

Bash Scripting

What is Bash Scripting ?



Sayam · Sep 5, 2022 · 2 min read

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What is Bash scripting and how does it work?

- Bash, short for Bourne-Again Shell, is a Unix shell and a command language interpreter. It interprets a shell scripting language and executes the commands.
- Bash scripting can be used to automate linux tasks (automate means instead of executing individual commands to perform a specific task , simply run the bash file which can automate the same process).

How to create a bash file?

- to create a bash file , type the command given below →

```
nano filename.sh
```

COPY



```
sayam@sayam-VirtualBox: ~/Desktop
File Edit View Search Terminal Help
sayam@sayam-VirtualBox:~$ cd Desktop
sayam@sayam-VirtualBox:~/Desktop$ nano automate.sh
```

- bash script to perform auto update of installed linux packages.

```
#!/bin/bash

echo "Do you want to upgrade" //asking user choice
echo "1. yes"
echo "2. no"
read n
if(($n==1))
then
sudo apt-get upgrade -y // command to update
elif(($n==2))
then
exit
else
echo "Wrong choice entered"
fi
```

```
sayam@sayam-VirtualBox: ~/Desktop
File Edit View Search Terminal Help
GNU nano 4.8 automate.sh Modified

#!/bin/bash

echo "Do you want to upgrade"
echo "1. yes"
echo "2. no"

read n

if(($n==1))
then
sudo apt-get upgrade -y
elif(($n==2))
then
exit
else
echo "Wrong choice entered"
fi
```

How to run a bash file ?

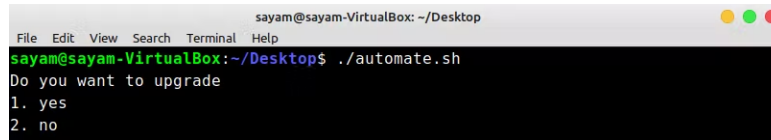
- In order to run a bash file , firstly add executable permissions to bash file. To make a bash file executable follow the command given below

```
chmod +x filename.sh
```

```
sayam@sayam-VirtualBox: ~/Desktop
File Edit View Search Terminal Help
sayam@sayam-VirtualBox:~/Desktop$ chmod +x automate.sh
sayam@sayam-VirtualBox:~/Desktop$
```

- After adding executable permissions , run the bash file follow the below command

```
./filename.sh
```



A terminal window titled 'sayam@sayam-VirtualBox: ~/Desktop' with a menu bar (File, Edit, View, Search, Terminal, Help). The prompt is 'sayam@sayam-VirtualBox:~/Desktop\$'. The user enters './automate.sh'. The script outputs 'Do you want to upgrade' followed by a numbered list: '1. yes' and '2. no'.

Bash Script to install and configure git

- Bash Script to automate the process of installation of git and configure it.

```
#!/bin/bash

if ! [ -x "$(command -v git)" ];then
echo "Git not found in your system"
echo "-----"
echo "-----"
echo '###Installing Git..'
sudo apt-get install git -y
echo "-----"
echo '###Congigure Git..'

echo "Enter the Username for Git:";
read GITUSER;
git config --global user.name "${GITUSER}"

echo "Enter the Email for Git:";
read GITEMAIL;
git config --global user.email "${GITEMAIL}"

echo "-----"
echo "-----"
echo 'Git has been configured!'
git config --list

else
echo "Git is already installed in your system"
fi
```

```
sayam@sayam-VirtualBox: ~/Desktop
File Edit View Search Terminal Help
GNU nano 4.8 install.sh

#!/bin/bash

if ! [ -x "$(command -v git)" ];then
echo "Git not found in your system"
echo "-----"
echo "###Installing Git.."
sudo apt-get install git -y
echo "-----"
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echo "Enter the Username for Git:";
read GITUSER;
git config --global user.name "${GITUSER}"

echo "Enter the Email for Git:";
read GITEMAIL;
git config --global user.email "${GITEMAIL}"

echo "-----"
echo "-----"
echo 'Git has been configured!'
git config --list

else
echo "Git is already installed in your system"
fi

sayam@sayam-VirtualBox:~/Desktop$ ./install.sh
Git is already installed in your system
sayam@sayam-VirtualBox:~/Desktop$
```

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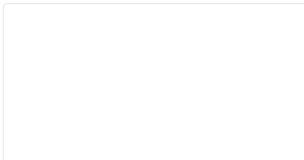
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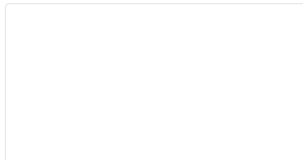
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Useful Linux Commands

Directory Operations pwd → displays current working directory. mkdir → make a new directory. cd d...

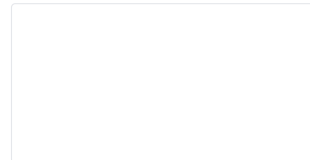
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Bash Script to automate git-push

Bash Script to automate git-push Operation - Bash Script program to automate git push operation , t...

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