Powershell Essentials

http://www.powershelltutorial.net
PowerShell Essentials Part-1

PowerShell Environment

PowerShell is Microsoft new Command Line Interface for Windows systems, it provides access to:

- CMD - Command Prompt
- PowerShell Functions, Cmdlets (Powershell Commands)
- Access to the .Net Framework API
- Access to Windows Management Instrumentation
- Access to Windows Component Object Model (COM)
We use the Get-Help cmdlet displays information about Windows PowerShell concepts and commands, including cmdlets, functions, CIM commands, workflows, providers, aliases and scripts.

- **Detailed** parameter is given it will show Parameter information and Examples.
- **Full** parameter is given it will show a more detailed list of info for Parameters.
- **Examples** parameter is given only examples are shown.

- `PS C:\Users>` `get-help copy-item`
- `PS C:\Users>` `get-help copy-item`
- `PS C:\Users>` `get-help copy-item`
- `PS C:\Users>` `get-help copy-item`
Powershell Essentials Part-2

Get-Help copy-item -detailed

- PS C:\Users> get-help copy-item -detailed
Powershell Essentials Part-2

Get-Help -full

- PS C:\Users> get-help copy-item -full
• PS C:\Users> get-help copy-item –example
PowerShell is an Object based Shell, this means that everything is an object. Those who have programed in C#, VB, VB script or any other Objects based language know very well the power of objects.

Object is Data and it has 2 types of components.

- Properties
- Method
Powershell Essentials Part-4

Filtering and Iterating over Objects

- Selecting Objects
- PS c:\> Get-Service | Sort-Object
Filtering and Iterating over Objects

- Selecting Objects Filter - Select first 5 service
- PS c:\> Get-Service | Sort-Object | Select-Object -first 5
Filtering and Iterating over Objects

- Selecting Objects Foreach

```powershell
PS C:\> 1..4 | ForEach-Object { $Sum = 0 } { $Sum += $_ } { $Sum }
```

![Powershell Essentials Part-4 Image]