Logo

Description automatically generated

Etech Team3 Group level project3

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Etech Consulting Devops Master Training:

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Linux Project4:

Questions1:

1. write a shell script to perform systems analysis including the following commands

- sudo apt update -y

- cat /etc/os-release

- echo $SHELL

- df -h

- free -g

- lscpu

- top

Here your script should capture the following data:

1. who is running the script

2. the output cat /etc/os-release should be redirected to a file called

<groupname>.log within the script

3. who location was the script ran

4. print message "welcome to Etech Consulting Devops MasterClass"

5. Print out the exit status of your script

Question2:

Write a shell script to automate your bank account balance every after a withdraw

lets say initially your balance was $20000; your script should do the following tasks

1. take inputs from customer(user)

2. perform some computations on your account and print out the receipt in the following format

- Beginning balance = ?

- amount withdrawn = ?

- current Balance = ?

- the person that did the transaction= ?

- The date and time the transaction was made = ?

- print a message " this atmcard belongs to $groupname" - Thanks for using $Bankname and hope to see you soon hints: $groupname should reflect your group in Etech and revise your variables notes

Question3:

- Write a shell script to mount an ebs volume to an ec2 instance with the following data point

. Your mount point should be /mnt/$groupname

. mount 2 disk of 1G each.

- Submit screenshot of the 'lsblk' to show disk was successfully mounted develop a line in your script to unmount the disk after 10 seconds of attaching

ebs volume script:

#!/bin/bash

#script to mount extra volume to ec2 instance

echo "Welcome to Etech Consulting!!!"

echo "step1: creating a mount point at /mnt"

sleep 5

read -p "Please enter your directory name for the mount point: " Team3.Group5:HealthApp

sudo mkdir /mnt/$dir

lsblk

sleep 4

echo “step2: format the new drive”

sudo mkfs -t ext4 /dev/xvdf

sleep 4

echo “step2: mount the new volume”

sudo mount /dev/xvdf /mnt/Team3.Group5:HealthApp

sleep 4

echo “step4: check and verify that the extra disk has been mounted

lsblk

echo “check new data free space in new mount”

df -h /mnt/Team3.Group5:HealthApp

sleep 4

echo “step5: add entry for new drive in /etc/fstab file”

"/dev/xvdf /mnt/ Team3.Group5:HealthApp ext4 defaults 0 1" | sudo tee /etc/fstab

echo “to see if the mount was recorded:”

sudo vi /etc/fstab Team3.Group5:HealthApp

sudo cat /etc/fstab | grep $ Team3.Group5:HealthApp

Umounting

sudo unmount /dev/xvdg mnt/ Team3.Group5:HealthApp

Question 4: write a shell script to backup and archive all logs from /var/log/auth.log such that your backup file name should be yourgroup.date.log. your script should equally transfer the tar file into the remote server with below details: ip address:

username: team3 key: team3key.pem directory: /tmp/monitor

the key 'team3key.pem' will be dropped on your class channel

list all logs from the file: $ls /var/log/\*auth.log

re-direct the output to a new file: $ls /var/log/\*auth.log > Team3.Group5:HealthApp.07-30-2022.

Transfer the new file to remote server with the details: scp Team3.Group5:HealthApp.07-30-2022

Ip address: 172.31.12.36

Team3key.pem: (see below)

Username: team3

Directory: /tmp/monitor

Good luck and Happy time at Etech!!

-----BEGIN RSA PRIVATE KEY-----

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-----END RSA PRIVATE KEY-----