

iSeries/i5 Technical workshop in 2005

The **IBM European iSeries Benchmark Center** has planned technical workshops on iSeries and IBM eServer i5 taught by specialists either from the labs (Rochester) or within iSeries benchmark team.

All these workshops will be held in IBM Montpellier, South of France

There is difference with first edition, some workshops were canceled and we added new workshop relating to new announcements.

You will find below dates of session and on next pages, detailed workshop description.

For registration, accommodations go to [last page](#)

Course Code	Course Title	Dates
AS530BFR	Logical Partitioning for iSeries POWER5-based servers	Nov 14 - 18
AS301BFR	Integrated xSeries Solutions on IBM eServer i5	November 7 - 10
AS560BFR	Linux on IBM eServer i5	September 26 - 30
AS570BFR	Implementing AIX 5L on eServer i5	December 12 - 16
AS84BFR	WebSphere Technical Enablement for iSeries	Not planned yet
AS040BFR	DB2 UDB for iSeries SQL & query performance tuning and monitoring	December 5 - 9
AS524F	IBM eServer iSeries/i5 Performance Analysis workshop	September 26 - 30
AS950BFR	Capacity Planning for IBM eServer iSeries/i5	October 3 - 5
ITSO9MFR	Tuning WebSphere application server performance on iSeries	October 19 - 21
AS545BFR	Implementing Application in IASP's	Not planned yet
AS540BFR	IBM eServer iSeries Clustering Design and Implementation for V5R3	Nov 21-25
AS543F	Implementing Linux on iSeries	Not planned yet
AS751BFR	IBM Websphere Portal – Express V5.0.2 Implementation on iSeries	Not planned yet
AS761BFR	IBM Websphere Portal – Express V5.0.2 Administration on iSeries	Not planned yet
AS048BFR	iSeries Advanced Performance Analysis	Not planned yet

[AS530BFR - Logical partitioning for iSeries POWER5-based servers](#)

[http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/\(ExtCourseNr\)/AS530BFR](http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/(ExtCourseNr)/AS530BFR)

Duration: 5 Days

Delivery Method: Classroom; (Hands-on Lab)

Language: ENGLISH

Dates

- From 14 to 18 of November 2005 (starting Monday 9:30am and finishing Friday 5:00pm)

Abstract

The course materials cover the Logical Partitioning for iSeries POWER5-based servers.

Audience

This is a basic course for technical specialists, support/services individuals, individuals implementing LPAR for iSeries POWER5-based servers, and IBM Business Partners, who sell and plan for consolidated systems.

Educational Objectives

- Understand the functionality of LPAR for iSeries POWER5-based servers
- Plan and configure an iSeries POWER5-based server for LPAR
- Review the concepts behind the creation and deletion of partitions
- Implement and support LPAR on the iSeries POWER5-based servers
- Describe the function and use of the new LVT
- Set up (HMC) and use it to partition Managed Servers (MS)

Topics

- LPAR overview
- Partial processors
- Linux partitions
- GUI enhancements via HMC
- Dynamic resource allocation
- Planning and configuring LPAR for iSeries POWER5-based servers
- Using operations console with LPAR for iSeries POWER5-based servers
- Ability to partition a new model 520/570
- Virtual ethernet
- LVT
- LPAR implementation
- Upgrading an iSeries system that uses LPAR
- Managing an LPAR system
- LPAR TOOLKIT utilisation

Prerequisites

You should have some knowledge of architectural concepts and experience with the iSeries system. Entry level knowledge of LPAR on current systems is helpful, but not required

Remarks

Many labs are included to address setting up HMC and Logical Partitioning for iSeries POWER5-based servers. Course will be held in Montpellier, France and taught in English

AS301BFR – Integrated xSeries solutions on IBM eServer i5

[http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/\(ExtCourseNr\)/AS301BFR](http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/(ExtCourseNr)/AS301BFR)

Duration: 3.5 Days

Delivery Method: Classroom; (Hands-on Lab)

Language: ENGLISH

Dates

- From 7 to 10 of November 2005 (starting Monday 1:30pm and finishing Thursday 5:00pm)

Overview

Develop the skills you need to install, configure, manage and support Microsoft Windows Server on the iSeries Integrated xSeries Server and Direct Attached xSeries Server via Integrated Series Adapter. Learn the concepts, terminology and hardware that are related to the iSeries Integrated Windows environment. Through lecture topics and hands-on exercises, explore installation requirements and procedures, TCP/IP communication configuration, including Gigabit Virtual Local Area Network (VLAN), storage space and combined user id administration, device sharing, backup and restore procedures, and problem determination techniques, and look at high availability options.

Audience

Administrators, support specialists, service technicians, IBM Business Partners, consultants, and individuals who install, administer and support an iSeries Integrated Windows Server environment on the Integrated xSeries Server and Direct Attached xSeries Servers integrated via the Integrated xSeries Adapter

Educational Objectives

- Examine the characteristics of the Integrated xSeries Server and the Integrated xSeries Adapter
- Introduce concepts, terminology related to the iSeries Integrated Windows Server environment
- Learn about the High Speed Link (HSL) and Storage Area Network (SAN) facilities provided for by the iSeries Integrated Windows environment
- Explore high availability options

Topics

- Benefits of the iSeries Windows Server Integration
- iSeries hardware and software requirements
- Integrated xSeries Server and Integrated xSeries Adapter for iSeries
- Steps to install an Integrated xSeries Server and a direct attach xSeries Server with an Integrated xSeries adapter
- What to buy, order, and warranty and services
- HSL configuration alternatives
- Disk configuration, user enrollment, device sharing, backup and restore, and problem determination
- High availability options
- Web sites to gain more information

Prerequisites

- Basic LAN and configuration concepts
- Using the Windows server interface
- General iSeries knowledge
- iSeries Windows integration knowledge is helpful

Remarks

Course will be held in Montpellier, France and taught in English

AS560BFR - Linux on IBM eServer i5

[http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/\(ExtCourseNr\)/AS560BFR](http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/(ExtCourseNr)/AS560BFR)

Duration: 5 Days

Delivery Method: Classroom; (Hands-on Lab)

Language: ENGLISH

Dates

- From 26 to 30 of September 2005 (starting Monday 1:30am and finishing Friday noon)

Abstract

Learn how to plan, implement, and provide basic management for a Linux partition on an iSeries system.

Overview

Linux enables a new stream of e-business applications for the iSeries platform that complement its strength as an integrated core business solution. Learn how to plan, implement, and provide basic management for a Linux partition on an iSeries system. Learn about all aspects of Linux on iSeries in this hands-on course. Load multiple distributions of Linux in all the different environments possible on the iSeries system: hosted, non-hosted, and a mixture of both types of environments.

Audience

Technical specialists, support/services personnel, and individuals implementing Linux on the eServer iSeries. IBM Business Partners responsible for sales and planning for Linux on the eServer iSeries.

Educational Objectives

- Create a plan to implement Linux on iSeries
- Implement and manage an iSeries Linux partition
- Implement basic networking using virtual and direct resources
- Troubleshoot a Linux problem on the iSeries system
- Provide basic management for a Linux partition on iSeries

Topics

- Logical Partitioning (LPAR) architecture
- Linux to iSeries architecture and managing comparisons
- Virtual Input/Output (I/O) - how iSeries differs from other Linux platforms
- Linux on iSeries troubleshooting

Prerequisites

- Some knowledge of architectural concepts and experience with the iSeries system
- Entry level knowledge of Linux on current systems helpful, but not required

Course Materials

The course materials cover the installation and configuration of Linux on the eServer iSeries.

Hands-On Labs

Many hands-on labs are included to address setting up Linux on the eServer iSeries

Remarks

Course will be held in Montpellier and taught in English with material in English

AS570BFR – Implementing AIX 5L on IBM eServer i5

[http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/\(ExtCourseNr\)/AS570BFR](http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/(ExtCourseNr)/AS570BFR)

Duration: 5 Days

Delivery Method: Classroom; (Hands-on Lab)

Language: ENGLISH

Dates

- From 12 to 16 of December 2005 (starting Monday 1:30pm and finishing Friday noon)

Overview

The addition of AIX 5L in a logical partition (LPAR) to the IBM eServer iSeries family brings a new level of server consolidation and Information Technology (IT) asset utilization. Learn how to plan, implement, and provide basic system management for an AIX 5L LPAR on IBM eServer i5 in this hands-on course. Understand the hardware and sizing requirements for AIX 5L on eServer i5. Create AIX 5L LPARs utilizing both virtual and direct attach system resources. Understand how to apply new LPAR concepts, such as capped and uncapped processors, server and client virtual adapters, and partition profiles to AIX 5L workloads. Install AIX 5L and learn basic disk management, performance, system recovery, troubleshooting, and backups skills.

Course Materials

The course materials cover the planning, installation, configuration, and system management of AIX 5L in a logical partition on eServer i5.

Hands-On Labs

Hands-on labs follow each lecture and give you the opportunity to perform the technical tasks covered in that topic.

Audience

This is a basic technical course for IBM Business Partners, service professionals, and other individuals, who plan, implement, or administer AIX 5L on IBM eServer i5.

Educational objectives

- Create a plan for implementing AIX 5L on the eServer i5
- Understand the supported hardware for AIX 5L
- Understand the process of sizing an AIX 5L workload on eServer i5iSeries
- Use the Hardware Management Console to create AIX 5L LPARs
- Understand the use of virtual versus direct attach system resources
- Apply new LPAR concepts, such as partition profiles and uncapped processors
- Install and configure AIX 5L in an LPAR
- Perform troubleshooting and system recovery
- Develop basic disk management and backup skills for AIX 5L

Topics

POWER5 LPAR concepts and architecture
Using the Hardware Management Console for LPAR configuration
Supported hardware for AIX 5L
Virtual Input/Output (I/O) and direct attach I/O resources
Creating AIX 5L LPARs
Capped and uncapped processors
Partition profiles and system profiles
Server and client virtual I/O adapters
Installing Linux and AIX 5L on eServer i5
System architecture and management comparisons AIX 5L and i5/OS
Troubleshooting AIX 5L on eServer i5
Recovering AIX 5L LPARs
Managing disk storage and backups for AIX 5L

Prerequisites

You should have good working knowledge of the iSeries platform or AIX 5L. Knowledge of AIX 5L in an LPAR on systems prior to IBM eServer i5 is helpful, but not required. Basic familiarity with the Hardware Management Console section of the eServer Hardware Information Center is recommended, but not required.

Remarks

Course will be held in Montpellier and taught in English with material in English

AS84BFR – Websphere technical enablement for iSeries

[http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/\(ExtCourseNr\)/AS84BFR](http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/(ExtCourseNr)/AS84BFR)

Duration: 5 Days

Delivery Method: Classroom; (Hands-on Lab)

Language: ENGLISH

Dates

- Not planned yet

Audience

iSeries solution architects, sales support personnel, and e-business specialists who want an in-depth understanding of the latest WebSphere server and application development products. Individuals interested in becoming an IBM Certified Systems Expert - iSeries WebSphere Technical Solutions will also find the course beneficial.

Educational Objectives

Learn about the latest developments in WebSphere for iSeries server and application development products, including WebSphere Application Server (WAS) - Express for iSeries. Understand how to architect, develop, and implement e-business solutions on the iSeries. Gain practical hands-on experience with the latest WebSphere for iSeries products.

Architect e-business solutions for iSeries.

Learn and use the latest in WebSphere Studio development products for iSeries

Understand the capabilities of WAS Version 5 (V5) products for iSeries

Configure applications and resources on WAS V5 products for iSeries

Understand the options for Web enabling iSeries applications and data

Determine opportunities for more advanced WebSphere products such as Portal Server and Commerce

Prepare for the The IBM Certified Systems Expert - iSeries WebSphere Technical Solutions certification exam

Topics

Architecting WebSphere based applications on iSeries

Web Application Development with WebSphere Studio development tools for iSeries

WAS V5 Express for iSeries lectures and labs

WAS V5 for iSeries lectures and labs

Web enabling iSeries 5250 applications with WebFacing and other IBM products

Web enablement options for iSeries resources, including DB2 UDB for iSeries e-business application security, performance analysis, sizing, and high availability

application integration options, including WebSphere MQ and Web Services

WebSphere Portal Server and Commerce for iSeries

Prerequisites

You are expected to have a firm understanding of iSeries and OS/400 concepts in areas such as system operations, work management, communications, product and fix pack installation, and application development. Also, you are expected to have a basic understanding of e-business and Web application concepts such as Hypertext Transfer Protocol (HTTP) Servers, Web page development, and the WebSphere product family.

Remarks

This course is designed specifically to help prepare you for the the IBM Certified Systems Expert - iSeries WebSphere Technical Solutions exam.

AS040BFR: DB2 UDB for AS/400 SQL & Query Performance Tuning and Monitoring

[http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/\(ExtCourseNr\)/AS040BFR](http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/(ExtCourseNr)/AS040BFR)

Duration: 5 Days

Delivery Method: Classroom; (Hands-on Lab)

Language: ENGLISH

Dates

- From 5 to 9 of December 2005 (starting Monday 01:00 pm and finishing Friday noon)

Abstract

50% of the time will be spent on labs.

Overview

Learn a methodology for tuning IBM DB2 Universal Database (UDB) for iSeries Structured Query Language (SQL) data access and query processing for optimum performance. Explore the science and methods behind the DB2 UDB for iSeries query optimizer and how they relate to database performance. Discuss performance issues affecting the design of the database and the applications using the database, database performance parameters, and the different tools that assist in performance monitoring and tuning.

Audience

iSeries database designers, performance analysts, and application developers who are concerned about SQL and query performance. Highly recommended for individuals interested in SQL and query performance on the iSeries.

Educational objectives

Understand the art and science of DB2 query optimization on the iSeries

Explain the methodology for tuning and monitoring DB2 UDB for iSeries SQL and query performance

Discuss how to design high-performing SQL applications on the iSeries

Recognize the database and system parameters that can impact performance

Topics

DB2 UDB for iSeries Query Optimizer

Parallel database processing - DB2 Symmetric Multiprocessor (SMP)

Indexing strategy

SQL application design and programming issues

Tools to use

Best practices for popular SQL interfaces, such as Open Database Connectivity (ODBC), Call Level

Interface (CLI), and Java Database Connectivity (JDBC)

Prerequisites

Intermediate knowledge of SQL and relational databases

Basic understanding of DB2 UDB for iSeries

Basic understanding of iSeries architecture and network management concepts

Basic understanding of iSeries work management

Remarks

Course will be held in Montpellier, France and taught in English

AS524F: IBM eServer iSeries/i5 Performance Analysis workshop [http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/\(ExtCourseNr\)/AS524F](http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/(ExtCourseNr)/AS524F)

Duration: 5 Days

Delivery Method: Classroom; (Hands-on Lab)

Language: ENGLISH

Dates

- From 26 to 30 of September 2005 (starting Monday 01:30 pm and finishing Friday 05:00pm)

Overview

Learn to better understand the techniques of performance analysis on the iSeries. Increase your knowledge on how the system operates and interfaces with applications. Acquire the skills to better manage performance on the iSeries system. The hands-on labs, focus on a review methodology based on iSeries Performance Tools License Product (5722-PT1) and the performance database files. Learn how to apply your interest and background in iSeries performance to solve more in-depth iSeries performance problems.

Enhance your knowledge of the iSeries concepts as they relate to performance, including the Technology Independent Machine Interface (TIMI), job run time structure, main storage pools and allocations, disk storage handling and auxiliary storage pools, management of jobs and tasks, performance data collection, monitoring and analysis using various performance tools, and their related input data. A new topic discusses concepts of Logical Partitioning with i5/OS (V5R3) and i5 (IBM POWER5) hardware, including capped and uncapped modes. Considerations for reviewing performance data in a Dynamic LPAR environment are included.

Explore the analysis approaches needed for different types of symptoms of performance problems. Apply tools and methodology of performance tuning on iSeries through hands-on exercises. Analyze data based on actual performance data and present an overview of the problems, findings, and recommendations associated with the data.

Audience

This is an intermediate course for clients, IBM Business Partners, and IBM technical support and service individuals involved in performance analysis.

Educational Objectives

Recognize and analyze system performance issues and recommend changes to address system performance problems

Recognize and understand the cause and effect relationships that exist in many different performance situations

Understand and apply the methodology and the tools on the iSeries to analyze and tune performance

Apply your performance measurement and analysis skill across a broad range of systems operations environment

Topics

Performance management considerations

Processor capacity

Components of performance and fundamental of queuing

Review of work management and system tuning techniques

System architecture implementation and the Technology Independent machine Interface (TIMI)

Performance Consideration for LPAR, including Virtual Processors and micropartioning with eServer i5 Hardware (IBM POWER5 processors)

Reatime monitoring

Performance data collection using Collection Services

Using iSeries performance tools and performance database files

Using iSeries query facilities to analyze performance data beyond what the performance tools provide

Prerequisites

You should complete:

Operating System/400 Structure, Tailoring and Basic Tuning (S6023)

iSeries Performance Analysis and Capacity Planning (S6095)

or have equivalent skills and experience

and be familiar with:

iSeries query facilities

iSeries-based application design and implementation

iSeries-based operating system principles and concepts

iSeries-based system work load scheduling (5250-online transaction processing, batch, server activity, and save/restore)

iSeries-based system administration

iSeries-based business application system design considerations

iSeries-based performance analysis

Remarks

Course will be held in Montpellier, France and taught in English

AS950BFR: Capacity Planning for IBM eServer iSeries/i5

[http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/\(ExtCourseNr\)/AS950BFR](http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/(ExtCourseNr)/AS950BFR)

Duration: 3 Days

Delivery Method: Classroom; (Hands-on Lab)

Language: ENGLISH

Dates

- From 3 to 5 of October 2005 (starting Monday 9:30 am and finishing Wednesday 05:00pm)

Overview

Learn about how to perform capacity planning for an IBM iSeries system. The course addresses the importance of reviewing performance data prior to estimating hardware resource requirement, giving consideration to the nature of workloads on the system. Differentiate between the behavior of batch work and on-line transaction processing (OLTP), including 5250-OLTP work and server applications responding to client requests. The content also includes a detailed discussion on logical partitioning consideration on the eServer i5 system (with IBM POWER5) and i5/OS (OS/400 V5R3) including virtual processors, micropartitioning capped and uncapped modes.

Discuss how to select a suitable set of performance data to base your predictive analysis of iSeries hardware requirements to satisfy performance objectives and planned workload increases on an iSeries system. Understand the need for adequate capacity to achieve the required service levels to meet the needs of your users. Appreciate the differences in required level of detail in capacity planning. The course will help you select the appropriate tool from a choice of capacity planning tools currently available to best meet your specific predictive needs.

Complete and extensive lab exercises using iSeries performance data representing a range of workload scenarios. You have the opportunity to review the performance data and make predictive estimates for a variety of growth situations. The tools discussed in this course include the Internet-based Workload Estimator from IBM, PATROL for iSeries - Predict from BMC Software®, Inc. , Performance Navigator® from Midrange Performance Group, Inc. and TeamQuest Model® from TeamQuest Inc. A discussion on the facilities available through IBM's Performance Management eServer iSeries (PM eServer iSeries) is included.

Audience

This is an intermediate course for iSeries performance specialists and iSeries capacity planning specialists and for IBM Business Partners, consultants, and implementation partners, who plan iSeries capacity.

Educational Objectives

Understand Logical Partitioning consideration including concepts of virtual processors, micropartitioning and dynamic LPAR

Develop a methodology suitable for each specific capacity plan

Collect performance data using collection services facilities on the iSeries

Review performance data for potential bottleneck

Select a suitable data set to build a model

Create an appropriate capacity planning model to represent the selected workload

Effectively perform capacity planning to satisfy the required service levels of the users

Review the impact of workload growth on the current iSeries resource utilization

Evaluate the effects of various upgrades to your iSeries system

Topics

Capacity planning considerations and strategy
iSeries performance analysis techniques - a review
iSeries performance data collection - using OS/400 collection services
Introduction to Performance Management eServer iSeries
Creating and calibrating capacity planning models using a selected set of data
Using Workload Estimator (WLE)
Using PATROL for iSeries - Predict
Using Performance Navigator
Using TeamQuest Model

Prerequisites

You should complete:

iSeries Performance Analysis and Capacity Planning (S6095)

or have equivalent experience in iSeries performance analysis and capacity planning.

Remarks

This classroom course is taught by an instructor experienced in iSeries capacity planning. It includes extensive capacity planning exercises using performance data representing a variety of workload environments. This classroom course is held in Montpellier, France and taught in English.

AS545BFR: iSeries - implementing Applications in IASP's

[http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/\(ExtCourseNr\)/AS545BFR](http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/(ExtCourseNr)/AS545BFR)

Duration: 2.5 Days

Delivery Method: Classroom; (Hands-on Lab)

Language: ENGLISH

Dates

Description

IASP's or Disk Pool Groups are a new function of OS/400 with V5R2. IASP's may be used by customers for 2 separate purposes.

1) High Availability. IASP's can be switched between systems or partitions for a scheduled to unscheduled outage raising the level of availability for applications and data that reside in the IASP

2) Server Consolidation. IASP's can provide a method of server consolidation as each IASP is a separate database and contain libraries of the same name as other IASP's.

This class will teach how to move applications into IASP's including work management changes required and how to run server jobs to access data in different IASP's

If the student's objective is to learn how to create a highly available environment, then AS544F iSeries Clustering Design and Implementation class should be a prerequisite

Audience

Service professionals and other individuals who implement IASP.

Prerequisites

You should have strong knowledge of iSeries architectural concepts and experience with the iSeries system.

AS544BFR iSeries Clustering Design and Implementation

Objectives

Plan for migrating into an IASP

Implementing Work Management for IASP's

Manage switched disks (applications and data)

Troubleshoot an IASP environment

Contents

IASP architecture

IASP commands

IASP management through the Graphical User Interface (GUI)

IASP troubleshooting

Remarks

Course will be held in Montpellier, France and taught in English

AS540BFR - IBM eServer iSeries Clustering Design and Implementation for V5R3

[http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/\(ExtCourseNr\)/AS540BFR](http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/(ExtCourseNr)/AS540BFR)

Duration: 4.5 Days

Delivery Method: Classroom; (Hands-on Lab)

Language: ENGLISH

Dates

- **From 21 to 25 of November 2005 (starting Monday 9:30 am and finishing Friday noon)**

Audience

Many hands-on labs are included in the course.

Educational Objectives

- Plan, implement, and manage an iSeries cluster
- Identify hardware in an High Speed Link (HSL) OptiConnect loop
- Implement applications using switched disk pools
- Troubleshoot a variety of cluster errors

Topics

High availability in an iSeries environment is achieved through the implementation of an iSeries cluster with switched disks that contain application objects. Successfully implementing a continuously available environment requires knowledge of the application, data, and end-user requirements. Examine the considerations for a well-coordinated continuously available environment using the iSeries cluster support. Enjoy a series of presentations and gain practical experience through hands-on lab exercises. Learn to:

- Understand the methods used to make data and applications continuously available
- Plan a hardware installation for an iSeries cluster
- Create and manage an iSeries Cluster
- Use the fundamentals of problem determination and correction in an iSeries cluster
- Understand the steps needed to create a switchable disk pool
- Establish and manage continuously available application objects using switched disks

Cluster architecture

- Hardware planning
- OS/400 commands and iSeries Navigator interfaces for clusters
- Cluster management
- Problem determination and correction

Prerequisites

Implementing Applications in IASP's (S6237 or AS545BFR) or have working knowledge of implementing applications using an Independent Auxiliary Storage Pool (IASP)

Remarks

Course will be held in Montpellier, France and taught in English

AS543F: Linux on iSeries

[http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/\(ExtCourseNr\)/AS543F](http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/(ExtCourseNr)/AS543F)

Duration: 4 Days

Delivery Method: Classroom; (Hands-on Lab)

Language: ENGLISH

Dates

- Not planned yet

Description

Linux will enable a new stream of e-business applications for the iSeries platform that complement its strength as an integrated core business solution.

Learn how to plan, implement, and provide basic management for a Linux partition on an iSeries system.

Learn about all aspects of Linux on iSeries in this hands-on course.

Load multiple distributions of Linux in all the different environments possible on the iSeries system:

hosted, non-hosted, and a mixture of both.

Audience

Service professionals and other individuals who implement Linux partitions on iSeries systems.

Educational objectives

Create a plan to implement Linux on iSeries.

Implement and manage an iSeries Linux partition.

Implement basic networking using virtual and direct resources.

Troubleshoot a Linux problem on the iSeries system.

Provide basic management for a Linux partition on iSeries.

Topics

Logical Partitioning (LPAR) architecture.

Linux to iSeries architecture and managing comparisons.

Virtual Input/Output (I/O) - how iSeries differs from other Linux platforms.

Linux on iSeries troubleshooting.

Linux and iSeries clustering.

Prerequisites

You should have good working knowledge of either iSeries systems or Linux systems.

Remarks

Course will be held in Montpellier, France and taught in English

ITSO9MFR: Tuning WebSphere Application Server Performance on iSeries Workshop

[http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/\(ExtCourseNr\)/ITSO9MFR](http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/(ExtCourseNr)/ITSO9MFR)

Duration: 3 Days

Delivery Method: Classroom; (Hands-on Lab)

Language: ENGLISH

Dates

- From 19 to 21 of October 2005 (starting Wednesday 9:30am and finishing Friday 5:00pm)

Abstract

About 50% of the time will be spend on labs

Overview

This workshop is developed for IBM eServer iSeries professionals whose responsibilities include IBM WebSphere performance maintenance and tuning. The WebSphere performance tuning workshop teaches you a systematic approach for developing and implementing a performance tuning process. It starts with the planning the testing environment and finishes with the optimal WebSphere configuration on iSeries.

In addition, the workshop includes the series of the DB2 topics that are related to WebSphere. Typical WebSphere applications access database objects using Structured Query Language (SQL). The lack of knowledge of how the database optimizer executes an SQL statement is the source of many performance problems.

The main focus of this workshop is to provide you with a fundamental knowledge of the Java, WebSphere, and database environments on the iSeries with a major emphasis on the practical aspects of the tuning process. This workshop covers the following topics:

- Tuning performance methodology

- The in-depth coverage of the Java and WebSphere environments on iSeries

- Tuning parameters and techniques for OS/400, Java virtual machine (JVM), and WebSphere

- Implementation of the database optimizer and ways to avoid the common problems when accessing DB2 Universal Database (UDB) for iSeries

- Overview of the available performance tools and their application in the tuning process

- Tips on the most efficient ways to perform WebSphere tuning

- Troubleshooting performance problems

All materials are based on OS/400 V5R3 and WebSphere Application Server V5.1

Audience

systems engineers iSeries

Educational objectives

The objective of this workshop is to provide in-depth knowledge about the tuning of WebSphere Application Server for iSeries.

Prerequisites

The ideal participant should demonstrate:

Proficiency in work management on iSeries

A working knowledge of the WebSphere on iSeries architecture

Experience in using the WebSphere administrative interface

A basic knowledge of the DB2 UDB for iSeries concepts

Remarks

Course will be held in Montpellier and taught in English with material in English



AS751BFR – IBM Websphere Portal – Express V5.0.2 implementation on iSeries

[http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/\(ExtCourseNr\)/AS751BFR](http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/(ExtCourseNr)/AS751BFR)

Duration: 3 Days

Delivery Method: Classroom; (Hands-on Lab)

Language: ENGLISH

Dates

- **Not planned yet**

Audience

Individuals with a basic understanding of programming concepts, knowledge of iSeries, OS/400, and System Licensed Internal Code (SLIC), and experience in how the iSeries works internally.

Educational Objectives

Learn the process and practices for implementation of WebSphere Portal - Express Version 5.0.2, when utilizing the iSeries platform. Focus on iSeries portal configuration wizard, enabling portal security with IBM Directory Server, portlet deployment, iSeries back-end integration, performance tuning and back-up and recovery in extensive hands-on labs

- Explain the features and functions of WebSphere Portal Express and Express Plus on the iSeries platform
- Understand planning considerations and evaluate topology options before deploying WebSphere Portal
- Install and configure WebSphere Portal on iSeries
- Administer WebSphere Portal using the new administrative Graphical User Interface (GUI)
- Install and activate portlets and portlet applications
- Integrate iSeries resources with WebSphere Portal
- Configure portal security with Lightweight Directory Access Protocol (LDAP) and single sign-on
- Transfer a portal configuration from test to production
- Backup and restore a portal instance
- Tune portal performance

Topics

WebSphere Portal Express V5.0.2 overview

Portal planning and scoping

Portal administration settings

Portlet deployment

iSeries back-end integration

Portal backup and restore

WebSphere Portal authentication

WebSphere Portal configuration

WebSphere Portal Express 5.0.2 installation on iSeries

WebSphere Portal Express 5.0.2 configuration with iSeries portal configuration wizard

Portal single sign-on

WebSphere Portal on iSeries performance tuning
Troubleshooting
Command line tools

Prerequisites

You should complete:

IBM WebSphere Portal Version 5 Fundamentals (SW741)

SW741 is available free of charge at:

<http://www.ibm.com/developerworks/websphere/library/tutorials/dl/sw741/>

You should also complete:

WebSphere Application Server Administration - Install and Config for iSeries (S6570) or

WebSphere Technical Enablement for iSeries (S6284)

or have equivalent WebSphere Application Server administration skills

Remarks

Course will be held in Montpellier, France and taught in English



AS761BFR: IBM WebSphere Portal-Express V5.0.2 Administration on iSeries

[http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/\(ExtCourseNr\)/AS761BFR](http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/(ExtCourseNr)/AS761BFR)

Duration: 3 Days

Delivery Method: Classroom; (Hands-on Lab)

Language: ENGLISH

Dates

- Not planned yet

Abstract

This 2 day hands-on lab course covers processes and practices for the administration of WebSphere Portal Express 5.0.2 on iSeries, taught in English.

Overview

This 2 day hands-on lab course covers processes and practices for the administration of WebSphere Portal Express 5.0.2 on iSeries. The course focuses on using Portal administration functions to manage portlets and access control, portlet customization, search engines, and security features. All the hands-on labs are run on iSeries servers.

Audience

This is an intermediate course for IBM customers, independent software vendors, system integrators, and IBM technical staff including architects and administrators who deploy solutions using WebSphere Portal Express V5.0.2.

Educational Objectives

This instructor-led, hands-on course teaches techniques and procedures to:

Discuss approaches and processes for the planning and designing of a portal community

Create Portal users and groups, and exercise access control options to manage their usage of

Portal resources

Install and activate portlets and portlet applications

Create new or existing Portal Places, and configure their default content

Publish Web content using Document Manager

Integrate and publish remote portlets

Topics

This instructor-led, hands-on course teaches techniques and procedures to:

Portal user interface

Page aggregation

User and group profiling and authentication

Rebranding the portal look and feel (Themes and skins implementation)

Utilizing the WebSphere Portal v5 Document Manager (PDM)

Portal search engine administration

Web clipping administration

Administering cooperative portlets

Portal planning and design

Prerequisites

You should complete the IBM WebSphere Portal Version 5 Fundamentals - (SW741) [Distance Learning] prior to attending this course. You can attend the distance learning course for free at <http://www-106.ibm.com/developerworks/websphere/library/tutorials/dl/sw741/>

Prior to attending this class it would be beneficial to attend the course IBM WebSphere Portal - Express V5.0.2 Implementation on iSeries (AS751) or AS751BFR which is planned days before this workshop.

You should complete IBM WebSphere Application Server for iSeries V5.1 Basic Administration (SW270/S6270) or WebSphere Technical Enablement for iSeries Workshop (S6284 or AS84BFR) or have equivalent WebSphere Application Server administration skills.

Students should also be familiar with the Web, e-business concepts, editing of Hypertext Markup Language (HTML) and Extensible Markup Language (XML) files, IBM HTTP Server and WebSphere Application Server Version 5 administration, and basic Java programming concepts.

Remarks

Course will be held in Montpellier, France and taught in English

AS048BFR: iSeries Advanced Performance Analysis Workshop

[http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/\(ExtCourseNr\)/AS048BFR](http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/(ExtCourseNr)/AS048BFR)

Duration: 5 Days

Delivery Method: Classroom; (Hands-on Lab)

Language: ENGLISH

Dates

- Not planned yet.

Audience

Individuals with a basic understanding of programming concepts, knowledge of iSeries, OS/400, and System Licensed Internal Code (SLIC), and experience in how the iSeries works internally.

Educational Objectives

Define the differences between iSeries Job Watcher and PEX Analyzer

Be able to decide which tool to use in different situations

Analyze the effect of the operating environment on both system and job performance

Identify what to change to improve performance

Compare the before and after results of a change

Develop a methodology for assessing multiple types of performance problems

Determine if hardware is being optimally used

Provide insight into the effect of operational changes on performance throughout a processing cycle

Identify those areas of an application that would get a performance benefit from redesign or a different implementation

Understand the benefit of stabilizing system resource usage (provide a more accurate system performance forecast)

Identify changes that would improve overall production

Resolve performance issues by demonstrating cause and effect of performance problems

Eliminate guessing and shooting from the hip types of changes

Topics

Define, collect, and analyze the iDoctor for iSeries tool's data

How Job Watcher analysis can eliminate the need for additional PEX analyses

How to use complex PEX analysis when problems cannot be solved using Job Watcher

Terminology:

Data collection options

What analysis path to choose for which kind of problem

Throughout the process - how to effectively use iDoctor's for iSeries capabilities

Run time analysis: optimizing resource usage

Wait time analysis: solving resource contention scenarios

Job Watcher or System Wide Job Watcher, which should be used when

Analysis examples: workload rates, slowdowns, and drilling down using Job Watcher analyses

Performance explorer: collection and analysis

What to use, why to use it, when to use it, and how much of it to collect

Prerequisites

You should have experience in:

Program to program control flow

Job to job control flow

How data base data is accessed on the system

Relationships and interdependencies of the hardware components, specifically the Central Processing Unit (CPU), main storage, and disk

System performance tuning and the effects that changing one tuning parameter or another can have on system performance

Remarks

Course will be held in Montpellier, France and taught in English

Information/Registration/accommodation

Enrolment information

IBMers through IBM Global Campus: <http://w3.education.ibm.com>

Customers, BPs through local IBM Direct or URL

<http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/External%5CX-23?OpenView&Start=1&Count=30&Expand=1.2#1.2>

Country	Telephone	Fax
Austria	0810 249029	0810 249035
Belgium / Luxembourg	078 15 54 79	078 155455
Denmark	7010 32 67	7010 3272
Finland	010 80 84 87	010 808582
France	0802 096 187	02 38 557707
Germany	01805 426018	01805 426019
Ireland	1850 205205	1 8154099
Italy	0800 017001	02 70312004
Netherlands	020 5145161	020 5040610
Norway	815 48165	815 48237
Spain	901 100 400 34 91 3976611	34 91 5193494 34 91 3975727
Sweden	077 1861010	077 1861042
Switzerland	0844 80 32 32	058 333 7696
UK	0845 7581329	0845 7577677
USA	1 800 426 83224	

Location

IBM Montpellier (south of France)
Parc Industriel de la Pompignane
34001 Montpellier Cedex, France
From Airport, you need 10 minutes by taxi.

For accommodation / Hotel / Travel

If you need a hotel, please fill the registration below and send to:
Email: pssc.contact@fr.ibm.com
We can book hotel room: about 75\$ per night - breakfast included

For more information

Internal Web: <http://w3.pssc.mop.ibm.com/educ/iedu.html> (travel from airport ...see PSSC Facilities)
Customer Web:

<http://www-5.ibm.com/services/learning/fr/ta-iris.nsf/External%5CX-23?OpenView&Start=1&Count=30&Expand=1#1>

Or contact

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