**How to Backup your website:**

You need to **backup your website** data same way you backup your computer’s data. But on database driven websites, there are two things you need to backup: the files that shows the face of your website ( **PHP/Python/Perl, Images, Icons, CSS, JavaScript** files etc..), and the data stored in database. Furthermore, a good backup system keep local and a remote copy of backed up data.

## Scenario:

This guide will show you how to automatically backup your website every night where a simple bash script and [cronjob](http://broexperts.com/2016/02/how-to-setup-linux-crontab-with-examples/" \t "_blank) will do all backup process, and safely upload local files to an external ftp server automatically while you are away from your desk. Sounds good..! Right ?.. So here is a quick guide to **backup your website**including database using bash script and cronjob.

**This guide assumes you have:**

* A dynamic website based on LAMP (Linux, Apache, MySQL and PHP/Perl/Python).
* Shell access to your web server via SSH.
* Basic Linux Command Line skills required such as how to make new folders and chmod permissions on files.
* Basic skills to run bash scripts at the command line on your server and setting up cronjobs.
* Location of website files on server.
* MySQL Database information and username and password you use to log into MySQL.
* Access of remote FTP server to transfer backup copy.
* FTP client package should be installed on server.

If you got all these prerequisites, so we are ready to go.!

Now let’s prepare a smart bash script that will take backup of two things, source code of our website and entire database contents. So in case your website blown up, you can simply restore it from backup source, and everything will work fine as before.

Login to your web server via SSH first, and then create a directory named **mybackups** under your home directory.

[BroExperts@lxweb ~]$ mkdir mybackup

Now create a file named **web-backup.sh**

[BroExperts@lxweb ~]$ touch web-backup.sh

Now we will copy and paste below showing contents into **web-backup.sh** file.

[BroExperts@lxweb ~]$ vi web-backup.sh

#!/bin/bash

#Purpose = Website Source & Database Backup

#Created on 09-05-2018

#Author = Vishal Yesurkar

#Version 1.0

################### SCRIPT START #####################

## 1: TIME STAMP

TIME=`date +%b-%d-%y`

## 2: YOUR WEBSITE NAME

WEBSITE=xyz.com

## 3: HERE I DEFINE WEBSITE BACKUP FILE NAME FORMAT

FILENAME=$WEBSITE-backup-$TIME.tar.gz

## 4:LOCATION OF WEBSITE SOURCE CODE DIRECTORY ON WEB SERVER

WEBDIRECTORY=/var/www/html/broexperts

## 5: DESTINATION OF BACKUP FILE ON LOCAL SERVER

BACKUPDIR=/home/BroExperts/mybackup

## 6: MySQL DATABASE CREDENTIALS

DBUSER=root

DBPASS=redhat

DB=broexperts

## 7: WEBSITE BACKUP COMMAND

tar -cpzf $BACKUPDIR/$FILENAME $WEBDIRECTORY

## 8: DATABASE BACKUP COMMAND

mysqldump -u $DBUSER -p${DBPASS} $DB | gzip > $BACKUPDIR/dbbackup\_${DB}\_${TIME}.bak.gz

## 9: FINAL COMMAND TO GENERATE SINGLE ZIP FILE CONTAINING WEB AND DATABASE BACKUP

zip -rm $BACKUPDIR/Full\_Backup\_${WEBSITE}\_${TIME}.zip $BACKUPDIR/\*.gz

## 10: TRANSFER FILES TO REMOTE FTP SERVER

HOST=192.168.2.132

USER=ftpuser

PASSWORD=password

ftp -inv $HOST <<EOF

user $USER $PASSWORD

lcd $BACKUPDIR

mput Full\_Backup\_${WEBSITE}\_${TIME}.zip

bye

EOF

################### SCRIPT END #####################

This script will zips up your website data including database and save one copy of your website backup on local and one copy on remote ftp server.

Also read other articles related to **Linux Backup**

* [Incremental Backup in Linux Using tar utility](http://broexperts.com/how-to-perform-incremental-backup-in-linux-using-tar-utility/" \t "_blank)
* [Guide to Setup Crontab with Example](http://broexperts.com/how-to-setup-linux-crontab-with-examples/" \t "_blank)
* [Email Notification Upon Success or Failure of Backup Script](http://broexperts.com/how-to-send-email-notification-upon-success-or-failure-of-bash-script/" \t "_blank)
* [Delete Files Older than X Number of Days in Linux](http://broexperts.com/how-to-delete-iles-older-than-x-number-of-days-in-linux/" \t "_blank)
* [How to Transfer Files to a Remote FTP Server With Bash Script](http://broexperts.com/how-to-transfer-files-to-a-remote-ftp-server-with-bash-script" \t "_blank)

**Backup Script Explanation**

To deploy this script in your environment you need to read commented lines starting with two hashes plus numbers **“## 1”** and edit the right values for your setup.  
This script will first take a copy of my website contents from **/var/www/html/broexperts** *(See: ## 4:)*, and transfer tar file into user’s home directory **/home/BroExperts/mybackup** directory *(See: ## 5:)*. Then it will login to MySQL Database server and create a backup of provided DB *(See: ## 8:)*, then finally it will combine both separately created website source and database backup files into one zip file *(See: ## 9:)*. At the end, script will transfer a copy of backup to remote FTP server *(See: ## 10:)*.

To make this script executable, you must execute this command:

[BroExperts@lxweb ~]$ chmod +x web-backup.sh

To make this whole process automatic, schedule script execution using crontab. To run it at 1:01 am every morning, your crontab would look like this:

[BroExperts@lxweb ~]$ crontab -e

1 1 \* \* \* /home/BroExperts/web-backup.sh

Using this script and automation technique, all of your website data will be regularly backed up and stored in a secure separate location. No matter the disaster – human error, hacking, corrupt files, hardware or software issues – you’ll be ready to restore your files anytime, from backups.That’s All.

<https://broexperts.com/automatically-backup-your-website-every-night-using-bash-script/>