and JS22; Virtual I/O Server (VIOS) and Integrated Virtualization Manager (IVM); firmware updates for a Power blade; installing IBM i. The workshop will also briefly explain the topics of backup/restore and data migration in the Power blade environment.

Learning Objectives:



This is an intermediate-level workshop that assumes existing BladeCenter knowledge or attendance of the "IBM BladeCenter 101" workshop. By the end of the workshop, the student will be able to understand:

- What the Virtual I/O Server (VIOS) is and how it is used with IBM i on a Power blade.
- How to use the Integrated Virtualization Manager (IVM).
- Installation of IBM i on a Power blade.
- Backups and migration for IBM i on a Power blade.

Audience:

This workshop is designed for IBM service professionals, IBM Business Partners, clients and other individuals who are planning or implementing IBM i in a BladeCenter environment.

Syllabus:

1. Virtualization and LPAR on Power Blades
2. Virtual I/O Server (VIOS) installation and use
3. Integrated Virtualization Manager (IVM)
4. Installation of IBM i on a Power Blade)
5. Backups and migration

Subprocedures, Modules & Service Programs: Subroutines on Steroids

Ted Holt, Guild Companies, Inc.

Tuesday, October 7, 2008

Subroutines and subprocedures are named sections of executable code, but the similarity between the two ends there. Come see what subprocedures can do and how they can help you write more reliable code. Learn the syntax of subprocedures, the two types of subprocedures, and how to prototype subprocedure calls. Learn about parameter passing, modules, service programs, and binding. You'll have opportunities to write subprocedures and compare your code to the instructor's solutions, which increases the likelihood that you'll leave the class with more than academic knowledge of subprocedures.

Learning Objectives:

- Learn why subprocedures are superior to subroutines.
- Learn how to write and invoke the two types of subprocedures.
- Learn effective ways to use subprocedures in applications.

Audience:

This workshop is designed for RPG programmers who are comfortable with subroutines and have not yet learned to use subprocedures, and programmers who have an elementary understanding of subprocedures.

Syllabus:

1. How subprocedures differ from subroutines



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2. Two types of subprocedures: procedures and functions
3. How to write a subprocedure (syntax, P specs)
4. How to invoke a subprocedure
5. Prototyping
6. Parameters
7. Local variables
8. Local subprocedures (within pgm that uses them)
9. External subprocedures (external to the program)
10. Modules
11. Service Programs
12. Binding (binding language, binding directories)

LAB: Web Services and SOA for the RPG Developer

Dan Hiebert, IBM Corporation

Tuesday, October 7, 2008

Web Services and SOA can offer a maze of complexity for the developer, which sometimes appears overwhelming. Perhaps the industry has over-complicated the message of Web services with SOA by focusing on all the infinite possibilities and not providing a clear path. This workshop looks to demonstrate a methodology to simply take an RPG application, deploy it as a service, and finally build a Web User Interface utilizing the new IBM Integrated Web Services for i. The IBM Integrated Web Services for i was designed to provide an IBM i path, integrating the latest Web services technology and harnessing simple web interfaces, merging development and deployment. This workshop will consist of presentation and hands on labs.

Learning Objectives:

The workshop will take you through the entire Web Services life cycle from a SOA perspective, in four main areas:

- Creating Web service: business logic for RPG.
- Externalization of services: deploying RPG as a Web Service (yes it is that easy).
- Consumption of services: RPG making use of any of the thousands of services available today.
- Presentation Layer: taking the service and building a WEB presentation layer.

Audience:

This workshop is designed for programmers/administrator who know how to write programs in a high-level language, such as RPG or COBOL, and wish to learn how to use Web Services support integrated into IBM i.

Syllabus:

1. Discussion of SOA and Web Services.
2. Stateless RPG - Key programming considerations for Web Services.



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3. Externalization - IBM Integrated Web Services Server - Deploy service from existing ILE programs.
4. Consumption - IBM Integrated Web Services Client - Call a Web service from RPG.
5. Presentation - PHP or JSF, pick your presentation tools.
6. Discussion of alternative technologies for Web Services.