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| Power Shell Scripting | | | |
| Version | Date | Developed By | Description |
| 1.0.0 | 01 Oct. 18 | Hitesh Gupta | Initial Implementation |
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# Introduction

**Shell:** It is nothing but an interface between the user and the services of operating systems such as UNIX, LINUX, Mac or WINDOWS (to some extent). A shell is special user program which provide an interface to user to use operating system services. Shell accepts human readable commands from user and converts them into something which kernel can understand. It is a command language interpreter that executes commands read from input devices such as keyboards or from files. The shell gets started when the user log in or start the terminal.

**Shell scripting:** Shell scripting is writing a series of command for the shell to execute. It can combine lengthy and repetitive sequences of commands into a single and simple script, which can be stored and executed anytime. This reduces the effort required by the end user.

With shell scripting, you can automate the tasks which you are doing daily for mundane tasks.

# Why we need Shell Scripts

There are many reasons to write shell scripts –

1. To avoid repetitive work and automation
2. System admins use shell scripting for routine backups
3. System monitoring
4. Adding new functionality to the shell etc.

# The advantages of shell scripts

1. Prone to costly errors, a single mistake can change the command which might be harmful
2. Slow execution speed
3. Design flaws within the language syntax or implementation
4. Not well suited for large and complex task
5. Provide minimal data structure unlike other scripting languages.

# Use of Shell Scripts in the development (.Net)