# BACKUP SYSTEM

## • INSTALLATION

First, you have to set execute permission (x) to required scripts :

- backup.sh
- backups/backup.sh
- backups/init.sh

by the following command :

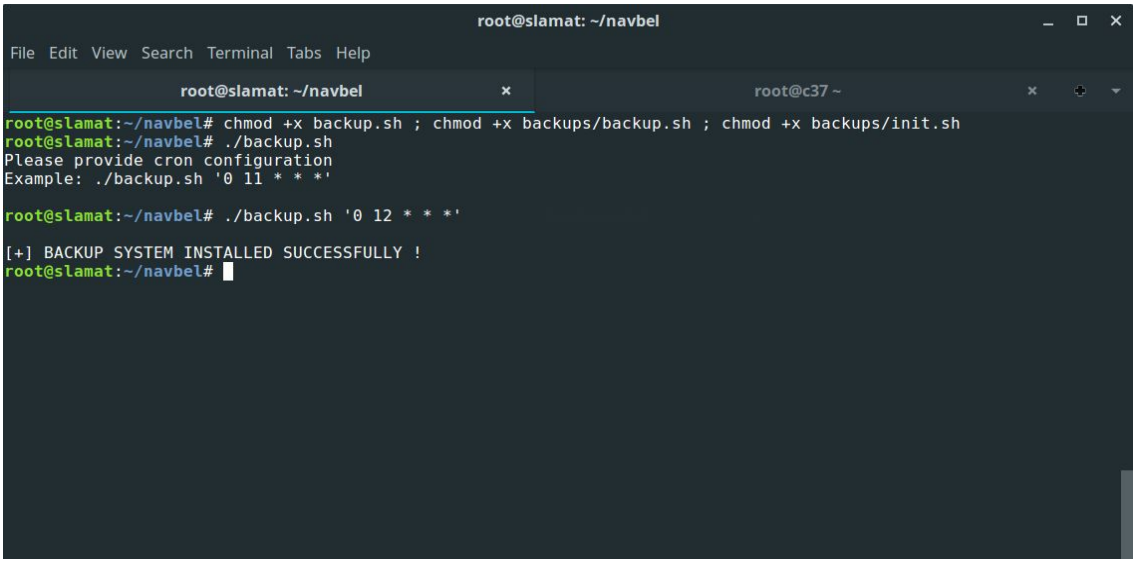
```
chmod +x backup.sh ; chmod +x backups/backup.sh ; chmod +x backups/init.sh
```

To start the backup system you have to run this command :

```
./backup.sh "crontab configuration"
```

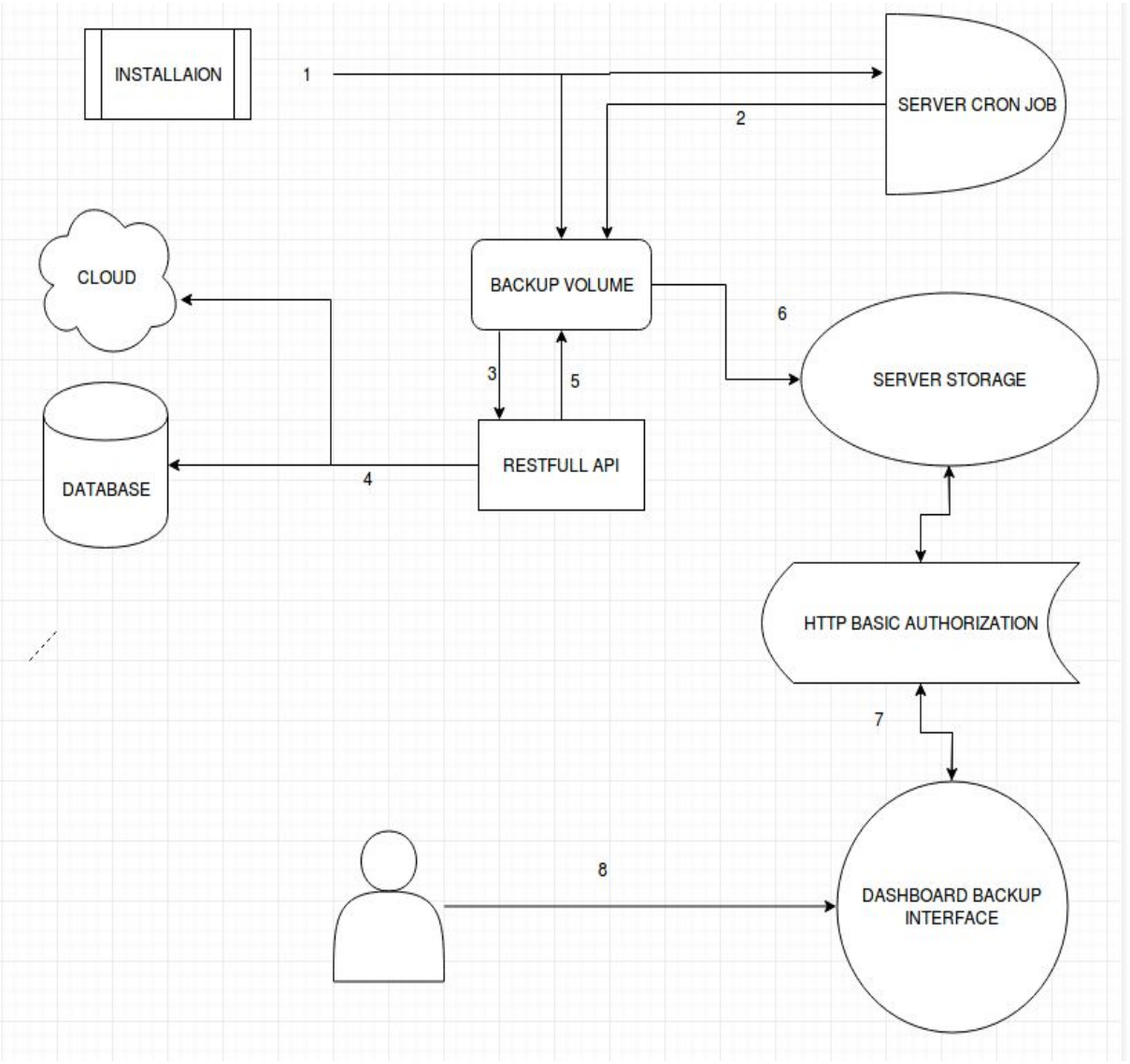
For Backup time cycle is as crontab configuration time format which enter as argument of backup.sh
For more information visit : https://crontab.guru/

Example : we will make our system save backups every night at 12 am , so crontab configuration will be 0 12 * * *




PS : You can view your cron list by : crontab -e

## • How it Work ?




1.First let's start with backup.sh
which contains those commands:
creating job in crontab with cron configuration that entered by user (0 12 * * * ) this job is programmed to run backups/init.sh every night
at 12 am
and creating backups/init.sh in docker backup volume of restful api container .

and initialize server storage environment and authorization requirement

2. this script backups/init.sh programmed to do two things
first, run backups/backup.sh from last volume
second,6. moving all files and databases which created by  backups/backup.sh to server storage

3 . 4 . 5 is about  backups/backup.sh which programmed to connect database and dump selected db and zip the restful api files in backup volume

7 . The Dashboard get file & dbs url from server storage which is shared to port 80 and protected by [HTTP basic authentication] , username & password stored in
/var/www/html/backups/.htpasswd
the dashboard send authorization header which stored in required functions to get data from server storage  .
and finally  the dashboard show backup files :
Example : backups every minute