

# Windows Server: Vital Signs Part 1

## WorkshopPLUS

**Duration:** 3 Days | **Focus Area:** Operations and Monitoring | **Level:** 300

The WorkshopPLUS provides participants with the skills they need to analyze and troubleshoot the overall health of the Windows Server. This course reviews key performance counters that measure the health of the operating system and the hardware. After successfully completing this workshop, participants will understand

how to use Performance Monitor and will be able to analyze environments running at least Windows Server 2012 R2 or Windows 7.

### OUTCOMES



#### Skills

Gain insights to Windows core troubleshooting tools and how to use them.



#### Best Practices

Learn how the Windows Server built-in tools work and how to work with them.



#### Way Forward

Take what you've learned in the classroom and apply it to your day to day business.

### PREREQUISITES

Participants that have existing experience performing general troubleshooting tasks will receive the most value from this course.



#### Recommended Qualifications

- Have a base understanding Windows Client and Windows Server operating systems and on their hardware components.



#### Hardware Requirements

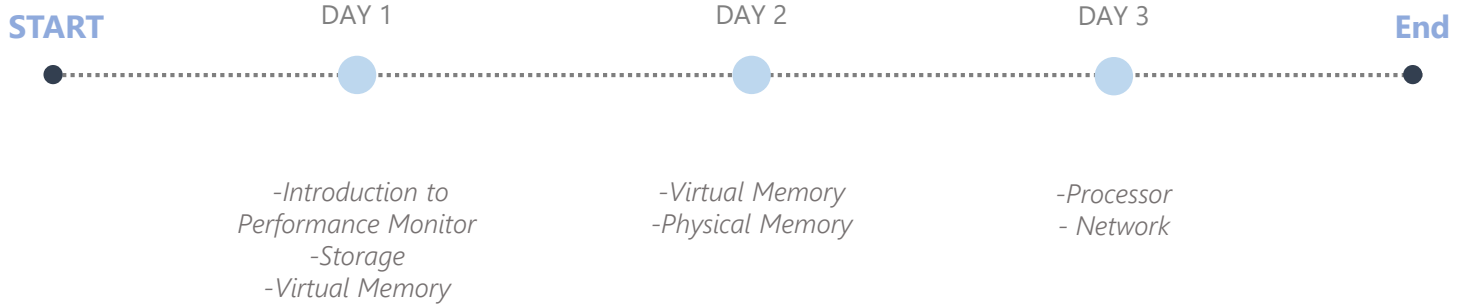
- An Intel Core-i5-based PC
- 4 GB RAM
- 128 GB HDD
- Windows 7 SP1 or later
- Internet access with at least 1 Mbps bandwidth per student

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## AGENDA

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Duration: 3 days



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## SYLLABUS

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### Introduction to Performance Monitor

- Performance Monitor
- Manage Perfmon Logs from the GUI
- Manage Perfmon Logs from the command Line
- Performance Monitor Trending
- Perfmon error handling
- Appendix

### Storage

- Physical Disk Hardware
- Virtual Storage
- Introducing Disk Performance counters & Concepts

### Virtual Memory

- What is Virtual Memory User Mode
- What is Virtual Memory Kernel Mode

### Physical Memory

- Committed Memory
- Working Sets of Processes
- Analysis of OS RAM

### Processor

- Measure Processor Usage
- Processor Privileged Mode
- Processor User Mode
- Processor Power management

### Network

- Introduction

**NEXT STEPS:** If you are interested in a WorkshopPLUS for your organization, contact your Microsoft Account Representative.