Mastering IBM AIX: Advanced Tools for AIX Performance Analysis

Kód kurzu: AN52G

Develop the skills to use kernel traces, trace based utilities, and svmon to measure and analyze CPU, memory, and I/O performance issues on IBM systems running AIX. Reinforce each lecture during extensive hands-on lab exercises and get practical experience applicable to their performance management requirements

Pro koho je kurz určen

The audience for this advanced training include AIX technical support personnel, performance benchmark personnel, and AIX system administrators.

Co Vás naučíme

- Use the trace facility to collect data and create a trace report
- Use the kernel trace facilities to analyze CPU performance issues
- Describe causes and impacts of high context switching rates
- Identify what causes a thread to block and what causes a later wake up
- Explain the relationship between the output of svmon -G, svmon -P, and svmon -S
- Calculate the amount of memory in use on the system
- Explain the relationship between svmon, vmstat, and ipcs output
- Categorize the memory in use on the system by segment type
- Identify which processes are using the most memory
- Identify which segments are using the most paging space
- Describe the characteristics of asynchronous I/O, synchronous I/O, direct I/O and concurrent I/O
- Identify if the expected type of I/O is being executed
- Tune asynchronous I/O

Požadované vstupní znalosti

You are expected to have extensive AIX skills. These skills can be obtained by attending the following courses:

- *Power Systems for AIX IV: Performance Management (AN510)*
- *Power Systems for AIX IV: Performance Management (ILO) (AX510)*

Osnova kurzu

Day 1

- Welcome
- Unit 1 - Trace Facilities
- Exercise 1 - Trace Facilities
- Unit 2 - Advanced Memory Topics - I
- Exercise 2 - Advanced Memory Topics - I

Day 2

- Unit 3 - Advanced Memory Topics - II
- Exercise 3 - Advanced Memory Topics - II
- Unit 4 - Advanced CPU Topics - I
- Exercise 4 - Advanced CPU Topics - I
- (optional) Exercise 4 - Advanced CPU Topics - I (Part 2)

Day 3

- Unit 5 - Advanced CPU Topics - II
- Exercise 5 - Advanced CPU Topics - II
- Unit 6 - Advanced I/O Topics - I
- Exercise 6 - Advanced I/O Topics - I - Part 1
- (optional) Exercise 5 - Advanced CPU Topics - II (Parts 2 &3)

GOPAS Praha
Na Strži 2097/63
140 00 Praha 4 - Krč
Tel.: +420 226 201 390
info@gopas.cz

GOPAS Brno
Nové sady 996/25
602 00 Brno
Tel.: +420 530 513 590
info@gopas.cz

GOPAS Bratislava
Dr. Vladimíra Clementisa 10
Bratislava, 821 02
Tel.: +421 902 903 132
info@gopas.sk

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Day 4

- Exercise 6 - Advanced I/O Topics - I - Part 2
- Unit 7 - Advanced I/O Topics - II
- Exercise 7 - Advanced I/O Topics - II
- (optional) Exercise 7 - Advanced I/O Topics - II - (Part 3)

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