**Week6day2 HW**

1. What is kernel in Linux and how to check the version of the one you are using?

It is the main component of a Linux operating system. It is the interface between the computer hardware and its processes.

Uname -r

1. What are two ways to check the number of cpu of your system?

Run the commands nproc and lscpu

1. What are two ways to check if the system architecture is 32 or 64 bits?

Run arch command or lscpu

1. List 2 ways to compress and 2 ways to extract a directory in Linux

2 ways to compress

Tar cpfz space new file name space file to be compressed name

Or run the command zip

2 ways to extract

Tar xpzf file name

Unzip file name

1. What is the meaning of -r and why do you use it while compressing a directory with zip?

-r means recursive we use it because we do not want to delete or to compress the directories and everything in it.

1. What are two commands used to download a package from internet?

Wget command or curl command

1. What is bash shell script?

It’s a text file where we put instructions (commands) to accomplish a specific task or multiple tasks at the same time.

1. How do we call the 1st line in a bash shell script and what is its purpose?

The first is called shebang, its referred to as ‘shebang’, it is points out the environment where the script need to be run.

1. What is the most popular shell environment and its meaning?

The most popular ONE IS BASH meaning Bourne Again Shell

1. What are two ways to execute a script?

Through visual studio code editor and the terminal

1. What is the meaning of IaC and its benefit?
2. Write a bash script to create a file call backup- follow by the current time on your system so each time that you run it, it creates a new file
3. Write a bash script which can create a user ansible with full name ansible Kubernetes in secondary group call student, password will be the same as the username, then after 5 second, the script will check if the user exists and 3 seconds later, will check if the password was set.

#! /bin/bash

useradd ansible4

passwd ansible4

sudo usermod -aG student ansible4

sudo cat /etc/passwd |grep ansible4

sleep 3

sudo cat /etc/shadow |grep ansible4

sleep 5

grep ansible4 /etc /passwd

usermod -c “ansible4 kubernetes” ansible4

s5ludivine@EK-TECH-SERVER04:~$ vim ansible4.sh

s5ludivine@EK-TECH-SERVER04:~$ bash ansible4.sh

Enter new UNIX password:

Retype new UNIX password:

passwd: password updated successfully

ansible4:x:1207:1219::/home/ansible4:/bin/bash

ansible4:$6$NfLHXIKs$.sPNs8eUJMrFwpHgsSVPmR0KqzL3ZM6EBtzv5FTuBK9iieoGkRhqjEahadJ31uKfnFFdt1zro.Rljv..0V0xZ.:19367:0:99999:7:::

ansible4:x:1207:1219::/home/ansible4:/bin/bash

Usage: usermod [options] LOGIN