What is **POWERSHELL?**

Windows PowerShell is a task automation and configuration management framework from [**Microsoft**](https://en.wikipedia.org/wiki/Microsoft), consisting of a [command-line](https://en.wikipedia.org/wiki/Command-line_interface) [shell](https://en.wikipedia.org/wiki/Shell_(computing)) and associated [scripting language](https://en.wikipedia.org/wiki/Scripting_language) built on the[**.NET Framework**](https://en.wikipedia.org/wiki/.NET_Framework)**.**

PowerShell provides full access to [COM](https://en.wikipedia.org/wiki/Component_Object_Model) and [WMI](https://en.wikipedia.org/wiki/Windows_Management_Instrumentation), enabling administrators to perform administrative tasks on both local and remote Windows systems as well as [WS-Management](https://en.wikipedia.org/wiki/WS-Management) and [CIM](https://en.wikipedia.org/wiki/Common_Information_Model_(computing)) enabling management of remote Linux systems and network devices.

Why **POWERSHELL**?

The commands for powershell are called **command-let,** these have a **verb-noun** syntax which makes remembering the commands easier.

Almost every commandlet has an alias which makes it even more convenient.

We can set our own aliases for frequently used commands using

**Set-Alias**

**Allows Easy Access to Otherwise Hard-to-Get Information**

Depending on the application you’re working with, you may find that some information simply isn’t available through the GUI at all, while other information is available but time-consuming to access. PowerShell solves this. And if you’re working with Microsoft Exchange, PowerShell gives you access to everything.

**Accomplishes Mundane Tasks Quickly**.

“Scripting” means automation – so just about anything you can do with a few mouse clicks in the GUI can be done more quickly in PowerShell. If you’re going to be doing a task more than two or three times it's better to script it.

**The What-if command**

This parameter instead of running a script or a command, will only display the consequence of the action on the console.So when not sure of how things may turnout what-if can be used.