

# USERblue Spring 2005 Sessions: Monday, 03/14/2005

## eServer OpenPower Hardware Roadmap Including the iSeries, pSeries

21BX: Mon 8 - 9:15, Picasso, Sheraton

ID:770120

**Speaker:**

David Ayd  
IBM Corporation

**Curriculum:**

Architecture &  
Infrastructure/  
Performance &  
Capacity Planning

IBM's Power5-based system architecture, introduced in July 2004, addresses mission-critical enterprise selection criteria that include:

- addressing escalating 64-bit performance requirements, with an equal focus on the optimization of both technical and commercial workloads

- cost-effective and flexible consolidation of multiple OS instances and mixed workloads onto fewer servers

- management environment that maximizes system utilization across multiple servers

- on-demand capacity and virtualization engine technologies

This session will focus on IBM's future eServer OpenPower directions including and beyond Power5

## Linux on POWER - Features and Futures

21BU: Mon 8 - 9:15, Columbian, Sheraton

ID:770140

**Speaker:**

Ron Gordon  
IBM Corporation

**Curriculum:**

Linux

This session will present how Linux of POWER is optimized to pSeries and OpenPower systems and discuss product support, device support, performance, virtualization, and solutions available.

Comparison to Linux on non-POWER systems will be reviewed as well and solutions available and resources to help with more details on Linux on POWER. This session should enable participants to determine Linux on POWER systems and how to choose if Linux on POWER will support their Linux server needs.

## Best Practices for Care and Feeding of Tivoli Storage Manager

22BX: Mon 9:30 - 10:45, Picasso, Sheraton

ID:770034

**Speaker:**

Ron  
McCracken

**Curriculum:**

Distributed  
Storage

The speaker will discuss various best practices for the day-to-day maintenance and operation of a typical Tivoli Storage Manager implementation. It addresses the usual daily administrative tasks, interdependencies between these tasks, and a recommended daily sequence of events that comprise our recommended strategy to avoid problems and keep the TSM server and server database in good shape.

## Introduction to AIX Security

21BY: Mon 8 - 9:15, Water Tower, Sheraton

ID:770131

**Speaker:**

Jaqueline  
Lynch  
Mainline  
Information  
Systems

**Curriculum:**

System  
Administration &  
Security

This session will cover some of the basics of securing an AIX system and will include using freeware and shareware such as TCP Wrappers as part of an overall security plan.

# USERblue Spring 2005 Sessions: Monday, 03/14/2005

## POWER5 LPAR/Virtualization

### Overview

22BY: Mon 9:30 - 10:45, Water Tower, Sheraton

ID:770135

#### Speaker:

John Tesch  
IBM Corporation

#### Curriculum:

System  
Administration &  
Security

This session is designed for individuals responsible for installation or support of pSeries power5 systems. This lecture will discuss in detail on how to plan install document the installation process of the power5. The course will also give visual detail from the Hardware Management Console for installing the LPAR's of a system. Reviewing Processor, Memory and I/O slots requirements. This is a lecture, not hands on class, but the information will be able to be applied to real world systems. Session Objectives:<br><ul><li>Concept of the LPAR for power5</li><li>Review Physical System and the Virtualization</li><li> Fill out planning sheet</li><li>Create LPAR and profile</li><li> Add Processor Memory and I/O slots to the LPAR</li><li> Install AIX, Linux and OS/400 partitions</li><li>Review created LPAR</li></ul>

## IBM Virtualization Engine Systems Technologies

23BX: Mon 11 - 12:15, Picasso, Sheraton

ID:770121

#### Speaker:

David Ayd  
IBM Corporation

#### Curriculum:

Architecture &  
Infrastructure/  
Performance &  
Capacity Planning

The IBM Virtualization Engine leverages pre-tested technologies to help speed implementation. These technologies are integrated and delivered with certain IBM eServer servers. The technologies include:<br><li>Hypervisor supports partitioning and dynamic resource movement across multiple operating system environments</li><li>VLANs helps provide network virtualization capabilities that allow you to prioritize traffic on shared networks</li><li>Virtual I/O helps provide the ability to dedicate I/O adaptors and devices to a virtual server, allowing the on demand allocation and management of I/O devices</li></UN>

Learn more about IBM Virtualization Engine Systems Technologies in this session.

## Virtualization Engine for POWER Systems Running Linux

22BU: Mon 9:30 - 10:45, Columbian, Sheraton

ID:770149

#### Speakers:

Mike  
Ashford  
IBM Corporation  
Fant Steele  
IBM Corporation

#### Curriculum:

Linux

This session will be a lecture and a demo of Advanced OpenPower Virtualization. Topics to be reviewed and demonstrated are system set up, choosing parameters for virtualization of partitions, shared pools, dedicate partitions, Virtual I/O, and then initialization of Linux into virtualized partitions. A demonstration of this setup and then the affects of virtualization on system performance will be shown interactively. This session should enable participants to decide on the viability of Advanced Power Virtualization and train them in how to establish a virtualized POWER system.

## Linux on POWER Application Development Tools

23BU: Mon 11 - 12:15, Columbian, Sheraton

ID:770141

#### Speaker:

Steve  
Munroe  
IBM Corporation

#### Curriculum:

Linux

This session will review the variety of tools available to developers (ISV or Corporate) to create, test, and debug solutions that are to be run on Linux on POWER systems. Reviews of compilers, ADE environments, debuggers from OpenSource and commerical providers will be reviewed. This session should enable participants to be knowledgeable on the Linux on POWER development tools and choose tools that support their needs.

## AIX Functional Comparison to Linux

24BU: Mon 12:30 - 1:45, Columbian, Sheraton

ID:770144

#### Speaker:

Jay Ashford  
IBM Corporation

#### Curriculum:

Linux

This session will review the major functions in AIX and Linux and provide a brief comparison of differences and different approaches to many system options. Topics will include VM, file systems, schedulers, etc. This session should enable articipants to plan how to run Linux systems in conjunction with AIX systems and plan for differences between the two operating systems.

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## Best Practices for Tivoli Storage Manager Configuration and Sizing

24BX: Mon 12:30 - 1:45, Picasso, Sheraton

ID:770033

**Speaker:**  
Ron  
McCracken

**Curriculum:**  
Distributed  
Storage

The speaker will discuss various best practices surrounding configuration and sizing of TSM in a business environment. Service level agreements, hardware, network speeds, SAN issues, and solution sizing will be included. Typical inputs and design considerations will be presented so the attendee can begin the process of designing or improving a TSM solution for their own business.

## Exploiting your SAN Using Tivoli Storage Manager

25BX: Mon 2 - 3:15, Picasso, Sheraton

ID:770035

**Speaker:**  
Randy  
Larson  
IBM Corporation

**Curriculum:**  
Distributed  
Storage

With Tivoli Storage Manager, you have a choice of backup topologies: 1) Traditional over-the-network, 2) LAN-Free from a TSM client directly to a storage pool and 3) Server-free where an external SAN-attached data mover does the work of moving the data. This session will provide a comparison of these three topologies, focusing primarily on SAN exploitation with Tivoli Storage Manager. Included will be a discussion of hardware and software requirements, configuration options, and the advantages each alternative offers.

## Introduction to WebSphere Portal Server on AIX

24BY: Mon 12:30 - 1:45, Water Tower, Sheraton

ID:770115

**Speaker:**  
Nizam  
Ishmael  
IBM Corporation

**Curriculum:**  
Applications

Give some background on what WebSphere Portal Server offers to ISVs. Provide details on the architecture: Give details on how WebSphere Application Server is being used as a base component that provides core functions such as Security, Clustering etc. Portals basically add Integration capability on top of the WebSphere Application Server. Also, give some insight into other products that utilize Portal as a base.

## LAB: Care & Feeding of AIX: Best Practices

25BZ: Mon 2 - 3:15, Comiskey, Sheraton

ID:770134

**Speaker:**  
Susan  
Schreitmueller  
IBM Corporation

**Curriculum:**  
System  
Administration &  
Security

This session is intended to provide technical guidance in the form of best practices and general rules of thumb when setting up and managing an AIX/pSeries environment. It covers initial tuning suggestions, monitoring, recovery, maintenance and testing practices. The content herein will cover current AIX versions 5.1 and 5.2 with a light smattering of AIX 5.3. The AIX administrator should receive valuable information about managing an infrastructure that has a pSeries/AIX component including initial tuning values and monitoring suggestions for database or application servers or web servers.<br>

Session objectives:<br>

Identify Rules of Thumb and Best Practices in the areas:<ul><li>Installation & Maintenance</li><li>Tuning</li><li>Monitoring</li><li>Testing</li></ul>

## LAB: AIX Practical Performance Tuning

24BZ: Mon 12:30 - 1:45, Comiskey, Sheraton

ID:770122

**Speaker:**  
Susan  
Schreitmueller  
IBM Corporation

**Curriculum:**  
Architecture &  
Infrastructure/  
Performance &  
Capacity Planning

The attendee will utilize popular UNIX and AIX tools to analyze practical performance problems. This session will feature use of analysis tools to identify bottlenecks and tuning tools to change AIX parameters to correct avoidable bottlenecks. Attendees should have a good familiarity with UNIX, vi, and a general knowledge of AIX prior to attending the session.

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## Novell SUSE Linux

**25BU: Mon 2 - 3:15, Columbian, Sheraton**

**ID:770143**

**Speaker:**

Peter  
Woodward  
SUSE

**Curriculum:**

Linux

This session will be presented by Novell and review the latest developments in Novell SUSE Linux Enterprise Server, release 9. This 2.6 kernel based Linux distribution has many features and functions to support enterprise requirements from various schedulers, to device support, to distribution of Open Source code, to various system administration features and install and maintainance option. This session should enable participants to have a much deeper understanding of the Novell SUSE Linux capabilities to help them decide on it's applicability to their Linux needs.

## RedHat Presentation

**26BU: Mon 3:30 - 4:45, Columbian, Sheraton**

**ID:770142**

**Speaker:**

Courtney  
Tucker  
RedHat

**Curriculum:**

Linux

This session will be presented by RedHat and review the latest developments in RedHat Linux Enterprise Server AS. This 2.4 kernel based Linux distribution has many features and functions to support enterprise requirements from various schedulers, to device support, to distribution of Open Source code, to various system administration features and install and maintainance option. This session should enable participants to have a much deeper understanding of the Redhat Linux capabilities to help them decide on it's applicability to their Linux needs. A future look into RedHat Linux plans for the 2.6 kernel version will also be discussed.

## AIX Trend and Directions

**26BX: Mon 3:30 - 4:45, Picasso, Sheraton**

**ID:770123**

**Speaker:**

Jay  
Kruemcke  
IBM Corporation

**Curriculum:**

Architecture &  
Infrastructure/  
Performance &  
Capacity Planning

This session will discuss the latest features of AIX 5L V5.3 and the future directions for IBM enterprise UNIX operating system.  
You should have general knowledge of UNIX operating systems, AIX experience a plus.

## Planning for Virtualization

**26BY: Mon 3:30 - 4:45, Water Tower, Sheraton**

**ID:770125**

**Speaker:**

Jaqueline  
Lynch  
Mainline  
Information  
Systems

**Curriculum:**

System  
Administration &  
Security

The new virtualization available with POWER5 has changed the ballgame for capacity planning. This session will provide an introduction and some basic planning tips for the new functionality introduced with POWER5 and AIX v5.3 including the Shared Processor LPAR capabilities. Some of the features that will be discussed will include shared processor pools, CPU capacity, capped and uncapped LPARs, and the shared I/O capability introduced with the Virtual I/O Server partition.