

**Assignment 11 – 45 points**

**Log on to your virtual machine as root using an SSH session and perform the following tasks:**

Install and configure AWStats to monitor your Apache services (10 points)

- Configuration file: `/etc/httpd/conf.d/awstats.conf`
- Allow any IP address to connect to the stats pages.
- Add a crontab entry for the root user to update the stats every 5 minutes.

Create backups of your website and databases (10 points)

- Create a `/backups` and `/backups/mysql` directory on your virtual machine.
- Use `mysqldump` to create a `wordpressdb.sql` file, containing a backup of the `wordpressdb` database in the `/backups/mysql/` directory.
- Use `rsync` to create a backup of your `/var/www` directory within the `/backups/` folder.

Configure your MariaDB database service to use the following values (10 points)

- Create a new configuration file: `/etc/my.cnf.d/custom.cnf`  
[mysqld]  
key-buffer-size = 256M  
innodb-buffer-pool-size = 2048M  
innodb-log-file-size = 128M
- You will need to delete the files `/var/lib/mysql/ib_logfile0` and `/var/lib/mysql/ib_logfile1` to apply these changes!
  - o Stop the database services before removing these files!
- Don't forget to restart MariaDB after creating this new configuration!

Make sure your system is up to date, and has recently been rebooted. (5 points)

Create a document explaining what you did in this exercise with command examples, and upload it in D2L to the Dropbox folder HW11. (10 points)

**Download and run the check script using the following three commands:**

```
wget https://jpatalon.cs.edinboro.edu/ecsc325/classfiles/assignment11check.sh -O /tmp/assignment11check.sh
```

```
chmod a+x /tmp/assignment11check.sh
```

```
/tmp/assignment11check.sh
```