Meteor in Production

By Freeman

FREEMAN (me)

- Coding since 2011
- Before 2015, front end dev / startup founder – Backbone.js, Grunt
- 2015 onwards, full stack contractor –
 Jekyll, Ember.js, Angular 1, React,
 Webpack, Rails, Express.js, Swift, Ionic 2,
 React Native...
- ...Meteor!

The Story



leSALON



Select your **Service**



Select your **Polish**





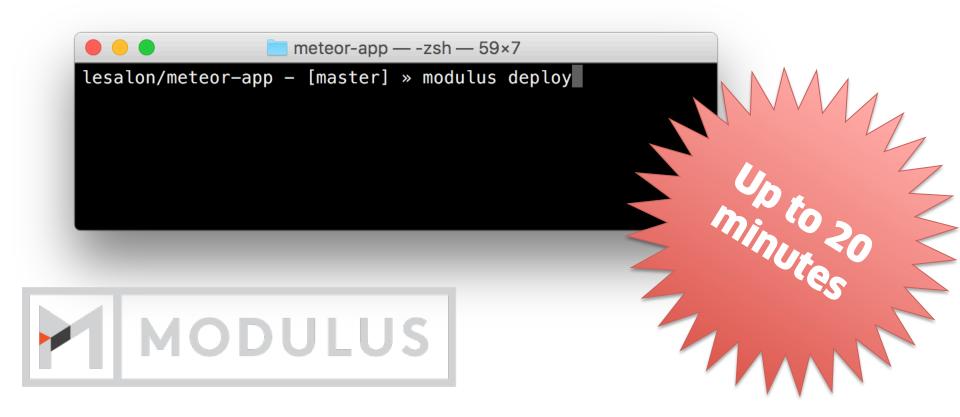
The Story

- Started working with LeSalon in March 2016
- Previous contractor liked to try new things but never finished projects
- Meteor running in production... alongside a separate REST Rails API
- No documentation
- Bugs everywhere
- Great opportunity to learn Meteor from scratch!

Meteor Impressed Me...

- Deep connection between client and server means better:
 - Reactivity
 - Security
 - Cross-domain HTTP
- Iron Router & Blaze are awesome
- NPM support
- Build system is really easy to work with

Deploying LeSalon



Slow but reliable manual process

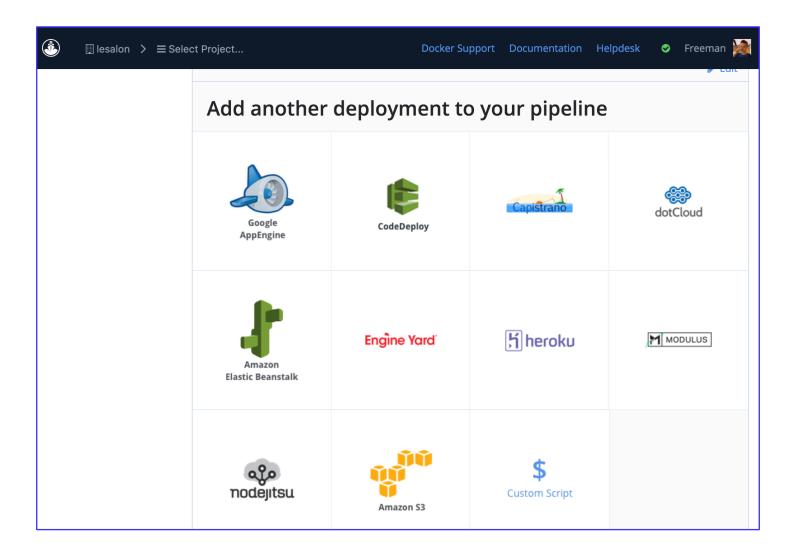
Continuous Integration

- Automated
 - Less time spent doing deploys
- Frequent
 - Less integration pain
- Safe
 - Unit tests on every deploy
- Codeship
 - My favourite CI service
 - Others include Travis, GitLab, Shippable, etc.

Continuously Integrating Meteor

CODESHIP **GitHub**

Codeship Supports Modulus

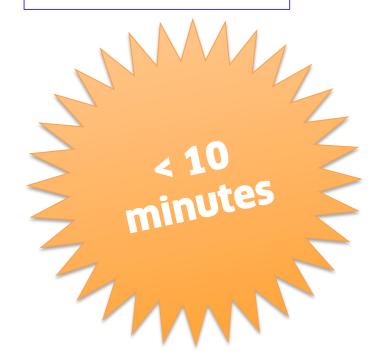


Pretty easy...

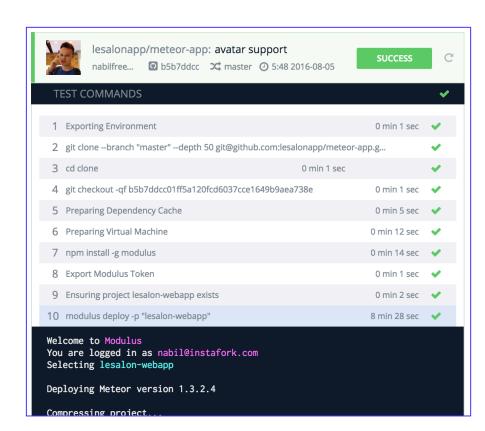
Modulus Run modulus token create on your machine to create a new token. You can read more about this in the Modulus Documentation. **API Token:** Modulus API Token We will check if the project exists and create it if it doesn't. **Project Name: Modulus Project Name URL: URL** If this URL requires HTTP Basic Auth, enter http://USERNAME:PASSWORD@YOUR_URL into the url field **Create Deployment 圃** Cancel

Deploy by push / merge to master

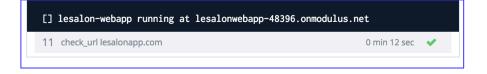
New pull request



Fire and forget! Codeship's internet is obviously better than my China Telecom 100M line



Logs ...

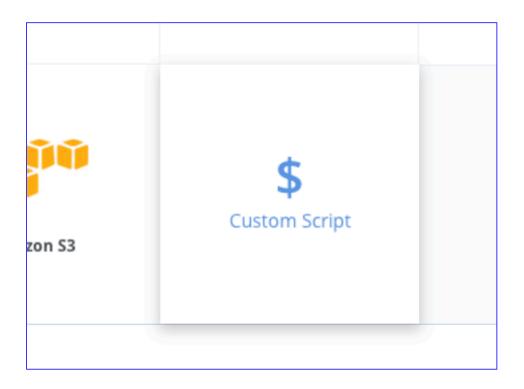


The Official PaaS: Galaxy



Faster (no demeteorizer) and built in to the Meteor command line tools

Codeship Doesn't Support Galaxy



Time to get our hands dirty

Thanks Nate Strauser!



Sign in / Sign up



Nate Strauser

Meteor Consultant and Mentor—natestrauser.me

Dec 12, 2015 · 7 min read

Migrating Meteor Apps from Modulus to Galaxy with Continuous Deployment from Codeship

<u>Galaxy</u> is the new hosting offering from <u>Meteor Development Group</u>. The <u>business</u> <u>editions</u> have been publicly available for a little while, but they are too expensive for

...for your excellent tutorial on Medium (link in Meteor WeChat group)

Just add something to settings.json...

```
"galaxy.meteor.com": {
    "env": {
        "NODE_ENV": "staging",
        "ROOT_URL": "https://staging.lesalonapp.com",
        "MONGO_URL": "mongodb://some:mongo@data/base"
"public": {
    "segment_key": "fdhsklhfldkhklfdshkl",
    "stripe_key": "pk_test_fdslhflkdhklf",
    "app_name": "web-app-staging",
    "environment": "staging"
"private": {
    "stripe_key": "sk_test_sdfiodhlfkleewio",
    "facebook": {
        "key": "fdsgosilkdsfl",
```

Create an auth token...

We now need to create a login session **token** file to allow Codeship to deploy to Galaxy without having to supply your username and password.

Create a Meteor session token in a json file by running this command locally

METEOR_SESSION_FILE=deployment_token.json meteor login

This will create session token with Meteor's authentication system and store it in a json file `deployment_token.json`. If needed, the token can be revoked from your Meteor user account settings. The token stored in the file looks like

Pretty hard...

Custom script

Enter your custom deployment script line by line. Disable them by putting # at the beginning of a line

Deployment Commands:

```
# install node modules
npm install

# install Meteor
curl -o meteor_install_script.sh https://install.meteor.com/
chmod +x meteor_install_script.sh
sed -i "s/type sudo >\/dev\/null 2>&1/\ false /g" meteor_install_script.sh
./meteor_install_script.sh
export PATH=$PATH:~/.meteor/

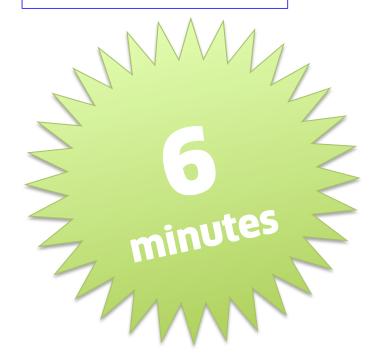
# deploy app
DEPLOY_HOSTNAME=eu-west-1.galaxy-deploy.meteor.com METEOR_SESSION_FILE=deploy.token.json meteor deploy
staging.lesalonapp.com --settings settings.staging.json
```

Each line is like a command that you execute in a local shell from within the project path.

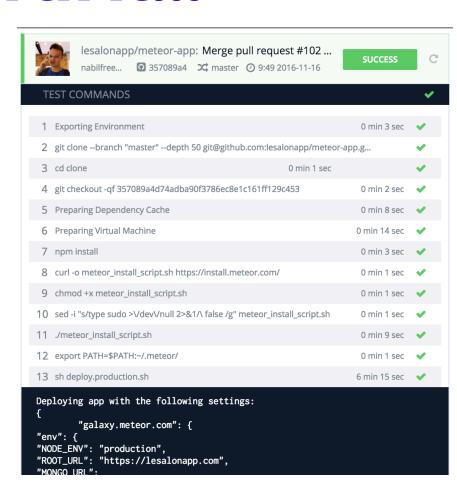
Create Deployment

...But worth it!!!

New pull request



Fully automated



Logs ...

request: updating npm dependencies -- request...

Deploying your app...

Upgrading lesalonapp.com to version 28 in lesalon's account in

eu-west-1.

Visit https://eu-west-1.galaxy.meteor.com/app/lesalonapp.com to check the

status of your app.

Notes

- From 20 minutes supervised deploys to 6 minutes automatic. Great success!
- settings.json needs to be in source control and contains sensitive information (might not be acceptable for some teams)
- This uses Galaxy, but you could also hack this to work with Meteor Up for custom servers.
- Codeship supports tests, but the Meteor app doesn't have any yet...

Future Meteor Plans

- Experiment with React framework instead of Blaze (we are transitioning to React Native for our mobile apps)
- Implement unit tests
- Look at front end testing with CasperJS
- Build a Meteor project from scratch (I inherited this one)



- WeChat me!
- http://freemans.website
 - (I'm a talented contractor)
- Suggestions to improve my CI setup are much appreciated



