

Backups in Bash

1. This script (called backup.sh) will backup everything in the home directory and name it backup[current-date].

```
cd $HOME
```

```
cp -r $HOME backup_`date +%Y%m%d`
```

2. Create a cron job that will run the script above every every day at 6 AM.

Start “vi” and open “crontab” to create the new entry:

```
crontab -e
```

Once in “vi,” press “i” to enter insert mode:

```
0 6 * * * ~/bin/backup.sh
```

Esc, then press shift-ZZ to exit and save crontab. The shell will display the following message:

```
crontab: installing new crontab
```

3. At the beginning of each month, zip these files and email to yourself.

Open vi, type crontab -e, then type:

```
0 12 1 * * | tar -czf archive.tar.gz /home '_[0-8]{8}'
```

Then save.

In “vi,” type the following to draft the email:

```
crontab -e
```

```
30 20 1 1-12 * | mail -s "backup files and counts" -a archive.tar.gz email@asu.edu
```

```
<archive.tar.gz <<< "There are `ls -l | wc -l` backups in the archive.tar.gz file processed  
today, `date "+%d/%Y"`.
```

```
This is an automated message sent at the beginning of each month."
```

Then save.