Linux Commands:

**File Permissions x (executable – 1), R (Readable – 4), w (writeable – 2)**

**Chmod (Change Modes of files):**

Chmod user,group,others filename.ext

Chmod u/g/o x/r/w filename.ext

Rwx – user

rwx – group or other

writeable to the user: --w- :2

Readable group or others: r-- :4

Eg: chmod 244 test.txt

**Shell Script: Extension (.sh)**

**To see who is logged in:**

Whoami/ echo $USER

**TO CHECK Version of Linux: Lsb\_release -a**

**To Create File:**

Touch – eg. Touch testfile.txt

**To Enter in File:**

Vim – to open file

**To Access AWS System:**

From GitBash – ssh -i filename.pem ec2-user@ipaddress

**To Show File contents:** cat

**To Open File:** vim (to install vim – sudo yum install -y vim)

**To See History of commands:**  history

**RedHat Linux Version:**

cat /etc/redhat-release

To Install Git: sudo yum install git

**Currently Logged In User:** echo $USER / whoami

**Copy anything from one machine to the other machine:** scp testfile.txt ec2-user@18.221.11.5:/home/ec2-user

**Hidden Folder Begins with .ssh (. Represents hidden folder):**

**To Create public and private key we used:** ssh-keygen

**Config File in .ssh (To login securely without releasing information):**

**Host devec2**

**user ec2-user**

**Hostname 18.221.11.5**

**Host qaec2**

**user ec2-user**

**Hostname 18.221.11.5**

**Identityfile ~/Downloads/TestInstance1.pem**

**GREP:** To search if there is a specific value or not in a file (eg. Grep -i (-i to ignore capital letters) grep -i valuetosearch filename)

**| to take output of first command as input to second command e.g ( cat textfile1.txt | grep -I Hello)**

**Vagrant status: to check status of the vagrant**

**Note: All Configuration files are kept in .etc folder**

**Note: in bin you can see all the commands or /usr/bin**

Sudo apt-get install default-jdk

**Manual: (man – to get the help of a specific command eg. Man ssh)**

**Tree (Program) to install using sudo apt-get install Tree. (to check what files and directories are in a specific location**

**Mkdir (To make directory)**

**Mv (move) To move file to another directory. Mv filename path**

**Find (to find path of a file)** find ~/dirA/ -name "testfile2.txt"

find ~/dirA/ -iname "\*estfile2.txt"

**To make ShellScript:**

**#!/bin/bash: Sheebang first line always**

**To find which shell you are working on use:**

**Echo $SHELL**

**To make it executable change its mode to chmod u+x filename.sh**

Then to run ./simplescript.sh

**$ to create variable in the shell script eg. Var**

**Read (to take input in the file from user)**

**Eg:**

#!/bin/bash

echo "Hi what is your name?"

read var

echo "Welcome to shell ${var}"

#! /bin/bash

for i in {1..100}

do

echo $i

done

#!/bin/bash

for i in {1..100}

do

if [[ "$i%3" -eq 0 ]] && [[ "$i%5" -eq 0 ]]; then

echo "DEVOPS"

elif [[ "$i%3" -eq 0 ]]; then

echo "DEV"

elif [[ "$i%5" -eq 0 ]]; then

echo "OPS"

else

echo $i

fi

done

**Different types of Shell:**

**Ksh**

**Sh**

**Zsh**

**bash**

**Commands Executed:**

1 touch testfile.txt

2 vim testfile.txt

3 sudo apt-get install git

4 git version'

7 git version

8 echo $USER

9 clear

10 ls -l .ssh/

11 ssh-keygen

12 ls -l .ssh/

13 cat ~/.ssh/id\_rsa.pub

14 ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQDXCcMCuK1CACffSmcglk6TCpzxUo9NkpPm7jy768nBxqpM9irhuhwo1XrOKakBxxHoW2nPm6N0KRQKpYHdpXtzvAgcaBJyADaOhWbK25Ih0yPa+QMUoa5r1wELg0IyJCZXE7Sr96qNGGb6G3J+wq7y7bQi3W+YHxk73TWMlzv92gUyTaGGP63a4UMywa8LfHhJghme3L66mi0pzjTWuHZsVC3nq9hgbKW4AcXm0yyAy7H0fOVbh+pBuYMMKu4UxP5TbZVohgRgQWKYh+FH2uRe6cirScPUwekC+fCFrp14CEOA0xnwsBEOl3icP8243yfQ0TlyjR0IS3SRg+lEn5Wt vagrant@ubuntu-bionic

15 ssh ec2-user@18.221.11.5

16 cd ~/.ssh/

17 ls -l

18 vim config

19 ssh devec2

20 exit

21 cd ~/.ssh/

22 vim config

23 cd ~

24 ls -l

25 scp testfile.txt ec2-user@18.221.11.5:/home/ec2-user

26 vim config

27 cd ~/.ssh/

28 vim config

29 cat ~/Downloads/TestInstance1.pem

30 cd ~

31 ~/Downloads/TestInstance1.pem

32 cat ~/Downloads/TestInstance1.pem

33 cd Downloads

34 cd ~/Downloads/

35 cd ~/Downloads

36 mkdir Downloads

37 cd ~/Downloads

38 touch TestInstance1.pem

39 vim TestInstance1.pem

40 cd ~

41 cat ~/Downloads/TestInstance1.pem

42 scp testfile.txt ec2-user@18.221.11.5:/home/ec2-user

43 scp testfile.txt ec2-user@@

44 scp testfile.txt ec2-user@18.221.11.5/home/ec2-user

45 scp testfile.txt ec2-user@18.221.11.5:/home/ec2-user

46 clear

47 scp testfile.txt ec2-user@18.221.11.5:/home/ec2-user

48 cat ~/.ssh/config

49 vim ~/.ssh/config

50 scp testfile.txt ec2-user@18.224.5.180:/home/ec2-user

51 ssh ec2-user@18.224.5.180

52 ls -l /

53 vim testfile1.txt

54 grep -i hello testfile1.txt

55 grep hello testfile1.txt

56 cat testfile1.txt | grep -i hello

57 vagrant status

58 exit

59 ls -l

60 man ssh

61 ls -l

62 touch shellscript.sh

63 ls -l

64 clear

65 chmod u+x shellscript.sh

66 ls-l

67 ls -l

68 cd ~/devops

69 tree

70 apt install tree

71 sudo apt-get install tree

72 tree

73 tree Downloads/

74 mkdir dirA

75 cd dirA

76 cd ..

77 mkdir ~/dirA/dirB

78 ls -l ~/dirA/

79 touch testfile2.txt

80 mv testfile2.txt ~/dirA/

81 ls -l

82 ls -l ~/dirA/

83 history