What is automation?

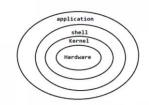
Automation is a process by which we can complete any task with less human intervention or without human intervention

Exaple: shell scripting, Perl, ruby

Why automation?

- 1. accuracy in data handling
- 2. To improve productivity
- 3. To reduce employee power
- 4. Faster and cheaper

What is shell scripting?



- 1. Shell is responsible to read commands given by user
- 2. Shell is interface between user and kernel
- 3. When user executed a command then shell will take that command and will verf iy syntax of that command.if syntax is valid shell will give command instruction to kernel
- 4. Kernel will interect with hardware and will perform operation

There are several shells

- 1. korn shell
- 2. Bourne shell
- 3. Cshell
- 4. Bash shell
- 5. Tshell
- 6. Zshell

Out of all the above shells, bash shell is the most powerfull and most used shell

See the shells

vagrant@server2:~\$ cat /etc/shells # /etc/shells: valid login shells /bin/sh /bin/dash /bin/bash /bin/rbash /usr/bin/tmux /usr/bin/screen

See the default shell

vagrant@server2:~\$ echo \$SHELL
/bin/bash

Where bash is located

vagrant@server2:~\$ which bash /bin/bash

What is shell scripting

A shell script is a text file that contains a sequence of commands for a UNIX-based operating system. It is called a shell script because it combines a sequence of commands, that would otherwise have to be typed into the keyboard one at a time, into a single script. The shell is the operating system's command-line interface (CLI) and interpreter for the set of commands that are used to communicate with the system.

Example 1

#!/bin/bash # Author: sazzadul

Date created: 09/12/2020

Description: Run Basic Administrator task

whoami pwd date Is -I

Example 2

Run Basic Administrator task

#!/bin/bash # Author: sazzadul

Date created: 09/12/2020

Description: Run Basic Administrator task

echo Run Basic Administrator task

Top Df -h Free -m Uptime Iostat

What is shebang



On Linux, a shebang (#!) is a special line at the beginning of a script that tells the operating system which interpreter to use when executing the script. This line, also known as a hashbang, shabang or "sharp-exclamation", is the first line of a dash and starts with "#!" followed by the path to the interpreter.