

# PowerShell Quick Start

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very quick - 6 hours, some labs delivered (or no 😊) by Ziemek Borowski

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## Summary

quick PowerShell course for people with limited experience on system administrator scripting (5 hours in person meeting + homework + online homework summary session). Course is based on "[Learn Windows PowerShell 3 in a Month of Lunches, Second Edition](#)" by Don Jones and Jeffery Hicks".

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## Method of participation

- 5 hours in person meeting
  - homework
  - 1 hour online (WebEx/telco) meeting to summary homework
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## Participant requirements

### Required knowledge / skills

- basic knowledge on Windows Server administration and basic knowledge on computer programming (simple VBA macros, Lego Robotics, VBScript or cmd.exe are enough).

### Required equipment

- Windows 7 or Windows 10 virtual machine
  - working access to 'Laboratory' with Windows Server 2016
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## Agenda

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- What is PowerShell
  - How to apply for everyday tasks
  - Running commands
  - The pipeline: connecting commands
  - Adding commands: function, snap-ins, modules
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## Agenda cont'ed

- Objects: data by another name
- Formatting: how to do it properly
- Filtering and comparison

- Simple function & script
- Homework selection: write script for specific needs

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## Homework

I expect one week for homework done. In middle of that time I will organize office hours using WebEx remote conference tool. After homework submission date, we will meet and discuss selected works.

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## Supporting sources

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- ['Windows PowerShell Survival Guide'](#)
  - ['Using Windows PowerShell'](#)
  - ['Learn Windows PowerShell 3 in a Month of Lunches, Second Edition' by Don Jones and Jeffery Hicks](#)  
Publisher: Manning Publications
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## What is PowerShell

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- [KixStart](#), [cmd.exe](#), [VBScript](#)
  - [Monad](#), Exchange Server
  - [PowerShell System Requirements](#)
  - Installing PowerShell v5.1
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## How to apply for everyday tasks

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- interactive shell
  - ad-hoc scripts
  - tools
  - CI/CD (Contionous Integration/Contionous Delivery)
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## Using help

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`update-help`

It can require Internet access

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# Running commands

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## 4.2. The anatomy of a command

# The pipeline: connecting commands

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# Adding commands: function, snap-ins, modules

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# Objects: data by another name

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# Formatting: how to do it properly

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# Filtering and comparison

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# Variables, input, output

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# Homework selection: write script for specific needs

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