



Disaster Recovery Primer - Ready, Set, Plan

Richard Dolewski, WTS, Inc.

Monday, October 6, 2008

This workshop identifies the components of Disaster Recovery planning as it relates to the availability and recovery of computing services. Learn what works in a real disaster. Understand common assumptions made in our industry. Following a Disaster recovery methodology structured specifically for Information Technology, the seminar will provide the attendee with an understanding of the fundamentals of developing a DR plan from start to finish and testing the plan so it works when you need it most...in a Disaster! This will be an interactive workshop with an emphasis in classroom participation. All students will be provided with course material.

Audience:

This workshop is designed for IT personnel responsible for writing and maintaining a DR Plan.

Syllabus:

Part 1: DRP Overview

Disaster Recovery Preparedness

The Changing face of Disaster Recovery Planning today

Backup & Recovery Assessment - Backups Policies

Value of Systems Availability and HA

RTO vs RTP

Criticality ranking of essential IT services

Part 2 - Building the plan

Components of a DR Plan

Disaster Notification

Building Your teams

Human Elements

Roles and Responsibilities

Steps to Recovery

System Information

Vital Records - Management

Part 3: Exercise the Plan

Testing - Passive - Table top Exercise

Testing - Active Test till you get it right

Case Study of 2 real Disasters



IBM BladeCenter 101

Kyle Wurgler, IBM Corporation

Monday, October 6, 2008

This technical workshop includes detailed information on how to install and set up an IBM BladeCenter chassis and its associated blade servers. We will cover the architecture of the BladeCenter S and BladeCenter H; the components that are available as options; installation requirements and procedures for updating the components within the chassis. We will also explain how disk management in the BladeCenter S is performed.

Learning Objectives:

The objective of this workshop will be to provide an overview of IBM BladeCenter and detailed instructions on how to install and set up a BladeCenter chassis and its associated blade servers:

- BladeCenter overview
- Chassis types
- Blade types
- I/O expansion adapters and I/O modules
- Firmware update processes
- Solutions with IBM i

Audience:

This workshop is for individuals who want to learn detailed information about IBM BladeCenter, its components and how they are used with solutions involving IBM i.

Syllabus:

1. Introduction to IBM BladeCenter
2. IBM i Solutions using BladeCenter
3. BladeCenter Chassis
4. Blade servers
5. Where to order the components
6. Required pieces for IBM i solutions
7. Hardware installation
8. Code update processes

Implementing i5/OS and i Security

Carol Woodbury, SkyView Partners

Wednesday, October 8, 2008

This workshop will provide the information to understand the fundamentals of security in general and i5/OS security specifically, as well as equip you to implement changes in your workplace. Attendees of all skill levels will benefit from the practical advice and real-life examples of implementing every aspect of i5/OS security.



Audience:

This workshop is designed for anyone interested in a deeper understanding of i5/OS or i security, anyone with a need to implement object level security, security administrators, and auditors.

Syllabus:

1. Laying the Foundation of i5/OS and i security, including access control options, role-based access and security-relevant system values. New V6R1 security features will be included in the discussion.
2. Getting the Most out of your Audit Journal, including generating reports and using the information to debug problems.
3. Integrated File System Security, including securing and auditing tips.
4. Securing Spooled Files.
5. Step by Step Approach to Implementing i5/OS and i security, including
6. tips and techniques for avoiding breakage.
7. Case Study - implementing object level security and changing the security scheme of an application.

LAB: RPG IV for Beginners

Jim Martin

Monday, October 6, 2008

This all-day workshop will cover basic concepts of the free-format style of RPG IV, file descriptions for full function externally described files, and data description specifications. The format will be lecture and lab. The procedures will be done in free format style only.

Learning Objectives:

The objective of this workshop will be to bring a total beginner to a basic level of understanding of free format RPG IV. By the end of the workshop, the student will be able to understand:

- Three RPG specification types
- The full function method of file I/O
- RPG procedure logic, using If, Do while, and Do until
- Four hands-on lab projects, using data files, printing, and screen formats
- Program termination

Audience:

This workshop is designed for programmers who are new to the RPG IV language and want an intensive introduction to this language.

Syllabus:

1. Introduction to RPG IV
2. File Descriptions
3. Data descriptions



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4. Calculations (procedure section)
5. Logical flow in a procedure
6. I/O in a procedure
7. Assignment expressions
8. Ending your program
9. Basic data structures
10. An assortment of various opcodes and built-in functions
11. Lab work (4 possible programs to write)

LAB: Getting Started with DB2 Web Query

Gene Cobb, IBM Corporation

Monday, October 6, 2008

This session is designed for the developer and database administrator who would like a modern query and reporting tool to deliver timely and quality reports, graphs, and dashboards to meet the reporting requirements of their company. This session introduces, DB2 Web Query for IBM i, the strategic query and reporting tool for the IBM i operating system. The instructor uses lecture, demonstrations, and labs to help attendees understand the capabilities of the new product and the steps and skills necessary to deliver this content back home in their production environment.

Learning Objectives:

- The attendee will learn how to create metadata and understand the advantages of this abstraction layer.
- The attendee will learn how to take existing Query/400 objects and "webify" them using the DB2 Web Query import tools.
- The attendee will learn how to create reports and graphs using the DB2 Web Query development tools.
- The attendee will learn best practices, several tips and techniques to enhance the implementation, and pitfalls to avoid.

Audience:

This workshop is designed for programmers and database administrators who understand the query and reporting needs of their company and need a modern tool to deliver those requirements. Attendees should have an understanding of the DB2 for i database and the general database design of their company. Knowledge of SQL is helpful but not required.

Syllabus:

1. DB2 Web Query demo
2. Metadata
3. Creating reports and graphs using the development tools
4. Modern report output formats such as HTML, Excel spreadsheets, PDF, and Active Reports
5. DB2 Web Query Tips and techniques



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.
3. Externalization - IBM Integrated Web Services Server - Deploy service from existing ILE programs.



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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.



Lotus Domino Admin & Upgrade
Kim Greene, Kim Greene Consulting
Wednesday, October 8, 2008

This workshop will help you gain the skills necessary to manage a Domino for i5/OS environment. Come learn how to manage and be proactive with Lotus Domino administration. You will learn how to solve common Domino administration mistakes and what changes you can expect with release 8. You will learn how to solve common Domino administration mistakes and what changes you can expect with release 8. This workshop will shed light on some little known functions built into the WRKDOMSVR command, how to switch to the new OOO task, new server commands, and how to effectively use policies in your organization.

Learning objectives:

- Learning proactive management of your Domino server environment
- Learning how memory management changes in Domino 8 and what you need to do to keep your servers running smoothly
- How to properly tune your Domino environment on i5/OS
- Gaining insight into options on the WRKDOMSVR command that are commonly overlooked
- Learning about the enhancements available in release 8 and how to successfully upgrade to release 8
- Learning how to successfully use policies
- Learning mail file management tips including how to reduce mail file sizes with built-in archiving and inbox maintenance support

Audience:

This workshop is designed for administrators who are responsible for managing a Domino environment on i5/OS. The materials covered are applicable to administrators for releases 6, 7, and 8.

Syllabus:

1. Administration essentials
2. What's new in Domino release 8
3. The ins and outs of Domino performance tuning on i5/OS
4. Upgrading to release 8
5. Understanding and switching to the new OOO service
6. Successfully using policies

Where Do I Start to use Embedded SQL
Ted Holt, Guild Companies, Inc.
Wednesday, October 8, 2008

This session is designed for the developer who would like to embed SQL in application programs, but isn't sure where to start. The session begins with the syntax of embedded SQL, but quickly moves



beyond syntax into practice. The instructor shows how to develop robust applications with embedded SQL, and also shows when native I/O provides a better way to go. Examples use RPG, but the concepts are applicable to other high-level languages.

Learning Objectives:

- The attendee will learn how to embed SQL commands in RPG programs.
- The attendee will learn effective ways to use embedded SQL.
- The attendee will understand common mistakes and how to avoid them.

Audience:

This workshop is designed for programmers who know how to write programs in a high-level language, such as RPG or COBOL, and wish to learn how to use SQL I/O operations instead of native I/O.

Syllabus:

1. Why SQL instead of native I/O
2. Syntax of embedded SQL
3. Error handling
4. Design mistakes (how not to write SQL)
5. Advanced techniques
6. When to use SQL and when to use native I/O

RD*i* & RD*i* SOA

IBM Rational Team, IBM Corporation

Wednesday, October 8, 2008

In this workshop, we will overview the two new IBM Eclipse based development tools for IBM i; IBM Rational Developer for System i (RD*i*) and IBM Rational Developer for System i for SOA Construction (RD*i* SOA).

The workshop will include lectures and demos on the key components of the tools including the Workbench, Remote System Explorer (RSE), Host Access Transformation Services (HATS), and Rational Business Developer (EGL).

Learning Objectives:

- Learn the basics on how to use the Eclipse Workbench in RD*i* and its powerful features.
- Introduction to the Remote System Explorer (RSE). This is the development environment within RD*i* and RD*i* SOA that allows development of RPG and COBOL applications.
- How to improve programmer productivity, and how to off-load host development workload and allowing existing applications to be maintained more effectively. We will also dive into more advanced functionality like how to customize the environment, how to use i5/OS Projects.
- Learn about the Integrated i5/OS debugger. RD*i* and RD*i* SOA provide the full power of the green-screen system debugger, while offering the simplicity and convenience of the



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Workbench. Workshop will provide details on how the debugger integrates with the RSE and how to use many of the debugger's features.

- Learn how Rational Host Access Transformation Services (HATS) can be used to extend existing 5250 applications to the Web, Rich client, portal, web services and to browsers on mobile devices quickly and at low risk.
- Learn about Rational's latest Business Development language, Enterprise Generation Language (EGL). EGL extends the programming Workbench with a simplified high-level programming language that enables business developers who have little or no experience with Java, Web technologies or Service Oriented Architecture to create enterprise-class applications and services quickly and easily.
- Introduction to IBM's newest tool; Rational Team Concert.

Audience:

This workshop is intended for RPG/COBOL developers who want to:

- Learn more about the features in the new IBM Eclipse based tools for RPG/COBOL Development.
- Learn how to improve developer productivity with RDi & RDi SOA.
- Learn how HATS can be used to extend existing 5250 applications to the web, rich client, mobile or as web services.
- Learn how EGL can be used by business developers to create SOA compliant, web, rich client, web services quickly and easily.

LAB: V6R1 Performance Tools

Dawn May, IBM Corporation

Monday, October 6, 2008

This workshop provides in-depth education for the system administrator who wants to manage the performance of their system or analyze performance data. The workshop will focus on the performance management capabilities available starting with IBM i 6.1 in the IBM Systems Director Navigator for i5/OS Web console. It will start with an overview of collecting performance data and will provide guidance on when the various performance data collectors should be used. It will cover how to manage performance data as well as how to analyze the collected data using the Investigate Data feature; it will also cover how to use the V6R1 performance tools on data collected from V5R3 or V5R4 releases.

Learning Objectives:

- The attendee will learn when and how to use the various performance data collectors available with V6R1.
- The attendee will learn how to use the Investigate Data feature.
- The attendee will learn how to analyze Collection Services, Job Watcher, and Disk Watcher data.



Audience:

This workshop is designed for system administrators responsible for their system's performance. It is for those who need to manage their system's performance, maintain service level agreements such as response time or batch windows, or troubleshoot performance problems.

Syllabus:

1. Collecting Performance Data
2. Managing Performance Data
3. Performance Data Investigator
4. Collection Services
5. Job Watcher
6. Disk Watcher