

TB: #101

Shell Scripting : #01 – Playing with Variables

Prereq : Shell commands – cat, which, type, ls, echo

- Variable declaration
- Sourcing
- Using a variable
- Taking User input in a variable
- Appending values of a variable . Eg: PATH
- Creating aliases

1) That's how vars are declared and used.

```
bash-4.1$ name='ritam'
bash-4.1$ age=60
bash-4.1$ echo $age
60
bash-4.1$ echo "My name is $name , I'm $age years old."
My name is ritam , I'm 60 years old.
bash-4.1$
```

2) Sourcing.

```
-bash-4.1$ cat sourcetest.cfg
#env names
dev=devhost123
test=teshost345
prod_1=prdhost456
prod_2=prdhost457

-bash-4.1$ echo $dev

-bash-4.1$
```

```
bash-4.1$ source/<.> <file_path>^C
bash-4.1$ . ./sourcetest.cfg ^C
bash-4.1$ source ./sourcetest.cfg
bash-4.1$ echo $dev
devhost123
```

- 3) When varA=valA, varB=varA
- 4) Taking user input

```
-bash-4.1$ #suppose In a script user will enter the env type
-bash-4.1$ #and the hostname will automatically appear
-bash-4.1$ #syntax for taking user input
-bash-4.1$ #read -p "<Text to be shown >" <var_name>
-bash-4.1$ read -p "Enter Env type : " env_type
Enter Env type : test
-bash-4.1$
```

```
-bash-4.1$ echo $env_type
test
-bash-4.1$ #so value of var. env_type is -- 'test'
-bash-4.1$ #but we need the value of 'test' variable
-bash-4.1$ echo ${!env_type}
teshost345
```

- 5) Appending values

```
-bash-4.1$ #I can execute a command like ls
-bash-4.1$ ls
bpel.cfg  bpelcfgGen.sh  connect  turn_clds
-bash-4.1$ #check the location of the executable
-bash-4.1$ which ls
alias ls='ls --color=auto'
        /bin/ls
-bash-4.1$ echo $PATH
/bin:/usr/bin:/sbin:/usr/sbin:/usr/local/bin:/usr/local/s
-bash-4.1$ pwd
/home/rb270m/automa7ion
-bash-4.1$ #you have a script at PWD and you want to
-bash-4.1$ #execute it directly from any dir
-bash-4.1$ #then you need to add your dir path to PATH var
-bash-4.1$ PATH=$PWD:$PATH
-bash-4.1$ echo $PATH
/home/rb270m/automa7ion:/bin:/usr/bin:/sbin:/usr/sbin:/usr/
-bash-4.1$
```

- 6) Alias

```
-bash-4.1$ ls
bpel.cfg  bpelcfgGen.sh  connect  turn_clds
-bash-4.1$ type ls
ls is aliased to `ls --color=auto'
-bash-4.1$ which ls
alias ls='ls --color=auto'
        /bin/ls
-bash-4.1$ #alias <alias_name>='command'
-bash-4.1$ alias lsno='ls --color=none'
-bash-4.1$ lsno
bpel.cfg  bpelcfgGen.sh  connect  turn_clds
-bash-4.1$ #output is not colored
-bash-4.1$
```