Stand Alone Lab Outline

*Version Date: June 22, 2022*

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| Outline deadline date | 7/14/2023 |

[Style Guide - Stand Alone Labs](https://docs.google.com/document/d/1tKWA0Oes56uoZwfccPHxq4dlqsx4fTl5sfmM4jdaLOE/edit?usp=sharing)

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| Lab Information | |
| Lab Title | Manage Data with PowerShell |
| Author Name | [Michael Bender](mailto:mbender@bentech.net) |
| Associated Course | Formatting Data in PowerShell |
| Skill Path | PowerShell 7 Fundamentals |
| Estimated Length *Estimate in minutes* | 2:30 |
| Content Level *(Novice, Entry-Level, Practitioner, Advanced, Expert)* | Entry-level |
| Notes | **The learner will have no Internet access from within the lab environment. Make sure you've staged everything the learner needs prior to lab publication.** |

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| Lab Planning | |
| Learner Profile *Who will be taking this lab?* | This lab is designed for the beginning PowerShell user. |
| Learner Prerequisites *What do they already know?* | - Basic understanding of Powershell fundamentals  - Basic understanding of networking and computing fundamentals  - Have watched or currently watching PowerShell: Getting Started course |
| Scenario *What is your overall scenario for the lab? Use this as a check-in for each challenge to review progress/outcomes.* | The learner is an IT Support professional, and needs to skill up on PowerShell. Walking through common support tasks/queries they will learn how to use PowerShell to work with data. |
| Resources Needed | **VMs Needed (include OS):**   * Windows OS   **Applications Needed:**  **- Windows Powershell**  **- Powershell 7.x**  **- VS Code w/ Powershell extension** |
| Lab Description *250 characters* | In this lab, you’ll practice working with data using PowerShell. When you’re finished, you’ll under the basic commands that work with files and data, and be able to performed daily data tasks with PowerShell |

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| Learning Objectives  What are objectives? | |
| * **Manage Data with PowerShell** |  |

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| Lab Organization | | |
| 1 | Getting Started in the Lab Environment  No action required. Do not edit or remove.  Challenge Description:   * Here are the initial instructions and explanation of the lab environment. Read this while your environment is busy creating itself from nothing. Yes, this violates physics; we know. How fun!   Documentation Link:   * *<insert relevant path, course or tool documentation URL>*   Challenge Text:  **Welcome!**  This lab provides you with an environment consisting of one or more connections to different systems. The intent is for you to follow the instructions and subsequent analysis of tasks, as well as their effect within the environment; however, do not let this discourage you from veering from the path. It is perfectly safe and encouraged that you do—learn here without consequences. If you mess something up, just restart the lab.  But, that doesn't mean there are no rules! Though it seems like it, this is not a dream world and there are some tenets that you should keep in mind to have the best experience:   * Internet access into or out of the lab environment is not enabled. This is for everyone's safety and adherence to policy. * Some services take longer than others to fully initialize in the environment. The lab will be structured to avoid you waiting on services that take longer to configure, but if you skip ahead this may be something you need to keep in mind. * The lab environment has some pretty great accessibility and utility features. If you are unfamiliar with the lab environment, you can watch this short 6-minute course on [Getting Started in the Lab Environment](https://app.pluralsight.com/course-player?clipId=173d21fc-23ca-4e24-976b-c84f7abb825a) to cover the basics of navigation.   Enjoy! | 15 Min |
| 2 | Challenge Title  Challenge Description:      Learning Outcome:      Key Steps: | \_\_\_ Min |
| 3 | Challenge Title  Challenge Description:      Learning Outcome:      Key Steps: | \_\_\_ Min |
|  | The Last Challenge  Challenge Description:   * Welcome to the final challenge! This is your last chance to experiment in the environment. Clicking Finish Lab will end this little world that flittered into existence just for you.     Challenge Text:  **Welcome to the Final Challenge!**  This is your last chance to experiment in the environment. Clicking **Finish Lab** will end this little world that flittered into existence just for you.  Take this opportunity to try new things. Don't be afraid to break anything; be curious!  **Here are some things to try out:**   * **insert example** * **insert example**   You have unlimited power within this virtual world—take the time you need for unguided learning.  **Related Courses and Labs:**   * *<Links to courses and labs that are related to this lab. If it is a series, this can be the next in the series.>* | \_\_\_ Min |

1. Formatting in the Shell

1. Running Non-PowerShell commands

1. Working with the File System

1. Working with Data

1. Gathering Info

1. Running Scripts

    1. working with Get-Command