## **Basic Powershell Commands to navigate files and directories**

James Rourke has been the system administrator for Advanced Accounting for about 5 years. With the company's recent success and decision to migrate to the cloud, his workload has increased and the company decided to hire a second IT Professional to work with James as an assistant. Melissa Martin is just starting her career in IT, and the company is excited to help her expand her knowledge and contribute to the growth of the company. She has a good working knowledge of Windows but hasn't used Powershell very much.

James is showing her some basic commands for navigating Powershell and creating files and directories. Since she has some experience with Linux, James explains that many of the commands have aliases which are familiar Linux commands that carry out the same function.

The first alias she is already familiar with is the 1s command. This can be used to show the current contents of a folder/directory.

dir is also an alias that as seen from the screenshot below serves exactly the same purpose.

The regular Powershell command is Get-ChildItem.

These three commands will retrieve the contents of a folder. In order to retrieve the folder itself, you would use Get-Item. To make a new folder you would use New-Item followed by the name of the file you wish to create.

At this point James feels it is important to explain the concept of object classes within Powershell. First, he explains that the initial command is called a class and the syntax for the class consists of a verb followed by a noun: <a href="Mew-Item">Get-Item</a>, <a href="Mew-Item">New-Item</a>, <a href="Mew-Item">Add-Content</a>, etc. The verb indicates the action you wish to perform and the noun indicates the type of item on which you wish to perform the action.

The Add-Content command allows the user to add text directly to a file. In the following example basic identifiers like Client-ID, date, and company name are added as a simple template to the file. Using scripting and automation makes this process less tedious and will be a more indepth focus of a future project.

```
PS C:\Users\feedt\OneDrive\Desktop\Cyber\Advanced_Accounting_Materials\Financial Statements> Add-Content .\text1.txt "Client ID: Employee PS C:\Users\feedt\OneDrive\Desktop\Cyber\Advanced_Accounting_Materials\Financial Statements> Get-Content .\text1.txt Client ID: Employee ID: Company Name: Date:

PS C:\Users\feedt\OneDrive\Desktop\Cyber\Advanced_Accounting_Materials\Financial Statements> cat .\text1.txt Client ID: Employee ID: Company Name: Date:
```

As a final point of his explanation James explains the Get-Alias and Get-Help commands so Melissa can understand the parallels between Powershell and the Linux command line, and further explore Powershell on her own.

The Get-Alias command retrieves a list of aliases and their equivalent Powershell command, many of which Melissa is familiar with such as: cat, cp, man, and pwd.

Typing the Get-Help command by itself gives you more information on where to find help.

```
PS C:\Users\feedt\OneDrive\Desktop\Cyber\Advanced_Accounting_Materials\Financial Statements> Get-Help
TOPIC
    Windows PowerShell Help System

SHORT DESCRIPTION
    Displays help about Windows PowerShell cmdlets and concepts.

LONG DESCRIPTION
    Windows PowerShell Help describes Windows PowerShell cmdlets,
    functions, scripts, and modules, and explains concepts, including
    the elements of the Windows PowerShell language.

Windows PowerShell does not include help files, but you can read the
    help topics online, or use the Update-Help cmdlet to download help files
    to your computer and then use the Get-Help cmdlet to display the help
    topics at the command line.

You can also use the Update-Help cmdlet to download updated help files
    as they are released so that your local help content is never obsolete.

Without help files, Get-Help displays auto-generated help for cmdlets,
    functions, and scripts.

ONLINE HELP
    You can find help for Windows PowerShell online in the TechNet Library
    beginning at http://go.microsoft.com/fwlink/?LinkID=108518.
```

Typing help followed by the command you want to know more about gives specific and detailed information about the aliases, syntax, and properties of that particular command.

For now this is enough information to help Melissa get started managing files and directories before delving deeper into the world of Powershell.