**User1.sh**

#!/bin/bash

set -xe

read -p "Enter the Username:" USER\_NAME

SPEC='!@#$%^&\*()\_'

SPECCHAR=$(echo ${SPEC} | fold -w1 | shuf | head -1)

PASSWORD=${RANDOM}$(date +%s%N)${SPECCHAR}

useradd -m ${USER\_NAME}

echo ${PASSWORD} | passwd --stdin ${USER\_NAME}

echo "Sucessfully Created user ${USER\_NAME} with password as ${PASSWORD}"

**Test1.sh**

#!/bin/bash

#set -x -e

read -p "Please enter the user name:" USER\_NAME

PASSWORD=$(curl -sL https://helloacm.com/api/random/?n=14)

#read -s -p "Please enter the password:" USER\_PASS

#useradd -m ${USER\_NAME} -p ${PASSWORD}

useradd -m ${USER\_NAME}

echo ${PASSWORD} | passwd --stdin ${USER\_NAME}

echo "The Username is ${USER\_NAME} & Password is ${PASSWORD}"

**IF STATEMENT:**

=================================================

[root@ip-10-1-1-89 tmp]# cat usercreate.sh

#!/bin/bash

#THIS SCRIPT WILL CHECK FOR THE USER NAME BEFORE CREATING IT.

#Read Username from the keyboard.

read -p "Please enter the username:" USER\_NAME

#Create Complex Password.

SPEC='!@#$%^&\*()\_'

SPECCHAR=$(echo ${SPEC}|fold -w1|shuf|head -1)

PASSWORD=India@${RANDOM}${SPECCHAR}

#Check if the users Exists and if exists thow error.

EXUSER=$(cat /etc/passwd |grep -i ${USER\_NAME} |cut -d ":" -f 1)

#EXUSER=$(cat /etc/passwd |cut -d ":" -f 1 | grep -i ${USER\_NAME})

echo "The existing user name is ${EXUSER} ."

if [[ ${EXUSER} == ${USER\_NAME} ]]

then

echo "User aleady exists. Please use a diffrent username..!!"

else

echo "Creating the new user...!!"

sleep 3s

useradd -m ${USER\_NAME}

echo ${PASSWORD} | passwd --stdin ${USER\_NAME}

passwd -e ${USER\_NAME}

#Print the USername and Password.

echo "Username is ${USER\_NAME} Password is ${PASSWORD} "

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**FOR LOOP:**

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[root@ip-10-1-1-100 ~]# ./[users.sh](http://users.sh/) India1 India2 India3

#!/bin/bash

USERS=${@}

#SPEC='!@#$%^&\*()\_+'

#SPEC\_CHAR=$(echo ${SPEC}|fold -w1|shuf|head -1)

#PASSWORD=$(date +%s%N)${RANDOM}${SPEC\_CHAR}

for USER in ${USERS}

do

SPEC='!@#$%^&\*()\_+'

SPEC\_CHAR=$(echo ${SPEC}|fold -w1|shuf|head -1)

PASSWORD=$(date +%s%N)${RANDOM}${SPEC\_CHAR}

useradd ${USER} -p ${PASSWORD}

echo "User ${USER} is successfully created."

echo ${PASSWORD}

Done

Other Way of FOR Loop:

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END=5

for ((i=1;i<=END;i++)); do

echo $i

Done

[root@ip-10-1-1-110 ~]# for X in sree harsha veerapalli

> do

> echo "Hello ${X}"

> done

Hello sree

Hello harsha

Hello veerapalli

${@} - for multiple arguments

${#} - gives argument count passed

${?} - Exit code 0 means success and any other is the error.

**WHILE LOOP-1**

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while [ "$stats" -gt 300 -o "$stats" -eq 0 ]

while [ "$stats" -gt 300 ] || [ "$stats" -eq 0 ]

[root@ip-10-1-1-85 tmp]# cat [while-usercreate.sh](http://while-usercreate.sh/)

#!/bin/bash

while :

do

#Ask for the username

read -p "Please enter the username:" USER\_NAME

#Check of the Username Exists

EXUSER=$(cat /etc/passwd | cut -d ":" -f 1 | grep -i ${USER\_NAME})

if [[ ${EXUSER} = ${USER\_NAME} ]]

then

echo "User ${USER\_NAME} already exists."

echo "Exit Code is ${?}."

else

#Generate a complex password

SPEC='!@#$%^&\*()'

SPECHAR=$(echo $SPEC | fold -w1 | shuf | head -1)

PASSWORD=Capita${RANDOM}${SPECHAR}

useradd -m ${USER\_NAME}

echo $PASSWORD |passwd --stdin ${USER\_NAME}

echo "${USER\_NAME} is sucessflly created.Password is ${PASSWORD}"

echo "Exit Code is ${?}."

fi

done

**WHILE LOOP -2**

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#!/bin/bash

read -p "Do you want to create users(Yes/No):" CHOICE

while [[ ${CHOICE} = "Yes" ]] || [[ ${CHOICE} = "yes" ]]

do

#Ask for the username

read -p "Please enter the username:" USER\_NAME

#Check of the Username Exists

EXUSER=$(cat /etc/passwd | cut -d ":" -f 1 | grep -i ${USER\_NAME})

if [[ ${EXUSER} = ${USER\_NAME} ]]

then

echo "User ${USER\_NAME} already exists."

echo "Exit Code is ${?}."

else

#Generate a complex password

SPEC='!@#$%^&\*()'

SPECHAR=$(echo $SPEC | fold -w1 | shuf | head -1)

PASSWORD=Capita${RANDOM}${SPECHAR}

useradd -m ${USER\_NAME}

echo $PASSWORD |passwd --stdin ${USER\_NAME}

echo "${USER\_NAME} is successfully created.Password is ${PASSWORD}"

fi

read -p "Do you want to create users(Yes/No):" CHOICE

done

echo "You have opted for no...!!"

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Otherway of WHILE:

END=5

i=1 ; while [[ $i -le $END ]] ; do

echo $i

((i = i + 1))

done

==========================================================

**IF Statement - Multiple Conditions:**

echo -e "1.Morning\n2.Afternoon\n3.Evening\n4.Night"

echo -n "Please select from above:"

read n

if [[ $n -eq 1 ]]

then

echo "Good Morning"

elif [[ $n -eq 2 ]]

then

echo "Good Afternoon"

elif [[ $n -eq 3 ]]

then

echo "Good Evening"

elif [[ $n -eq 4 ]]

then

echo "Good Night"

Fi

FUNCTIONS:

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#!/bin/bash

myuser(){

read -p "Please enter the UserName:" USER\_NAME

PASSWORD=$(curl -sL https://helloacm.com/api/random/?n=14)

EXUSER=$(cat /etc/passwd|cut -d ":" -f 1|grep -i ${USER\_NAME})

if [[ "${EXUSER}" == "${USER\_NAME}" ]]

then

echo "UserName Already Exists..!!"

# exit

else

useradd -m "${USER\_NAME}"

echo "${PASSWORD}" | passwd --stdin "${USER\_NAME}"

echo "Created User "${USER\_NAME}" & Password will be "${PASSWORD}""

fi

echo "User "${USER\_NAME}" created....!!"

}

myuser

FUNCTION OTHER WAY:

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#!/bin/bash

function myuser {

read -p "Please enter the UserName:" USER\_NAME

PASSWORD=$(curl -sL https://helloacm.com/api/random/?n=14)

EXUSER=$(cat /etc/passwd|cut -d ":" -f 1|grep -i ${USER\_NAME})

if [[ "${EXUSER}" == "${USER\_NAME}" ]]

then

echo "UserName Already Exists..!!"

# exit

else

useradd -m "${USER\_NAME}"

echo "${PASSWORD}" | passwd --stdin "${USER\_NAME}"

echo "Created User "${USER\_NAME}" & Password will be "${PASSWORD}""

fi

echo "User "${USER\_NAME}" created....!!"

}

myuser

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#!/bin/bash

newuser () {

local USERNAME=${@}

useradd -m ${USERNAME}

echo "The ${USERNAME} is created..!!"o

}

newuser testuser1

newuser testuser2

newuser testuser3

newuser testuser4

newuser testuser5

newuser testuser6

Global & Loca Variables:

#!/bin/bash

NAME="GLOBAL-VARIABLE"

func(){

local NAME="LOCAL-VARIABLE"

echo ${NAME}

}

echo ${NAME}

func

RETURN:

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#!/bin/bash

function testing () {

read -p "Enter the first number:" NUM1

read -p "Enter the second number:" NUM2

NEWNUM=$(($NUM1+$NUM2))

#echo "The New Number is $NEWNUM""

return ${NEWNUM}

}

testing

GETVAL=${?}

ostechnix

Ostechnix

o$technix

linux

linus

unix

technology

hello world

HELLO world

CUT:

----

cat /etc/passwd | cut -c1-4

cat /etc/passwd | cut -c4

cat /etc/passwd | cut -c4-

cat /etc/passwd | cut -d ":" -f1

cat /etc/passwd | cut -d ":" -f1,2

GREP:

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cat /etc/passwd | grep -i tes

cat /etc/passwd | grep -v test

cat /etc/passwd | grep -i 't$'

cat testfile.txt | egrep '^(o|h)'

cat testfile.txt | egrep -n '^(o|h)'

cat testfile.txt | egrep -i '^(o|h)'

egrep '^[l-u]' testfile.txt

egrep '[l-u]$' testfile.txt

egrep '[l-y]$' testfile.txt

egrep '^[l-u]|[L-U]' file.txt (or) egrep '^([l-u]|[L-U])' file.txt

netstat -a | egrep -i '(CONNECTED | ESTABLISHED)'

netstat -a | egrep -i '(CONNECTED | LISTEN | ESTABLISHED)'

cat /etc/passwd | awk -F ':' '{print $1,$2,$3}'

cat /etc/passwd | cut -d ":" -f1,2,3

cat /etc/passwd | awk -F ":" -v OFS="," '{print $1,$2,$3}'

cat /etc/passwd | awk -F ":" '{print $1 "," $2 "," $3}'

cat /etc/passwd | awk -F ":" '{print $1 ", " $2 ", " $3}' - Additional comma spaces

cat /etc/passwd | awk -F ":" '{print "USERNAME:" $1 ", " $2 ", " "UID:"$3}' --(Ammending words)

Changing Data Order:

cat /etc/passwd | awk -F ":" '{print $7 ":" $1}'

cat /etc/passwd | awk -F ":" '{print "HOMEDIR:"$6,",""UID:"$3,",""USERNAME:"$1}'