



POWER8 and AIX Enhancements Workshop  
Information

<b>Length:</b>	20.0 Hours
<b>Ref:</b>	AN102G
<b>Delivery method:</b>	ClassroomInstructor Led Online
<b>Price:</b>	AUD

Overview

This 2.5 day workshop course is designed to provide continuing education for system administrators who have extensive experience with previous levels of POWER hardware, PowerVM, and AIX. It covers various enhancements to POWER hardware and firmware, VIOS, PowerVC, PowerKVM, and to the AIX operating system. It starts with an overview of POWER8 architecture, features, and POWER8 family. It then proceeds with discussions on various software and firmware enhancements (including PowerVC 1.2.2, VIOS 2.2.3.4 and AIX 7.1 TL3). These enhancements include eight thread SMT, simplified SEA configuration, SR-IOV support, VIOS support for E870 and E880 and other enhancements. This is accomplished by discussing the enhancements in each of these followed by hands-on labs, which provide additional exposure to the new environment.

For a lecture-only course that includes current POWER8 and AIX7 enhancements, attend *POWER8 and AIX Enhancements (AN101)*. There can be significant overlap in discussion content between AN101 and *POWER8 Systems and AIX Differences Workshop (AN102)*, depending upon where these courses are in their update cycles; read the course descriptions carefully. To learn only the very latest enhancements, attendance at IBM Technical conferences or symposiums is recommended.

Public

This advanced course is for anyone responsible for system administrative duties including implementing and managing IBM POWER7+ or POWER8 servers running AIX 7.1.

Prerequisites

You must have basic AIX, LPAR, **and** PowerVM system administration experience. The AIX prerequisite can be met by attending one of the following classes **or** you can have equivalent AIX skills:

- *Power Systems for AIX II: AIX Implementation and Administration (AN12G)*
- *AIX Jumpstart for UNIX Professionals (AN14G)*

The LPAR **and** PowerVM prerequisite can be met by attending the following class **or** you can have

equivalent LPAR skills.

- *Power Systems for AIX - Virtualization I: Implementing Virtualization (AN30G)*

Objective

- Discuss the POWER8 hardware and its features
- Discuss and manage eight thread simultaneous multithreading
- Discuss PowerVP features
- Discuss HMC and PowerVC enhancements
- Discuss PowerVM enhancements
- Discuss SR-IOV

Topics

**Day 1**

- Welcome
- Unit 1 - What's new in POWER hardware
- Exercise 1 - POWER8 hardware documentation

**Day 2**

- Unit 2 - PowerVM, HMC, and PowerVC enhancements
- Exercise 2 - PowerVM and HMC enhancements

**Day 3**

- Unit 3 - SMT enhancements and POWERVP
- Exercise 3 - SMT enhancements
- Unit 4 - Miscellaneous AIX/VIO enhancements
- Exercise 4 - Miscellaneous AIX enhancements