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**Shell**:

* It is a program that interpret commands typed by user and send them to OS.
* It provides platform to write commands, displays relevant output.

|  |  |  |  |
| --- | --- | --- | --- |
| **Shell** | **Short name** | **Shell prompt** | **Executable file** |
| Bourne shell | sh | $ | /bin/sh |
| Bourne again shell | bash | $ | /bin/bash |
| C shell | csh | % | /bin/csh |
| TC shell | tcsh | & | /bin/tcsh |
| Korn shell | ksh | $ | /bin/ksh |
| Z shell | zsh | $ | zsh |

* To list out all available shells,

Command: cat /etc/shells

* To check default/login shell,

Command: echo $SHELL

* To check current shell,
* Method-1 (preferable)

Command: echo $0

* Method-2

Command: echo $$

It gives PID of current shell.

Command: ps -p <PID>

* Method-3

Command: ps -p $$

* Login shell:
* It is a shell to through which user tries to login to his account.
* This shell is specified at the time of user creation.
* It can be changed later on.
* Non login shell:
* It is invoked from login shell or any other sub shell to run the script or any other commands.
* To check sub shell,

Command: echo $0

* Interactive shell:
* User can interact with the shell.
* Example: command run
* Non-interactive shell:
* User cannot interact with the shell.
* Example: script execution, sleep command