무료 전자 책

배우기

meteor

Free unaffiliated eBook created from
Stack Overflow contributors.

#meteor

1:

Meteor JavaScript .

(Android / iOS /) .

:

-
- Meteor API
-
-

0.4.0	2012-08-30
0.5.0	2013-10-17
0.6.0	2013-04-04
0.7.0	2013-12-20
0.8.0	2014-04-21
0.9.0	2014-08-26
0.9.1	2014-09-04
0.9.2	2014-09-15
0.9.3	2014-09-25
0.9.4	2014-10-13
1.0.1	2014-12-09
1.0.2	2014-12-19
1.0.3.1	2014-12-09
1.1.0	2015-03-31
1.2.0	2015-09-21
1.3.0	2016-03-27
1.4.0	2016-07-25
1.5.0	2017-05-30

Examples

OS X Linux

Meteor :

```
$ curl https://install.meteor.com/ | sh
```

Windows

Meteor .

Meteor .

```
$ meteor create myapp
```

:

```
$ cd myapp
$ meteor npm install
$ meteor
```

: Meteor http : // localhost : 3000 /

http : // localhost : 3000 Meteor .

- [Meteor Guide] Meteor .
- Meteor Packages at atmosphere - .

Meteor . . Meteor ( ) .

```
meteor create --example <app name>
```

`todos` :

```
meteor create --example todos
```

.

```
meteor create --list
```

Meteor atmospherejs.com .

.

```
meteor add [package-author-name:package-name]
```

:

```
meteor add kadira:flow-router
```

.

```
meteor remove kadira:flow-router
```

.

```
meteor list
```

`./meteor/packages` `./meteor/packages` . .

(:) `packages` .

1.3 Meteor **npm** .

`meteor npm` `meteor npm` `npm` `meteor npm` npm .

. .

```
METEOR_DEBUG_BUILD=1       (logs progress)
METEOR_PROFILE=<n>         (logs time spent)
METEOR_DEBUG_SPRINGBOARD=1 (?)
METEOR_DEBUG_SQL=1         (logs SQLITE calls)
METEOR_PROGRESS_DEBUG=1    (? looks like it might be useful, but seems confusing)
```

`<n>` ms. .

Linux / OSX

```
export METEOR_DEBUG_BUILD=1
export METEOR_PROFILE=100
meteor
```

Windows

```
set METEOR_DEBUG_BUILD=1
set METEOR_PROFILE=100
meteor
```

Meteor Tool & Meteor Project

Meteor Meteor .

```
meteor --version
```

() .

```
meteor show METEOR
```

Meteor .

```
meteor --version
```

`.meteor/release` .

```
cat .meteor/release
```

Meteor , `.meteor/versions` :

```
cat .meteor/versions
```

Meteor Meteor `Meteor.release` .

```
Meteor.release
```

Meteor Tool .

Meteor Meteor .

```
meteor update
```

Meteor Meteor .

```
meteor update --release <release>
```

.

```
meteor update --packages-only
```

`meteor update` (:

```
meteor update [packageName packageName2 ...]
```

Meteor Cordova . (Apple App Store, Google Play)

1. Meteor :

```
meteor add-platform android
meteor add-platform ios # Only available with Mac OS
```

2. SDK / (iOS , OS).

3. ( ).

```
meteor run android # You may need to configure a default Android emulator first
```

iOS (Mac OS) :

```
meteor run ios # This will auto start an iOS simulator
```

4. App .

```
meteor build <output_folder> --server <url_app_should_connect_to>
```

`android` / `ios` .

- `android` `release-unsigned.apk` .
- `ios` Xcode .

Meteor Mobile Apps .
: Meteor Guide> Build> Mobile

: https://riptutorial.com/ko/meteor/topic/439/-

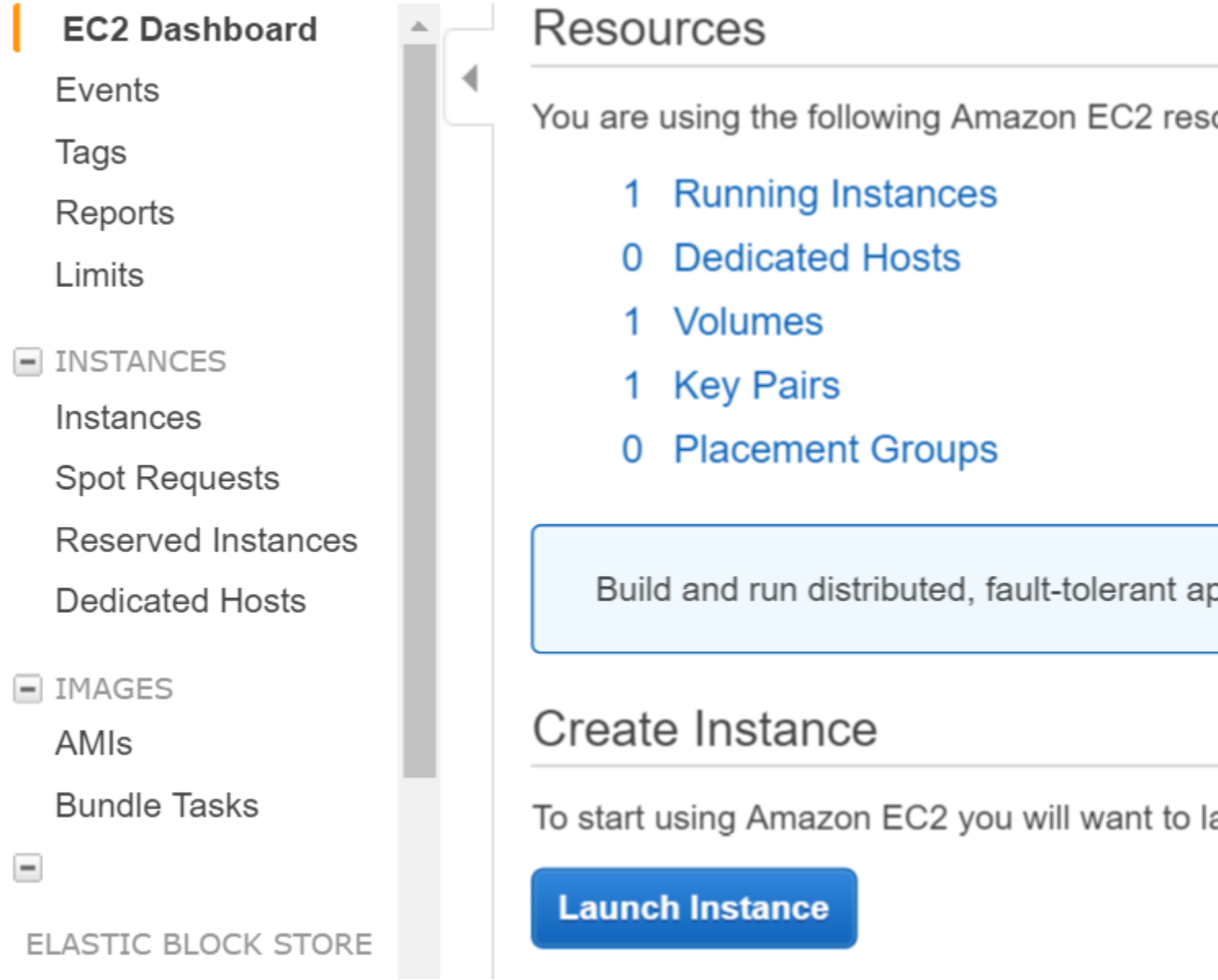
2: AWS EC2 Meteor 1.4

Examples

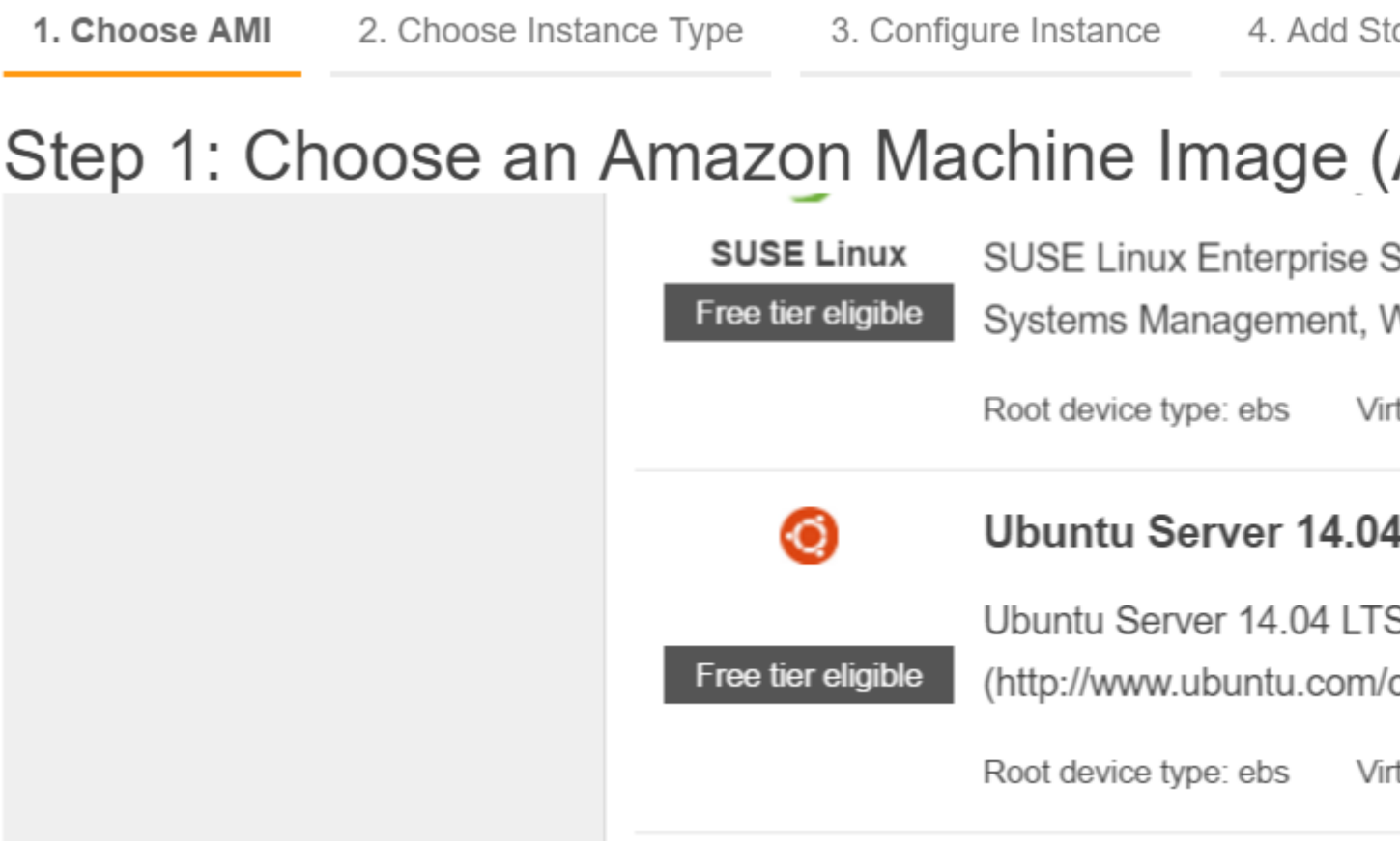
AWS

. OSS . .

AWS Console . EC2 . EC2 . .



.



.

aws ( )

```
ssh -i "myprivatekey.pem" ubuntu@ec2-xx-xx-xx-xx.ap-south-1.compute.amazonaws.com
```

ec2-xx-xx-xx-xx.ap-south-1.compute.amazonaws.com amazon DNS . . IP .

AWS (mupx)

1. aws server ssh

example `/home/ubuntu/.ssh/myprivatekey.pem`

2. .

```
sudo apt-get update
```

3.

```
 sudo apt-get install python-software-properties
```

4. npm (nvm).

```
sudo apt-get install npm
```

nvm

```
curl https://raw.githubusercontent.com/creationix/nvm/v0.11.1/install.sh | bash
```

```
nvm install 4.4.7

nvm use 4.4.7
```

5. aws cli

```
sudo apt-get install awscli
```

6.

```
 sudo npm install -g mupx

 sudo npm install -g mupx-letsencrypt
```

(1.4 mpux-letsencrypt)

7. mupx .

```
mupx-letsencrypt init
```

.

```
/usr/bin/env: node: No such file or directory



sudo ln -s /usr/bin/nodejs /usr/bin/node
```

8.

```
curl https://install.meteor.com | /bin/sh
```

9. mup.json (: 1)

(vi)

```
 nano mup.json
```

mup.json

```
    {
  // Server authentication info
  "servers": [
    {
      "host": "ec2-xx-xx-xx-xx.ap-south-1.compute.amazonaws.com",
      "username": "ubuntu",
```

```
      //"password": "password",
      // or pem file (ssh based authentication)
      "pem": "~/.ssh/myprivatekey.pem",
      // Also, for non-standard ssh port use this
      //"sshOptions": { "port" : 49154 },
      // server specific environment variables
      "env": {}
    }
  ],

  // Install MongoDB on the server. Does not destroy the local MongoDB on future setups
  "setupMongo": true,

  // WARNING: Node.js is required! Only skip if you already have Node.js installed on server.
  "setupNode": false,

  // WARNING: nodeVersion defaults to 0.10.36 if omitted. Do not use v, just the version
number.
  //"nodeVersion": "4.4.7",

  // Install PhantomJS on the server
  "setupPhantom": true,

  // Show a progress bar during the upload of the bundle to the server.
  // Might cause an error in some rare cases if set to true, for instance in Shippable CI
  "enableUploadProgressBar": true,

  // Application name (no spaces).
  "appName": "my-app",

  // Location of app (local directory). This can reference '~' as the users home directory.
  // i.e., "app": "/Users/ubuntu/my-app",
  // This is the same as the line below.
  "app": "/Users/ubuntu/my-app",

  // Configure environment
  // ROOT_URL must be set to https://YOURDOMAIN.com when using the spiderable package & force
SSL
  // your NGINX proxy or Cloudflare. When using just Meteor on SSL without spiderable this is
not necessary
  "env": {
    "PORT": 80,
    "ROOT_URL": "http://myapp.com",
     // only needed if mongodb is on separate server
    "MONGO_URL": "mongodb://url:port/MyApp",
    "MAIL_URL":   "smtp://postmaster%40myapp.mailgun.org:adj87sjhd7s@smtp.mailgun.org:587/"
  },

  // Meteor Up checks if the app comes online just after the deployment.
  // Before mup checks that, it will wait for the number of seconds configured below.
  "deployCheckWaitTime": 60
}
```

10. mongo Meteor .

```
mupx-letsencrypt setup
```

11. mupx

```
mupx-letsencrypt deploy
```

mupx

```
mupx logs -f
```

Docker

```
 docker -D info
```

```
netstat -a
```

CPU

```
 top
```

mongo aws mongo shell acccess .

```
sudo apt-get install mongodb-clients
```

mongodb

```
mongo projectName
```

mongo shell .

```
 db.version()
 db.users.find()
```

. https://github.com/arunoda/meteorupup

mupx-letsencrypt . https://www.npmjs.com/package/mupx-letsencrypt

AWS EC2 Meteor 1.4 : https://riptutorial.com/ko/meteor/topic/4773/aws-ec2-meteor-1-4----

3: Codeship Galaxy

Nate Strausers Metulsor Apps Modulus Galaxy Codeship .

Examples

- `deployment_token.json` :

```
METEOR_SESSION_FILE=deployment_token.json meteor login
```

- Codeship . (https://codeship.com/projects/PROJECT_NUMBER/configure_environment)
  - METEOR_TARGET : your.domain.com
  - METEOR_TOKEN : deployment_token.json / . : `{"sessions": {"www.meteor.com": {"session": "12345 ...`
  - METEOR_SETTING : / .json. : `{"private": {...`

- https://codeship.com/projects/YOUR_PROJECT_NUMBER/deployment_branches/new
  - . : .

- " ".

```
echo $METEOR_TOKEN > deployment_token.json
echo $METEOR_SETTINGS > deployment_settings.json
meteor npm prune --production
DEPLOY_HOSTNAME=galaxy.meteor.com METEOR_SESSION_FILE=deployment_token.json meteor deploy
$METEOR_TARGET --settings deployment_settings.json
```

Codeship Galaxy : https://riptutorial.com/ko/meteor/topic/6743/codeship-galaxy---

4: ES2015 ( )

MDN : https://developer.mozilla.org/en/docs/web/javascript/reference/statements/import MDN : https://developer.mozilla.org/en/docs/web/javascript / reference / statements / export ExploringJS : http://exploringjs.com/es6/ch_modules.html

Examples

```
import url from 'url';
import moment from 'moment';
```

```
import { Meteor } from 'meteor/meteor';
import { SimpleSchema } from 'meteor/aldeed:simple-schema';
```

Meteor

package.js :

```
Npm.depends({
  moment: "2.8.3"
});
```

:

```
import moment from 'moment';
```

```
// Default export
export default {};

// Named export
export const SomeVariable = {};
```

Meteor

mainModule

```
export const SomeVar = {};
```

ES2015 ( ) : https://riptutorial.com/ko/meteor/topic/3763/es2015-------

5: ESLint

Examples

Meteor eslint

`eslint-import-resolver-meteor` `eslint-config-airbnb` Meteor .

/ ES7 lint Meteor `babel-parser` .

```
cd my-project
npm install --save-dev eslint-config-airbnb eslint-plugin-import eslint-plugin-react eslint-
plugin-jsx-a11y eslint babel-eslint eslint-import-resolver-meteor
touch .eslintrc.json
```

`.eslintrc.json` `.eslintrc.json` . .

```
{
  "parser": "babel-eslint",
  "settings": {
    "import/resolver": "meteor"
  },
  "extends": "airbnb",
  "rules": {}
}
```

npm lint

`package.json` .

```
{
  "scripts": {
    "lint": "eslint .;exit 0"
  }
}
```

`npm run lint` .

linting `exit 0` . `npm eslint` .

ESLint : https://riptutorial.com/ko/meteor/topic/3772/eslint

6: Meteor + React + ReactRouter

Meteor React ReactRouter . 0.

.

1-

2 - React + ReactRouter

3 -

4-

Examples

1 - https://www.meteor.com/install .

2 . (`--bare`)

```
meteor create --bare MyAwesomeProject
```

(`-p`) :

```
cd MyAwesomeProject

mkdir -p client server imports/api imports/ui/{components,layouts,pages}
imports/startup/{client,server}
```

client / main.html HTML .

```
<head>
   <meta charset="utf-8">
   <title>My Awesome Meteor_React_ReactRouter_Roles App</title>
</head>

<body>
  Welcome to my Meteor_React_ReactRouter_Roles app
</body>
```

5- : (3000 '-p 3000')

```
meteor run -p 3000
```

'localhost : 3000'

:

- . , *imports / startup / {client, server}* index.js .

- https://github.com/rafa-lft/Meteor_React_Base . *Step1_CreateProject* .

React + ReactRouter

. cd MyAwesomeProject

1-

```
meteor npm install --save react-router@3.0.0 react@15.5.4 react-dom@15.5.4
```

2 - / main.html :

```
 <body>
    <div id="react-root"></div>
 </body>
```

reactRouter '# react-root' .

3- imports / ui / layouts / App.jsx

```
import React, { Component } from 'react';
import PropTypes from 'prop-types';


class App extends Component {
  constructor(props) {
    super(props);
  }

  render() {
    return (
      <div>
        {this.props.children}
      </div>
    );
  }
}

App.propTypes = {
  children: PropTypes.node
};

export default App;
```

4- imports / startup / client / Routes.jsx Routes

```
import ReactDOM from 'react-dom';
import React, { Component } from 'react';
import { Router, Route, IndexRoute, browserHistory } from 'react-router';

import App from '../../ui/layouts/App.jsx';

import NotFound from '../../ui/pages/NotFound.jsx';
import Index from '../../ui/pages/Index.jsx';
```

```
class Routes extends Component {
  constructor(props) {
    super(props);
  }

  render() {
    return (
      <Router history={ browserHistory }>
        <Route path="/" component={ App }>
          <IndexRoute name="index" component={ Index }/>
          <Route path="*" component={ NotFound }/>
        </Route>
      </Router>
    );
  }
}

Routes.propTypes = {};


Meteor.startup(() =>{
  ReactDOM.render(
    <Routes/>,
    document.getElementById('react-root')
  );
});
```

:

- . imports / ui / pages {Index.jsx, NotFound.jsx} .
- https://github.com/rafa-lft/Meteor_React_Base . . *Step2_ReactRouter*

3 -

. `cd MyAwesomeProject`

1 - : `meteor add accounts-base accounts-password react-meteor-data`

2 - imports / startup / Routes.jsx . *render ()* .

```
  render() {
    return (
      <Router history={ browserHistory }>
        <Route path="/" component={ App }>
          <IndexRoute name="index" component={ Index }/>
          <Route name="login" path="/login" component={ Login }/>
          <Route name="signup" path="/signup" component={ Signup }/>
          <Route name="users" path="/users" component={ Users }/>
          <Route name="editUser" path="/users/:userId" component={ EditUser }/>
          <Route path="*" component={ NotFound }/>
        </Route>
      </Router>
```

```
    );
  }
```

:

- . , imports / startup / server / index.js imports / ui / layouts / {App, NavBar} .jsx import / ui / pages / {, , , } .jsx .
- https://github.com/rafa-lft/Meteor_React_Base . *Step3_Accounts* .

1- (https://github.com/alanning/mete-roles)

```
meteor add alanning:roles
```

2 - . / api / accounts / roles.js

```
const ROLES = {
  ROLE1: 'ROLE1',
  ROLE2: 'ROLE2',
  ADMIN: 'ADMIN'
};

export default ROLES;
```

3 - / . `Roles.setUserRoles(user.id, roles);` `Roles.setUserRoles(user.id, roles);` https://github.com/alanning/meteor-roles http://alanning.github.io/meteor-roles/classes/Roles.html .

4- (https://github.com/rafa-lft/Meteor_React_Base *.Tep4_roles* .)) . / / / Routes.jsx

```
class Routes extends Component {
  constructor(props) {
    super(props);
  }

  authenticate(roles, nextState, replace) {
    if (!Meteor.loggingIn() && !Meteor.userId()) {
      replace({
        pathname: '/login',
        state: {nextPathname: nextState.location.pathname}
      });
      return;
    }
    if ('*' === roles) { // allow any logged user
      return;
    }
    let rolesArr = roles;
    if (!_.isArray(roles)) {
      rolesArr = [roles];
    }
    // rolesArr = _.union(rolesArr, [ROLES.ADMIN]);// so ADMIN has access to everything
    if (!Roles.userIsInRole(Meteor.userId(), rolesArr)) {
      replace({
```

```
        pathname: '/forbidden',
        state: {nextPathname: nextState.location.pathname}
      });
    }
  }

  render() {
    return (
      <Router history={ browserHistory }>
        <Route path="/" component={ App }>
          <IndexRoute name="index" component={ Index }/>
          <Route name="login" path="/login" component={ Login }/>
          <Route name="signup" path="/signup" component={ Signup }/>

          <Route name="users" path="/users" component={ Users }/>

          <Route name="editUser" path="/users/:userId" component={ EditUser }
                 onEnter={_.partial(this.authenticate, ROLES.ADMIN)} />


          {/* ********************
           Below links are there to show Roles authentication usage.
           Note that you can NOT hide them by
           { Meteor.user() && Roles.userIsInRole(Meteor.user(), ROLES.ROLE1) &&
           <Route name=.....
           }
           as doing so will change the Router component on render(), and ReactRouter will
complain with:
           Warning: [react-router] You cannot change <Router routes>; it will be ignored

           Instead, you can/should hide them on the NavBar.jsx component... don't worry: if
someone tries to access
           them, they will receive the Forbidden.jsx component
           *************/ }
          <Route name="forAnyOne" path="/for_any_one" component={ ForAnyone }/>

          <Route name="forLoggedOnes" path="/for_logged_ones" component={ ForLoggedOnes }
                 onEnter={_.partial(this.authenticate, '*')} />

          <Route name="forAnyRole" path="/for_any_role" component={ ForAnyRole }
                 onEnter={_.partial(this.authenticate, _.keys(ROLES))}/>

          <Route name="forRole1or2" path="/for_role_1_or_2" component={ ForRole1or2 }
                 onEnter={_.partial(this.authenticate, [ROLES.ROLE1, ROLES.ROLE2])} />

          <Route name="forRole1" path="/for_role1" component={ ForRole1 }
                 onEnter={_.partial(this.authenticate, ROLES.ROLE1)}/>

          <Route name="forRole2" path="/for_role2" component={ ForRole2 }
                 onEnter={_.partial(this.authenticate, ROLES.ROLE2)} />


          <Route name="forbidden" path="/forbidden" component={ Forbidden }/>

          <Route path="*" component={ NotFound }/>
        </Route>
      </Router>
    );
  }
}
```

onEnter . . onEnter 2 . (http://underscorejs.org/#partial) () . onEnter *authenticate* .

- . '/ login' .
- === '*' .
- (Roles.userIsInRole) .
- , ADMIN .

(onEnter), , .

ReactRouter (3) Render . Routes.jsx . authenticate / forbidden .

ReactRouter Meteor . . Meteor.user () .

createContainer Meteor.user () . import / ui / layouts / NavBar.jsx .

```
export default createContainer((/* {params}*/) =>{
  Meteor.user(); // so we render again in logout or if any change on our User (ie: new roles)
  const loading = !subscription.ready();
  return {subscriptions: [subscription], loading};
}, NavBar);
```

:

- . , imports / startup / server / index.js imports / ui / layouts / {App, NavBar} .jsx import / ui / pages / {, , , } .jsx .
- https://github.com/rafa-lft/Meteor_React_Base . *Step4_roles* .

Meteor + React + ReactRouter : https://riptutorial.com/ko/meteor/topic/10114/meteor-plus-react-plus-reactrouter

7: Meteor.call

Examples

Meteor.call

```
Meteor.call(name, [arg1, arg2...], [asyncCallback])
```

(1)
(2)
(3) arg1, arg2 ... EJSON []
(4) asyncCallback []

: (**Session ReactiveVar**)

```
    var syncCall = Meteor.call("mymethod") // Sync call
```

.

```
    Meteor.methods({
        mymethod: function() {
            let asyncToSync =  Meteor.wrapAsync(asynchronousCall);
            // do something with the result;
            return  asyncToSync;
        }
    });
```

.

:

```
Meteor.call("mymethod", argumentObjectorString, function (error, result) {
    if (error) Session.set("result", error);
    else Session.set("result",result);
}
Session.get("result") -> will contain the result or the error;

//Session variable come with a tracker that trigger whenever a new value is set to the session
variable. \ same behavior using ReactiveVar
```

```
Meteor.methods({
    mymethod: function(ObjectorString) {
        if (true) {
            return true;
        } else {
            throw new Meteor.Error("TitleOfError", "ReasonAndMessageOfError"); // This will
and up in the error parameter of the Meteor.call
        }
    }
});
```

Meteor .

```
Meteor.methods({
  getData() {
    return 'Hello, world!';
  }
});
```

```
<template name="someData">
  {{#if someData}}
    <p>{{someData}}</p>
  {{else}}
    <p>Loading...</p>
  {{/if}}
</template>
```

```
Template.someData.onCreated(function() {
  Meteor.call('getData', function(err, res) {
    Session.set('someData', res);
  });
});

Template.someData.helpers({
  someData: function() {
    return Session.get('someData');
  }
});
```

ReactiveVar

```
Meteor.methods({
  getData() {
    return 'Hello, world!';
  }
});
```

```
<template name="someData">
  {{#if someData}}
    <p>{{someData}}</p>
  {{else}}
    <p>Loading...</p>
  {{/if}}
</template>
```

```
Template.someData.onCreated(function() {

  this.someData = new ReactiveVar();

  Meteor.call('getData', (err, res) => {
    this.someData.set(res);
  });
});

Template.someData.helpers({
```

```
  someData: function() {
    return Template.instance().someData.get();
  }
});
```

`reactive-var` . `meteor add reactive-var` run `meteor add reactive-var` `meteor add reactive-var` .

Meteor.call : https://riptutorial.com/ko/meteor/topic/3068/meteor-call---

8: Meteor

Examples

`HTTP [S] _PROXY` env var

Meteor (: ,) .

, Meteor `HTTP_PROXY HTTPS_PROXY` ( ) . Meteor :

- Linux Mac OS X

```
export HTTP_PROXY=http://user:password@1.2.3.4:5678
export HTTPS_PROXY=http://user:password@1.2.3.4:5678
meteor update
```

- Windows

```
SET HTTP_PROXY=http://user:password@1.2.3.4:5678
SET HTTPS_PROXY=http://user:password@1.2.3.4:5678
meteor update
```

- Nginx Meteor App Ubuntu .
- 14 Nginx SSL
- Nginx Ubuntu Meteor JS
- SSL
- NameCheap SSL

Meteor : https://riptutorial.com/ko/meteor/topic/517/meteor---

9: Mongo

Ruby Genghis . http://genghisapp.com/

MongoHQ .
http://www.mongohq.com/

Mongo 10Gen Mongo Monitoring Service :
https://mms.mongodb.com/

MongoClient Meteor, Complete Free, Open Source Cross-Platform .

RoboMongo MongoDB

Examples

. variety.js . schema.js. . Mongo .

variety.js

```
mongo test --eval "var collection = 'users'" variety.js
```

schema.js

```
mongo --shell schema.js
```

* .meteorapp.com

--url . 60 / . robomongo .

```
# get the MONGO_URL string for your app
meteor mongo --url $METEOR_APP_URL
```

* .meteor.com

mongodump . / . ! ! ! ! :

```
# get the MONGO_URL string for your app
meteor mongo --url $METEOR_APP_URL

# then quickly copy all the info into the following command
mongodump -u username -p password --port 27017 --db meteor_app_url_com --host production-db-
b1.meteor.io
```

Meteor ?

/ dump BSON blob . .

```
mongodump --db meteor
```

`meteordump` `meteorrestore` . . drop .

```
# make sure your app is running
meteor

# then import your data
mongorestore --port 3001 --db meteor /path/to/dump

# a partial import after running > db.comments.drop()
mongorestore --port 3001 --db meteor /path/to/dump -c comments.bson
```

JSON

.

```
mongoexport --db meteor --collection foo --port 3001 --out foo.json
```

Meteor JSON

Meteor . json --jsonArray .

```
mongoimport --db meteor --port 3001 --collection foo --file foo.json
```

Mongo . .

```
// run mongod so we can create a staging database
// note that this is a separate instance from the meteor mongo and minimongo instances
mongod

// import the json data into a staging database
// jsonArray is a useful command, particularly if you're migrating from SQL
mongoimport -d staging -c assets < data.json --jsonArray

// navigate to your application
cd myappdir

// run meteor and initiate it's database
meteor

// connect to the meteor mongodb
meteor mongo --port 3002

// copy collections from staging database into meteor database
db.copyDatabase('staging', 'meteor', 'localhost');
```

. Mongo . . , 2GB . prealloc 2GB. . MongoDB .

reduce-mongodb-database-file-size
mongo-prealloc-files-take-up room

```
// compact the database from within the Mongo shell
db.runCommand( { compact : 'mycollectionname' } )

// repair the database from the command line
mongod --config /usr/local/etc/mongod.conf --repair --repairpath /Volumes/X/mongo_repair --
nojournal

// or dump and re-import from the command line
mongodump -d databasename
echo 'db.dropDatabase()' | mongo databasename
mongorestore dump/databasename
```

. Mongo / dbpath ( ) .

* .meteor.com Mongo

`--url` ? .

```
meteor mongo --url YOURSITE.meteor.com
```

Meteor Mongo

. '' tar.gz . .meteor / db mongo . mongodb mongodb Mongo_URL Metoor mongo .

```
MONGO_URL='mongodb://user:password@host:port/databasename'
```

...

```
/var/log/mongodb/server1.log
```

. . ...
mongodb-log-file-growth

...

```
ls /var/log/mongodb/
```

...

```
// put the following in the /etc/logrotate.d/mongod file
/var/log/mongo/*.log {
    daily
    rotate 30
    compress
    dateext
    missingok
    notifempty
    sharedscripts
    copytruncate
    postrotate
```

```
        /bin/kill -SIGUSR1 `cat /var/lib/mongo/mongod.lock 2> /dev/null` 2> /dev/null || true
    endscript
}

// to manually initiate a log file rotation, run from the Mongo shell
use admin
db.runCommand( { logRotate : 1 } )
```

Mongo : https://riptutorial.com/ko/meteor/topic/3707/mongo--

10: Mongo

. . . . . ., " .

" . SQL . Meteor API . , API .

meteor mongo .

```
# run meteor
meteor

# access the database shell in a second terminal window
meteor mongo
```

Examples

```
db.posts.find().forEach(function(doc){
    db.posts.update({_id: doc._id}, {$set:{'version':'v1.0'}}, false, true);
});
```

```
db.posts.find().forEach(function(doc){
    if(doc.arrayOfObjects){
        // the false, true at the end refers to $upsert, and $multi, respectively
        db.accounts.update({_id: doc._id}, {$unset: {'arrayOfObjects': "" }}, false, true);
    }
});
```

```
db.originalName.renameCollection("newName" );
```

....

```
db.posts.find({'text': /.*foo.*|.*bar.*/i})
```

```
db.posts.find().forEach(function(doc){
    if(doc.oldField){
        db.posts.update({_id: doc._id}, {$set:{'newField':doc.oldField}}, false, true);
    }
});
```

```
db.posts.find().forEach(function(doc){
    if(doc.commenters){
        var firstCommenter = db.users.findOne({'_id': doc.commenters[0]._id });
        db.clients.update({_id: doc._id}, {$set:{'firstPost': firstCommenter }}, false, true);

        var firstCommenter = db.users.findOne({'_id': doc.commenters[doc.commenters.length -
1]._id });
        db.clients.update({_id: doc._id}, {$set:{'lastPost': object._id }}, false, true);
    }
});
```

(,)

```
db.posts.find().forEach(function(doc){
    if(doc.commentsBlobId){
        var commentsBlob = db.comments.findOne({'_id': commentsBlobId });
        db.posts.update({_id: doc._id}, {$set:{'comments': commentsBlob }}, false, true);
    }
});
```

.

```
db.posts.find().forEach(function(doc){
    if(!doc.foo){
        db.posts.update({_id: doc._id}, {$set:{'foo':''}}, false, true);
    }
});
```

.

```
db.posts.find().forEach(function(doc){
    if(!doc.foo){
        db.posts.update({_id: doc._id}, {$set:{'foo':'bar'}}, false, true);
    }
});
```

```
db.posts.find().forEach(function(doc){
    if(doc.foo === 'bar'){
        db.posts.remove({_id: doc._id});
    }
});
```

```
db.posts.find().forEach(function(doc){
    if(doc.foo === 'bar'){
        db.posts.update({_id: doc._id}, {$set:{'foo':'squee'}}, false, true);
    }
});
```

Null

```
db.posts.find().forEach(function(doc){
    if(doc.oldfield){
        // the false, true at the end refers to $upsert, and $multi, respectively
        db.accounts.update({_id: doc._id}, {$unset: {'oldfield': "" }}, false, true);
    }
});
```

ObjectId String .

```
db.posts.find().forEach(function(doc){
```

```
     db.accounts.update({_id: doc._id}, {$set: {'_id': doc._id.str }}, false, true);
});
```

```
var newvalue = "";
db.posts.find().forEach(function(doc){
     if(doc.foo){
         newvalue = '"' + doc.foo + '"';
         db.accounts.update({_id: doc._id}, {$set: {'doc.foo': newvalue}});
     }
});
```

```
var newvalue = null;
db.posts.find().forEach(function(doc){
     if(doc.foo){
         newvalue = '"' + doc.foo + '"';
         db.accounts.update({_id: doc._id}, {$set: {'doc.foo': newvalue}});
     }
});
```

_id ObjectID

```
db.posts.find().forEach(function(doc){
    if(doc._id){
        db.posts.update({_id: doc._id}, {$set:{ timestamp: new
Date(parseInt(doc._id.str.slice(0,8), 16) *1000) }}, false, true);
    }
});
```

Date ObjectID

```
var timestamp = Math.floor(new Date(1974, 6, 25).getTime() / 1000);
var hex       = ('00000000' + timestamp.toString(16)).substr(-8); // zero padding
var objectId  = new ObjectId(hex + new ObjectId().str.substring(8));
```

.

```
db.posts.find({"tags.0": {$exists: true }})
```

Mongo : https://riptutorial.com/ko/meteor/topic/3708/mongo--

11: MongoDB

MongoDB . SQL MongoDB JSON BSON . Meteor MongoDB MongoDB Meteor .

Examples

DB , Meteor Mongo DB

.

1. `mongodump --host some-mongo-host.com:1234 -d DATABASE_NAME -u DATABASE_USER -p DATABASE_PASSWORD dump . DATABASE_NAME .`
2. `dump . mongorestore --db meteor --drop -h localhost --port 3001 DATABASE_NAME`

DB URL

Meteor :

```
meteor mongo --url
```

Mongo DB Meteor

Meteor `MONGO_URL` .

Linux / MacOS :

```
MONGO_URL="mongodb://some-mongo-host.com:1234/mydatabase" meteor
```

```
export MONGO_URL="mongodb://some-mongo-host.com:1234/mydatabase"
meteor
```

Windows

: "

```
set MONGO_URL=mongodb://some-mongo-host.com:1234/mydatabase
meteor
```

NPM

```
//package.json

"scripts": {
    "start": "MONGO_URL=mongodb://some-mongo-host.com:1234/mydatabase meteor"
```

```
}

$ npm start
```

MongoDB

URL `MONGO_URL` MongoDB Meteor Meteor (Meteor) .

MongoDB Meteor / . : `Meteor.userId()`

Linux / Mac :

```
MONGO_URL="none" meteor
```

```
export MONGO_URL="none"
meteor
```

Windows :

```
set MONGO_URL=none
meteor
```

Meteor **`mongo`** .

```
meteor mongo
```

: Meteor .

`mongo` .

```
show collections
```

, , MongoDB .

`find()` . :

```
db.collection.find({name: 'Matthias Eckhart'});
```

`name Matthias Eckhart` . .

.

```
db.collection.insert({name: 'Matthias Eckhart'});
```

---

update() . .

```
db.collection.update({name: 'Matthias Eckhart'}, {$set: {name: 'John Doe'}});
```

name John Doe (Matthias Eckhart).

multi true . .

```
db.collection.update({name: 'Matthias Eckhart'}, {$set: {name: 'John Doe'}}, {multi: true});
```

name Matthias Eckhart John Doe .

---

remove() . .

```
db.collection.remove({name: 'Matthias Eckhart'});
```

name . .

MongoDB : https://riptutorial.com/ko/meteor/topic/1874/mongodb

12: MongoDB

meteor 0.6 * "mongodb ?

(Minimongo)

https://github.com/utunga/pocketmeteor/tree/master/packages/mongowrapper

Examples

Andrew Mao .

```
Meteor.publish("someAggregation", function (args) {
    var sub = this;
    // This works for Meteor 0.6.5
    var db = MongoInternals.defaultRemoteCollectionDriver().mongo.db;

    // Your arguments to Mongo's aggregation. Make these however you want.
    var pipeline = [
        { $match: doSomethingWith(args) },
        { $group: {
            _id: whatWeAreGroupingWith(args),
            count: { $sum: 1 }
        }}
    ];

    db.collection("server_collection_name").aggregate(
        pipeline,
        // Need to wrap the callback so it gets called in a Fiber.
        Meteor.bindEnvironment(
            function(err, result) {
                // Add each of the results to the subscription.
                _.each(result, function(e) {
                    // Generate a random disposable id for aggregated documents
                    sub.added("client_collection_name", Random.id(), {
                        key: e._id.somethingOfInterest,
                        count: e.count
                    });
                });
                sub.ready();
            },
            function(error) {
                Meteor._debug( "Error doing aggregation: " + error);
            }
        )
    );
});
```

```
Mongo.Collection#rawCollection()
```

.

Meteor 1.3 .

```
Meteor.methods({
   'aggregateUsers'(someId) {
      const collection = MyCollection.rawCollection()
      const aggregate = Meteor.wrapAsync(collection.aggregate, collection)

      const match = { age: { $gte: 25 } }
      const group = { _id:'$age', totalUsers: { $sum: 1 } }

      const results = aggregate([
         { $match: match },
         { $group: group }
      ])

      return results
   }
})
```

MongoDB : https://riptutorial.com/ko/meteor/topic/4199/mongodb-

13: Nightwatch -

Nightwatch Meteor Acceptance End-to-End v0.5 PHP Spark to Blaze React . Continuous Integration . .

Nightwatch API
Nightwatch.js Google

Examples

Nightwatch . Nightwatch .

.meteor / nightwatch.json

Meteor v1.3 , `default` `phantom` .

```
{
  "nightwatch": {
    "version": "0.9.8"
  },
  "src_folders": [
    "./tests/nightwatch/walkthroughs"
  ],
  "custom_commands_path": [
    "./tests/nightwatch/commands"
  ],
  "custom_assertions_path": [
    "./tests/nightwatch/assertions"
  ],
  "output_folder": "./tests/nightwatch/reports",
  "page_objects_path": "./tests/nightwatch/pages",
  "globals_path": "./tests/nightwatch/globals.json",
  "selenium": {
    "start_process": true,
    "server_path": "./node_modules/starrynight/node_modules/selenium-server-standalone-
jar/jar/selenium-server-standalone-2.45.0.jar",
    "log_path": "tests/nightwatch/logs",
    "host": "127.0.0.1",
    "port": 4444,
    "cli_args": {
      "webdriver.chrome.driver":
"./node_modules/starrynight/node_modules/chromedriver/bin/chromedriver"
    }
  },
  "test_settings": {
    "default": {
      "launch_url": "http://localhost:5000",
      "selenium_host": "127.0.0.1",
      "selenium_port": 4444,
      "pathname": "/wd/hub",
      "silent": true,
      "disable_colors": false,
      "firefox_profile": false,
      "ie_driver": "",
      "screenshots": {
```

```
        "enabled": false,
        "path": "./tests/nightwatch/screenshots"
      },
      "desiredCapabilities": {
        "browserName": "chrome",
        "javascriptEnabled": true,
        "acceptSslCerts": true,
        "loggingPrefs": {
          "browser": "ALL"
        }
      },
      "exclude": "./tests/nightwatch/unittests/*",
      "persist_globals": true,
      "detailed_output": false
    },
    "phantom": {
      "desiredCapabilities": {
        "browserName": "phantomjs",
        "javascriptEnabled": true,
        "databaseEnabled": false,
        "locationContextEnabled": false,
        "applicationCacheEnabled": false,
        "browserConnectionEnabled": false,
        "webStorageEnabled": false,
        "acceptSslCerts": true,
        "rotatable": false,
        "nativeEvents": false,
        "phantomjs.binary.path": "./node_modules/starrynight/node_modules/phantomjs-
prebuilt/bin/phantomjs"
      }
    },
    "unittests": {
      "selenium": {
        "start_process": false,
        "start_session": false
      },
      "filter": "./tests/nightwatch/unittests/*",
      "exclude": ""
    }
  }
}
```

Nightwatch . **(phantomj)** .

`package.json` devDependencies .

```
{
  "devDependencies": {
    "nightwatch": "0.9.8",
    "selenium-server-standalone-jar": "2.45.0",
    "chromedriver": "2.19.0",
    "phantomjs-prebuilt": "2.1.12"
  }
}
```

depndencies .

```
cd myapp
```

```
meteor npm install
```

Nightwatch .

```
nightwatch -c .meteor/nightwatch.json
nightwatch -c .meteor/nightwatch.json --env phantom
```

.

`package.json` . devDependencies .

```
{
  "name": "myapp",
  "version": "1.0.0",
  "scripts": {
    "start": "meteor --settings settings-development.json",
    "nightwatch": "nightwatch -c .meteor/nightwatch.json",
    "phantom": "nightwatch -c .meteor/nightwatch.json --env phantom",
  }
}
```

.

```
meteor npm run-script nightwatch
meteor npm run-script phantom
```

`nightwatch -c .meteor/nightwatch.json` . , devops .

Meteor Nightwatch .

```
/myapp
/myapp/.meteor/nightwatch.json
/client/main.html
/client/main.js
/client/main.css
/tests
/tests/nightwatch
/tests/nightwatch/assertions
/tests/nightwatch/commands
/tests/nightwatch/data
/tests/nightwatch/logs
/tests/nightwatch/pages
/tests/nightwatch/reports
/tests/nightwatch/screenshots
/tests/nightwatch/walkthroughs
/tests/nightwatch/walkthroughs/critical_path.js
/tests/nightwatch/globals.json
```

Nightwatch `Meteor.settings` `globals.json` .

globals.json

```
{
```

```
  "default" : {
    "url" : "http://localhost:3000",
    "user": {
      "name": "Jane Doe",
      "username" : "janedoe",
      "password" : "janedoe123",
      "email" : "janedoe@test.org",
      "userId": null
    }
  },
  "circle" : {
    "url" : "http://localhost:3000",
    "user": {
      "name": "Jane Doe",
      "username" : "janedoe",
      "password" : "janedoe123",
      "email" : "janedoe@test.org"
      "userId": null
    }
  },
  "galaxy" : {
    "url" : "http://myapp.meteorapp.com",
    "user": {
      "name": "Jane Doe",
      "username" : "janedoe",
      "password" : "janedoe123",
      "email" : "janedoe@test.org"
      "userId": null
    }
  }
}
```

,, .

```
module.exports = {
  "Login App" : function (client) {
    client
      .url(client.globals.url)
      .login(client.globals.user.email, client.globals.user.password)
      .end();
  }
};
```

Nightwatch - : https://riptutorial.com/ko/meteor/topic/5901/nightwatch-----

14: Upstart

Examples

Ubuntu Amazon Web Services Rackspace IaaS (Infrastructure as a Service) . Ubuntu . Upstart . Upstart .

Upstart -
Ubuntu Upstart

Intro,
Ubuntu Karmic NodeJS

Git GitHub . GitHub . . Meteor (500MB) .

```
cd /var/www
sudo git clone http://github.com/myaccount/myapp.git
cd /var/www/myapp
meteor build --directory ../myapp-production
sudo service myapp restart
```

.

```
cd myapp
meteor build --directory ../output
cd ..
scp output -r username@destination_host:/var/www/myapp-production
```

`/etc/init/ directory` upstart . `.conf` `/etc/init/myapp.conf` . .

```
## /etc/init/myapp.conf
description "myapp.mydomain.com"
author      "somebody@gmail.com"

# Automatically Run on Startup
start on started mountall
stop on shutdown

# Automatically Respawn:
respawn
respawn limit 99 5

script
    export HOME="/root"
    export MONGO_URL='mongodb://myapp.compose.io:27017/meteor'
    export ROOT_URL='http://myapp.mydomain.com'
    export PORT='80'

    exec /usr/local/bin/node /var/www/myapp/main.js >> /var/log/myapp.log 2>&1
end script
```

, .

```
# /etc/init/myapp.conf
description "myapp.mydomain.com"
author      "somebody@gmail.com"

# used to be: start on startup
# until we found some mounts weren't ready yet while booting:
start on started mountall
stop on shutdown

# Automatically Respawn:
respawn
respawn limit 99 5

script
    # upstart likes the $HOME variable to be specified
    export HOME="/root"

    # our example assumes you're using a replica set and/or oplog integreation
    export MONGO_URL='mongodb://mongo-a,mongo-b,mongo-c:27017/?replicaSet=meteor'

    # root_url and port are the other two important environment variables to set
    export ROOT_URL='http://myapp.mydomain.com'
    export PORT='80'

    exec /usr/local/bin/node /var/www/production/main.js >> /var/log/node.log 2>&1
end script
```

Upstart .

```
sudo service myapp start
```

Meteor Apps

https://www.phusionpassenger.com/
https://github.com/phusion/passenger
https://github.com/phusion/passenger/wiki/Phusion-Passenger:-Meteor-tutorial#wiki-installing

Upstart : https://riptutorial.com/ko/meteor/topic/3377/upstart--

15: Windows Meteor

Mac Linux `meteor` `ssh` . Windows . .

Examples

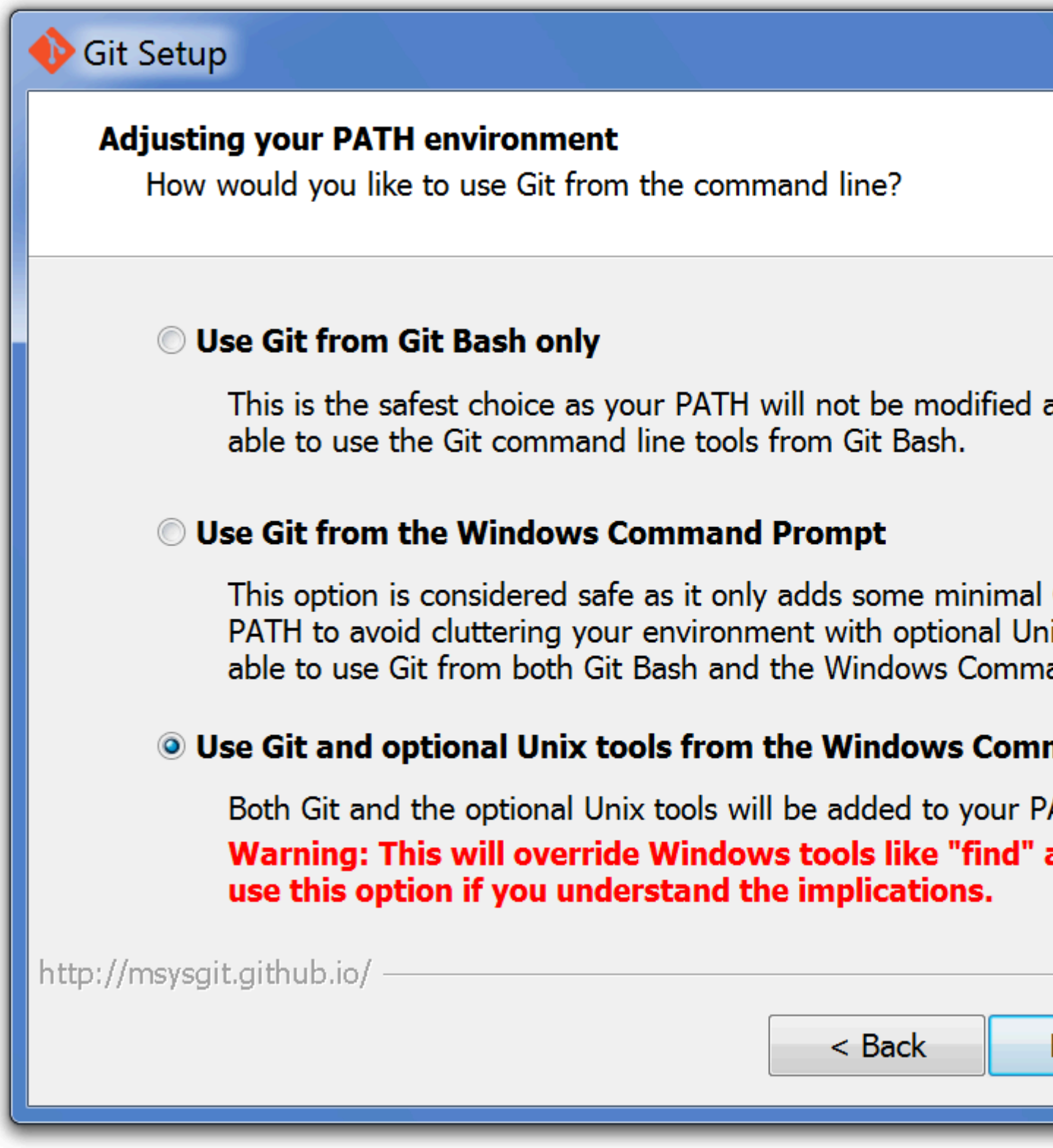
PuTTY ()

Windows PATH Unix PuTTY SSH . PuTTY .

1. `meteor admin get-machine <os-architecture> --json`
2. JSON
3. PuTTY .
4. PuTTY , !

Cygwin (Windows Unix)

Git for Windows "Windows Git Unix " .



`meteor admin get-machine <os-architecture>` Linux Mac . .

Windows Meteor : https://riptutorial.com/ko/meteor/topic/518/windows-meteor---

16:

Examples

. IDE Meteor .

- Atom - Meteor Javascript IDE. .
- Cloud9 - Meteor Cloud Development .
- MeteorDevTools - Blaze, DDP Minimongo Chrome .
- - .
- WebStorm - Meteor IDE.

'Hello World' .

- Robomongo - Mongo . .
- JSON Generator - .
- MacOSX - MacOSX GUI.
- MongoHub - RoboMongo Mongo GUI. MacOSX .
- Mongo3 - . . Ruby .
- Mongo - MMS . MongoDB Atlas .
- Mongo Express - Node.js MongoDB

Meteor . Meteor .

- Google - .
- Zitub.io - GitHub .
- InVision - .
- Meeting Hero - .
- Hackpad - .
- - .
- MadEye - .
- Screenhero - .
- Proto.io - .
- HuBoard - GitHub .
- Zapier - . .
- Teamwork.com - .
- Sprint.ly - GitHub kanban .
- LucidChart - Visio .
- Waffle.io - GitHub Trello / ZenHub .

REST

Meteor API REST . REST API Chrome .

-
- DHC

:

- Hurl.it
- RequestBin

Chrome Safari . 99 % . Firefox .

- Firefox - Firebug
-
- `meteor add meteortoys:allthings`

iOS

Texttastic - iOS .

- Github iPad .

CodeHub - GitHub . .

iOctocat - Github .

iPad iMockups - . .

- iOS . iOS .

JSON Designer - .

: https://riptutorial.com/ko/meteor/topic/4200/-

17: / NPM

Examples

Meteor /

Meteor / .

```
meteor node -v
```

/ NPM : https://riptutorial.com/ko/meteor/topic/4599/---npm

18:

Meteor .

Examples

autopublish autopublish . autopublish .

autopublish autopublish .

```
$ meteor remove autopublish
```

. .

```
import { Mongo } from 'meteor/mongo';
import { Meteor } from 'meteor/meteor';

const Todos = new Mongo.Collection('todos');

const TODOS = [
  { title: 'Create documentation' },
  { title: 'Submit to Stack Overflow' }
];

if (Meteor.isServer) {
  Meteor.startup(function () {
    TODOS.forEach(todo => {
      Todos.upsert(
        { title: todo.title },
        { $setOnInsert: todo }
      );
    });
  });

  // first parameter is a name.
  Meteor.publish('todos', function () {
    return Todos.find();
  });
}

if (Meteor.isClient) {
  // subscribe by name to the publication.
  Meteor.startup(function () {
    Meteor.subscribe('todos');
  })
}
```

.

null .

```
Meteor.publish(null, function() {
  return SomeCollection.find();
```

```
})
```

.

.

```
Meteor.publish('somePublication', function() {
  return SomeCollection.find()
})
```

.

```
Meteor.subscribe('somePublication')
```

Meteor Spacebars Blaze .

Meteor .

.

```
<template name="myTemplate">
  We will use some data from a publication here
</template>
```

.

```
Template.myTemplate.onCreated(function() {
  const templateInstance = this;
  templateInstance.subscribe('somePublication')
})
```

.

: .

.

.

```
import { Mongo } from 'meteor/mongo';
import { Meteor } from 'meteor/meteor';
import { Random } from 'meteor/random';

if (Meteor.isClient) {
  // established this collection on the client only.
  // a name is required (first parameter) and this is not persisted on the server.
  const Messages = new Mongo.Collection('messages');
  Meteor.startup(function () {
    Meteor.subscribe('messages');
    Messages.find().observe({
      added: function (message) {
        console.log('Received a new message at ' + message.timestamp);
```

```
      }
    });
  })
}

if (Meteor.isServer) {
  // this will add a new message every 5 seconds.
  Meteor.publish('messages', function () {
    const interval = Meteor.setInterval(() => {
      this.added('messages', Random.id(), {
        message: '5 seconds have passed',
        timestamp: new Date()
      })
    }, 5000);
    this.added('messages', Random.id(), {
      message: 'First message',
      timestamp: new Date()
    });
    this.onStop(() => Meteor.clearInterval(interval));
  });
}
```

.

. `this.userId` ID. .

```
import Secrets from '/imports/collections/Secrets';

Meteor.publish('protected_data', function () {
  if (!this.userId) {
    this.error(new Meteor.Error(403, "Not Logged In."));
    this.ready();
  } else {
    return Secrets.find();
  }
});
```

.

```
Meteor.subscribe('protected_data', {
  onError(err) {
    if (err.error === 403) {
      alert("Looks like you're not logged in");
    }
  },
});
```

File / imports / collections / Secrets .

```
const Secrets = new Mongo.Collection('secrets');
```

. . ( ).

`onCreated` .

```
Template.myTemplate.onCreated(function() {
  this.parameter = new ReactiveVar();
  this.autorun(() => {
    this.subscribe('myPublication', this.parameter.get());
  });
});
```

() `.parameter` .

.

JS

```
Template.templateName.onCreated(function(){
    this.subscribe('subsription1');
    this.subscribe('subscription2');
});
```

HTML

```
<template name="templateName">
    {{#if Template.subscriptionsReady }}
        //your actual view with data. it can be plain HTML or another template
    {{else}}
        //you can use any loader or a simple header
        <h2> Please wait ... </h2>
    {{/if}}
</template>
```

. .

```
import { Recipes } from '../imports/api/recipes.js';
import { Meteor } from 'meteor/meteor';

Meteor.publish('recipes', function() {
  if(this.userId) {
    return Recipe.find({});
  } else {
    this.ready();  // or: return [];
  }
});
```

.

"" .

```
Meteor.publish('USER_THREAD', function(postId) {
  let userId   = this.userId;

  let comments = Comments.find({ userId, postId });
  let replies  = Replies.find({ userId, postId });

  return [comments, replies];
});
```

. Meteor._sleepForMs(ms);

```
Meteor.publish('USER_DATA', function() {
    Meteor._sleepForMs(3000); // Simulate 3 seconds delay
    return Meteor.users.find({});
});
```

. .

```
// client/subscriptions.js
Meteor.subscribe('usersDirectory');
Meteor.subscribe('userProfile', Meteor.userId());

// server/publications.js
// Publish users directory and user profile

Meteor.publish("usersDirectory", function (userId) {
    return Meteor.users.find({}, {fields: {
        '_id': true,
        'username': true,
        'emails': true,
        'emails[0].address': true,

        // available to everybody
        'profile': true,
        'profile.name': true,
        'profile.avatar': true,
        'profile.role': true
    }});
});
Meteor.publish('userProfile', function (userId) {
    return Meteor.users.find({_id: this.userId}, {fields: {
        '_id': true,
        'username': true,
        'emails': true,
        'emails[0].address': true,

        'profile': true,
        'profile.name': true,
        'profile.avatar': true,
        'profile.role': true,

        // privately accessible items, only availble to the user logged in
        'profile.visibility': true,
        'profile.socialsecurity': true,
        'profile.age': true,
        'profile.dateofbirth': true,
        'profile.zip': true,
        'profile.workphone': true,
        'profile.homephone': true,
        'profile.mobilephone': true,
        'profile.applicantType': true
    }});
});
```

: https://riptutorial.com/ko/meteor/topic/1323/-

19: .

1. Meteor.wrapAsync (func, [context])

func :	`(error, result)` / .
: ( )	.

`(error, result) => {}` .

`Meteor.wrapAsync` `Fiber` .

Fibers https://www.npmjs.com/package/fibers .

Examples

NPM .

NPM `simple-oauth2` `oauth2.client.getToken(callback)` `oauth2.client.getToken(callback)` .

```
const oauth2 = require('simple-oauth2')(credentials);

const credentials = {
    clientID: '#####',
    clientSecret: '#####',
    site: "API Endpoint Here."
};

Meteor.startup(() => {
    let token = Meteor.wrapAsync(oauth2.client.getToken)({});
    if (token) {
        let headers = {
            'Content-Type': "application/json",
            'Authorization': `Bearer ${token.access_token}`
        }

        // Make use of requested OAuth2 Token Here (Meteor HTTP.get).
    }
});
```

. : https://riptutorial.com/ko/meteor/topic/2530/-------

20:

Meteor 1.3 Meteor Meteor.js . Meteor . .

.

/
jQuery 3 .

lib
lib Meteor . , .

imports .

packages . `meteor add package:name` `meteor add package:name` , Meteor `package.js` .
.

.

. .

. , .

.

Richard Silverton .

.

Examples

Meteor . Meteor bundler "".

```
client/                                 # client application code
client/compatibility/                   # legacy 3rd party javascript libraries
imports/                                # for lazy loading feature
lib/                                    # any common code for client/server.
packages/                               # place for all your atmosphere packages
private/                                # static files that only the server knows about
public/                                 # static files that are available to the client
server/                                 # server code
tests/                                  # unit test files (won't be loaded on client or
```

```
server)
```

: Meteor Guide>

. . .

. . .

```
client/                                 # client application code
packages/                               # place for all your atmosphere packages
packages/foo/client                     # client application code
packages/foo/lib                        # any common code for client/server
packages/foo/server                     # server code
packages/foo/tests                      # tests
server/                                 # server code
```

/

Meteor `ecmascript` , ES6 ES2015 . Javascript `import` . `/packages` `/imports` `/packages` .

```
imports                                #
imports/api                            # isomorphic methods
imports/lib                            # any common code for client/server
imports/client                         # client application code
imports/server                         # server code
```

. : franken-app . / .

```
client/                                 # client application code
client/compatibility/                   # legacy 3rd party javascript libraries
imports                                 #
imports/api                             # isomorphic methods
imports/lib                             # any common code for client/server
imports/client                          # client application code
imports/server                          # server code
lib/                                    # any common code for client/server.
packages/                               # place for all your atmosphere packages
packages/foo/client                     # client application code
packages/foo/lib                        # any common code for client/server
packages/foo/server                     # server code
packages/foo/tests                      # tests
private/                                # static files that only the server knows about
public/                                 # static files that are available to the client
server/                                 # server code
tests/                                  # unit test files (won't be loaded on client or
server)
```

HTML .

main . .

lib / .

.

.

: Meteor Guide> Application Structure>

: https://riptutorial.com/ko/meteor/topic/3072/-

21:

Examples

Chrome Safari . Chrome ' '. Safari Preferences> Advanced ' Develop ' .

Firefox Firebug .

`debugger` .

```
Meteor.methods({
  doSomethingUself: function(){
    debugger;
    niftyFunction();
  }
});
```

Node Inspector

Node Inspector . .

HowToNode -
Strongloop -
Meteor Node Inspector Meteor.js

dr - Meteor Meteor . Meteor . , Robomongo, Nightwatch ... . NodeInspector .

```
# install node-inspector
terminal-a$  npm install -g node-inspector

# start meteor
terminal-a$  NODE_OPTIONS='--debug-brk --debug' mrt run

# alternatively, some people report this syntax being better
terminal-a$  sudo NODE_OPTIONS='--debug' ROOT_URL=http://myapp.com meteor --port 80

# launch node-inspector along side your running app
terminal-b$  node-inspector

# go to the URL given by node-inspector
http://localhost:8080/debug?port=5858
```

npm

`debug` npm .

MeteorHacks - npm Meteor

Meteor 1.0.2 Chrome ! :

```
meteor shell
```

DevTools

: https://riptutorial.com/ko/meteor/topic/3378/

22:

Examples

Iron Router

Iron Router

:

```
meteor add iron:router
```

```
Router.configure({
    //Any template in your routes will render to the {{> yield}} you put inside your layout
template
    layoutTemplate: 'layout',
    loadingTemplate: 'loading'
});
```

```
//this is equal to home page
Router.route('/', function (){
    this.render('home')
});

Router.route('/some-route', function () {
    this.render('template-name');
});
```

```
Router.route('/items/:_id', function () {
    this.render('itemPage', {
        data: function() {
            return Items.findOne({_id: this.params._id})
        }
    });
});
```

2

```
Router.route('/one-route/route', function() {
    //template 'oneTemplate' has {{> yield 'secondary'}} in HTML
    this.render('oneTemplate');

    //this yields to the secondary place
    this.render('anotherTemplate', {
        to: 'secondary'
    });

    //note that you can write a route  for '/one-route'
    //then another for '/one-route/route' which will function exactly like above.
});
```

```
Router.route('/waiting-first', {
    waitOn: function() {
        //subscribes to a publication
        //shows loading template until subscription is ready
        return Meteor.subscribe('somePublication')
    },

    action: function() {
        //render like above examples
    }
});
```

```
Router.route('/waiting-first', {
    waitOn: function() {
        //subscribes to a publication
        //shows loading template until subscription is ready
        return [Meteor.subscribe('somePublication1'),Meteor.subscribe('somePublication2')];
    },

    action: function() {
        //render like above examples
    }
});
```

: http://iron-meteor.github.io/iron-router/

FlowRouter

FlowRouter Iron Router .

FlowRouter

```
meteor add kadira:flow-router
```

.

- : `meteor add kadira:blaze-layout`
- React : `meteor add kadira:react-layout`

(Blaze).

```
<template name="mainLayout">
  {{> Template.dynamic template=area}}
</template>
```

```
FlowRouter.route('/blog/:postId', {
  action: function (params) {
    BlazeLayout.render("mainLayout", {
      area: "blog"
    });
```

```
  }
});
```

/

Iron Router .

```
FlowRouter.route("/blog/:catId/:postId", {
  name: "blogPostRoute",
  action: function (params) {
    //...
  }
})
```

. .

```
// url: /blog/travel/france?showcomments=yes
var catId = FlowRouter.getParam("catId"); // returns "travel"
var postId = FlowRouter.getParam("postId"); // returns "france"

var color = FlowRouter.getQueryParam("showcomments"); // returns "yes"
```

: https://riptutorial.com/ko/meteor/topic/5119/

23:

a) publish-release .json b) . .

Atmosphere . .meteor / versions .

, , . . .

Meteor .
https://forums.meteor.com/t/custom-meteor-release/13736/6

Examples

.

```
meteor publish-release clinical.meteor.rc6.json
```

.

```
meteor run --release clinical:METEOR@1.1.3-rc6
```

Atmosphere NPM `package.json` . .

```
{
  "track":"distroname:METEOR",
  "version":"x.y.z",
  "recommended": false,
  "tool": "distroname:meteor-tool@x.y.z",
  "description": "Description of the Distro",
  "packages": {
    "accounts-base":"1.2.0",
    "accounts-password":"1.1.1",
    ...
  }
}
```

, . Ronen .

http://practicalmeteor.com/using-meteor-publish-release-to-extend-the-mete-command-line-tool/1

helloworld . StarryNight . .

.meteor / versions

StarryNight `.meteor/versions` .

```
npm install -g starrynight
cd myapp
starrynight generate-release-json
```

StarryNight `.meteor/versions` `packages` `.meteor/versions` . JSON .

```
meteor show --ejson METEOR@1.2.1
```

Checkout

```
meteor publish-release --from-checkout
```

`/packages` `/packages` git . `/packages` .

```
git submodule foreach git pull origin master
```

: https://riptutorial.com/ko/meteor/topic/4201/--

24:

Examples

- CSS

ViewPorts . : CSS . ( ) MVC MVVM ViewPorts MVC .

```
// desktop
@media only screen and (min-width: 960px) {
}

// landscape orientation
@media only screen and (min-width: 768px) {
}

// portrait orientation
@media only screen and (min-width: 480px) {
}
```

768px ( ) 1024px ( ) . 3 : 4 iPad . .

. PhoneGap . UI !

```
// create a window of a specific size
var w=window.open('','', 'width=100,height=100');
w.resizeTo(500,500);

// prevent window resize
var size = [window.width,window.height];  //public variable
$(window).resize(function(){
    window.resizeTo(size[0],size[1]);
});
```

.

```
meteor add appcache
meteor add grounddb
```

-

. DOM javascript .

```
// prevent scrolling on the whole page
// this is not meteorish; TODO: translate to meteor-centric code
document.ontouchmove = function(e) {e.preventDefault()};

// prevent scrolling on specific elements
// this is not meteorish; TODO: translate to meteor-centric code
scrollableDiv.ontouchmove = function(e) {e.stopPropagation()};
```

css .

```
#appBody {
  overflow: hidden;
}

#contentContainer {
  .content-scrollable {
    overflow-y: auto;
    -webkit-overflow-scrolling: touch;
  }
}
```

.

```
<div id="appBody">
  <div id="contentContainer">
    <div class="content-scrollable">
      <!-- content -->
    </div>
  </div>
</div>
```

. FastClick Hammer. .

```
meteor add fastclick
meteor add hammer:hammer
```

FastClick Hammer . Todos .

```
Template.appBody.onRendered(function() {
  if (Meteor.isCordova) {
    // set up a swipe left / right handler
    this.hammer = new Hammer(this.find('#appBody'));
    this.hammer.on('swipeleft swiperight', function(event) {
      if (event.gesture.direction === 'right') {
        Session.set(MENU_KEY, true);
      } else if (event.gesture.direction === 'left') {
        Session.set(MENU_KEY, false);
      }
    });
  }
});
```

mobile-config.js mobile-config.js .

```
App.icons({
  // iOS
  'iphone': 'resources/icons/icon-60x60.png',
  'iphone_2x': 'resources/icons/icon-60x60@2x.png',
  'ipad': 'resources/icons/icon-72x72.png',
  'ipad_2x': 'resources/icons/icon-72x72@2x.png',

  // Android
  'android_ldpi': 'resources/icons/icon-36x36.png',
```

```
  'android_mdpi': 'resources/icons/icon-48x48.png',
  'android_hdpi': 'resources/icons/icon-72x72.png',
  'android_xhdpi': 'resources/icons/icon-96x96.png'
});

App.launchScreens({
  // iOS
  'iphone': 'resources/splash/splash-320x480.png',
  'iphone_2x': 'resources/splash/splash-320x480@2x.png',
  'iphone5': 'resources/splash/splash-320x568@2x.png',
  'ipad_portrait': 'resources/splash/splash-768x1024.png',
  'ipad_portrait_2x': 'resources/splash/splash-768x1024@2x.png',
  'ipad_landscape': 'resources/splash/splash-1024x768.png',
  'ipad_landscape_2x': 'resources/splash/splash-1024x768@2x.png',

  // Android
  'android_ldpi_portrait': 'resources/splash/splash-200x320.png',
  'android_ldpi_landscape': 'resources/splash/splash-320x200.png',
  'android_mdpi_portrait': 'resources/splash/splash-320x480.png',
  'android_mdpi_landscape': 'resources/splash/splash-480x320.png',
  'android_hdpi_portrait': 'resources/splash/splash-480x800.png',
  'android_hdpi_landscape': 'resources/splash/splash-800x480.png',
  'android_xhdpi_portrait': 'resources/splash/splash-720x1280.png',
  'android_xhdpi_landscape': 'resources/splash/splash-1280x720.png'
});
```

Meteor Cordova Phonegap Integration .

Xcode Yosemite . Meteor iOS .

- .
- XCode ( )
- Xcode 6.1 .
- .

```
# 5.  clone and rebuild the ios-sim locally
#     (this step will not be needed in future releases)
git clone https://github.com/phonegap/ios-sim.git
cd ios-sim
rake build

# 6.  make sure we can update the .meteor/packages locations
#     (this step will not be needed in future releases)
sudo chmod -R 777 ~/.meteor/packages

# 7.  copy the new build into Meteor locations
#     (this step will not be needed in future releases)
for i in `find ~/.meteor/packages/meteor-tool/ -name ios-sim -type f`; do
  cp -R ./build/Release/ios-sim "$i"
done

# 8.  install the ios platform to your app
cd myapp
meteor list-platforms
meteor add-platform ios
meteor list-platforms

# 9.  and that there aren't dead processes
```

```
ps -ax
kill -9 <pid>
# /Users/abigailwatson/.meteor/packages/meteor-
tool/.1.0.35.wql4jh++os.osx.x86_64+web.browser+web.cordova/meteor-tool-
os.osx.x86_64/dev_bundle/mongodb/bin/mongod
# tail -f /Users/abigailwatson/Code/Medstar/dart/webapp/.meteor/local/cordova-
build/platforms/ios/cordova/console.log

# 10.  make sure there are correct permissions on the application (important!)
sudo chmod -R 777 .meteor/local/

# 11.  run app
meteor run ios

# 12.  if that doesn't work, clear the directory
sudo rm -rf .meteor/local

# 13a.  run meteor again to create the default browser build
meteor

# 13b.  run it a second time so bootstrap and other packages get downloaded into the browser
build
ctrl-x
meteor

# 14.  then run the ios version
ctrl-x
meteor run ios
```

Xcode . " .

IOS

- Apple
- ID
- UUID
- iOS App Development
  - KeychainAccess CertificateSigningRequest
  - CertificateSigningRequest https://developer.apple.com/account/ios/profile/profileCreate.action .
  - .
- Xcode> > Apple .

IOS

- iPhone WiFi . , .
- `sudo meteor run ios-device`
- !

Cordova (config.xml)

Meteor `mobile-config.js` Cordova `config.xml` .

```
Project_folder
 ├── /.meteor
 └── mobile-config.js
```

`mobile-config.js` (, , launchscreens Cordova) .

```
App.info({
  id: 'com.example.matt.uber',
  name: 'über',
  description: 'Get über power in one button click',
  author: 'Matt Development Group',
  email: 'contact@example.com',
  website: 'http://example.com'
});

// Set up resources such as icons and launch screens.
App.icons({
  'iphone': 'icons/icon-60.png',
  'iphone_2x': 'icons/icon-60@2x.png',
  // ... more screen sizes and platforms ...
});

App.launchScreens({
  'iphone': 'splash/Default~iphone.png',
  'iphone_2x': 'splash/Default@2x~iphone.png',
  // ... more screen sizes and platforms ...
});

// Set PhoneGap/Cordova preferences
App.setPreference('BackgroundColor', '0xff0000ff');
App.setPreference('HideKeyboardFormAccessoryBar', true);
App.setPreference('Orientation', 'default');
App.setPreference('Orientation', 'all', 'ios');

// Pass preferences for a particular PhoneGap/Cordova plugin
App.configurePlugin('com.phonegap.plugins.facebookconnect', {
  APP_ID: '1234567890',
  API_KEY: 'supersecretapikey'
});
```

`/.meteor/local/cordova-build/config.xml` . `meteor run ios/android` `meteor build` `meteor run ios/android` .

: Meteor > > >

, . Cordova PhoneGap 'deviceready' .

```
 document.addEventListener('deviceready', function(){
  Session.set('deviceready', true);
 }, false);
```

: https://riptutorial.com/ko/meteor/topic/3705/-

25:

Mongo Who, What, When, Where, Why, How . Mongo .

- GeoJSON
When - ObjectID
Who - Meteor
- JSON

Mongo 'What' .

Examples

idGeneration Mongo .

```
MyCollection = new Meteor.Collection('mycollection', {idGeneration : 'MONGO'});
```

Mongo , , , . .

```
Todos.insert({
  text: "foo",                      // String
  listId: Session.get('list_id'),   // String
  value: parseInt(2),               // Number
  done: false,                      // Boolean
  createdAt: new Date(),            // Dimestamp
  timestamp: (new Date()).getTime(),  // Time
  tags: []                          // Array
});
```

_id

.

```
var docId = Todos.insert({text: 'foo'});
console.log(docId);
```

:

```
Todos.insert({text: 'foo'}, function(error, docId){
  console.log(docId);
});
```

MongoDB (well-use document) . MongoDB .

MongoDB

, timeseries :

```
DailyStats.insert({
   "date" : moment().format("MM-DD-YYYY"),
   "dateIncrement" : moment().format("YYYYMMDD"),
   "dailyTotal" : 0,
   'bucketA': 0,
   'bucketB': 0,
   'bucketC': 0
   });
```

. Meteor Method, , REST API .

```
DailyStats.update({_id: doc._id}, {$inc: {bucketA: 1} });
```

Meteor Clinical Meteor .

- - Dailystats

Regexes

regexes, deps autoruns .

```
// create our collection
WordList =  new Meteor.Collection("wordlist");

// and a default session variable to hold the value we're searching for
Session.setDefault('dictionary_search', '');

Meteor.isClient(function(){
    // we create a reactive context that will rerun items when a Session variable gets updated

    Deps.autorun(function(){
        // and create a subscription that will get re-subscribe to when Session variable gets
updated
        Meteor.subscribe('wordlist', Session.get('dictionary_search'));
    });

    Template.dictionaryIndexTemplate.events({
        'keyup #dictionarySearchInput': function(evt,tmpl){
            // we set the Session variable with the value of our input when it changes
            Session.set('dictionary_search', $('#dictionarySearchInput').val());
        },
        'click #dictionarySearchInput':function(){
            // and clear the session variable when we enter the input
            Session.set('dictionary_search', '');
        },
    });
});
Meteor.isServer(function(){
    Meteor.publish('wordlist', function (word_search) {
        // this query gets rerun whenever the client subscribes to this publication
        return WordList.find({
            // and here we do our regex search
            Word: { $regex: word_search, $options: 'i' }
        },{limit: 100});
    });
});
```

HTML :

```
<input id="dictionarySearchInput" type="text" placeholder="Filter..." value="hello"></input>
```

. regexes .

Javascript

-

Mongo GeoJSON , , `window.navigator.geolocation` , Map API, GeoJSON LatLngs , . . .

- mongodb geoJSON .
- geojson.org
- window.navigator.geolocation
- HTML
- Maps API
- google.maps.LatLng
- Google map.data.loadGeoJson
- - - -
- phonegap-googlemaps-plugin
- LatLng
- maps.documentation
- google.maps.LatLng
- 2dsphere
- 2dsphere
- 2dsphere
-

.

```
Meteor.startup(
  function () {
    var wrappedFind = Meteor.Collection.prototype.find;

    // console.log('[startup] wrapping Collection.find')

    Meteor.Collection.prototype.find = function () {
      // console.log(this._name + '.find', JSON.stringify(arguments))
      return wrappedFind.apply(this, arguments);
    }
  },

  function () {
    var wrappedUpdate = Meteor.Collection.prototype.update;

    // console.log('[startup] wrapping Collection.find')

    Meteor.Collection.prototype.update = function () {
      console.log(this._name + '.update', JSON.stringify(arguments))
```

```
      return wrappedUpdate.apply(this, arguments);
    }
  }
);
```

. . . . . .

```
Meteor.startup(function(){
  console.log('starting worker....');

  var dataCursor = Posts.find({viewsCount: {$exists: true}},{limit:20});

  var handle = dataCursor.observeChanges({
    added: function (id, record) {
      if(record.viewsCount > 10){
         // run some statistics
         calculateStatistics();

         // or update a value
         Posts.update({_id: id}, {$set:{
           popular: true
         }});

      }
    },
    removed: function () {
      console.log("Lost one.");
    }
  });
});
```

20 ... ; . 'var' . . opslog Node .

Meteor . .

`percolatestudios:synced-cron` synced `percolatestudios:synced-cron` .

- - cron

: https://riptutorial.com/ko/meteor/topic/5120/-

26: (Vars & Dictionaries)

Examples

:

main.html

```
<template name="test">
     <input type="checkbox" id="checkbox1" name="name" value="data">Check Me
      {{showData}}
</template>
```

Main.js

```
 var check_status='';
 //Reactive Var Initialization
 Template.main.onCreated(function (){
       check_status=new ReactiveVar({});

 });

 Template.main.helpers({
       showData : function(){
           return Collection.find(check_status.get());
       }
 });

 Template.main.events({
      "change #checkbox1" : function(){
              check_status.set({field: 'data'});
       }
 });
```

:

var `check_status {}` . `Collection.find(check_status.get())` .

`check_status {field: data}` `Template.main.events` . `showData` `Collection.find({field: data})` `field 'data'` `field` .

`reactive var` (`meteor add reactive-var`).

(Vars & Dictionaries) : https://riptutorial.com/ko/meteor/topic/6535/--vars--amp--dictionaries-

27:

cron-tick . ( ) **percolate : synced-cron** .

Examples

cron

percolate : synced-cron .

:

```
 SyncedCron.add({
  name: 'Find new matches for a saved user filter and send alerts',
  schedule: function(parser) {
    // parser is a later.parse object
    return parser.text('every 10 minutes');
  },
  job: function() {
    user.alerts.map(a => a.findMatchesAndAlert());
  }
});
```

:

```
SyncedCron.start();
```

Galaxy .

: https://riptutorial.com/ko/meteor/topic/4772/-

28:

Examples

Meteor . .

```
meteor
```

std_out std_err .

```
meteor > my_app_log.log 2> my_app_err.log
```

. API . Chrome Safari API . Winston .

. Chrome Safari Firebug Firebug .

Console API . .

Chrome

()

Meteor Chrome DevTools Extension Meteor . ! . .

Chrome DevTools ()

0.5 - 0.7 .

```
Template.landingPage.postsList = function(){
  try{
    return Posts.find();
  }catch(error){
    //color code the error (red)
    console.error(error);
  }
}
```

Chrome Logging API . `.group()` .

.

```
Template.landingPage.getId = function(){
  // using a group block to illustrate function scoping
  console.group('coolFunction');

  // inspect the current data object that landingPage is using
  console.log(this);

  // inspect a specific field of the locally scoped data object
  console.log(JSON.stringify(this._id);
```

```
  // close the function scope
  console.groupEnd();
  return this._id;
}
```

Chrome API .

```
Template.landingPage.events({
  'click .selectItemButton':function(){
    // color code and count the user interaction (blue)
    console.count('click .selectItemButton');
  }
});
```

. .

```
var DEBUG = false;
var TRACE = false;
Template.landingPage.events({
  'click .selectItemButton':function(){
    TRACE && console.count('click .selectItemButton');

    Meteor.call('niftyAction', function(errorMessage, result){
        if(errorMessage){
            DEBUG && console.error(errorMessage);
        }
    });
  }
});
```

. ( ). .

```
if (!DEBUG_MODE_ON) {
    console = console || {};
    console.log = function(){};

    console.log = function(){};
    console.error = function(){};
    console.count = function(){};
    console.info = function(){};
}
```

Winston . Winston .

https://atmospherejs.com/?q=winston

Winston .

Loglevel

LogLevel . Meteor .

https://atmospherejs.com/practicalmeteor/loglevel

: https://riptutorial.com/ko/meteor/topic/3376/-

29:

Replica Set . Sharded Database horizintally scalled database , Shard Replica Set . Mongo 2 11 3 . 11, 14, 17, 20, 23 . , 3 2 , 3 2 . 11 2 .

Examples

. (.) .

```
# add the names of each server to the host file of each server
sudo nano /etc/hosts
  10.123.10.101 mongo-a
  10.123.10.102 mongo-b
  10.123.10.103 mongo-c

# install mongodb on the server
sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv 7F0CEB10
echo 'deb http://downloads-distro.mongodb.org/repo/ubuntu-upstart dist 10gen' | sudo tee
/etc/apt/sources.list.d/mongodb.list
sudo apt-get update
sudo apt-get install mongodb-10gen


# create the /data/ directories
sudo mkdir /data
sudo mkdir /data/logs
sudo mkdir /data/db

# make sure the mongodb user and group have access to our custom directories
sudo chown -R mongodb:mongodb /data

# edit the mongo upstart file in /etc/init/mongodb.conf
sudo nano /etc/init/mongodb.conf
  start on started mountall
  stop on shutdown
  respawn
  respawn limit 99 5
  setuid mongodb
  setgid mongodb
  script
    exec /usr/bin/mongod --config /etc/mongodb.conf >> /data/logs/mongo-a.log 2>&1
  end script


# edit mongodb configuration file
sudo nano /etc/mongodb.conf
    dbpath=/data/db
    logpath=/data/logs/mongod.log
    logappend=true
    port=27017
    noauth=true
    replSet=meteor
    fork=true

# add a mongo log-rotation file
sudo nano /etc/logrotate.d/mongod
```

```
  /data/logs/*.log {
    daily
    rotate 30
    compress
    dateext
    missingok
    notifempty
    sharedscripts
    copytruncate
    postrotate
        /bin/kill -SIGUSR1 `cat /data/db/mongod.lock 2> /dev/null` 2> /dev/null || true
    endscript
  }

# make sure mongod service is started and running
sudo service mongodb start
sudo reboot
```

mongo .

```
meteor mongo

  > rs.initiate()
  PRIMARY> rs.add("mongo-a")
  PRIMARY> rs.add("mongo-b")
  PRIMARY> rs.add("mongo-c")
  PRIMARY> rs.setReadPref('secondaryPreferred')
```

: https://riptutorial.com/ko/meteor/topic/4332/---

30: (, jQuery)

Blaze http://bootsnipp.com/ . HTML CSS . , , .

Examples

Blaze JQuery Bootstrap .

```
    <nav class="nav navbar-nav">
      <li class="dropdown">
        <a href="#" class="dropdown-toggle" data-toggle="dropdown">{{getSelectedValue}} <span
class="glyphicon glyphicon-user pull-right"></span></a>
        <ul class="fullwidth dropdown-menu">
          <li id="firstOption" class="fullwidth"><a href="#">15 Minutes <span class="glyphicon
glyphicon-cog pull-right"></span></a></li>
          <li class="divider"></li>
          <li id="secondOption"><a href="#">30 Minutes <span class="glyphicon glyphicon-stats
pull-right"></span></a></li>
          <li class="divider"></li>
          <li id="thirdOption"><a href="#">1 Hour <span class="badge pull-right"> 42
</span></a></li>
          <li class="divider"></li>
          <li id="fourthOption"><a href="#">4 Hour <span class="glyphicon glyphicon-heart
pull-right"></span></a></li>
          <li class="divider"></li>
          <li id="fifthOption"><a href="#">8 Hours <span class="glyphicon glyphicon-log-out
pull-right"></span></a></li>
        </ul>
      </li>
    </nav>
```

```
Template.examplePage.helpers({
  getSelectedValue:function(){
    return Session.get('selectedValue');
  }
});
Template.dropDownWidgetName.events({
  'click #firstOption':function(){
    Session.set('selectedValue', 1);
  },
  'click #secondOption':function(){
    Session.set('selectedValue', "blue");
  },
  'click #thirdOption':function(){
    Session.set('selectedValue', $('#thirdOption').innerText);
  },
  'click #fourthOption':function(){
    Session.set('selectedValue', Session.get('otherValue'));
  },
  'click #fifthOption':function(){
    Session.set('selectedValue', Posts.findOne(Session.get('selectedPostId')).title);
  },
});
```

Navbars

/ . .

```
Router.configure({
  layoutTemplate: 'appLayout',
});
Router.route('checklistPage', {
    path: '/lists/:_id',
    onBeforeAction: function() {
      Session.set('selectedListId', this.params._id);
      this.next();
    },
    yieldTemplates: {
      'navbarFooter': {
        to: 'footer'
      }
    }
  });
```

Navbar

```
<template name="navbarFooter">
  <nav id="navbarFooterNav" class="navbar navbar-default navbar-fixed-bottom"
role="navigation">
    <ul class="nav navbar-nav">
      <li><a id="addPostLink"><u>A</u>dd Post</a></li>
      <li><a id="editPostLink"><u>E</u>dit Post</a></li>
      <li><a id="deletePostLink"><u>D</u>elete Post</a></li>
    </ul>
    <ul class="nav navbar-nav navbar-right">
      <li><a id="helpLink"><u>H</u>elp</a></li>
    </ul>
  </nav>
</template>
```

```
<template name="appLayout">
  <div id="appLayout">
    <header id="navbarHeader">
      {{> yield 'header'}}
    </header>

      <div id="mainPanel">
        {{> yield}}
      </div>

    <footer id="navbarFooter" class="{{getTheme}}"">
      {{> yield 'footerActionElements' }}
    </footer>
  </div>
</template>
```

UI . . ( ).

```
<template name="topicsPage">
  <div id="topicsPage" class="container">
```

```
    <div class="panel">
      <div class="panel-heading">
        Nifty Panel
      </div>
      <!-- .... -->
      <div class="panel-footer">
        <!-- step 1.  we click on the button object -->
        <div id="createTopicButton" class="btn {{ getPreferredButtonTheme }}">Create
Topic</div>
      </div>
    </div>

    <!-- step 5 - the handlebars gets activated by the javascript controller -->
    <!-- and toggle the creation of new objects in our model -->
    {{#if creatingNewTopic }}
    <div>
      <label for="topicTextInput"></label>
      <input id="topicTextInput" value="enter some text..."></input>
      <button class="btn btn-warning">Cancel</button>
      <button class="btn btn-success">OK</button>
    </div>
    {{/if}}
  </div>
</template>
```

```
// step 2 - the button object triggers an event in the controller
// which toggles our reactive session variable
Template.topicsPage.events({
  'click #createTopicButton':function(){
    if(Session.get('is_creating_new topic'){
      Session.set('is_creating_new_topic', false);
    }else{
      Session.set('is_creating_new_topic', true);
    }
  }
});

// step 0 - the reactive session variable is set false
Session.setDefault('is_creating_new_topic', false);

// step 4 - the reactive session variable invalidates
// causing the creatNewTopic function to be rerun
Template.topicsPage.creatingNewTopic = function(){
  if(Session.get('is_creating_new_topic')){
    return true;
  }else{
    return false;
  }
}
```

. . , , .

```
// client/subscriptions.js
Meteor.subscribe('posts');

//lib/model.js
Posts  = new Meteor.Collection("posts");
Posts.allow({
    insert: function(){
```

```
        return true;
    },
    update: function () {
        return true;
    },
    remove: function(){
        return true;
    }
});


// server.publications.js
Meteor.publish('posts', function () {
  return Posts.find();
});
```

.

```
{
  _id: "3xHCsDexdPHN6vt7P",
  title: "Sample Title",
  text: "Lorem ipsum, solar et...",
  tags: ["foo", "bar", "zkrk", "squee"]
}
```

. , . `selectedPost` , `tagObjects` `tag` blogPost . `title` `text` .

```
<template name="blogPost">
  {{#with selectedPost }}
    <div class="blogPost panel panel-default">
      <div class="panel-heading">
        {{ title }}
      </div>
        {{ text }}
      <div class="panel-footer">
        <ul class="horizontal-tags">
          {{#each tagObjects }}
          <li class="tag removable_tag">
            <div class="name">{{tag}}<i class="fa fa-times"></i></div>
          </li>
          {{/each}}
          <li class="tag edittag">
            <input type="text" id="edittag-input" value="" /><i class="fa fa-plus"></i>
          </li>
        </ul>
      </div>
    </div>
  {{/with}}
</template>
```

.

```
// you will need to set the selectedPostId session variable
// somewhere else in your application
Template.blogPost.selectedPost = function(){
```

```
  return Posts.findOne({_id: Session.get('selectedPostId')});
}

// next, we use the _.map() function to read the array from our record
// and convert it into an array of objects that Handlebars/Spacebars can parse
Template.blogPost.tagObjects = function () {
    var post_id = this._id;
    return _.map(this.tags || [], function (tag) {
        return {post_id: post_id, tag: tag};
    });
};

// then we wire up click events
Template.blogPost.events({
    'click .fa-plus': function (evt, tmpl) {
        Posts.update(this._id, {$addToSet: {tags: value}});
    },
    'click .fa-times': function (evt) {
        Posts.update({_id: this._id}, {$pull: {tags: this.tag}});
    }
});
```

, , . UI . Sass Stylus Less .

```
// default desktop view
.fa-plus:hover{
  cursor: pointer;
}
.fa-times:hover{
  cursor: pointer;
}
// landscape orientation view for tablets
@media only screen and (min-width: 768px) {
  .blogPost{
     padding: 20px;
  }
}
// portrait orientation view for tablets
@media only screen and (max-width: 768px) {
  .blogPost{
     padding: 0px;
       border: 0px;
  }
}
// phone view
@media only screen and (max-width: 480px) {
  blogPost{
   .panel-footer{
       display: none;
    }
  }
}
```

Meteor . . FlashAlert Handlebar Session .

LESS Bootstrap-3 . .

```
meteor add less
meteor add ian:bootstrap-3
```

: . div . 2 .

```
<template name="postsPage">
  <div id="postsPage" class="page">
    <div id="postsPageAlert" class="{{alertColor}}">{{alertMessage}}</div>
    <div class="postsList">
      <!-- other code you can ignore in this example -->
    </div>
    <div id="triggerAlertButton" class="btn btn-default">
  </div>
</template>
```

Javascript : Template Helper . 2 2 .

```
Session.setDefault('alertLevel', false);
Session.setDefault('alertMessage', "");

Template.postsPage.alertColor = function(){
 if(Session.get('alertLevel') == "Success"){
  return "alert alert-success";
 }else if(Session.get('alertLevel') == "Info"){
  return "alert alert-info";
 }else if(Session.get('alertLevel') == "Warning"){
  return "alert alert-warning";
 }else if(Session.get('alertLevel') == "Danger"){
  return "alert alert-danger";
 }else{
  return "alert alert-hidden"
 }
}

Template.postsPage.alertMessage = function(){
  return Session.get('alertMessage');
}
```

: DOM Visibility CSS postsPage . . .

```
#postsPage{
  .alert{
    display: block;
  }
  .alert-hidden{
    display: none;
  }
}
```

Javascript :

.

```
Template.postsPage.events({
  'click #triggerAlertButton':function(){
    Session.set('alertLevel', 'Success');
    Session.set('alertMessage', 'You successfully read this important alert message.');
```

```
  }
});
```

! , ? `alertLevel` `alertMessage` . ! :)

...

```
<template name="samplePage">
  <div id="samplePage" class="page">
    <ul class="nav nav-tabs">
      <li id="firstPanelTab"><a href="#firstPanel">First</a></li>
      <li id="secondPanelTab"><a href="#secondPanel">Second</a></li>
    </ul>

    <div id="firstPanel" class="{{firstPanelVisibility}}">
      {{> firstPanel }}
    </div>
    <div id="secondPanel" class="{{secondPanelVisibility}}">
      {{> secondPanel }}
    </div>
  </div>
</template>
```

```
// this variable controls which tab is displayed and associated application state
Session.setDefault('selectedPanel', 1);

Template.name.helpers({
  firstPanelVisibility: function (){
    if(Session.get('selectedPanel') === 1){
      return "visible";
    }else{
      return "hidden";
    }
  },
  secondPanelVisibility: function (){
    if(Session.get('selectedPanel') === 2){
      return "visible";
    }else{
      return "hidden";
    }
  },
  thirdPanelVisibility: function (){
    if(Session.get('selectedPanel') === 3){
      return "visible";
    }else{
      return "hidden";
    }
  },
  firstPanelActive: function (){
    if(Session.get('selectedPanel') === 1){
      return "active panel-tab";
    }else{
      return "panel-tab";
    }
  },
  secondPanelActive: function (){
    if(Session.get('selectedPanel') === 2){
```

```
      return "active panel-tab";
    }else{
      return "panel-tab";
    }
  },
  thirdPanelActive: function (){
    if(Session.get('selectedPanel') === 3){
      return "active panel-tab";
    }else{
      return "panel-tab";
    }
  }
});
```

```
.visible {
  display: block;
  visibility: visible;
}
.hidden {
  display: none;
  visibility: hidden;
}
```

.

```
<li id="firstPanelTab" class="{{firstPanelActive}}"><a href="#firstPanel">First</a></li>
<li id="secondPanelTab" class="{{secondPanelActive}}"><a href="#secondPanel">Second</a></li>
```

```
Template.firstPanel.helpers({
  firstPanelActive: function (){
    if(Session.get('selectedPanel') === 1){
      return "active";
    }else{
      return "";
    }
  },
  secondPanelActive: function (){
    if(Session.get('selectedPanel') === 2){
      return "active";
    }else{
      return "";
    }
  },
});
```

(, jQuery) : https://riptutorial.com/ko/meteor/topic/4202/--------jquery--

31:

Blaze HTML . Blaze HTML . Blaze Meteor.js .

Examples

```
<template name="myTemplate">
  {{#each results}}
    <div><span>{{name}}</span><span>{{age}}</span></div>
  {{/each}}
</template>
```

```
Template.myTemplate.onCreated(function() {
  this.results = new ReactiveVar();
  Meteor.call('myMethod', (error, result) => {
    if (error) {
      // do something with the error
    } else {
      // results is an array of {name, age} objects
      this.results.set(result);
    }
  });
});

Template.myTemplate.helpers({
  results() {
    return Template.instance().results.get();
  }
});
```

(: childTemplate parentTemplate,).

```
<template name="parentTemplate">
    {{#with someHelperGettingDataForParentTemplate}}
    <h1>My name is {{firstname}} {{lastname}}</h1>
    //some stuffs here
    {{> childTemplate}}
    {{/with}}
</template>
```

childTemplate . , {{firstname}} {{lastname}} childTemplate .

```
<template name="childTemplate">
<h2>My name is also {{firstname}} {{lastname}}</h2>
</template>
```

childTemplate .

```
<template name="parentTemplate">
    {{#with someHelperGettingDataForParentTemplate}}
    <h1>My name is {{firstname}} {{lastname}}</h1>
    //some stuffs here
```

```
    {{> childTemplate childData=someHeplerReturningDataForChild}}
    {{/with}}
</template>
```

someHelperReturningDataForChild {profession : "Meteor Developer", : "stackoverflowing"} childTemplate . .

```
<template name="childTemplate">
    <h2>My profession is {{profession}}</h2>
    <h3>My hobby is {{hobby}}</h3>
</template>
```

Blaze . . . .

1. .

.

```
<template name="welcomeMessage">
  <h1>Welcome back {{fullName}}</h1>
</template>
```

Template . firstName lastName .

```
Template.welcomeMessage.helpers({
  fullName: function() {
    const instance = Template.instance();
    return instance.data.firstName + ' ' + instance.data.lastName
  },
});
```

2. (.)

.

```
Template.registerHelper('equals', function(item1, item2) {
  if (!item1 || !item2) {
    return false;
  }

  return item1 === item2;
});
```

equals .

```
<template name="registration">
  {{#if equals currentUser.registrationStatus 'Pending'}}
    <p>Don't forget to complete your registration!<p>
  {{/if}}
</template>
```

: https://riptutorial.com/ko/meteor/topic/2434/-

32:

Meteor Javascript Node.js. . , API JSON . , , Meteor Javascript . . .

25

JavaScript
V8
10

Meteor JS

Examples

. Michael Nygard " Release it! " . . Meteor , , , . .

-
-
-
-
-

-
-
-
-

- AJAX
-
-
- Eutropification

2 , . . .

: https://riptutorial.com/ko/meteor/topic/3363/-

33: (Nightwatch)

Nightwatch Meteor Acceptance End-to-End v0.5 PHP Spark to Blaze React . Continuous Integration . .

Nightwatch API
Nightwatch.js Google

Examples

. , . .

1.
2. (: DOM)
3. /

. . . (URL) . :

```
module.exports = {
  "Hello World" : function (client) {
    client
      // the location of our Meteor app
      .url("http://localhost:3000")

      // the size of the viewport
      .resizeWindow(1024, 768)

      // test app output
      .verify.elementPresent('h1')
      .verify.containsText('h1', "Welcome to Meteor!")
      .verify.containsText('p', "You've pressed the button 0 times")
      .verify.elementPresent('button')

      // simulate user input
      .click('button').pause(500)

      // test app output again, to make sure input worked
      .verify.containsText('p', "button 1 times")

      // saving a copy of our viewport pixel grid
      .saveScreenshot('tests/nightwatch/screenshots/homepage.png')
      .end();
  }
};
```

Nightwatch , . Nightwatch :

```
module.exports = {
  "Login App" : function (client) {
    client
      .url("http://localhost:3000")
      .login("janedoe@somewhere.com", "janedoe123")
      .end();
```

```
  }
};
```

./tests/nightwatch/commands/login ./tests/nightwatch/commands/login .

```
exports.command = function(username, password) {

  this
    .verify.elementPresent('#login')

      // we clear the input in case there's any data remaining from previous visits
      .clearValue("#emailInput")
      .clearValue("#passwordInput")

      // we simulate key presses
      .setValue("#emailInput", username)
      .setValue("#passwordInput", password)

    // and we simulate a mouse click
    .click("#signInToAppButton").pause(1000)

  return this; // allows the command to be chained.
};
```

id . .

```
<template name="login">
  <div id="login">
    <input id="emailInput" name="email" type="email" />
    <input id="passwordInput" name="password" type="password" />
    <button id="#signInToAppButton">Sign In</button>
  </div>
</template>
```

Nightwatch .execute() API . Session . ./tests/nightwatch/api/meteor/checkSession . :

```
// syncrhonous version; only works for checking javascript objects on client
exports.command = function(sessionVarName, expectedValue) {
  var client = this;
  this
    .execute(function(data){
      return Session.get(data);
    }, [sessionVarName], function(result){
      client.assert.ok(result.value);
      if(expectedValue){
        client.assert.equal(result.value, expectedValue);
      }
    })
    return this;
};
```

.

```
module.exports = {
```

```
  "Check Client Session" : function (client) {
    client
      .url("http://localhost:3000")
      .checkSession("currentUser", "Jane Doe")
      .end();
  }
};
```

/ data .

```
tests/nightwatch/data/IM-0001-1001.dcm
```

. (.)

```
<form id="myform">
    <input type="file" id="fileUpload">
    <input type="text" name="first_name">
    <input type="text" name="last_name">

    <input type="date" name="dob_month">
    <input type="date" name="dob_day">
    <input type="date" name="dob_year">

    <input type="radio" name="gender" value="M">
    <input type="radio" name="gender" value="F">
    <input type="radio" name="gender" value="O">

    <input type="select" name="hs_graduation_year">
    <input type="text" name="city">
    <input type="select" name="state">

    <input type="submit" name="submit" value="Submit">
</form>
```

setValue () .

```
module.exports = {
  "Upload Study" : function (client) {
    console.log(require('path').resolve(__dirname +  '/../data' ));

    var stringArray = "Chicago";

    client
      .url(client.globals.url)
      .verify.elementPresent("form#myform")

      // input[type="file"]
      .verify.elementPresent("input#fileUpload")
      .setValue('input#fileUpload', require('path').resolve(__dirname + '/../data/IM-0001-
1001.dcm'))

      // input[type="text"]
      .setValue('input[name="first_name"]', 'First')
      .setValue('input[name="last_name"]', 'Last')

      // input[type="date"]
      .click('select[name="dob_month"] option[value="3"]')
```

```
      .click('select[name="dob_day"] option[value="18"]')
      .click('select[name="dob_year"] option[value="1987"]')

      // input[type="radio"]
      .click('input[name="gender"][value="M"]')

      // input[type="number"]
      .click('select[name="hs_graduation_year"] option[value="2002"]')

      // input[type="text"]
      // sometimes Nightwatch will send text faster than the browser can handle
      // which will cause skipping of letters.  In such cases, we need to slow
      // Nightwatch down; which we do by splitting our input into an array
      // and adding short 50ms pauses between each letter
      for(var i=0; i < userIdArray.length; i++) {
        client.setValue('input[name="city"]', stringArray[i]).pause(50)
      }

      // input[type="select"]
      // after an array input above, we need to resume our method chain...
      client.click('select[name="state"] option[value="CA"]')

      // input[type="number"]
      .setValue('input[name="zip"]', '01234')

      //input [ type="submit" ]
      .click('button[type="submit"]')
      .end();
  }
};
```

Daniel Rinehart .

. UI . React .

```
module.exports = {
  url: 'http://localhost:3000/login',
  commands: [{
  login: function(email, password) {
    return this
      .clearValue('input[name="emailAddress"]')
      .clearValue('input[name="password"]')

      .setValue('input[name="emailAddress"]', email)
      .setValue('input[name="password"]', password)

      .verify.elementPresent('#loginButton')
      .click("#loginButton");
  },
  clear: function() {
    return this
      .waitForElementVisible('@emailInput')
      .clearValue('@emailInput')
      .clearValue('@passInput')
      .waitForElementVisible('@loginButton')
      .click('@loginButton')
  },
  checkElementsRendered: function(){
    return this
```

```
      .verify.elementPresent("#loginPage")
      .verify.elementPresent('input[name="emailAddress"]')
      .verify.elementPresent('input[name="password"]')
  },
  pause: function(time, client) {
    client.pause(time);
    return this;
  },
  saveScreenshot: function(path, client){
    client.saveScreenshot(path);
    return this;
  }
}],
  elements: {
    emailInput: {
      selector: 'input[name=email]'
    },
    passInput: {
      selector: 'input[name=password]'
    },
    loginButton: {
      selector: 'button[type=submit]'
    }
  }
};
```

PageObject Nightwatch `verify.elementPresent` `verify.elementPresent` . . .

```
module.exports = {
  tags: ['accounts', 'passwords', 'users', 'entry'],
  'User can sign up.': function (client) {

    const signupPage = client.page.signupPage();
    const indexPage = client.page.indexPage();

    client.page.signupPage()
      .navigate()
      .checkElementsRendered()
      .signup('Alice', 'Doe', 'alice@test.org', 'alicedoe')
      .pause(1500, client);

    indexPage.expect.element('#indexPage').to.be.present;
    indexPage.expect.element('#authenticatedUsername').text.to.contain('Alice Doe');
  },
}
```

(Nightwatch) : https://riptutorial.com/ko/meteor/topic/6454/---nightwatch--

34:

Examples

(MONGO_URL)

MONGO_URL . . .

```
#make sure you're running the node v0.10.21 or later
npm cache clean -f
npm install -g n
sudo n 0.10.21

# bundle the app
mkdir myapp
cd myapp
git clone http://github.com/myaccount/myapp
meteor bundle --directory ../deployPath
cd ../deployPath

# make sure fibers is installed, as per the README
export MONGO_URL='mongodb://127.0.0.1:27017/mydatabase'
export PORT='3000'
export ROOT_URL='http://myapp.com'

# run the site
node main.js
```

mongo .

```
mongo

> rs.initiate()
PRIMARY> rs.add("mongo-a")
PRIMARY> rs.add("mongo-b")
PRIMARY> rs.add("mongo-c")
PRIMARY> rs.setReadPref('secondaryPreferred')
```

Oplogging

oplog .

```
mongo

PRIMARY> use admin
PRIMARY>
db.addUser({user:"oplogger",pwd:"YOUR_PASSWORD",roles:[],otherDBRoles:{local:["read"]}});
PRIMARY> show users
```

Upstart Script Oplog

IP .

```
start on started mountall
stop on shutdown

respawn
respawn limit 99 5

script
    # our example assumes you're using a replica set and/or oplog integreation
    export MONGO_URL='mongodb://mongo-a:27017,mongo-b:27017,mongo-c:27017/meteor'

    # here we configure our OPLOG URL
    export MONGO_OPLOG_URL='mongodb://oplogger:YOUR_PASSWORD@mongo-a:27017,mongo-
b:27017,mongo-c:27017/local?authSource=admin'

    # root_url and port are the other two important environment variables to set
    export ROOT_URL='http://myapp.mydomain.com'
    export PORT='80'

    exec /usr/local/bin/node /var/www/production/main.js >> /var/log/node.log 2>&1
end script
```

Sharded Mongo Oplog Tailing

: https://riptutorial.com/ko/meteor/topic/3706/-

35:

Appcache

http://www.html5rocks.com/en/tutorials/indexeddb/todo/
http://grinninggecko.com/2011/04/22/increasing-chromes-offline-application-cache-storage-limit/
http://www.html5rocks.com/en/tutorials/offline/quota-research/
https://developers.google.com/chrome/apps/docs/developers_guide?csw=1#installing
https://developers.google.com/chrome/apps/docs/developers_guide?csw=1#manifest

Examples

Meteor.status ()

Meteor . , :

```
Template.registerHelper('getOnlineStatus', function(){
  return Meteor.status().status;
});

Template.registerHelper('getOnlineColor', function(){
  if(Meteor.status().status === "connected"){
    return "green";
  }else{
    return "orange";
  }
});
```

```
  <div id="onlineStatus" class="{{getOnlineColor}}">
    {{getOnlineStatus}}
  </div>
```

```
.green{
  color: green;
}
.orange{
  color: orange;
}
```

Appcache

appcache . Appcache . mongo , .

```
meteor add appcache
```

GroundDB

.

```
meteor add ground:db
```

```
Lists = new Meteor.Collection("lists");
GroundDB(Lists);

Todos = new Meteor.Collection("todos")
GroundDB(Todos);
```

- Meteor appcache . . ! .
- appcache Chrome .
- GroundDB IronRouter .

: https://riptutorial.com/ko/meteor/topic/3375/-

36: +

React JavaScript . . Meteor React .

:

-
- Meteor + React

Examples

"Hello World"

React :

```
meteor npm install --save react react-dom react-mounter
```

React `client/helloworld.jsx` .

```
import React, { Component } from 'react';
import { mount } from 'react-mounter';

// This component only renders a paragraph containing "Hello World!"
class HelloWorld extends Component {
  render() {
    return <p>Hello World!</p>;
  }
}

// When the client application starts, display the component by mounting it to the DOM.
Meteor.startup(() => {
  mount(HelloWorld);
});
```

createContainer

`Todos autopublish . .`

```
import { createContainer } from 'meteor/react-meteor-data';
import React, { Component, PropTypes } from 'react';
import Todos from '/imports/collections/Todos';

export class List extends Component {
  render() {
    const { data } = this.props;
    return (
      <ul className="list">
        {data.map(entry => <li {...entry} />)}
      </ul>
    )
  }
```

```
}

List.propTypes = {
  data: PropTypes.array.isRequired
};
```

. .

```
export default createContainer(() => {
  return {
    data: Todos.find().fetch()
  };
}, List);
```

MongoDB

MongoDB React . .

React Meteor , `react-meteor-data` .

```
$ meteor add react-meteor-data
$ meteor npm install react-addons-pure-render-mixin
```

`both/collections.js` . `both` .

```
import { Mongo } from 'meteor/mongo';

// This collection will contain a list of random numbers
export const Numbers = new Mongo.Collection("numbers");
```

. `server/publications.js` .

```
import { Meteor } from 'meteor/meteor';
import { Numbers } from '/both/collections.js';

// This publication synchronizes the entire 'numbers' collection with every subscriber
Meteor.publish("numbers/all", function() {
  return Numbers.find();
});
```

`createComponent` `Numbers` React . `client/shownumbers.jsx` :

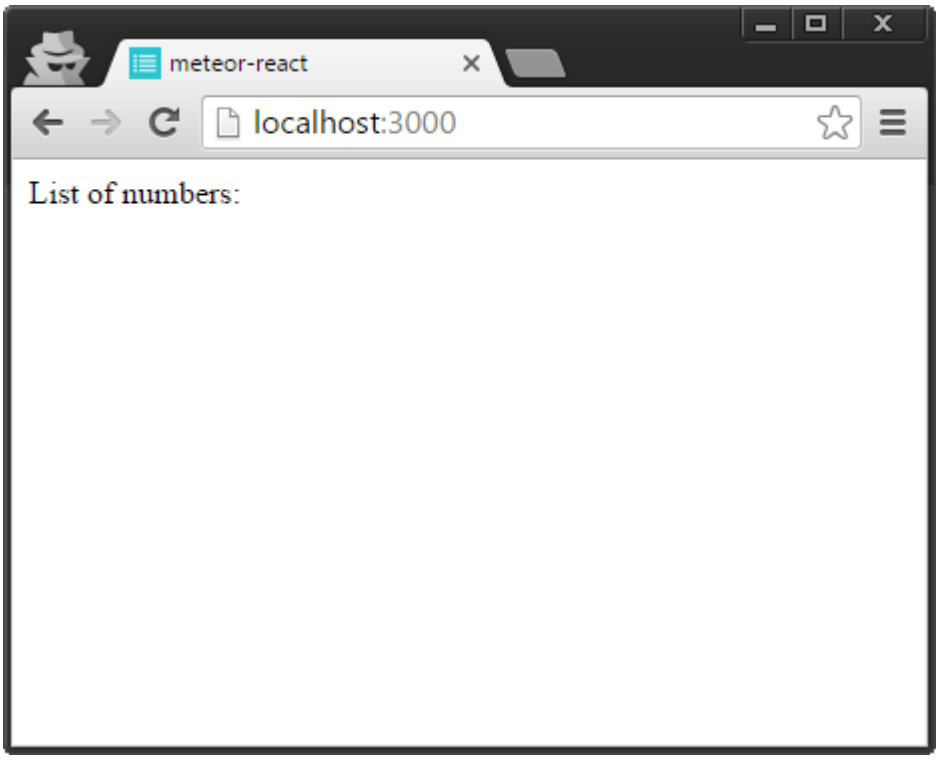
```
import React from 'react';
import { createContainer } from 'meteor/react-meteor-data';
import { Numbers } from '/both/collections.js';

// This stateless React component renders its 'numbers' props as a list
function _ShowNumbers({numbers}) {
  return <div>List of numbers:
    <ul>
      // note, that every react element created in this mapping requires
      // a unique key - we're using the _id auto-generated by mongodb here
      {numbers.map(x => <li key={x._id}>{x.number}</li>)}
```

```
    </ul>
  </div>;
}

// Creates the 'ShowNumbers' React component. Subscribes to 'numbers/all' publication,
// and passes the contents of 'Numbers' as a React property.
export const ShowNumbers = createContainer(() => {
  Meteor.subscribe('numbers/all');
  return {
    numbers: Numbers.find().fetch(),
  };
}, _ShowNumbers);
```

.

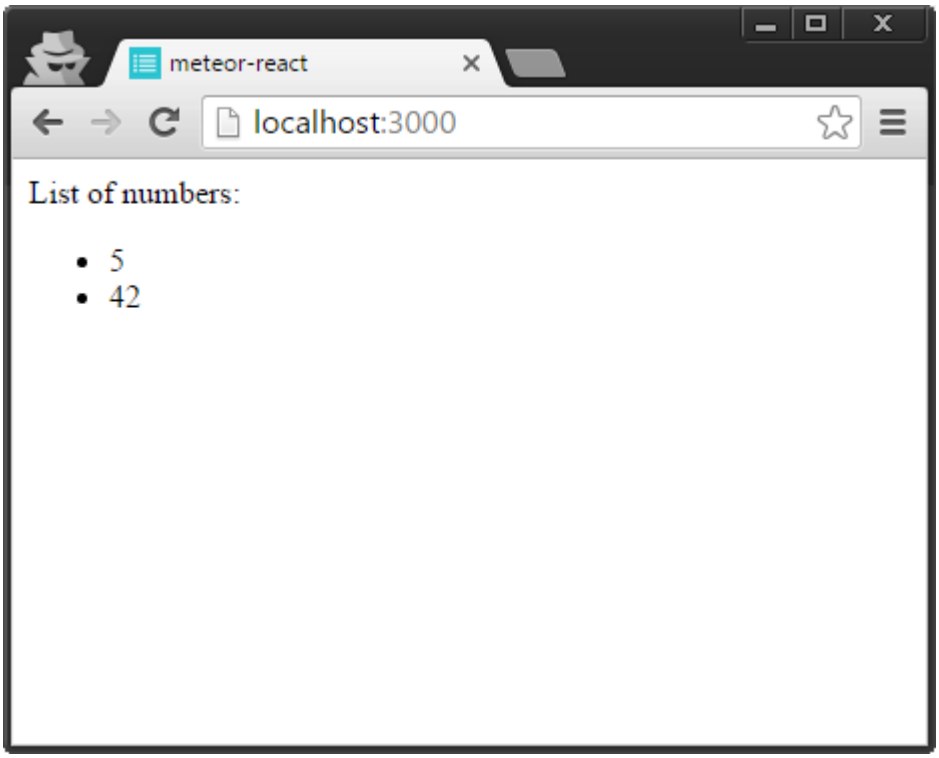


MongoDB .

```
$ meteor mongo
MongoDB shell version: 3.2.6
connecting to: 127.0.0.1:3001/meteor

meteor:PRIMARY> db.numbers.insert({number: 5});
WriteResult({ "nInserted" : 1 })

meteor:PRIMARY> db.numbers.insert({number: 42});
WriteResult({ "nInserted" : 1 })
```



+ : https://riptutorial.com/ko/meteor/topic/3121/-plus-

37:

Examples

Meteor . Meteor `accounts` .

-

`accounts-password` .

`meteor add accounts-password` .

`Accounts.createUser(options, [callback])` .

`options` .

- `username` :
- `email` : .
- `password` : .
- `profile` : . `.profile` .

Meteor.Error 1 .

`username email username` . .

ID .

.

```
// server side
var id = Accounts.createUser({
    username: "JohnDoe",
    email: "JohnDoe@gmail.com",
    password: "TheRealJohn123",
    profile: {
        firstName: "John",
        lastName: "Doe"
    }
}, function(err) {
    console.log(err.reason);
});
```

.

. `Meteor.loginWithPassword(identifier, password, [callback])`

`Meteor.loginWithPassword(identifier, password, [callback])` .

`identifier username username` , `email userId` . `password` ( ) `password` .

Meteor.Error .

:

```
// client side
Meteor.loginWithPassword("JohnDoe", "TheRealJohn123", function(err) {
    console.log(err.reason);
});
```

.

`Meteor.userId()` . `Meteor.userId()` `userId` `undefined` `undefined` .

`Meteor.user()` . undefined . . ID, .

`currentUser` . `Meteor.user()` . :

```
{{#if currentUser}}
    <h1>Hello there, {{currentUser.username}}!</h1>
{{else}}
    <h1>Please log in.</h1>
{{/if}}
```

.

`Meteor.logout()` .

.

`profile` . . , , , . **`profile`** . .

. `profile` `isAdmin` Meteor . . .

. .

```
// Deny all client-side updates to user documents
Meteor.users.deny({
  update() { return true; }
});
```

. Meteor diffing .

: https://riptutorial.com/ko/meteor/topic/6219/--

38:

Examples

: vulcanize

Bower (`npm install -g bower`) `bower init` . `bower.json` .

`.bowerrc` . .

```
{
  "directory": "public/bower_components"
}
```

Bower `bower_components` .

Polymer .

.

```
bower install --save PolymerElements/paper-button#^1.0.0 PolymerElements/paper-checkbox#^1.0.0
```

Vulcanize

```
Meteor add differential:vulcanize
```

config.vulcanize . .

```
{
    "polyfill": "/bower_components/webcomponentsjs/webcomponents.min.js",
    "useShadowDom": true, // optional, defaults to shady dom (polymer default)
    "imports": [
        "/bower_components/paper-button/paper-button.html",
        "/bower_components/paper-checkbox/paper-checkbox.html"
    ]
}
```

`"imports"` .

Blaze .

```
<template name="example">
    <div>
        this is a material design button: <paper-button></paper-button>
        this is a material design checkbox: <paper-checkbox></paper-checkbox>
    </div>
</template>
```

: https://riptutorial.com/ko/meteor/topic/4598/---

39:

Examples

- Codeship.com .
-
- Github Bitbucket
- "Configure Your Tests" .
  - " " " ." .
  - .

```
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/
meteor --version
meteor npm install
```

  - .

```
npm test
```

- Github / Bitbucket .
- .
-
- : mocha-phantomjs :

```
meteor add dispatch:mocha-phantomjs
```

- package.json .

```
{
  "name": "awesome meteor package",
  "scripts": {
    "test": "meteor test --driver-package dispatch:mocha-phantomjs --once"
  }
}
```

- `npm test` .

: https://riptutorial.com/ko/meteor/topic/6741/-----

40:

Examples

`private` .

`Assets.getText(assetPath, [asyncCallback])` . JSON `my_text_asset.json private` .

```
{
    "title": "Meteor Assets",
    "type": "object",
    "users": [{
        "firstName": "John",
        "lastName": "Doe"
    }, {
        "firstName": "Jane",
        "lastName": "Doe"
    }, {
        "firstName": "Matthias",
        "lastName": "Eckhart"
    }]
}
```

.

```
var myTextAsset = Assets.getText('my_text_asset.json');
var myJSON = JSON.parse(myTextAsset);
console.log(myJSON.title); // prints 'Meteor Assets' in the server's console
```

EJSON **`Assets.getBinary(assetPath, [asyncCallback])`** . `private/img my_image.png` .

```
var myBinaryAsset = Assets.getBinary('img/my_image.png');
```

: https://riptutorial.com/ko/meteor/topic/3379/

41: -

Examples

Meteor Electrify

HTML . !

`electron` , `nodejs` , `npm` , `git` `meteor` . Meteor .

```
npm install -g electrify
```

- `electron` ! .
- `electrify` . .

Electrify Meteor

```
curl https://install.meteor.com/ | sh
```

Meteor . .

- `meteor` JavaScript . . prototypical . .

NodeJS

```
apt-get install nodejs build-essentials
```

OS . .

- `nodejs` JavaScript Javascript Node.js . .

npm

`npm` `nodejs` 2 . `nodejs` `npm -v` .

- `npm` . . .

Electrify

( ) Meteor Todos .

:

```
apt-get install git-all
```

Git . .

- `git` . (GitHub) (BitBucket) (,) . [] [5].

```
#!/usr/bin/bash

# Change this parameter to choose where to clone the repository to.
TODOSPATH="/home/user/development/meteor-todos"

# Download the repository to the $TODOSPATH location.
git clone https://github.com/meteor/todos.git "$TODOSPATH"

# Change directory (`cd`) into the Todos project folder.
cd "$TODOSPATH"
```

TODOSPATH 'meteor-todos' . (`cd`) Electrify !

```
# It's really this simple.
electrify
```

. . . `electrify` . `sudo electrify` .

. `sudo` (,).

- : https://riptutorial.com/ko/meteor/topic/2526/----------

42: - Mac OSX

Examples

NPM

Mac OSX Mavericks . NPM .

```
    # install node
    # as of OSX Mavericks, we need the GUI installer (?!)
    # when a good command line alternative is found, we'll post it
    http://nodejs.org/download/

    # install npm
    curl -0 -L https://npmjs.org/install.sh | sh

    # check node is installed correctly
    node --version

    # check npm is installed correctly
    npm -version

    # find your npm path
    which npm

    # make sure npm is in your path
    sudo nano ~/.profile
      export PATH=$PATH:/usr/local/bin
```

Mac OSX Mavericks . NPM .

```
# install meteor
    curl https://install.meteor.com | sh

    # check it's installed correctly
    meteor --version

    # install node
    # as of OSX Mavericks, we need the GUI installer (?!)
    # when a good command line alternative is found, we'll post it
    http://nodejs.org/download/

    # install npm
    curl -0 -L https://npmjs.org/install.sh | sh

    # check node is installed correctly
    node --version

    # check npm is installed correctly
    npm -version

    # find your npm path
    which npm

    # make sure npm is in your path
```

```
    sudo nano ~/.profile
      export PATH=$PATH:/usr/local/bin
```

Meteor Mongo, Robomongo, Atom, Linters .

```
# make sure mongo is in your local path
nano ~/.profile
  export PATH=$PATH:/usr/local/mongodb/bin

# or install it to the global path
nano /etc/paths
  /usr/local/mongodb/bin

# create mongo database directory
mkdir /data/
mkdir /data/db
chown -R username:admin /data

# run mongodb server
mongod
ctrl-c

# check that you can connect to your meteor app with stand-alone mongo
terminal-a$ meteor create helloworld
terminal-a$ cd helloworld
terminal-a$ meteor

terminal-b$ mongo -port 3001

# install robomongo database admin tool
http://robomongo.org/

# check you can connect to your mongo instance with robomongo
terminal-a$ meteor create helloworld
terminal-a$ cd helloworld
terminal-a$ meteor

Dock$ Robomongo > Create > localhost:3001
```

```
# install node-inspector
terminal-a$  npm install -g node-inspector

# start meteor
terminal-a$  cd helloworld
terminal-a$  NODE_OPTIONS='--debug-brk --debug' mrt run

# alternatively, some people report this syntax being better
terminal-a$  sudo NODE_OPTIONS='--debug' ROOT_URL=http://helloworld.com meteor --port 80

# launch node-inspector along side your running app
terminal-b$  node-inspector

# go to the URL given by node-inspector and check it's running
http://localhost:8080/debug?port=5858

# install jshint
npm install -g jshint
```

- Mac OSX : https://riptutorial.com/ko/meteor/topic/3294/----mac-osx

43: 3 API

Examples

HTTP

REST API `http` .

```
meteor add http
```

```
HTTP.get('http://foo.net/api/bar/');
```

API

HTTP . . API .

```
Foo = {
  identify: function(input){
    return Http.get('http://foo.net/api/identify/' + input);
  },
  record_action_on_item: function(firstInput, secondInput){
    return Http.put('http://foo.net/api/record_action_on_item/' + firstInput + '&' +
secondInput);
  }
}
```

Meteor Http.get (), Http.post (), Http.put () REST API . http://docs.meteor.com/#http_get

API . . . API 'request'npm . `Npm.require('request')` .
https://github.com/mikeal/request

API

API . .

```
packages/foo-api-wrapper/package.js
packages/foo-api-wrapper/readme.md
packages/foo-api-wrapper/foo.api.wrapper.js
```

, `foo-api-wrapper/package.js` :

```
Package.describe({
  summary: "Atmosphere package that impliments the Foo API.",
  name: "myaccount:foo",
  version: '0.0.1'
});

Package.on_use(function (api) {
    api.export('Foo');
```

```
    api.addFiles('foo.api.wrapper.js', ["client","server"]);
});
```

`foo-api-wrapper/foo.api.wrapper.js` `Foo` API .

API

.

```
meteor add myaccount:foo
```

:

```
meteor publish myaccount:foo
```

API

.

```
Foo.identify('John');
Foo.record_action_on_item('view', "HackerNews");
```

, , URL API .

3 API : https://riptutorial.com/ko/meteor/topic/3118/-3--api-

44: (Nightwatch)

Nightwatch Meteor Acceptance End-to-End v0.5 PHP Spark to Blaze React . Continuous Integration . .

Nightwatch API
Nightwatch.js Google

Examples

Travis Meteor Continuous Integration . Nightwatch .

.travis.yml

`.travis.yml` `.travis.yml` .

```
# this travis.yml file is for the leaderboard-nightwatch example, when run standalone
language: node_js

node_js:
  - "0.10.38"

services:
  - mongodb

sudo: required

env:
  global:
    - TRAVIS=true
    - CONFIG_PREFIX=`npm config get prefix`
    - DISPLAY=:99.0
    - NODE_ENV=`travis`
  matrix:

cache:
  directories:
    - .meteor/local/build/programs/server/assets/packages
    - .meteor

before_install:
  # set up the node_modules dir, so we know where it is
  - "mkdir -p node_modules &"

  # install nightwatch, selenium, , so we can launch nightwatch and selenium
  - "meteor npm install nightwatch selenium-server-standalone-jar chromedriver"

  # fire up xvfb on port :99.0
  - "sh -e /etc/init.d/xvfb start"

  # set the xvfb screen size to 1280x1024x16
  - "/sbin/start-stop-daemon --start --quiet --pidfile /tmp/custom_xvfb_99.pid --make-pidfile
--background --exec /usr/bin/Xvfb -- :99 -ac -screen 0 1280x1024x16"

  # install meteor
  - "curl https://install.meteor.com | /bin/sh"
```

```
  # give meteor a few seconds after installing
  - "sleep 10"

  # setup Meteor app
  - "cd webapp"
  - "meteor &"

  # give Meteor some time to download packages, init data, and to start
  - "sleep 60"

# then run nightwatch using the chromedriver
script: "nightwatch -c .meteor/nightwatch.json"
```

Circle Meteorites Continuous Integration . . .

-
-
-
-
-
-
- npm
-
-

.circle.yml

```
## Customize the test machine
machine:

  # Timezone
  timezone:
    America/Los_Angeles # Set the timezone

  # Add some environment variables
  environment:
    CIRCLE_ENV: test
    CXX: g++-4.8
    DISPLAY: :99.0
    NPM_PREFIX: /home/ubuntu/nvm/v0.10.33
    INITIALIZE: true
    NODE_ENV: circle


## Customize checkout
checkout:
 post:
   #- git submodule sync
   #- git submodule update --init --recursive # use submodules

general:
  build_dir: webapp
  artifacts:
    - "./tests/nightwatch/screenshots" # relative to the build directory

## Customize dependencies
dependencies:
```

```
  cache_directories:
    - "~/.meteor" # relative to the user's home directory
    - ~/nvm/v0.10.33/lib/node_modules/starrynight
    - ~/nvm/v0.10.33/bin/starrynight

  pre:
    # Install Starrynight unless it is cached
    - if [ ! -e ~/nvm/v0.10.33/bin/starrynight ]; then npm install -g starrynight; else echo
"Starrynight seems to be cached"; fi;
    # Install  Meteor
    - mkdir -p ${HOME}/.meteor
    # If Meteor is already cached, do not need to build it again.
    - if [ ! -e ${HOME}/.meteor/meteor ]; then curl https://install.meteor.com | /bin/sh; else
echo "Meteor seems to be cached"; fi;
    # Link the meteor executable into /usr/bin
    - sudo ln -s $HOME/.meteor/meteor /usr/bin/meteor
    # Check if the helloworld directory already exists, if it doesn't, create the helloworld
app
    # The following doesn't work, because it should be checking ${HOME}/active-
entry/helloworld
    # - if [ ! -e ${HOME}/helloworld ]; then meteor create --release METEOR@1.1.0.3
helloworld; else echo "helloworld app seems to be cached"; fi;

  override:
    #- meteor list

## Customize test commands
test:
  pre:
    #- starrynight fetch
    #- cd packages && rm -rf temp
    #- cd packages && ls -la
    #- starrynight autoconfig
    - meteor update --release METEOR@1.3.3
    - meteor npm install --save jquery bootstrap react react-dom react-router react-bootstrap
react-komposer
    - cat .meteor/nightwatch.json
    - meteor:
          background: true
    - sleep 60
  override:
    - meteor npm run-script nightwatch


## Customize deployment commands
#deployment:
#  production:
#    branch: master
#    commands:
#      - printf "<Meteor username>\n<Meteor password>\n" | meteor deploy myapp.meteor.com

## Custom notifications
#notify:
  #webhooks:
    # A list of hashes representing hooks. Only the url field is supported.
    #- url: https://someurl.com/hooks/circle
```

SauceLabs . , . Travis, Circle BrowserStack (hwoever).

```
{
  "selenium" : {
    "start_process" : false,
    "host" : "ondemand.saucelabs.com",
    "port" : 80,
  },
  "test_settings" : {
    "chrome_saucelabs": {
      "selenium_host": "ondemand.saucelabs.com",
      "selenium_port": 80,
      "username": "${SAUCE_USERNAME}",
      "access_key": "${SAUCE_ACCESS_KEY}",
      "use_ssl": false,
      "silent": true,
      "output": true,
      "screenshots": {
        "enabled": false,
        "on_failure": true,
        "path": ""
      },
      "desiredCapabilities": {
        "name": "test-example",
        "browserName": "chrome"
      },
      "globals": {
        "myGlobal": "some_sauce_global"
      }
    },
  }
}
```

BrowserStack

BrowserStack . Selenium .

```
{
  "selenium" : {
    "start_process" : false,
    "host" : "hub.browserstack.com",
    "port" : 80,
  },

  "test_settings" : {
    "default" : {
      "launch_url" : "http://hub.browserstack.com",
      "selenium_port"  : 80,
      "selenium_host"  : "hub.browserstack.com",
      "silent": true,
      "screenshots" : {
        "enabled" : false,
        "path" : "",
      },
      "desiredCapabilities": {
        "browserName": "firefox",
        "javascriptEnabled": true,
        "acceptSslCerts": true,
        "browserstack.user": "USERNAME",
        "browserstack.key": "KEY"
      }
```

```
    }
  }
}
```

(Nightwatch) : https://riptutorial.com/ko/meteor/topic/6550/------nightwatch--

45:

. . David Weldon `PACKAGE_DIRS` .

Examples

MGP

Dispatches great Meteor Github Packages (mgp) :

```
npm install --save mgp
```

`package.json` .

```
"mgp": "mgp"
```

`git-packages.json` . () Meteor Github :

```
{
  "my:yet-another-private-package": {
    "git": "git@github.com:my/private-packages.git",
    "branch": "dev"
  }
}
```

Github repo .

Github

Codeship .

```
meteor npm run mgp
```

. Cipship Github .

- Github . .
- repo . : https://github.com/YOUR_USERNAME/REPO_UNDER_TEST/settings/keys
- SSH . : https://codeship.com/projects/PROJECT_NUMBER/configure
- SSH SSH : https://github.com/settings/keys
-

BitBucket .

: https://riptutorial.com/ko/meteor/topic/6742/-----

46:

CollectionFS . Mongo GridFS Atmosphere Meteor . StackOverflow GridFS .

Filepicker.io

Micha Roon
EventedMind

Examples

/

. . , . , .

/ . .

```
<template name="example">
  <input type=file />
</template>
```

Meteor ``startFileTransfer '' .

```
// client/example.js
Template.example.events({
  'change input': function(ev) {
    _.each(ev.srcElement.files, function(file) {
      Meteor.startFileTransfer(file, file.name);
    });
  }
});

// client/save.js
/**
 * @blob (https://developer.mozilla.org/en-US/docs/DOM/Blob)
 * @name the file's name
 * @type the file's type: binary, text (https://developer.mozilla.org/en-
US/docs/DOM/FileReader#Methods)
 *
 * TODO Support other encodings: https://developer.mozilla.org/en-
US/docs/DOM/FileReader#Methods
 * ArrayBuffer / DataURL (base64)
 */
Meteor.startFileTransfer = function(blob, name, path, type, callback) {
  var fileReader = new FileReader(),
    method, encoding = 'binary', type = type || 'binary';
  switch (type) {
    case 'text':
      // TODO Is this needed? If we're uploading content from file, yes, but if it's from an
input/textarea I think not...
      method = 'readAsText';
```

```
      encoding = 'utf8';
      break;
    case 'binary':
      method = 'readAsBinaryString';
      encoding = 'binary';
      break;
    default:
      method = 'readAsBinaryString';
      encoding = 'binary';
      break;
  }
  fileReader.onload = function(file) {
    Meteor.call('saveFileToDisk', file.srcElement.result, name, path, encoding, callback);
  }
  fileReader[method](blob);
}
```

saveFileToDisk . .

```
//
/**
 * TODO support other encodings:
 * http://stackoverflow.com/questions/7329128/how-to-write-binary-data-to-a-file-using-node-js
 */
Meteor.methods({
  saveFileToDisk: function(blob, name, path, encoding) {
    var path = cleanPath(path), fs = __meteor_bootstrap__.require('fs'),
      name = cleanName(name || 'file'), encoding = encoding || 'binary',
      chroot = Meteor.chroot || 'public';
    // Clean up the path. Remove any initial and final '/' -we prefix them-,
    // any sort of attempt to go to the parent directory '..' and any empty directories in
    // between '/////' - which may happen after removing '..'
    path = chroot + (path ? '/' + path + '/' : '/');

    // TODO Add file existance checks, etc...
    fs.writeFile(path + name, blob, encoding, function(err) {
      if (err) {
        throw (new Meteor.Error(500, 'Failed to save file.', err));
      } else {
        console.log('The file ' + name + ' (' + encoding + ') was saved to ' + path);
      }
    });

    function cleanPath(str) {
      if (str) {
        return str.replace(/\.\./g,'').replace(/\/+/g,'').
          replace(/^\/+/,'').replace(/\/+$/,'');
      }
    }
    function cleanName(str) {
      return str.replace(/\.\./g,'').replace(/\//g,'');
    }
  }
});
```

, . CSV .

Dropzone (:)

Dropzone UI REST UI REST .

Iron Router Dropzone .

```
 meteor add iron:router
 meteor add awatson1978:dropzone
```

dropzone URL .

```
Router.map(function () {
    this.route('uploads', {
      where: 'server',
      action: function () {
        var fs = Npm.require('fs');
        var path = Npm.require('path');
        var self = this;

        ROOT_APP_PATH = fs.realpathSync('.');

        // dropzone.js stores the uploaded file in the /tmp directory, which we access
        fs.readFile(self.request.files.file.path, function (err, data) {

          // and then write the file to the uploads directory
          fs.writeFile(ROOT_APP_PATH + "/assets/app/uploads/" +self.request.files.file.name,
data, 'binary', function (error, result) {
            if(error){
              console.error(error);
            }
            if(result){
              console.log('Success! ', result);
            }
          });
        });
      }
    });
  });
```

! Snazzy UI REST . .

Filepicker.io

. S3, Azure, Rackspace Dropbox Filepicker.io . Filerpicker .

```
meteor add mrt:filepicker
```

Filepicker 3 . Filepicker . Meteor data- * .

```
<input type="filepicker"
  id="filepickerAttachment"
  data-fp-button-class="btn filepickerAttachment"
  data-fp-button-text="Add image"
  data-fp-mimetypes="image/*"
  data-fp-container="modal"
  data-fp-maxsize="5000000"
  data-fp-services="COMPUTER,IMAGE_SEARCH,URL,DROPBOX,GITHUB,GOOGLE_DRIVE,GMAIL">
```

API , , , .

```
if(Meteor.isClient){
  Meteor.startup(function() {
    filepicker.setKey("YourFilepickerApiKey");
  });
  Template.yourTemplate.rendered = function(){
    filepicker.constructWidget($("#filepickerAttachment"));
  }
  Template.yourTemplate.events({
  'change #filepickerAttachment': function (evt) {
    console.log("Event: ", evt, evt.fpfile, "Generated image url:", evt.fpfile.url);
  });
});
```

CollectionFS

Mongo GridFS . CollectionFS .

.

```
meteor add cfs:standard-packages
meteor add cfs:filesystem
```

.

```
<template name="yourTemplate">
    <input class="your-upload-class" type="file">
</template>
```

, .

```
Template.yourTemplate.events({
    'change .your-upload-class': function(event, template) {
        FS.Utility.eachFile(event, function(file) {
            var yourFile = new FS.File(file);
            yourFile.creatorId = Meteor.userId(); // add custom data
            YourFileCollection.insert(yourFile, function (err, fileObj) {
                if (!err) {
                   // do callback stuff
                }
            });
        });
    }
});
```

.

```
YourFileCollection = new FS.Collection("yourFileCollection", {
    stores: [new FS.Store.FileSystem("yourFileCollection", {path: "~/meteor_uploads"})]
});
YourFileCollection.allow({
    insert: function (userId, doc) {
        return !!userId;
```

```
    },
    update: function (userId, doc) {
        return doc.creatorId == userId
    },
    download: function (userId, doc) {
        return doc.creatorId == userId
    }
});
```

Raz . CollectionFS CollectionFS .

. .

```
//https://forums.meteor.com/t/read-file-from-the-public-folder/4910/5

// Asynchronous Method.
Meteor.startup(function () {
    console.log('starting up');

    var fs = Npm.require('fs');
    // file originally saved as public/data/taxa.csv
    fs.readFile(process.cwd() + '/../web.browser/app/data/taxa.csv', 'utf8', function (err,
data) {
        if (err) {
            console.log('Error: ' + err);
            return;
        }

        data = JSON.parse(data);
        console.log(data);
    });
});


// Synchronous Method.
Meteor.startup(function () {
    var fs = Npm.require('fs');
    // file originally saved as public/data/taxa.csv
    var data = fs.readFileSync(process.cwd() + '/../web.browser/app/data/taxa.csv', 'utf8');

    if (Icd10.find().count() === 0) {
        Icd10.insert({
            date:  new Date(),
            data:  JSON.parse(data)
        });
    }
});


Meteor.methods({
  parseCsvFile:function (){
    console.log('parseCsvFile');

    var fs = Npm.require('fs');
    // file originally saved as public/data/taxa.csv
    var data = fs.readFileSync(process.cwd() + '/../web.browser/app/data/taxa.csv', 'utf8');
    console.log('data', data);
  }
});
```

: https://riptutorial.com/ko/meteor/topic/3119/--

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Examples

"settings.json" .

```
if(Meteor.isServer){
  Meteor.startup(function()){
    // this needs to be run on the server
    var environment, settings;

    environment = process.env.METEOR_ENV || "development";

    settings = {
      development: {
        public: {
          package: {
            name: "jquery-datatables",
            description: "Sort, page, and filter millions of records. Reactively.",
            owner: "LumaPictures",
            repo: "meteor-jquery-datatables"
          }
        },
        private: {}
      },
      staging: {
        public: {},
        private: {}
      },
      production: {
        public: {},
        private: {}
      }
    };

    if (!process.env.METEOR_SETTINGS) {
      console.log("No METEOR_SETTINGS passed in, using locally defined settings.");
      if (environment === "production") {
        Meteor.settings = settings.production;
      } else if (environment === "staging") {
        Meteor.settings = settings.staging;
      } else {
        Meteor.settings = settings.development;
      }
      console.log("Using [ " + environment + " ] Meteor.settings");
    }
  });
}
```

METEOR_SETTINGS ()

METEOR_SETTINGS JSON `Meteor.settings` . `settings.json` .

```
{
  "public":{
```

```
    "ga":{
      "account":"UA-XXXXXXX-1"
    }
  }
}
```

.

```
# run your app in local development mode with a settings file
meteor --settings settings.json

# or bundle and prepare it as if you're running in production
# and specify a settings file
meteor bundle --directory /path/to/output
cd /path/to/output
MONGO_URL="mongodb://127.0.0.1:27017" PORT=3000 METEOR_SETTINGS=$(cat /path/to/settings.json)
node main.js
```

Meteor.settings .

```
Meteor.startup(function(){
  if(Meteor.isClient){
    console.log('Google Analytics Account', Meteor.settings.public.ga.account);
  }
});
```

process.env .

```
if (Meteor.isServer) {
  Meteor.startup(function () {
    // detect environment by getting the root url of the application
    console.log(JSON.stringify(process.env.ROOT_URL));

    // or by getting the port
    console.log(JSON.stringify(process.env.PORT));

    // alternatively, we can inspect the entire process environment
    console.log(JSON.stringify(process.env));
  });
}
```

Meteor

. .

```
//-----------------------------------------------------------------------------------------------
----------
// server/server.js
// we set up a getEnvironment method

Meteor.methods({
  getEnvironment: function(){
    if(process.env.ROOT_URL == "http://localhost:3000"){
        return "development";
    }else{
```

```
        return "staging";
    }
  }
 });

//-------------------------------------------------------------------------------------------
----------
// client/main.js
// and then call it from the client

Meteor.call("getEnvironment", function (result) {
  console.log("Your application is running in the " + result + "environment.");
});
```

NODE_ENV

Meteor 1.3 Meteor `NODE_ENV` .

```
if (Meteor.isClient) {
  Meteor.startup(function () {
    if(process.env.NODE_ENV === "testing"){
      console.log("In testing...");
    }
    if(process.env.NODE_ENV === "production"){
      console.log("In production...");
    }
  });
}
```

: https://riptutorial.com/ko/meteor/topic/4198/-

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	Meteor .
MONGO_URL	Mongo URL.
ROOT_URL	...
OPLOG_URL	...
MONGO_OPLOG_URL	...
METEOR_ENV	...
NODE_ENV	...
NODE_OPTIONS	...
DISABLE_WEBSOCKETS	...
MAIL_URL	...
DDP_DEFAULT_CONNECTION_URL	...
HTTP_PROXY	...
HTTPS_PROXY	...
METEOR_OFFLINE_CATALOG	...
METEOR_PROFILE	...
METEOR_DEBUG_BUILD	...
TINYTEST_FILTER	...
MOBILE_ROOT_URL	...
NODE_DEBUG	...
BIND_IP	...
PACKAGE_DIRS	...
	...
METEOR_PRINT_CONSTRAINT_SOLVER_INPUT	...
METEOR_CATALOG_COMPRESS_RPCS	...

METEOR_MINIFY_LEGACY	...
METEOR_DEBUG_SQL	...
METEOR_WAREHOUSE_DIR	...
AUTOUPDATE_VERSION	...
USE_GLOBAL_ADK	...
METEOR_AVD	...
DEFAULT_AVD_NAME	...
METEOR_BUILD_FARM_URL	...
METEOR_PACKAGE_SERVER_URL	...
METEOR_PACKAGE_STATS_SERVER_URL	...
DEPLOY_HOSTNAME	...
METEOR_SESSION_FILE	...
METEOR_PROGRESS_DEBUG	...
METEOR_PRETTY_OUTPUT	...
APP_ID	...
AUTOUPDATE_VERSION	...
CONSTRAINT_SOLVER_BENCHMARK	...
DDP_DEFAULT_CONNECTION_URL	...
SERVER_WEBSOCKET_COMPRESSION	...
USE_JSESSIONID	...
METEOR_PKG_SPIDERABLE_PHANTOMJS_ARGS	...
WRITE_RUNNER_JS	...
TINYTEST_FILTER	...
METEOR_PARENT_PID	...
METEOR_TOOL_PATH	...
RUN_ONCE_OUTCOME	...

TREE_HASH_DEBUG	...
METEOR_DEBUG_SPRINGBOARD	...
METEOR_TEST_FAIL_RELEASE_DOWNLOAD	...
METEOR_CATALOG_COMPRESS_RPCS	...
METEOR_TEST_LATEST_RELEASE	...
METEOR_WATCH_POLLING_INTERVAL_MS	...
EMACS	...
METEOR_PACKAGE_STATS_TEST_OUTPUT	...
METEOR_TEST_TMP	...

Examples

Meteor

.

```
PORT=4000 meteor
NODE_ENV="staging" meteor
```

Meteor SMTP

Gmail

```
MAIL_URL=smtp://username%40gmail.com:password@smtp.gmail.com:465/
```

: 2000 . https://support.google.com/a/answer/176600?hl=ko .

: https://riptutorial.com/ko/meteor/topic/3154/-

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