

1.Requirements

a. Individual Packages

- i. Node JS v10.8.0
- ii. Node Package Manager
- iii. PostgreSQL v10.5
- iv. Angular 7
- v. Express JS
- vi. Ansible 2.6
- vii. Iptables
- viii. Git
- ix. Screen

b. Operating System

- i. Ubuntu 16.04 LTS

2.Base Installation

a. Install Notes:

- i. Unless otherwise noted, **all commands must be performed as root**

b. Commands:

- i. Install git via aptitude - apt-get install -y git
- ii. Clone the repository <https://github.gatech.edu/wking6/oms-discussions> into /oms-discussions
- iii. Once the repository is cloned, cd into /oms-discussions
- iv. Cd into build/scripts
- v. Run the command chmod +x *.sh
- vi. Run the command ./install-python3.sh
 1. This will install prerequisite software
- vii. Once the command is done, cd into /oms-discussions/ansible
- viii. Cd into vars
- ix. You will need to HEAVILY modify this file, depending on your setup
- x. Cd into /oms-discussions/build/scripts
- xi. Run the command ./run-ansible.sh
- xii. Do service nginx stop
- xiii. See API Installation for the next step

3.API Installation

a. Notes:

b. Commands:

- i. Cd into /oms-discussions/api

- ii. Do npm install
- iii. Cd into config
- iv. Ensure that your config.*.js is working correctly (where * is either dev or prod depending on which one you want to do)
- v. Do “export NODE_ENV=prod” or “export NODE_ENV=dev” (depending on your setup)
- vi. **(DO NOT RUN THIS COMMAND AS ROOT):** do pm2 start server.js -i max
- vii. See UI Installation for the next steps

4. UI Installation

a. Notes:

b. Commands:

- i. Cd into /oms-discussions/oms-discussions
- ii. Do npm install
- iii. If production, do the following:
 1. Ensure your environment.prod.ts file is correct - located in src/environments
 2. Run ng build --prod --build-optimizer
 3. Ensure that your nginx is configured correctly - see Production section for more details
 4. If nginx is configured correctly, do service nginx start
- iv. If dev, do the following:
 1. Ensure your environment.ts file is correct - located in src/environments
 2. Run ng serve

5. Production

a. Nginx

- i. There might be some issues with CORS related - make sure that nginx is setup to serve CORS

6. Ansible

a. Notes:

- i. **All commands must be run as root**
- ii. These are **recommended** settings but may vary from system-to-system

b. Production:

- i. Change:
 1. Create_prod_config to true
 2. Create_dev_config to false

3. If installing all on one server, leave this alone otherwise use web for just web or db for just db
4. If you want to change the API port, change it here
5. Omsdiscussions_user and omsdiscussions_pass to the values
6. Access_key_random to something way different
7. If doing db or all,
 - a. postgres_* to match your setup
8. Change site and api site to match your setup
9. Change frontend_url to match your setup
 - a. **Do not** change api_url
10. If using sendgrid, change your sendgrid_api_key to match
11. Use_inbuild_cors to false

- ii. Cd into /oms-discussions/build/scripts

c. Development:

- i. Pretty much, you can leave this alone if you are running locally, otherwise change the URLs to match your systems urls
- ii. If you want to do SSL using letsencrypt, turn create_ssl-certs and nginx_use_ssl to true as well as cert_email