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## 2KE20CS032

## **Assignment 16**

Understood. To follow the provided instructions and create the files/directory using the same name and case as provided in the task steps, please provide me with the specific names and case instructions for the files/directory you want to create.

#### **CRONJOB**

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### TASK 1

Create an automated backup for the database (dbdump) every hour.

## 1) install mysql.

| [lusy@localhost ~]\$ sudo yum install mysql<br>Last metadata expiration check: 0:45:46 ago on Sat 12 Aug 2023 10:55:00 AM IST.<br>Dependencies resolved. |                   |                             |  |                               |
|--|-------------------|-----------------------------|--|-------------------------------|
| Package  | Architecture      | Version                     | Repository   | Size                          |
|  | aarch64           | 8.0.32-1.el9                | appstream  | 2.9 <b>M</b>                  |
| mariadb-connector-c-config<br>mysql-common   | noarch<br>aarch64 | 3.2.6-1.el9<br>8.0.32-1.el9 | appstream<br>appstream                                   | 11 k<br>75 k                  |
| Transaction Summary  |                   |                             |  |                               |
| Install 3 Packages   |                   |                             |  |                               |
| Total download size: 3.0 M Installed size: 60 M Is this ok [y/N]: y Downloading Packages:  |                   |                             |  |                               |
| (1/3): mariadb-connector-c-config-3.2.6-1.el9.noarch.rpm<br>(2/3): mysql-common-8.0.32-1.el9.aarch64.rpm<br>(3/3): mysql-8.0.32-1.el9.aarch64.rpm        |                   |                             | 2.1 kB/s   11 kB<br>14 kB/s   75 kB<br>358 kB/s   2.9 MB | 00 : 05<br>00 : 05<br>00 : 08 |

# 2) Install mysql-server.

### 3) Installed verification.

## 4) Server up.

#### 5) Show databases.

### 6) Create your temp database to backup.

```
mysql> create database lusydb
    ->;
Query OK, 1 row affected (0.01 sec)
```

7) List databases.

8) List databases row wise to generate script line.

9) Finally this command will list the required database to backup.

```
[lusy@localhost ~] $ mysql --skip-column-names -E -u root -e 'SHOW DATABASES' | grep -v "*" | grep -v information_schema | grep v performance_schema | grep -v mysql lusydb
```

10) Created directorys for scripts and backup.

```
[[lusy@localhost ~]$ ls
auto_backup_scripts automate my_backup_dir
[lusy@localhost ~]$ |
```

11) Get in to script directory and write the script.

```
[lusy@localhost ~]$ mkdir auto_backup_scripts
[lusy@localhost ~]$ cd auto_backup_scripts
[lusy@localhost auto_backup_scripts]$ vim auto_db_backup.sh
```

## 12)Script screenshot.

13) Assign job using crontab -l(list) | crontab -e(editing).

```
[[lusy@localhost ~]$ ls
auto_backup_scripts automate my_backup_dir
[[lusy@localhost ~]$ cd automate
[[lusy@localhost automate]$ crontab -l
0 * * * * sh home/lusy/auto_backup_scripts.sh
[lusy@localhost automate]$
```

14) Check weather your script is working or not.

```
auto_backup_scripts automate my_backup_dir
[[lusy@localhost ~]$ cd my_backup_dir
[[lusy@localhost my_backup_dir]$ ls
lusydb.dump
[lusy@localhost my_backup_dir]$ |
```

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#### TASK 2

Create a backup for application server file for everyday (using anacrontab)

1) install application server(httpd).

```
[[lusy@localhost ~]$ sudo yum install httpd
[[sudo] password for lusy:
Last metadata expiration check: 2:33:47 ago on Sat 12 Aug 2023 03:
Package httpd-2.4.57-5.el9.aarch64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[lusy@localhost ~]$
```

2) I had my template cv which I placed in server in var//www/html/ which is the default to fetch in files.

```
[[lusy@localhost ~]$ sudo cp 'cv html.html' /var/www/html/
[[sudo] password for lusy:
[[lusy@localhost ~]$ cd /var/www/html/
[[lusy@localhost html]$ ll
total 4
-rw-r--r--. 1 root root 1652 Aug 12 16:53 'cv html.html'
```

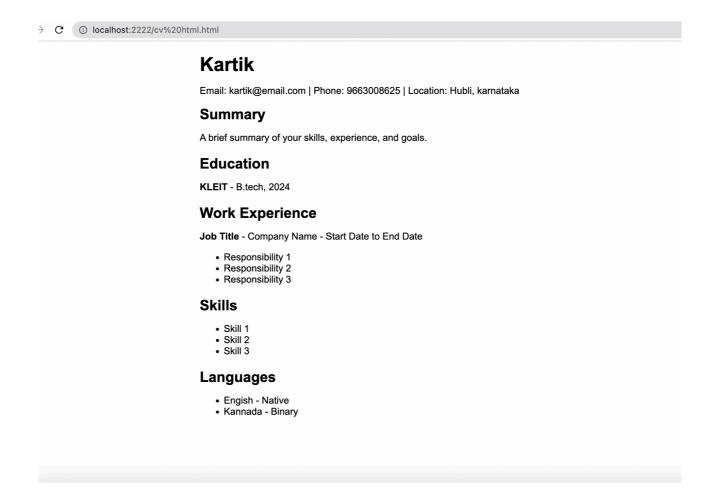
3) List the files in the www folder to backup.

```
Complete!
[[lusy@localhost html]$ tree

____ cv html.html

0 directories, 1 file
[[lusy@localhost html]$ cd
```

4) Check weather the page is launching or not.



5) Create your script to back up the application server files.

[[lusy@localhost auto\_backup\_scripts]\$ touch auto\_httpd\_backup.sh

6) Give permission to the script.

[lusy@localhost auto\_backup\_scripts]\$ sudo chmod a+rwx auto\_httpd\_backup.sh [lusy@localhost auto\_backup\_scripts]\$ vi auto\_httpd\_backup.sh 7) Write the script file.

```
#!/bin/bash

# Backup directory
backup_dir="/home/lusy/my_backup_dir"
timestamp=$(date +"%Y%m%d%H%M%S")
backup_filename="httpd_backup_${timestamp}.tar.gz"

# Paths to Apache configuration and website files
httpd_conf="/etc/httpd/conf"  # Adjust this path according to your system
website_root="/var/www/html"  # Adjust this path according to your system
# Create backup directory if it doesn't exist
mkdir -p "$backup_dir"

# Backup Apache configuration and website files
tar -czf "${backup_dir}/${backup_filename}" "$httpd_conf" "$website_root"
echo "Backup completed: ${backup_dir}/${backup_filename}"
```

8) Create the anacrontab (by listing).

```
[[lusy@localhost ~]$ sudo vi /etc/anacrontab
[[sudo] password for lusy:
```

9) Add the schedule in to anacrontab file.

```
~ - lusy@localhost:~/auto_b
                - lusy@localhost:~/auto_backup_scripts - ssh lusy@10.211.55.5
# /etc/anacrontab: configuration file for anacron
# See anacron(8) and anacrontab(5) for details.
SHELL=/bin/sh
PATH=/sbin:/bin:/usr/sbin:/usr/bin
MAILT0=root
# the maximal random delay added to the base delay of the jobs
RANDOM DELAY=45
# the jobs will be started during the following hours only
START_HOURS_RANGE=3-22
#period in days delay in minutes job-identifier command
                cron.daily
                                        nice run-parts /etc/cron.daily
        25
                cron.weekly
                                          nice run-parts /etc/cron.weekly
@monthly 45
                cron.monthly
                                          nice run-parts /etc/cron.monthly
                backup daily
                                          /home/lusy/auto_backup_scripts/auto_httpd_backup.sh
```

10) Test weather your script is working or not.

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#### TASK 3

Create a folder called backuplogs and copy the logfiles to it every one week.

1) Create a folder called backuplogs.

```
[[lusy@localhost ~]$ mkdir backuplogs
```

2) Create the script and give the permission too execute.

3) Write the script.

```
#!/bin/bash
source_logs_dir="/var/log/"
backup_logs_dir="/home/lusy/backuplogs"
timestamp=$(date +"%Y%m%d%H%M%S")

# Create backuplogs directory if it doesn't exist
mkdir -p "$backup_logs_dir/log_backup_$timestamp"

# Copy log files to backuplogs directory
sudo cp -r "$source_logs_dir"/* "$backup_logs_dir/log_backup_$timestamp/"
echo "Logs copied to backuplogs directory"
~
```

4) Shedule it using crontab command.

```
0 0 * * * sh /home/lusy/auto_backup_scripts/backup_logs.sh [lusy@localhost ~]$
```

5) Verify weather the script is working fine or not.

```
[[lusy@localhost ~]$ cd backuplogs
[[lusy@localhost backuplogs]$ ls
log_backup_20230812190220
[lusy@localhost backuplogs]$ |
```