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Day - 6

Task 1 - Backing up Databases and importing the backup to another DB:

- ◆ Mysql
- ➤ Here, I have already have database. So, in this task I used employees database. show databases;

Now, show all the tables in employees database using below command: use employees show tables;

```
mysql> use employees
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Database changed
mysql> show tables;
| Tables_in_employees |
| current_dept_emp
| departments
 dept_emp
 dept_emp_latest_date
 dept_manager
 employees
 salaries
 titles
8 rows in set (0.01 sec)
mysql>
```

➤ Now, To take backup of employees database use below command: sudo mysqldump -u root -p employees > datadump.sql

After that enter root password.

```
root@nishit-VirtualBox:~# sudo mysqldump -u root -p employees > datadump.sql
Enter password:
```

Next is we need this backup file into another virtual box so for that we need to write below command in 1st virtualbox.

sudo scp datadump.sql nishit@192.168.10.142:Desktop/

Use of scp for securely copy files/folder on a same network.

After that back file name

Enter destination username and their ip

And atlast give the location in that we want store backup file.

```
root@nishit-VirtualBox:~# sudo scp datadump.sql nishit1@192.168.10.142:Desktop/
The authenticity of host '192.168.10.142 (192.168.10.142)' can't be established.
ECDSA key fingerprint is SHA256:PlsqGn9xBoJ67fN3gWDZTKaqe5W6I50H7NgUfoiAfIY.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.10.142' (ECDSA) to the list of known hosts.
nishit1@192.168.10.142's password:
datadump.sql 100% 161MB 46.5MB/s 00:03
root@nishit-VirtualBox:~#
```

Now, check in vitualbox 2 our backup file is present or not.

```
nishit1@nishit1-VirtualBox:~/Desktop$
nishit1@nishit1-VirtualBox:~/Desktop$ ls
datadump.sql
```

➤ To restore backup file on virtualbox first we need to create one database. **create database employee**;

```
mysql> create database employee;
Query OK, 1 row affected (0.06 sec)
```

➤ Restore database using below command: sudo mysql -u root -p <u>databasename</u> < <u>filename</u> sudo mysql -u root -p employee < datadump.sql

```
nishit1@nishit1-VirtualBox:~/Desktop$ sudo mysql -u root -p employee < datadump.sql
Enter password:
```

➤ Now, check our file is restore on database or not. show tables;

◆ Mongo DB

Create one database and add some collection in that.

```
Use demodb

db.createCollection('Age')

db.createCollection('Name')

db.createCollection('Number')

db.createCollection('Address')
```

```
> use demodb
switched to db demodb
```

```
> db.createCollection('Age')
{ "ok" : 1 }
> db.createCollection('Name')
{ "ok" : 1 }
> db.createCollection('Number')
{ "ok" : 1 }
> db.createCollection('Address')
{ "ok" : 1 }
```

show collections

```
> show collections
Address
Age
Name
Number
>
```

Now take backup of demodb database

```
mongodump --archive=backup.archive --gzip --db demodb
mongodump -archive=<u>filename</u> --gzip --db <u>databasename</u>
```

```
root@nishit-VirtualBox:~# mongodump --archive=backup.archive
                                                                          --gzip
                                      writing demodb.Address to archive 'backup.archive' writing demodb.Number to archive 'backup.archive'
2023-02-24T16:22:14.701+0530
2023-02-24T16:22:14.710+0530
2023-02-24T16:22:14.713+0530
                                      done dumping demodb.Number (0 documents)
                                      writing demodb.Age to archive 'backup.archive' writing demodb.Name to archive 'backup.archive'
2023-02-24T16:22:14.713+0530
2023-02-24T16:22:14.727+0530
2023-02-24T16:22:14.728+0530
                                      done dumping demodb.Address (0 documents)
                                      done dumping demodb.Name (0 documents) done dumping demodb.Age (0 documents)
2023-02-24T16:22:14.729+0530
2023-02-24T16:22:14.729+0530
root@nishit-VirtualBox:~# ls
backup.archive datadump.sql demo.sh dump mysqlbackup.sql snap test_db
```

Next is we need this backup file into another virtual box so for that we need to write below command in 1st virtualbox.

scp backup.archive nishit1@192.168.10.142: Desktop/

```
root@nishit-VirtualBox:~# scp backup.archive nishit1@192.168.10.142:Desktop/
nishit1@192.168.10.142's password:
backup.archive
100% 483 704.4KB/s 00:00
```

Now, check in vitualbox 2 our backup file is present or not.

```
nishit1@nishit1-VirtualBox:~/Desktop$ ls
backup.archive datadump.sql
nishit1@nishit1-VirtualBox:~/Desktop$
```

➤ Restore database using below command:

mongorestore --db demodb --archive=backup.archive --gzip

mongorestore --db database name --archive=backupfilename --gzip

```
nishit1@nishit1-VirtualBox:~/Desktop$ mongorestore --db demodb --archive=backup.archive --gzip
2023-02-24T17:24:07.854-0530 The --db and --collection flags are deprecated for this use-case; please us
e --nsInclude instead, i.e. with --nsInclude=${DATABASE}.${COLLECTION}
2023-02-24T17:24:07.860+0530
                                                      preparing collections to restore from
2023-02-24T17:24:07.877+0530
                                                      reading metadata for demodb.Address from archive 'backup.archive'
                                                     reading metadata for demodb.Address from archive 'backup.archive' reading metadata for demodb.Number from archive 'backup.archive' reading metadata for demodb.Age from archive 'backup.archive' reading metadata for demodb.Age from archive 'backup.archive' restoring demodb.Number from archive 'backup.archive' finished restoring demodb.Number (0 documents, 0 failures) restoring demodb.Age from archive 'backup.archive' finished restoring demodb.Age (0 documents, 0 failures) restoring demodb.Address from archive 'backup.archive' finished restoring demodb.Address from archive 'backup.archive'
2023-02-24T17:24:07.877+0530
2023-02-24T17:24:07.877+0530
2023-02-24T17:24:07.877+0530
2023-02-24T17:24:07.972+0530
2023-02-24T17:24:07.989+0530
2023-02-24T17:24:08.107+0530
2023-02-24T17:24:08.134+0530
2023-02-24T17:24:08.237+0530
                                                      finished restoring demodb.Address (0 documents, 0 failures) restoring demodb.Name from archive 'backup.archive'
2023-02-24T17:24:08.247+0530
2023-02-24T17:24:08.334+0530
                                                      finished restoring demodb.Name (0 documents, 0 failures)
2023-02-24T17:24:08.347+0530
                                                      no indexes to restore for collection demodb.Address
2023-02-24T17:24:08.347+0530
2023-02-24T17:24:08.347+0530
                                                      no indexes to restore for collection demodb.Number
                                                     no indexes to restore for collection demodb.Name no indexes to restore for collection demodb.Age
2023-02-24T17:24:08.347+0530
2023-02-24T17:24:08.348+0530
2023-02-24T17:24:08.348+0530
                                                      0 document(s) restored successfully. 0 document(s) failed to restore.
 nishit1@nishit1-VirtualBox:~/Desktop$
```

Now, check our file is restore on database or not.

Show dbs

use demodb

show collections

```
> show dbs
admin
        0.000GB
config 0.000GB
demo
        0.000GB
demodb 0.000GB
local
        0.000GB
> use demodb
switched to db demodb
> show collections
Address
Age
Name
Number
```

Task 2 - Webmin

- ◆ Run Webmin on 8000
- ➤ First to install webmin we need add webmin repository in /etc/apt/sources.list file.

sudo nano /etc/apt/sources.list

Add below line in file to download repository.

deb http://download.webmin.com/download/repository sarge contrib

```
nishit@nishit-VirtualBox:~$ sudo nano /etc/apt/sources.list
```

```
deb http://download.webmin.com/download/repository sarge contrib
```

- Next, you'll add the Webmin PGP key so that your system will trust the new repository. In order to do that, though, you must install the gnupg1 package, which is GNU's tool for secure communication and data storage.
- ➤ Following that, download the Webmin PGP key with wget and add it to your system's list of keys:

wget -q -O- http://www.webmin.com/jcameron-key.asc | sudo apt-key add

```
nishit@nishit-VirtualBox:~$ wget -q -O- http://www.webmin.com/jcameron-key.asc | sudo apt-key add
OK
```

Update package using below command:

sudo apt update

```
Ign:1 http://repo.mongodb.org/apt/ubuntu focal/mongodb-org/5.0 InRelease
Ign:2 https://repo.mongodb.org/apt/ubuntu focal/mongodb-org/6.0 InRelease
Hit:3 https://deb.nodesource.com/node_16.x focal InRelease
Hit:4 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:5 http://repo.mongodb.org/apt/ubuntu focal-security InRelease
Hit:6 http://in.archive.ubuntu.com/ubuntu focal/mongodb-org/5.0 Release
Hit:7 https://dl.google.com/linux/chrome/deb stable InRelease
Hit:8 https://repo.mongodb.org/apt/ubuntu focal/mongodb-org/6.0 Release
Hit:9 http://in.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:10 http://ppa.launchpad.net/ondrej/php/ubuntu focal InRelease
Hit:11 http://in.archive.ubuntu.com/ubuntu focal-backports InRelease
Ign:14 http://download.webmin.com/download/repository sarge Release [16.9 kB]
Get:15 http://download.webmin.com/download/repository sarge Release [16.9 kB]
Get:16 http://download.webmin.com/download/repository sarge Release.gpg [173 B]
Get:17 http://download.webmin.com/download/repository sarge/contrib i386 Packages [1,400 B]
Get:18 http://download.webmin.com/download/repository sarge/contrib amd64 Packages [1,400 B]
Fetched 19.8 kB in 3s (7,644 B/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
So packages can be upgraded. Run 'apt list --upgradable' to see them.
```

Install webmin using below command:

sudo apt install webmin

```
Reading package lists... Done

Building dependency tree

Reading state information... Done

The following packages were automatically installed and are no longer required:

libc-ares2 libpcre2-posix2 libzip5 php7.4-dev php7.4-gd php7.4-mysql php7.4-xml php7.4-xmlrpc php7.4-zip

Use 'sudo apt autoremove' to remove them.

The following additional packages will be installed:

libauthen-pam-per1 libio-pty-per1

The following NEW packages will be installed:

libauthen-pam-per1 libio-pty-per webmin

upgraded, 3 newly installed, 0 to remove and 56 not upgraded.

Need to get 34.3 MB of archives.

After this operation, 193 MB of additional disk space will be used.

Do you want to continue? [Y/n] y

Get: 1 http://lon.archive.ubuntu.com/ubuntu focal/universe amd64 libauthen-pam-per1 amd64 0.16-3build7 [24.3 kB]

Get: 2 http://download.webmin.com/download/repository sarge/contrib amd64 webmin all 2.013 [34.3 MB]

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Get: 3 http://download.webmin.com/download/repository sarge/contrib amd64 webmin all 2.013 [34.3 MB]

Freparing to unpack .../libauthen-pam-perl [0.16-3build7] ...

Selecting previously unselected package libio-pty-perl

Jupacking libauthen-pam-perl (0.16-3build7) ...

Selecting up libauthen-pam-perl (1:1.12-1) ..
```

Open webmin configuration file and change port as 8000. sudo nano /etc/webmin/miniserv.conf port=8000

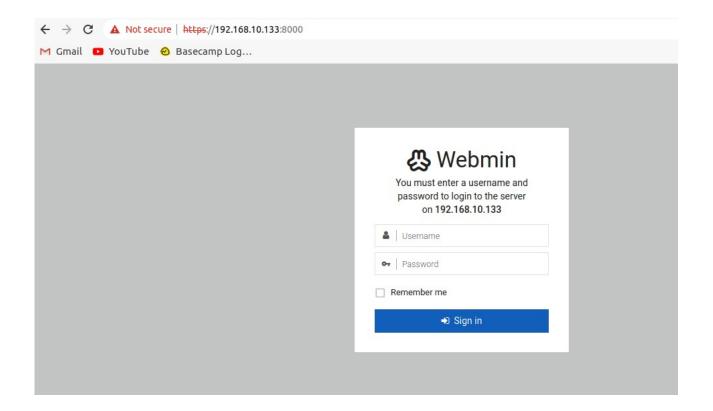
```
nishit@nishit-VirtualBox:~$ sudo nano /etc/webmin/miniserv.conf
```

port=8000

Now restart webmin and allow port 8000 for incoming traffic: sudo service webmin restart sudo ufw allow 8000/tcp

```
nishit@nishit-VirtualBox:~$ sudo service webmin restart
nishit@nishit-VirtualBox:~$ sudo ufw allow 8000/tcp
Rule added
Rule added (v6)
```

Now, check the result using our_server_ip:8000192.168.10.133:8000



- ◆ Reset script for Webmin Password.
- Create one shell script using below command.

sudo nano passreset.sh

nishit@nishit-VirtualBox:~\$ sudo nano passreset.sh

- Now add below commands in script file.
 - #!/bin/bash
 - # Enter the username for which you want to reset the password
 - read -p "Enter the username for which you want to reset the password: " username
 - # Enter the new password for the user
 - read -sp "Enter the new password for the user: " new_password
 - # Run the command to reset the password
 - sudo /var/www/html/webmin/changepass.pl /etc/webmin/ \$username \$new_password
- In above script first I write command to take user name in which we want change the password. After that take new password from user. After that give path of changepass.pl file and apply into /etc/webmin file.

```
GNU nano 4.8

# Enter the username for which you want to reset the password
read -p "Enter the username for which you want to reset the password: " username

# Enter the new password for the user
read -sp "Enter the new password for the user: " new_password

# Run the command to reset the password
sudo /var/www/html/webmin/changepass.pl /etc/webmin/ $username $new_password
```

➤ Now give execute permission to script.

sudo chmod +x passreset.sh

```
nishit@nishit-VirtualBox:~$ sudo chmod +x passreset.sh
nishit@nishit-VirtualBox:~$ ls -la passreset.sh
-rwxr-xr-x 1 root root 375 Feb 23 15:44 passreset.sh
nishit@nishit-VirtualBox:~$
```

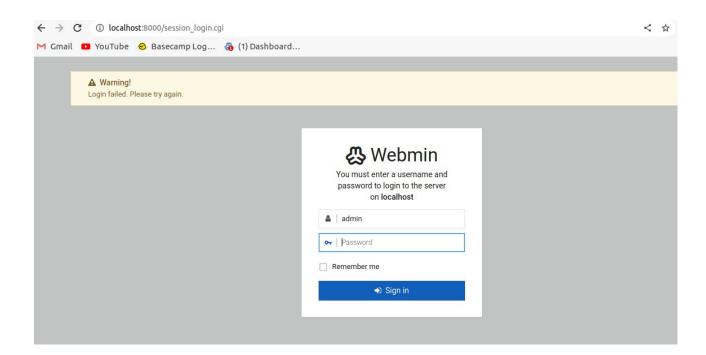
Now, run script using below command:

sudo bash passreset.sh

```
nishit@nishit-VirtualBox:~$ sudo bash passreset.sh
Enter the username for which you want to reset the password: admin
Enter the new password for the user: Password for Webmin user admin updated successfully
nishit@nishit-VirtualBox:~$
```

I reset admin password and check the result.

➤ Here below I use old password to login so not able to login.



➤ Now, use updated password to login and login successfully.

