Combine all descriptions into a single **README**

readme content = f"""\





Linux Admin Automation Projects

This repository contains two Bash scripts created for CYB-300 (System and Communication Security) focused on automating core administrative tasks in Linux environments.

#!/bin/bash #Marjean Mayo-Baker #4/15/2025 #Cyb-300-14656-M01 -system and comm security

define varibles

#place the name of the groups in an array without defining the index, because we are not accessing the indexing when accessing the varible, but useing a for do loop that iterates through to create a group in the /etc/ groupName=("Human Resources" "Finance" "Sales")

itereate through the three groups to define if the groups exsist if not to create it and then print which is true first this is funcation of a conditional statment

for i in "\${groupName[@]}"; do

if the group matching i is true when the code iterates it will print already exists.

if the group doesn't match the iteratrion (i) create and print created successfully

```
sudo groupadd "$i"
echo "group '$i' created successfully."
```

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exit out of loop

fi done

define another loop, decided to do a seperate loop beucase nested loops confuse me and i never can get them to work. Also it's easier to look at the script and edit seperate.

#using j as the new varible iterator not confuse previous loop

this loops through 1-12 to create 12 groups

for j in {1..12}; do

varible that holds the users and the iterator j to print out and keep track

username="Users\$j"

if the id matches exisiting on (error control)

if id "\$username"; then
echo "User '\$username' already exists."
else

else username isn't found set user name and print

```
sudo useradd "$username"
echo "${username}:NewP@ssw0rd" | sudo chpasswd
```

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#and add the users to the sales group sudo usermod -a -G Sales "\$username" echo "Created user '\$username' with default password 'NewP@ssw0rd' and added 'Sales' group." fi donenAdd_cleaned.sh...]()

#!/bin/bash

this is to create the back up folder

mkdir -p "\$HOME/Desktop/user1" mkdir -p "HOME/Desktop/user2" #Marjean Mayo-Baker #CYB-300-14656-M01 system Comm security

define the varible

#i am going to create two backup location for redundentcy folders=("\$HOME/Desktop/user1"

"\$HOME/Desktop/user2") #iteration in the folders for do loop that has a conditional satement for error checking for dir in "\${folders[@]}"; do name=\$(basename "\$dir") backupFile="\$HOME/Desktop//\${name}_backup.tar.gz" #if the folder backup file already exists print already exist if [-f "\$backupFile"]; then echo "Back up \$name already

exisits" else sudo tar -czvf "\$backupFile" "\$dir" echo "Backup for namecreatedsuccessfully." fidoneecho" (ls -l)"

```
1 ip a
2 sudo -i
3 sudo apt full-upgrade
4 sudo -i
5 exit
6 sudo -i
7 exit
8 ipppp a
```

10 passwd 11 touch adminAdd.sh 12 nano adminAdd.sh 13 chmod +x adminAdd.sh 14 ./adminAdd.sh 15 nano adminAdd.sh 16 ./adminAdd.sh 17 nano adminAdd.sh 18 ./adminAdd.sh 19 nano adminAdd.sh 20 ./adminAdd.sh 21 nano adminAdd.sh 22 clear 23 nano backup 24 pwd 25 touch user1 26 thouch user2 27 touch user2 28 ls -l 29 nano backup.sh 30 la 31 nano backup.sh 32 chomd +x backup.sh 33 chmod +x backup.sh 34 ./backup.sh 35 nano backup.sh 36 ./backup.sh 37 nano backup.sh 38 ./backup.sh 39 nano backup.sh 40 ./backup.sh 41 nano backup.sh 42 ./backup.sh 43 nano backup.sh 44 ./backup.sh 45 nano backup.sh 46 ./backup.sh 47 ls 48 nano backup.sh 49 ./backup.sh 50 nano backup.sh 51 ./backup.sh 52 nano backup.sh 53 ./backup.sh 54 nano backup.sh 55 ./backup.sh 56 history > ~/Desktop/terminal_history ading terminal_history...]()

Author

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Marjean Mayo-Baker

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