Linux Commands #2

**1.** Command to \*\*extract\*\* the `TarDocs.tar` archive to the current directory:

Gzip TarDocs.tar

**2.** Command to \*\*create\*\* the `Javaless\_Doc.tar` archive from the `TarDocs/` directory, while excluding the `TarDocs/Documents/Java` directory:

Tar czf Javeless\_Doc.tar --exclude “TarDocs/Documents/Java”

**3.** Command to ensure `Java/` is not in the new `Javaless\_Docs.tar` archive:

Test -f etc/Java/Javaless\_Docs.tar && echo “File exits”

**#### Critical Analysis Question**

**-** Why wouldn't you use the options `-x` and `-c` at the same time with `tar`?

**--- The -x command is used to create extract a tar archive. While the -C command is used to untar a specific directory. So, if a user wants a untar a current working directory they have to use -x command as opposed to the -c command, which is to untar is a specific directory.**

**### Step 2: Create, Manage, and Automate Cron Jobs**

**1.** Cron job for backing up the `/var/log/auth.log` file:

**--- 0 6 3 1-12 3 tar gzip -zcf /auth\_backup.tgz**

**### Step 3: Write Basic Bash Scripts**

**1.** Brace expansion command to create the four subdirectories:

Mkdir -p backups ~/{freemem, diskuse, openlist, freedisk}

**2.** Paste your `system.sh` script edits below:

```bash

#!/bin/bash

[Your solution script contents here]

```#!/bin/bash

df -h > ~/backups/freemem/free\_mem.txt

df -h > ~/backups/diskuse/disk\_use.txt

ls -l > ~/backups/openlist/open\_list.txt

df -h > ~/backups/freedisk/free\_disk\_txt

**3.** Command to make the `system.sh` script executable:

**---chmod +X system.sh**

**### Step 4. Manage Log File Sizes**

**1.** Run `sudo nano /etc/logrotate.conf` to edit the `logrotate` configuration file.

Configure a log rotation scheme that backs up authentication messages to the `/var/log/auth.log`.

**-** Add your config file edits below:

```bash

[Your logrotate scheme edits here]

```rotate 7

delaycompress

Notifempty

missingok

}