#### What is variables?

A variable is a temporary storage of data in memory.

It stores information that is used for customizing the shell environment and by many system and application processes of function properly.

The shell allows us to stores a value in a variable.

This value may include a string of alphanumeric characters, white spaces, and some special characters.

There are two types of variables:

- 1. Local variable
- 2. Environment variable.

**LOCAL VARIABLE:** - (one type of private variable and current shell call value)

A Local variable is private to the shell in which it is created and its value cannot be used by processes that are not started in that **shell**.

This value of a local variable is available only in the current shell and not in the sub-shell.

#### **ENVIRONMENT VARIABLE: - (GLOBAL VARIABLE)**

Is passed from the current shell to sub-shell during the execution of a script.

In other words, the value stored in an environment variable is passed from the parent process to the child process.

VARIABLES: - env

Some environment variables are defined automatically through system and user start up files at login/

```
Last login: Tue Feb 8 05:25:17 2022

[root@localhost -] # env | # env
```

# Temporary value call only current shell

```
[root@localhost ~]# var=vivek
[root@localhost ~]# echo $var
vivek
[root@localhost ~]#
```

: @localhost ~]# export var

Export value

@rodflocabutLs\_couckBerewold:e01;34:lne01;36:lne00;pi=00;33:so=01;35:do=01;35

# **Results**

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```
SSH CONNECTION=192.168.254.1 50402 192.168.254.133 22
LANG=en US.UTF-8
HISTCONTROL=ignoredups
HOSTNAME=localhost.localdomain
XDG SESSION ID=6
USER=root
SELINUX ROLE REQUESTED=
PWD=/root
HOME=/root
SSH CLIENT=192.168.254.1 50402 22
SELINUX LEVEL REQUESTED=
XDG DATA DIRS=/root/.local/share/flatpak/exports/share:/var/lib/flatpak/exports/share:/usr/local/sh
SSH TTY=/dev/pts/0
MAIL=/var/spool/mail/root
TERM=xterm
SHELL=/bin/bash
SELINUX USE CURRENT RANGE=
SHLVL=1
LOGNAME=root
DBUS SESSION BUS ADDRESS=unix:path=/run/user/0/bus
XDG RUNTIME DIR=/run/user/0
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/root/bin
HISTSIZE=1000
var=vivek
LESSOPEN=||/usr/bin/lesspipe.sh %s
=/usr/bin/env
[root@localhost ~]#
```

```
unset var
[root@localhost ~]# env
LS COLORS=rs=0:di=01:34:ln=01:36:mh=00:pi=40:33:so=01:35:do=01:35:bd=40:33:01:cd
SSH CONNECTION=192.168.254.1 50402 192.168.254.133 22
LANG=en US.UTF-8
HISTCONTROL=ignoredups
HOSTNAME=localhost.localdomain
XDG SESSION ID=6
USER=root
SELINUX_ROLE_REQUESTED=
PWD=/root
HOME=/root
SSH CLIENT=192.168.254.1 50402 22
SELINUX_LEVEL_REQUESTED=
XDG_DATA_DIRS=/root/.local/share/flatpak/exports/share:/var/lib/flatpak/exports/share:/usr/local/share:
SSH_TTY=/dev/pts/0
MAIL=/var/spool/mail/root
TERM=xterm
SHELL=/bin/bash
SELINUX_USE_CURRENT_RANGE=
SHLVL=1
LOGNAME=root
DBUS SESSION BUS ADDRESS=unix:path=/run/user/0/bus
```

```
Examples: -
[root@localhost ~] # COUNT=40
[root@localhost ~] # echo $COUNT
40
[root@localhost ~] # first_name=vivek
[root@localhost ~] # echo $first

[root@localhost ~] # echo $first_name
vivek
[root@localhost ~] # var="am i vivek and i m using linux"
[root@localhost ~] # echo $var
am i vivek and i m using linux
```

```
Check available shell
[root@localhost ~] # chsh -l
/bin/sh
/bin/bash
/usr/bin/sh
/usr/bin/bash
[root@localhost ~] # cat /etc/shells
/bin/sh
/bin/bash
/usr/bin/sh
/usr/bin/sh
/usr/bin/sh
/usr/bin/sh
```

## All assign variable and value check

# shell | less

```
ot@localhost ~]# set |less
ASHOPTS=checkwinsize:cmdhist:complete fullquote:expand aliases:extglob:extguote:force fignore:histappend:interactive comments:login shell:progcomp:promptvars:sourcepath
ASH COMPLETION VERSINFO=([0]="2" [1]="7")
ARSH VERSINFO=([0]="4" [1]="4" [2]="19" [3]="1" [4]="release" [5]="x86_64-redhat-linux-gnu")
ARSH_VERSION='4.4.19(1)-release'
OLUMNS=189
ONF FILE=/etc/vdoconf.yml
OUNT=40
BUS SESSION BUS ADDRESS=unix:path=/run/user/0/bus
                                       [\n {end.
[\n {create},\n { SLAVEL
                                                                                                        },\n
},\n
{push-pem\n
                                                                                           }\n
{__VOLNAME}\n
                          },\n
{__VOLNAME [\n
},\n
                                                                 {delete\n
 {force}\n
                                              {__SLAVEURL [\n
                                                     AVEURL [\n
{force}\n
{config},\n
                                                                                                                               {set
                                                                                                                      {statu
}\n
                                                                                                                             {peer [\
},\n
LUSTER_FINAL_LIST=
```