# Instructions for setting up the Belated Backend

Tested with the Ubuntu 12.04 (Long Term Support) release.

**Caution:** The spaces and hyphens used to display console commands in this document are nonbreaking. Therefore, you may encounter problems copying the commands verbatim into a terminal window.

## Installing MongoDB

Follow the instructions at <http://docs.mongodb.org/manual/installation/> for your specific OS.

For Ubuntu, this is:

1. Open Terminal
2. Run sudo apt‑key adv ‑‑keyserver hkp://keyserver.ubuntu.com:80 ‑recv 7F0CEB10
3. Run echo 'deb http://downloads‑distro.mongodb.org/repo/ubuntu‑upstart dist 10gen' | sudo tee /etc/apt/sources.list.d/mongodb.list
4. Run sudo apt‑get update
5. Run sudo apt‑get install mongodb‑10gen
6. You should now be able to start and stop the mongodb service using  
   sudo service mongodb start and sudo service mongodb stop.

## Setting up the ‘Belated’ backend

1. Open Terminal.
2. Install git with sudo apt‑get install git.
3. Use the cdcommand to navigate to your home directory.
4. Run git clone https://github.com/patrickmeiring/belated.git
5. Use the cd belatedto navigate into the source directory you just cloned.
6. Install node with sudo apt‑get install nodejs.
7. Run node ‑‑version to determine what version of node.js you are running. You should be running v0.10.22 or later.
8. On Ubuntu 12.04, an old version (0.6.x) of Node is in the standard repository.   
   If you have an old version, you can use the instructions at <https://github.com/joyent/node/wiki/Installing-Node.js-via-package-manager> to update it. For 12.04, this means:

sudo apt‑get update  
sudo apt‑get install ‑y python‑software‑properties python g++ make  
sudo add‑apt-repository ‑y ppa:chris-lea/node.js  
sudo apt‑get update  
sudo apt‑get install nodejs

Then, Run node ‑‑version again to verify you have the correct version.

1. Run npm install

You should see a list similar to that below (N.B. items may be in a different order).

geo-distance-js@0.0.2 node\_modules/geo-distance-js

dateformat@1.0.6-1.2.3 node\_modules/dateformat

node-schedule@0.1.8 node\_modules/node-schedule

nodemock@0.2.17 node\_modules/nodemock

mockery@1.4.0 node\_modules/mockery

icalendar@0.6.5 node\_modules/icalendar

imap@0.7.11 node\_modules/imap

└── utf7@1.0.0

mapquest@0.0.1 node\_modules/mapquest

└── superagent@0.15.7 (methods@0.0.1, cookiejar@1.3.0, debug@0.7.4, qs@0.6.5, emitter-component@1.0.0, reduce-component@1.0.1, mime@1.2.5, formidable@1.0.14)

express@3.2.3 node\_modules/express

├── methods@0.0.1

├── fresh@0.1.0

├── range-parser@0.0.4

├── cookie-signature@1.0.1

├── qs@0.6.4

├── debug@0.7.4

├── buffer-crc32@0.2.1

├── cookie@0.0.5

├── commander@0.6.1

├── mkdirp@0.3.4

├── send@0.1.0 (mime@1.2.6)

└── connect@2.7.9 (pause@0.0.1, bytes@0.2.0, formidable@1.0.13)

nodemailer@0.3.44 node\_modules/nodemailer

├── optimist@0.6.0 (wordwrap@0.0.2, minimist@0.0.5)

├── simplesmtp@0.3.15 (xoauth2@0.1.8, rai@0.1.8)

└── mailcomposer@0.2.4 (mime@1.2.9, ent@0.1.0, mimelib@0.2.14)

mocha@1.9.0 node\_modules/mocha

├── debug@0.7.4

├── growl@1.7.0

├── commander@0.6.1

├── diff@1.0.2

├── mkdirp@0.3.3

├── ms@0.3.0

└── jade@0.26.3 (mkdirp@0.3.0)

jade@0.31.1 node\_modules/jade

├── character-parser@1.0.2

├── mkdirp@0.3.5

├── commander@1.1.1 (keypress@0.1.0)

├── with@1.0.4 (lexical-scope@0.0.12)

├── monocle@0.1.48 (readdirp@0.2.5)

└── transformers@2.0.1 (promise@2.0.0, css@1.0.8, uglify-js@2.2.5)

mongodb@1.3.18 node\_modules/mongodb

├── kerberos@0.0.3

└── bson@0.2.2

mailparser@0.3.6 node\_modules/mailparser

├── mime@1.2.11

├── mimelib@0.2.14 (addressparser@0.2.0)

├── encoding@0.1.7 (iconv-lite@0.2.11)

└── iconv@2.0.7

## Starting the ‘Belated’ Backend

1. Ensure MongoDB is running. You can use sudo service mongodb start to start it if necessary.
2. To start the application, run sudo npm start.
3. If this is the first time running the application, you will be prompted to enter a number of configuration properties. The table below outlines the correct values -- be sure to enter them carefully!

|  |  |
| --- | --- |
| **Gmail account email** | calqut@gmail.com |
| **Gmail account password** | JBm<YS\_"i\_-M0V.9~mGpwV|4qL(;m0aQV8W,W4fp8bJV`ob[ys6.mhk@0"8\+Tw |
| **Bing API Key** | Ai5WXQKnIIdyveEZ6DqBPNBJdT6kPFdk4DGABUrCBaKxHVuJ23O4YBjKKM99O8uW |
| **Mongo DB connection string** | mongodb://localhost:27017/ |
| **Live website domain** | The IP Address of your computer or Amazon S3 instance, e.g. “54.252.45.18” |

1. If you make a mistake, you will need to shut down the server after configuration using Ctrl+C and edit the config.json file manually. Note: The characters in this file are escaped. For example, a back-slash in a json field is written as \\ and a double-quote as \".  
     
   On Ubuntu 12.04, you can do this with sudo gedit config.json. (N.B. sudo may be required if config.json file was created by the server and it ran with sudo.)