

Course Outline



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Advanced Unix: Performance & Tuning

Course Description:

The objective of this course is to provide UNIX System Administrators with an introduction to system performance and tuning . At the end of the course delegates will have the skills required to monitor the performance of a Unix system, interpret performance data and tune the system for optimum performance.

This course is a generic UNIX course and will cover the tools and techniques available for the most popular variants of UNIX such as Solaris, AIX,HP-UX SCO and Linux.

Pre-requisites:

Delegates should be competent in the skills covered by the PTR Unix Administration course.

Course Content:

- **Introduction To System Performance**
- **Monitoring System Activity**
- **Managing The Workload**
- System Performance issues
- System Resources.
- The ps Command
- The cron Command
- System Accounting
- The sar Command
- The vmstat Command
- Reducing Workload
- Scheduling Priority
- Using at and cron for off-peak processing

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- **CPU Performance**
 - Kernel Tables
 - Kernel Parameters
 - Monitoring CPU Usage
 - Tuning Guidelines

- **Memory Performance**
 - Paging & Swapping
 - Conserving Memory
 - Monitoring Memory Usage
 - Tuning Guidelines

- **Disk Performance**
 - Partitions & Filesystems
 - Planning & Creating Filesystems
 - Filesystem Buffers
 - Monitoring Disk Usage
 - Tuning Guidelines

- **Kernel Configuration**
 - System V Kernels
 - BSD Kernels
 - Custom Kernels

Course Duration:

2 Days