# Chapter 1: Taking Your First Steps with React
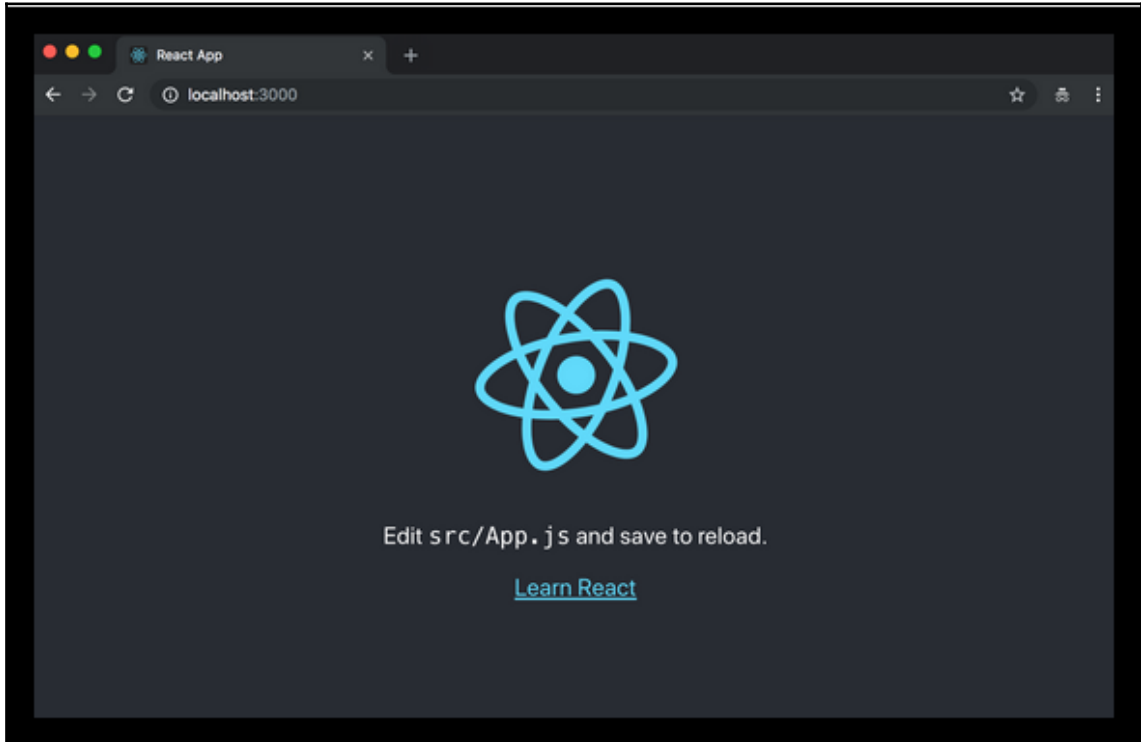
# Chapter 2: Clean Up Your Code



**A Simple Component**

React components implement a `render()` method that takes input data and returns what to display. This example uses an XML-like syntax called JSX. Input data that is passed into the component can be accessed by `render()` via `this.props`.

**JSX is optional and not required to use React.** Try the Babel REPL to see the raw JavaScript code produced by the JSX compilation step.

```
LIVE JSX EDITOR                              ☑ JSX?

class HelloMessage extends React.Component {
  render() {
    return (
      <div>
        Hello {this.props.name}
      </div>
    );
  }
}

ReactDOM.render(
  <HelloMessage name="Taylor" />,
  mountNode
);
```

RESULT

Hello Taylor

# Chapter 3: Creating Truly Reusable Components



Edit src/App.js and save to reload.

Learn React

This is our **<Content />** component



This is our **<Content />** component

© Dev.education 2019
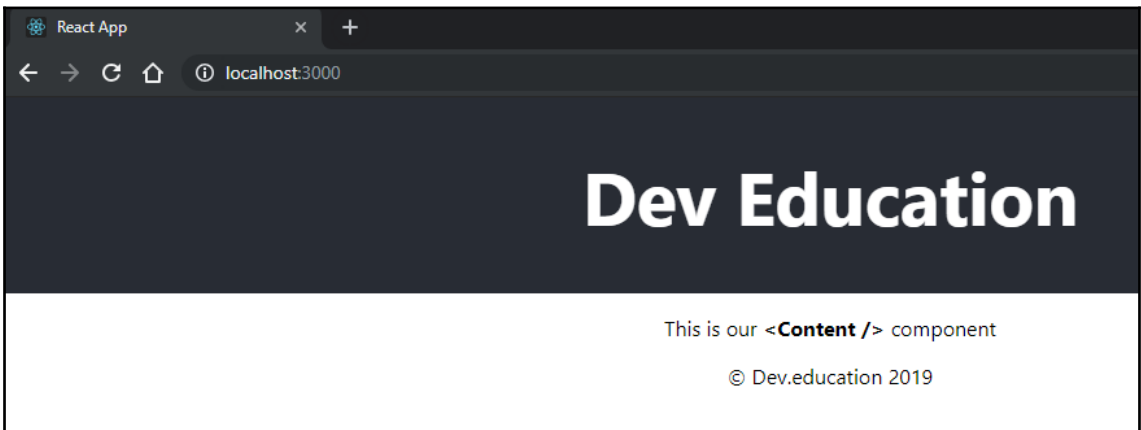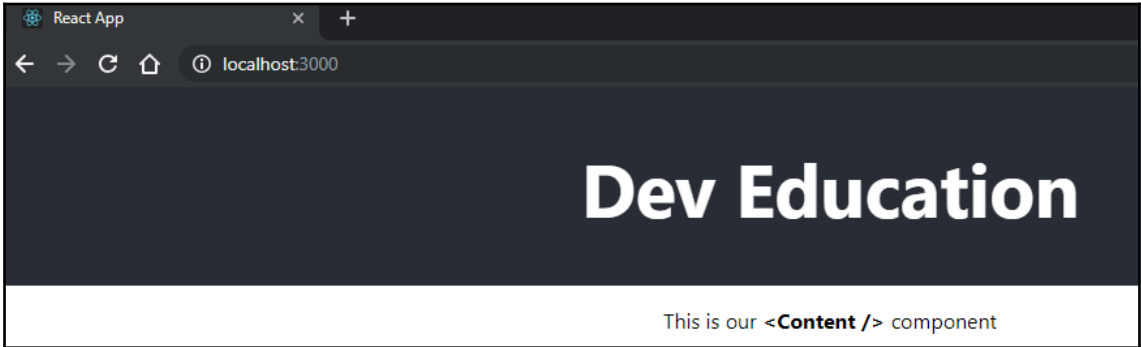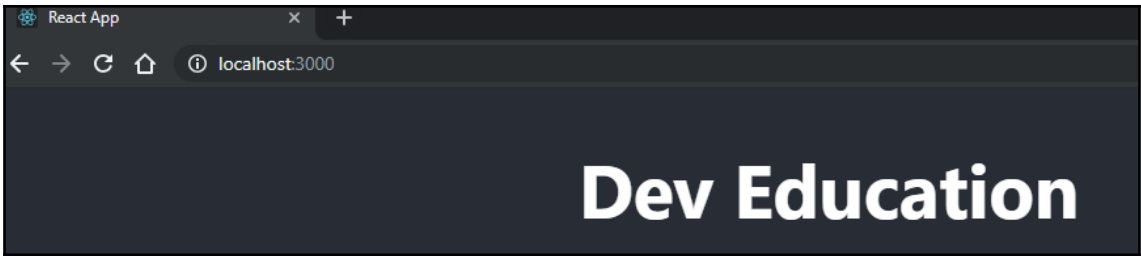
# Chapter 4: Compose All the Things
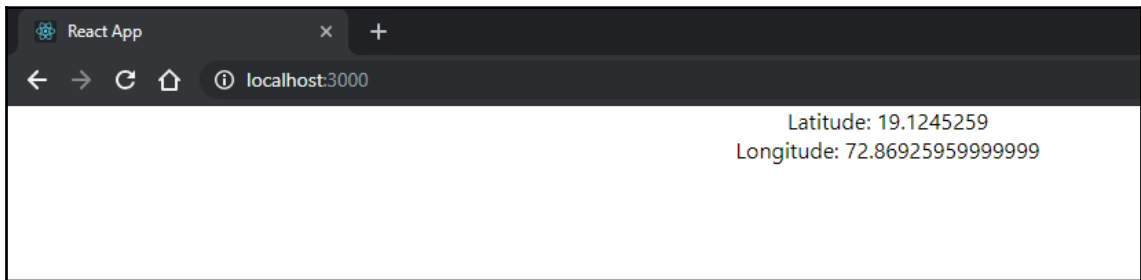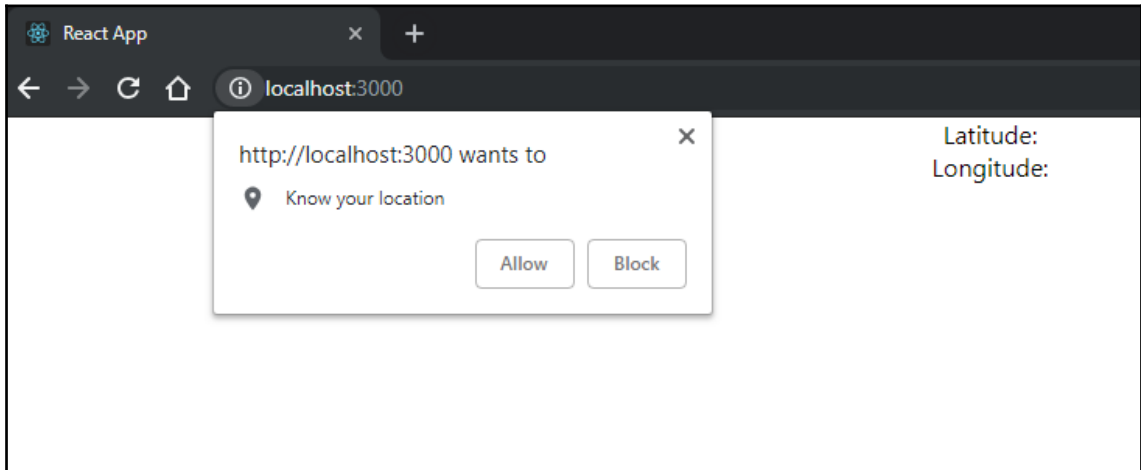
# Chapter 5: Proper Data Fetching

# Chapter 6: Write Code for the Browser
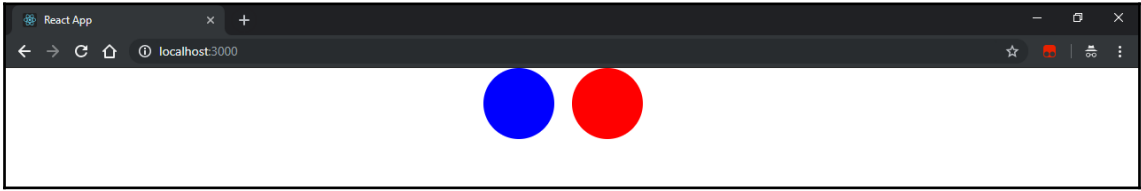
# Chapter 8: Server-Side Rendering for Fun and Profit

# Chapter 10: About Testing and Debugging

```
→  testing git:(master) × npm test

> geolocation@0.1.0 test /Users/czantany/projects/React-Design-Patterns-and-Best-Practices-2nd-Edition/Chapter10/testing
> jest

 PASS  src/components/Hello/index.test.js
  HelloWorld
    ✓ should render Home component (3ms)
    ✓ should render by default Hello World (1ms)
    ✓ should render the name prop
    ✓ should has .Home class (4ms)

Test Suites: 1 passed, 1 total
Tests:       4 passed, 4 total
Snapshots:   0 total
Time:        1.472s, estimated 2s
Ran all test suites.
```
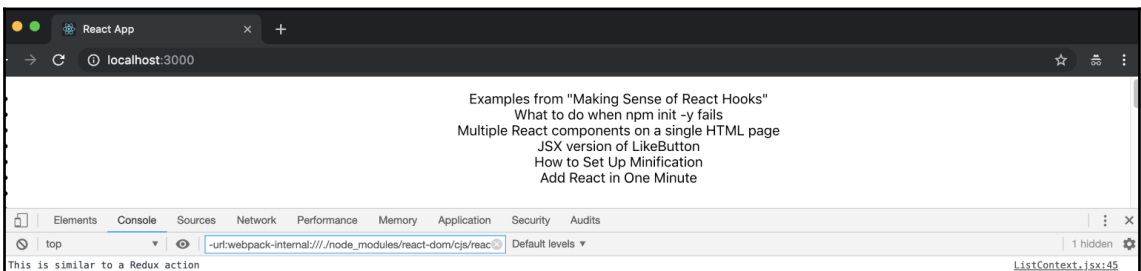
```
→  testing git:(master) × npm test

> geolocation@0.1.0 test /Users/czantany/projects/React-Design-Patterns-and-Best-Practices-2nd-Edition/Chapter10/testing
> jest

 FAIL  src/components/Hello/index.test.js
  Hello
    ✗ should render Home component (4ms)
    ✓ should render by default Hello World (1ms)
    ✓ should render the name prop
    ✓ should has .Home class (2ms)

  ● Hello › should render Home component

    expect(received).toBe(expected) // Object.is equality

    Expected: 0
    Received: 1

      11 |
      12 |      it('should render Home component', () => {
    > 13 |        expect(wrapper.length).toBe(0);
         |                               ^
      14 |      });
      15 |
      16 |      it('should render by default Hello World', () => {

      at Object.toBe (src/components/Hello/index.test.js:13:30)

Test Suites: 1 failed, 1 total
Tests:       1 failed, 3 passed, 4 total
Snapshots:   0 total
Time:        1.466s, estimated 2s
Ran all test suites.
npm ERR! Test failed.  See above for more details.
```

```
→ testing git:(master) × npm run test:coverage

> geolocation@0.1.0 test:coverage /Users/czantany/projects/React-Design-Patterns-and-Best-Practices-2nd-Edition/Chapter10/testing
> jest --coverage

 PASS  src/components/Hello/index.test.js
  Hello
    ✓ should render Home component (2ms)
    ✓ should render by default Hello World
    ✓ should render the name prop (1ms)
    ✓ should has .Home class (3ms)


----------------------|----------|----------|----------|----------|--------------------|
File                  | % Stmts  | % Branch | % Funcs  | % Lines  | Uncovered Line #s  |
----------------------|----------|----------|----------|----------|--------------------|
All files             |   3.85   |   5.88   |     5    |   3.92   |                    |
 src                  |     0    |     0    |     0    |     0    |                    |
  App.js              |     0    |    100   |     0    |     0    |                 3  |
  client.js           |     0    |    100   |    100   |     0    |                 5  |
  server.js           |     0    |    100   |     0    |     0    | ... 12,13,14,17,18 |
  serviceWorker.js    |     0    |     0    |     0    |     0    | ... 23,130,131,132 |
  template.js         |     0    |    100   |     0    |     0    |                 1  |
 src/components/Hello |    100   |    100   |    100   |    100   |                    |
  index.js            |    100   |    100   |    100   |    100   |                    |
----------------------|----------|----------|----------|----------|--------------------|
Test Suites: 1 passed, 1 total
Tests:       4 passed, 4 total
Snapshots:   0 total
Time:        2.551s
Ran all test suites.
```

```
● ● ●        Code coverage report for All fil ×   +

←  →  C      ① File | /Users/czantany/projects/React-Design-Patterns-and-Best-Practices-2nd-Edition/Chapter10/testing/coverage/lcov-report/index.html        ☆    🖶   :

All files
3.85% Statements 2/52    5.88% Branches 2/34    5% Functions 1/20    3.92% Lines 2/51

Press n or j to go to the next uncovered block, b, p or k for the previous block.
```

| File | Statements | | Branches | | Functions | | Lines | |
|------|-----------|---|----------|---|-----------|---|-------|---|
| src |  | 0% | 0/50 | 0% | 0/32 | 0% | 0/19 | 0% | 0/49 |
| src/components/Hello |  | 100% | 2/2 | 100% | 2/2 | 100% | 1/1 | 100% | 2/2 |

```
ERROR in ./src/components/ShowInformation/index.js
Module build failed (from ./node_modules/babel-loader/lib/index.js):
SyntaxError: /Users/czantany/projects/React-Design-Patterns-and-Best-Practices-2nd-Edition/Chapter10/events/src/components/ShowInformation/index.js: Support for the experimental syntax 'classProperties' isn't currently enabled (4:9)


  2 |
  3 | class ShowInformation extends Component {
> 4 |   state = {
    |         ^
  5 |     name: '',
  6 |     age: 0,
  7 |     show: false

Add @babel/plugin-proposal-class-properties (https://git.io/vb4SL) to the 'plugins' section of your Babel config to enable transformation.
```

```
➜  events git:(master) ✗ npm test

> geolocation@0.1.0 test /Users/czantany/projects/React-Design-Patterns-and-Best-Practices-2nd-Edition/Chapter10/events
> jest

 PASS  src/components/ShowInformation/index.test.js
  ShowInformation
    ✓ should render ShowInformation component (3ms)
    ✓ should modify the state onChange (8ms)
    ✓ should show the personal information when user clicks on the button (1ms)


Test Suites: 1 passed, 1 total
Tests:       3 passed, 3 total
Snapshots:   0 total
Time:        1.549s, estimated 2s
Ran all test suites.
```

# Chapter 11: React Router
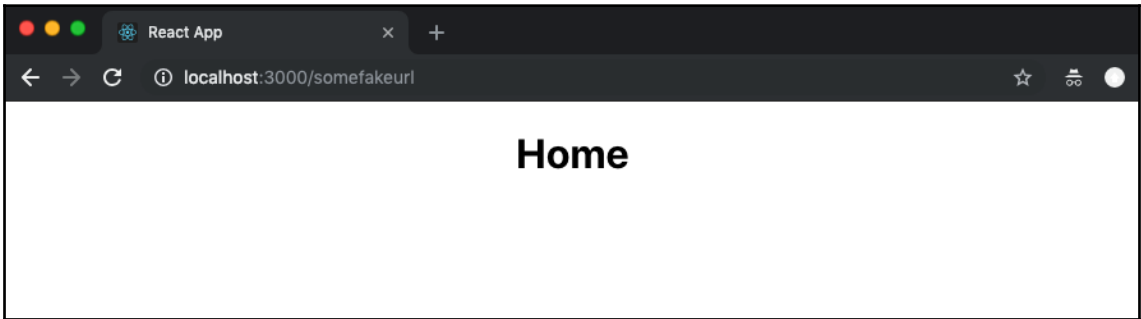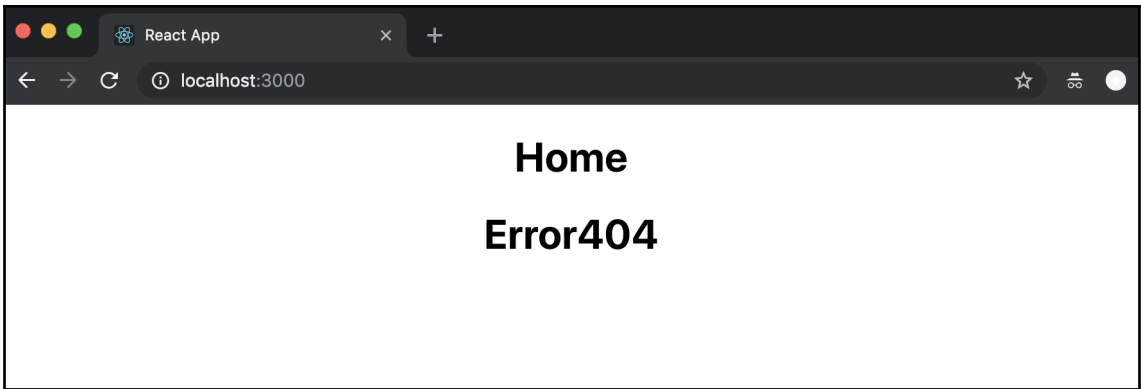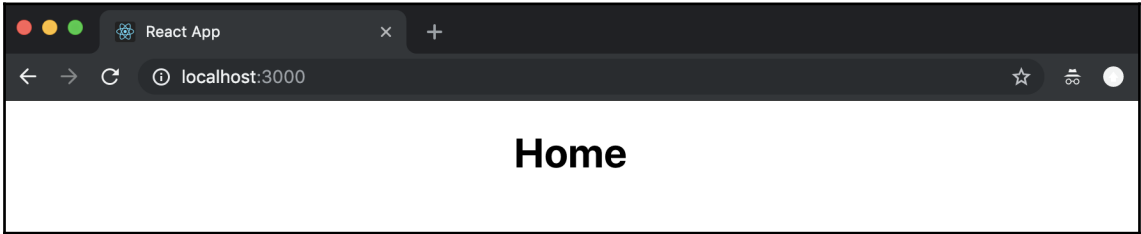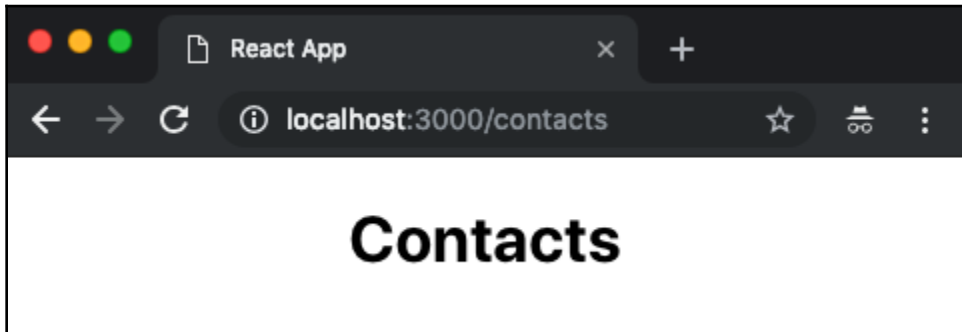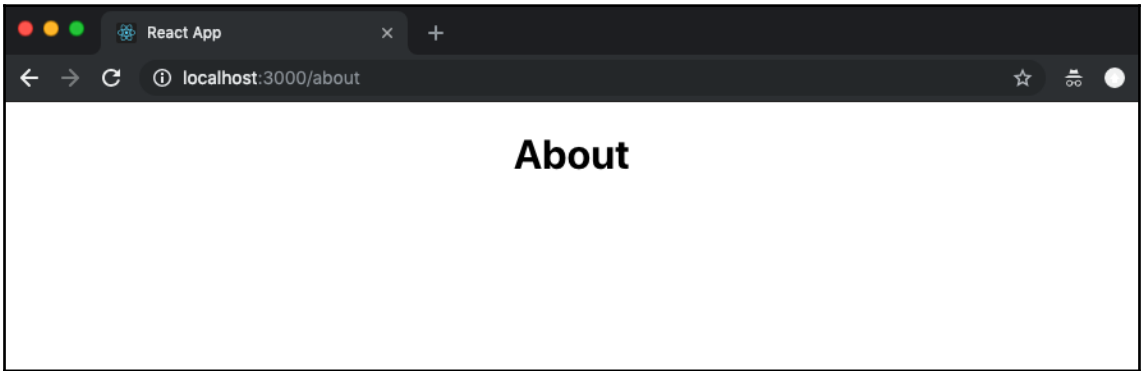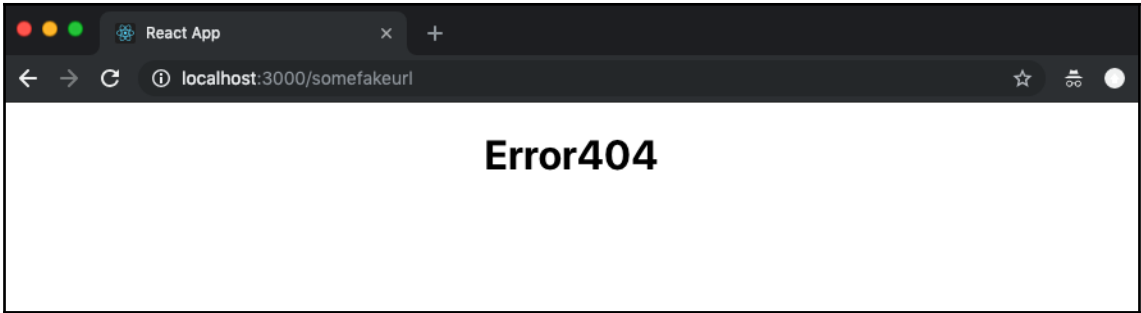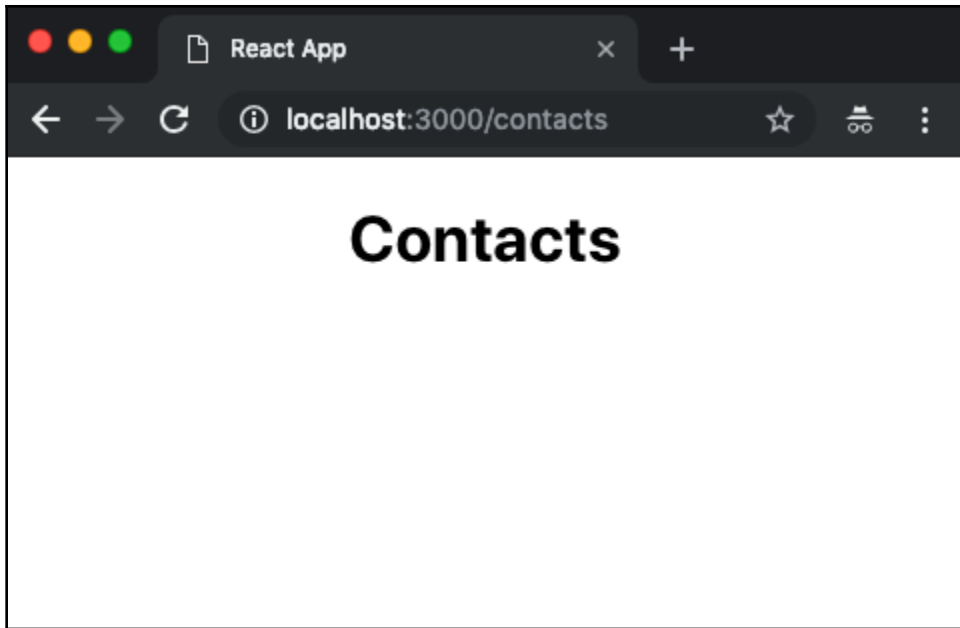
```
▼ {match: {…}, location: {…}, history: {…}, staticContext: undefined} ℹ
  ▶ history: {length: 3, action: "POP", location: {…}, createHref: ƒ, push: ƒ, …}
  ▶ location: {pathname: "/contacts/2", search: "", hash: "", state: undefined, key: "3c5xbh"}
  ▼ match:
      isExact: true
    ▶ params: {contactId: "2"}
      path: "/contacts/:contactId"
      url: "/contacts/2"
    ▶ __proto__: Object
    staticContext: undefined
  ▶ __proto__: Object
```

Home  About  Contacts  Contact

# Contacts

Carlos Santana

John Smith

Alexis Nelson
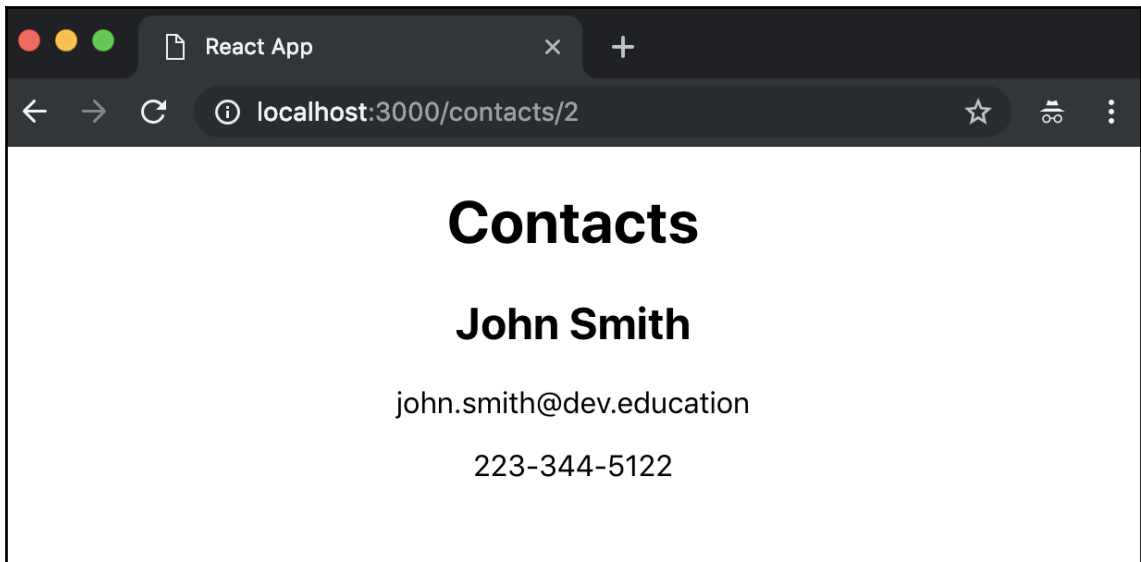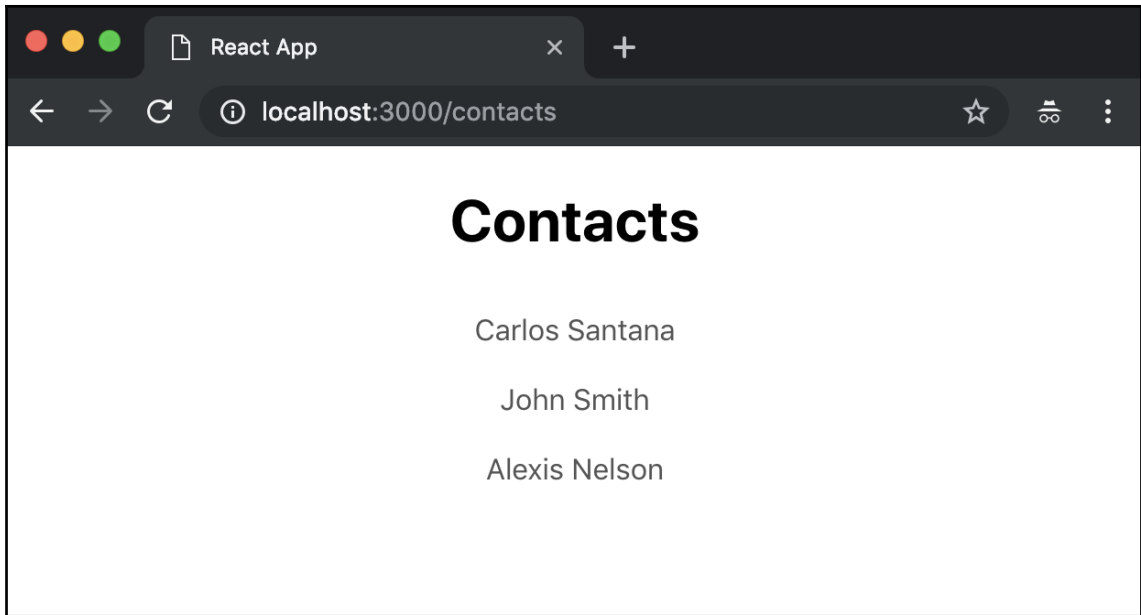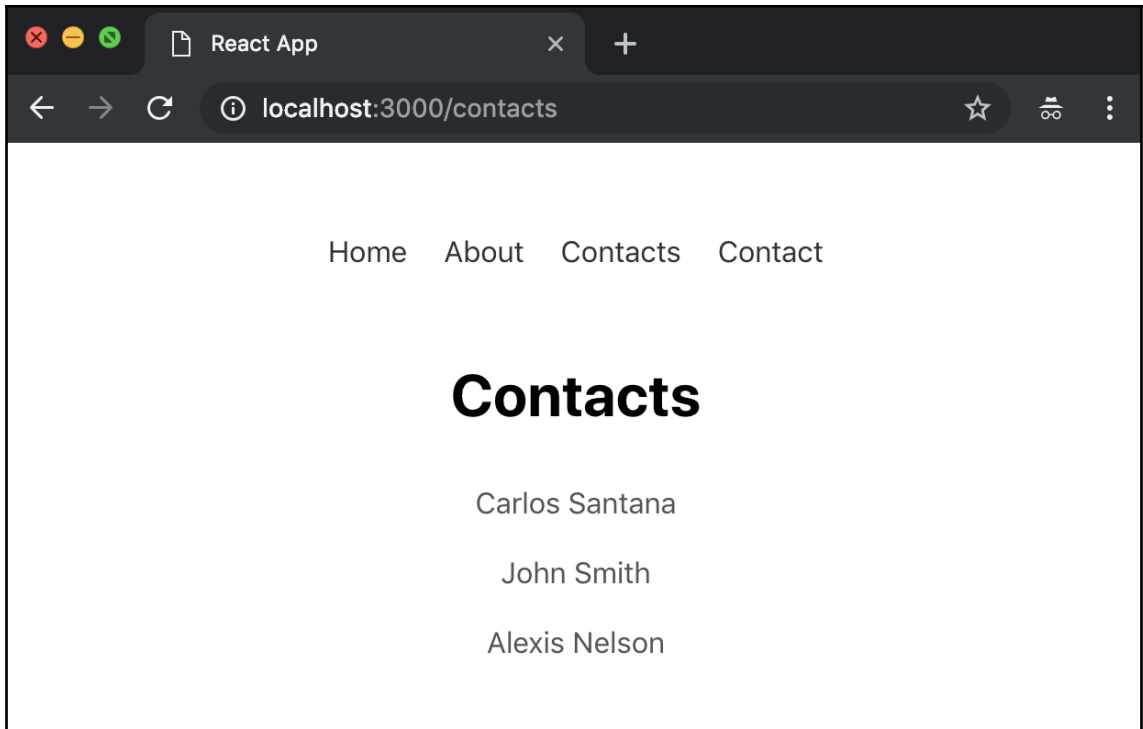
# Chapter 12: Anti-Patterns to be Avoided
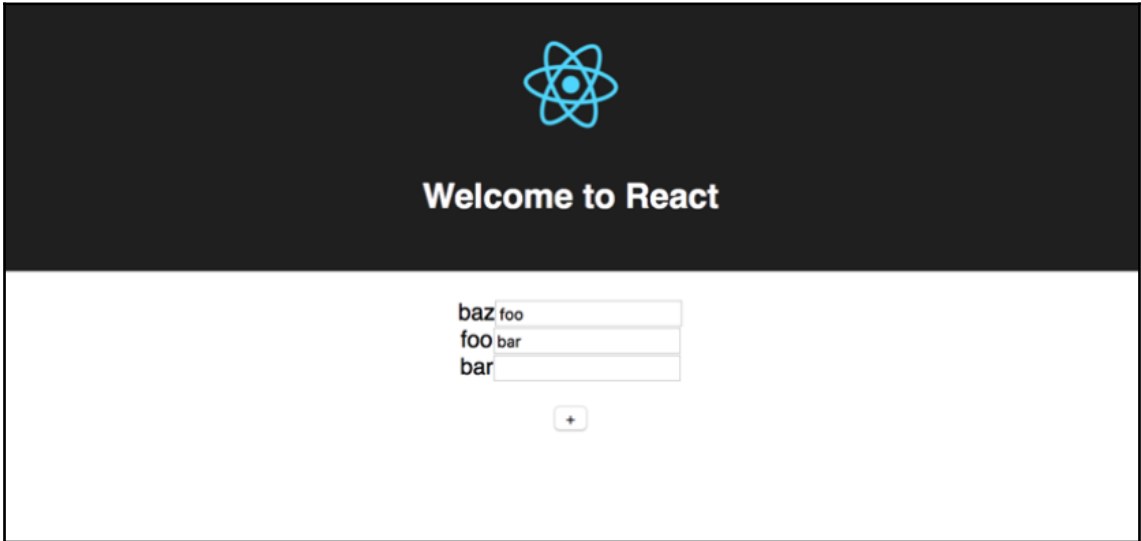
# Chapter 13: Deploying to Production



Navigation steps at top:
1. Confirm email
2. Verification
3. Project Goals

**Billing Info**

Add a payment method to your account. You will not be charged until you start using services. Learn more about billing.

**Credit / Debit Card**    PayPal

ENTER CARD DETAILS

Card number                          MM / YY  CVC

BILLING ADDRESS

First Name | Last Name
Street Address
City | State / Region | Postal Code
Country / Territory | Phone Number

Save Card

* All Fields Required

You may see a temporary authorization hold on your card, which your bank should release soon.

## Welcome, Carlos Santana!

To begin, let's create a new project. Projects help you organize your resources by environment, workload, client - however you or your team like to work.

**Note:** You can change the name, redefine the purpose, and move resources between projects as your needs change.

### Create your first project

Enter project name
Dev ✓

### What is your project for?

This information will help us improve the projects experience, based on what you're building.

Website or blog    • ⌄

### Tell us which tools and technologies you plan to use on DigitalOcean

CONFIGURATION MANAGEMENT

| Ⓐ Ansible | Chef | Docker | Kubernetes |
| Puppet | | | |

DEPLOYMENT

| Dokku | Gitlab | Jenkins | |

DEV TOOLS

| Django | Elasticsearch | Github | Go |
| HAProxy | Hadoop | Java | Kafka |
| MEAN | MongoDB | MySQL | Nginx |
| NodeJS ✓ | PHP | PhpMyAdmin | PostgreSQL |
| Python | RabbitMQ | React | Redis |
| Ruby | Slack | Tomcat | |

MONITORING

| Grafana | Nagios | Statsd | |

OTHER CLOUD PROVIDERS

| AWS | Azure | GCP | Heroku |

PUBLISHING

| Discourse | Ghost | WordPress | |

### Do you plan to use key technologies or services not listed above?

Enter any other technologies you plan to use
React

### How many people are in your organization?

Just me    2-10    11-50    51-500    500+

**Start**

Create a Droplet

New Droplet

Start with a scalable virtual server
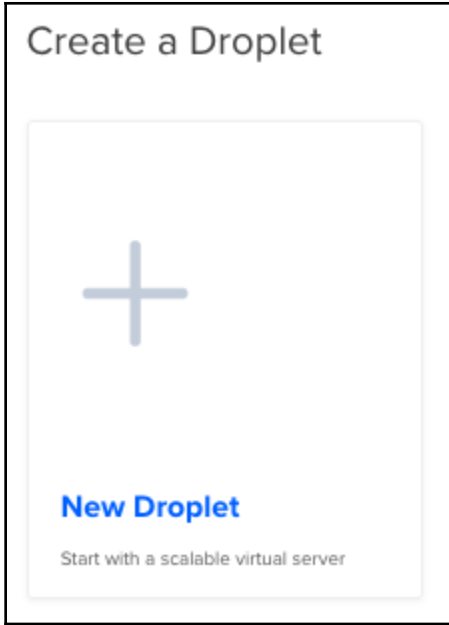
Create Droplets

Choose an image ?

**Distributions**   Container distributions   Marketplace   Custom images

| Ubuntu | FreeBSD | Fedora | Debian | CentOS |
|---|---|---|---|---|
| 18.04.2 x64 ⌄ | Select version ⌄ | Select version ⌄ | Select version ⌄ | Select version ⌄ |

## Choose a plan

| STARTER | PERFORMANCE | |
|---------|-------------|---|
| **Standard** | **General Purpose** `LTD` | **CPU Optimized** |

Standard virtual machines with a mix of memory and compute resources. Best for small projects that can handle variable levels of CPU performance, like blogs, web apps and dev/test environments.

| $**5**/mo $0.007/hour | $**10**/mo $0.015/hour | $**15**/mo $0.022/hour | $**15**/mo $0.022/hour | $**15**/mo $0.022/hour | $**20**/mo $0.030/hour |
|---|---|---|---|---|---|
| 1 GB / 1 CPU 25 GB SSD disk 1000 GB transfer | 2 GB / 1 CPU 50 GB SSD disk 2 TB transfer | 3 GB / 1 CPU 60 GB SSD disk 3 TB transfer | 2 GB / 2 CPUs 60 GB SSD disk 3 TB transfer | 1 GB / 3 CPUs 60 GB SSD disk 3 TB transfer | 4 GB / 2 CPUs 80 GB SSD disk 4 TB transfer |

● ○ ○

**Show all plans**

## Choose a datacenter region

| New York | San Francisco | Amsterdam | Singapore | London | Frankfurt |
|----------|---------------|-----------|-----------|--------|-----------|
| 1  2  3 | 1  **2** | 2  3 | 1 | 1 | 1 |

| Toronto | Bangalore |
|---------|-----------|
| 1 | 1 |

## Finalize and create

### How many Droplets?

Deploy multiple Droplets with the same configuration .

| — | 1 Droplet | + |

### Select project

Select an existing project for this Droplet/s to belong to.

### Choose a hostname

Give your Droplets an identifying name you will remember them by. Your Droplet name can only contain alphanumeric characters, dashes, and periods.

dev-education

Add Tags

Dev ⌄

Create

---

## Dev DEFAULT
Website or blog

→ Move Resources

**Resources**   Activity   Settings

DROPLETS (1)

● 💧 **dev-education**        159.65.102.222        💧  •••

Your new Droplet is all set to go! You can access it using the following credentials:

Droplet Name: dev-education
IP Address: 159.65.102.222
Username: root
Password: fa56d554709792b7a84cc1a4a4

For security reasons, you will be required to change this Droplet's root password when you login. You should choose a strong password that will be easy for you to remember, but hard for a computer to guess. You might try creating an alpha-numerical phrase from a memorable sentence (e.g. "I won my first spelling bee at age 7," might become "Iwm#1sbaa7"). Random strings of common words, such as "Mousetrap Sandwich Hospital Anecdote," tend to work well, too.

As an added security measure, we also strongly recommend adding an SSH key to your account. You can do that here: https://cloud.digitalocean.com/settings/security?i=deb226

Once added, you can select your SSH key and use it when creating future Droplets. This eliminates the need for root passwords altogether, and makes your Droplets much less vulnerable to attack.

Happy Coding,
Team DigitalOcean

```
Last login: Fri Mar  8 10:41:33 on console
➜  ~ ssh root@159.65.102.222
The authenticity of host '159.65.102.222 (159.65.102.222)' can't be established.
ECDSA key fingerprint is SHA256:/DBwYKX88DDJlyYvtOPy1LKz+ODR0Q0gLsMjNbMvllA.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '159.65.102.222' (ECDSA) to the list of known hosts.
root@159.65.102.222's password:
You are required to change your password immediately (root enforced)
Welcome to Ubuntu 18.04.2 LTS (GNU/Linux 4.15.0-45-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

  System information as of Sun Mar 10 08:25:27 UTC 2019

  System load:  0.0                Processes:           83
  Usage of /:   5.0% of 24.06GB    Users logged in:     0
  Memory usage: 12%                IP address for eth0: 159.65.102.222
  Swap usage:   0%

  Get cloud support with Ubuntu Advantage Cloud Guest:
    http://www.ubuntu.com/business/services/cloud


48 packages can be updated.
30 updates are security updates.



The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

Changing password for root.
(current) UNIX password: █
```

```
root@dev-education:~# ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa.
Your public key has been saved in /root/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:S89wOBZXesI0o0P1S/0gDXoMFWkQahqXpENo1DLMa8g root@dev-education
The key's randomart image is:
+---[RSA 2048]----+
|    +.o. o.0+=o   |
|     B..+ * Xo+   |
| . o ++ O *.B +   |
|  E o  * = = o o  |
|    .  . S . .   .|
|        o B       |
|         . o      |
|                  |
|                  |
+----[SHA256]-----+
```

```
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQC7IZfQe4TKFDcvvJfDkyLQqFj09mK7sawMDX
BeB3h8t5j9b5LijsIXrZ2nvwSQteDrfYzokjQhUjO3eopHoQc8l0y36ry+omyvurX3qg5IhfPw
BHbbP/yMoAASV+vyjmgT+dRee8NCGcQqFnw9pswVoVJlZVx2L+OHk9o3z4Gm/ZG6pb+dXkAUgd
5Q+kgSRmtwnzGul+gwKyuUTjryfAVkRLVv2ebQ7rO6f8ESP8xgFJQxSUb+7mxc1y5NDC8L0fJx
lsfdSN8+WKpr1xH4MSgkaYM1pVSznsaYW10NfgVZp4XrrleB8+gi/bmsW6b4tkYJ+Z1puylYx1
fUnYZMm/b9 root@dev-education
```

## SSH keys / Add new

**Title**

Dev Education Droplet

**Key**

ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAABAQC7IZfQe4TKFDcvvJfDkyLQqFj09mK7sawMDXBeB3h8t5j9b5LijsIXrZ2
nvwSQteDrfYzokjQhUjO3eopHoQc8l0y36ry+omyvurX3qg5IhfPwBHbbP/yMoAASV+vyjmgT+dRee8NCGcQqFn
w9pswVoVJIZVx2L+OHk9o3z4Gm/ZG6pb+dXkAUgd5Q+kgSRmtwnzGuI+gwKyuUTjryfAVkRLVv2ebQ7rO6f8ES
P8xgFJQxSUb+7mxc1y5NDC8L0fJxlsfdSN8+WKpr1xH4MSgkaYM1pVSznsaYW10NfgVZp4XrrleB8+gi/bmsW6b
4tkYJ+Z1puylYx1fUnYZMm/b9 root@dev-education

**Add SSH key**

---

**Dev Education Droplet**

a0:90:72:33:7b:18:42:06:22:c6:35:7b:eb:6f:b9:9a

Added on Mar 10, 2019

Never used — Read/write

SSH                                                                    **Delete**

---

```
root@dev-education:~# git clone git@github.com:D3vEducation/production.git
Cloning into 'production'...
The authenticity of host 'github.com (192.30.255.112)' can't be establishe
d.
RSA key fingerprint is SHA256:nThbg6kXUpJWGl7E1IGOCspRomTxdCARLviKw6E5SY8.
Are you sure you want to continue connecting (yes/no)?
```

```
Warning: Permanently added 'github.com,192.30.255.112' (RSA) to the list of known hosts.
remote: Enumerating objects: 18, done.
remote: Counting objects: 100% (18/18), done.
remote: Compressing objects: 100% (18/18), done.
remote: Total 18 (delta 0), reused 18 (delta 0), pack-reused 0
Receiving objects: 100% (18/18), 146.84 KiB | 3.50 MiB/s, done.
```

```
^Croot@dev-education:~/production# npm run start:production

> production@1.0.0 start:production /root/production
> npm run stop && npm run build && NODE_ENV=production pm2 start --interpreter babel-node src/backend


> production@1.0.0 stop /root/production
> pm2 kill


                    -------------

__/\\\\\\\\\\\\\____/\\_____/\\\\____/\\\\\\\\\_____
 _\/\\\/////////\\\_\/\\\\\_____/\\\\\\__/\\\//////////___
  _\/\\_____\/\\\_\/\\\//\\\____/\\//\\\_\///_____\//\\\__
   _\/\\\\\\\\\\\\\/__\/\\\\///\\\/\\\/_\/\\_____/\\\/___
    _\/\\\/////////____\/\\\__\///\\\/___\/\\_____/\\\//_____
     _\/\\_____\/\\\____\///_____\/\\\_____/\\\//_____
      _\/\\_____\/\\_____\/\\\___/\\\/_____
       _\/\\_____\/\\_____\/\\\__/\\\\\\\\\\\\\\\_
        _\///_____\///_____\///__\///////////////__


                         Runtime Edition

        PM2 is a Production Process Manager for Node.js applications
                    with a built-in Load Balancer.

                Start and Daemonize any application:
                $ pm2 start app.js

                Load Balance 4 instances of api.js:
                $ pm2 start api.js -i 4

                Monitor in production:
                $ pm2 monitor

                Make pm2 auto-boot at server restart:
                $ pm2 startup

                To go further checkout:
                http://pm2.io/


                    -------------

[PM2] Spawning PM2 daemon with pm2_home=/root/.pm2
[PM2] PM2 Successfully daemonized
[PM2] [v] Modules Stopped
[PM2][WARN] No process found
[PM2] [v] All Applications Stopped
[PM2] [v] PM2 Daemon Stopped

> production@1.0.0 build /root/production
> NODE_ENV=production node -r @babel/register node_modules/.bin/webpack --progress --display-modules --config webpack.config.js

Hash: 6561e493277e6c3b30ee
Version: webpack 4.29.6
Time: 3646ms
Built at: 03/13/2019 3:17:29 AM
            Asset      Size  Chunks             Chunk Names
   ../css/main.css   77 bytes       0  [emitted]  main
    main.bundle.js   4.6 KiB       0  [emitted]  main
  vendor.bundle.js   117 KiB       1  [emitted]  vendor
Entrypoint main = vendor.bundle.js ../css/main.css main.bundle.js
 [0] /root/production/node_modules/react/index.js 190 bytes {1} [built]
 [1] /root/production/node_modules/object-assign/index.js 2.06 KiB {1} [built]
 [2] /root/production/node_modules/react-dom/index.js 1.33 KiB {1} [built]
 [3] /root/production/node_modules/prop-types/index.js 710 bytes {1} [built]
 [4] ./components/Hello/Hello.scss 104 bytes {0} [built]
 [5] multi ./index.jsx 28 bytes {0} [built]
 [6] /root/production/node_modules/react/cjs/react.production.min.js 6.67 KiB {1} [built]
 [7] /root/production/node_modules/react-dom/cjs/react-dom.production.min.js 106 KiB {1} [built]
 [8] /root/production/node_modules/scheduler/index.js 198 bytes {1} [built]
 [9] /root/production/node_modules/scheduler/cjs/scheduler.production.min.js 4.88 KiB {1} [built]
[10] (webpack)/buildin/global.js 472 bytes {1} [built]
[11] /root/production/node_modules/prop-types/factoryWithThrowingShims.js 1.58 KiB {1} [built]
[12] /root/production/node_modules/prop-types/lib/ReactPropTypesSecret.js 314 bytes {1} [built]
[13] ./index.jsx + 2 modules 6.06 KiB {0} [built]
    | ./index.jsx 349 bytes [built]
    | ./App.jsx 2.71 KiB [built]
    | ./components/Hello/index.jsx 2.99 KiB [built]
    + 1 hidden module
Child mini-css-extract-plugin ../../node_modules/css-loader/dist/cjs.js??ref--5-1!../../node_modules/sass-loader/lib/loader.js!components/Hello/Hello.
scss:
    Entrypoint mini-css-extract-plugin = *
     [0] /root/production/node_modules/css-loader/dist/cjs.js??ref--5-1!/root/production/node_modules/sass-loader/lib/loader.js!./components/Hello/Hell
o.scss 306 bytes {0} [built]
     [1] /root/production/node_modules/css-loader/dist/runtime/api.js 2.35 KiB {0} [built]
[PM2] Spawning PM2 daemon with pm2_home=/root/.pm2
[PM2] PM2 Successfully daemonized
[PM2] Starting /root/production/src/backend in fork_mode (1 instance)
[PM2] Done.
```

| App name | id | version | mode | pid | status | restart | uptime | cpu | mem | user | watching |
|----------|-----|---------|------|-------|--------|---------|--------|------|---------|------|----------|
| backend  | 0   | 1.0.0   | fork | 28161 | online | 0       | 0s     | 0%   | 33.0 MB | root | disabled |

*Use `pm2 show <id|name>` to get more details about an app*

## Turn off Droplet

This shutdown process takes a few minutes to complete because it makes two attempts.

First, we try to shut down your Droplet gracefully. If this fails because your Droplet is unresponsive, we power the Droplet off.

A hard shutdown can cause data corruption, so we recommend turning off your Droplet from the command line when possible.

You will still be billed for Droplets that are turned off because your disk space, CPU, RAM, and IP address will still be reserved.

Don't show me this message again.

Cancel    Turn off

---

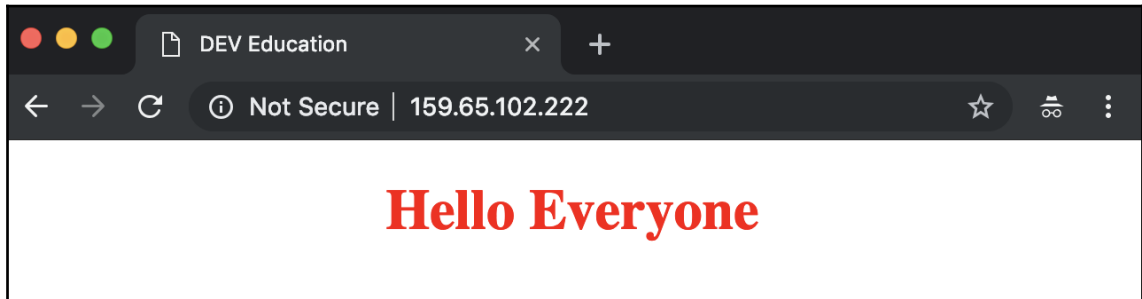Welcome to nginx!

Not Secure | 159.65.102.222

# Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org. Commercial support is available at nginx.com.

*Thank you for using nginx.*

```
root@dev-education:~# sudo nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
```



**Hello Everyone**



# Nameservers

Last updated 4/5/2018 12:27 AM

Using default nameservers    **Change**

**Nameserver**

ns15.domaincontrol.com

ns16.domaincontrol.com
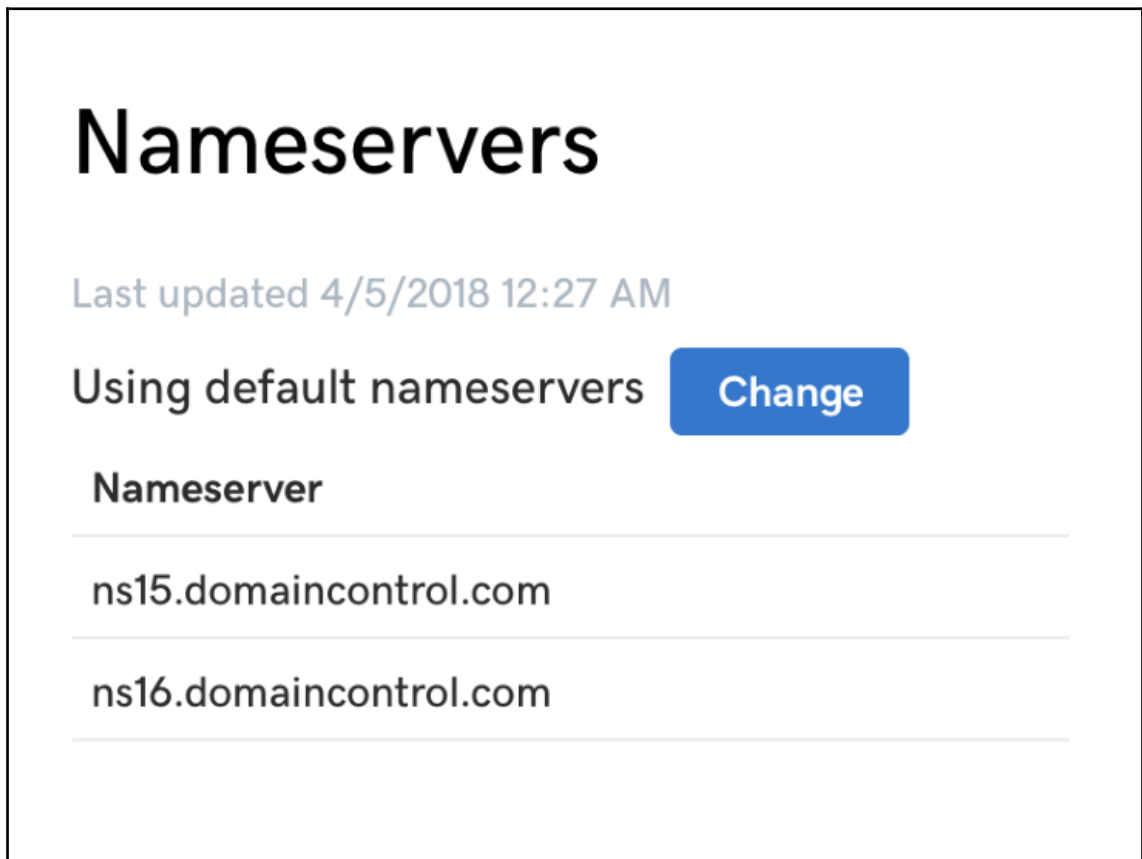
# Nameservers

Last updated 4/5/2018 12:27 AM

**Choose your new nameserver type**

Custom ⬍

Nameserver

ns1.digitalocean.com

ns2.digitalocean.com

ns3.digitalocean.com 🗑

**Save**    Cancel        **Add Nameserver**

# Dev DEFAULT
Website or blog

→ Move Resources

**Resources**  Activity  Settings

DROPLETS (1)

● 💧 **dev-education**
SFO2 / 1GB / 25GB Disk

159.65.102.222

Add tags

💧 •••

Add a domain

Access console

Resize droplet

View usage

Enable backups

Add tags

Move to...

Destroy

## Create something new

Start using Spaces
Deliver data with scalable object storage

Spin up a Load Balancer
Distribute traffic between multiple Droplets

## Learning materials

NodeJS

How To Install Node.js on

How To Set Up a Node.js
Production on Ubuntu 18.

How To Use Winston to L
Applications

## Build on what you have

Build a Node.js application
Set up a Node.js application for production on Ubuntu

Go containerized with Docker
Install and use Docker containers to build containerized applications

Build a PHP web application
Install Linux, Apache, MySQL, PHP (LAMP) on DigitalOcean one click

# Networking

Domains    Floating IPs    Load Balancers    Firewalls    PTR records

**Looks like there are no domains here.**

You can add one easily, though. Enter a domain below and start managing your DNS with DigitalOcean.

Enter domain
bixyn.com → dev-education
SFO2 / Floating IP

**Add Domain**
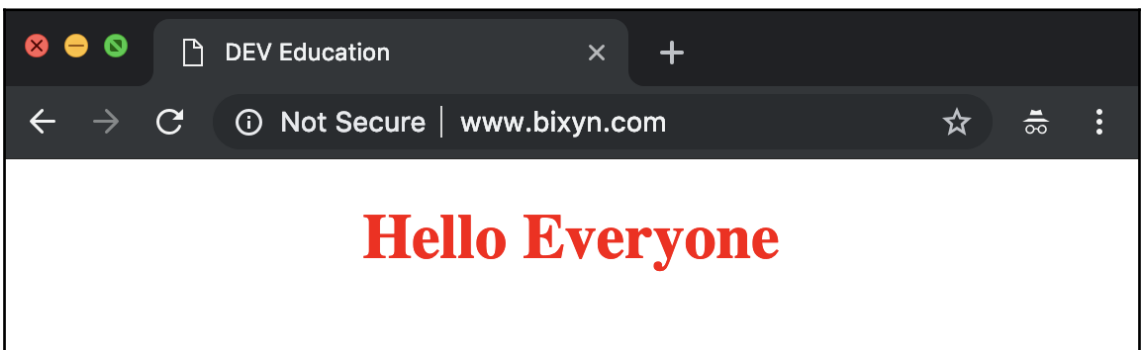
# Create new record

A    AAAA    CNAME    MX    TXT    NS    SRV    CAA

CNAME records act as an alias by mapping a hostname to another hostname.

| HOSTNAME | IS AN ALIAS OF | TTL (SECONDS) | |
| --- | --- | --- | --- |
| Enter hostname<br>WWW | Enter @ or hostname<br>@ | Enter TTL<br>43200 | **Create Record** |

www.bixyn.com

---

DEV Education

Not Secure | www.bixyn.com

# Hello Everyone

# Authorize CircleCI

**CircleCI** by **circleci**
wants to access your **D3vEducation** account

**Personal user data**
Email addresses (read-only)

**Repositories**
Public and private

**Authorize circleci**

Authorizing will redirect to
**https://circleci.com**

⊘ **Not** owned or
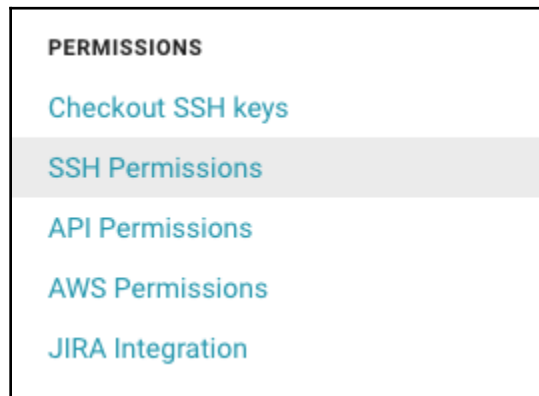operated by GitHub

🕐 Created
**8 years ago**

👥 **More than 1K**
GitHub users

Learn more about OAuth
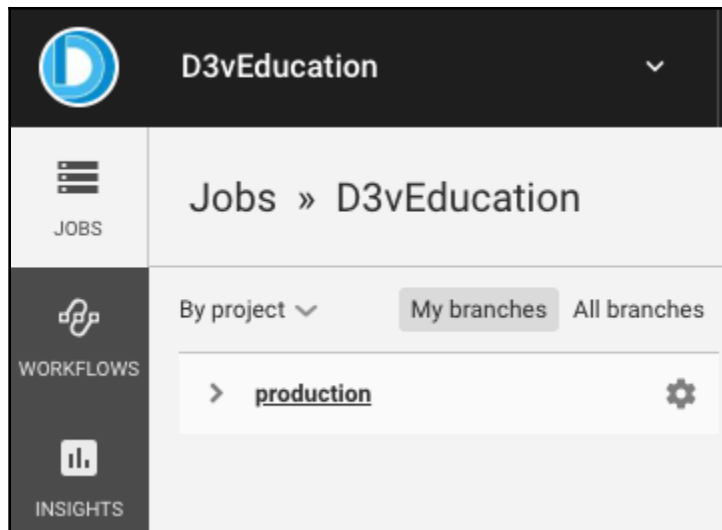
## Add an SSH Key

×

Hostname

Private Key

Cancel            **Add SSH Key**

Add an Environment Variable                                    ✕

To disable string substitution you need to escape the `$` characters by prefixing them with `\`. For example, a value like `usd$` would be entered as `usd\$`.

Name

DROPLET_USER

Value

root|

Cancel        **Add Variable**

---

Add an Environment Variable                                    ✕

To disable string substitution you need to escape the `$` characters by prefixing them with `\`. For example, a value like `usd$` would be entered as `usd\$`.

Name

DROPLET_IP

Value

159.65.102.222

Cancel        **Add Variable**

| FAILED | D3vEducation / production / master #3 | workflow | 2 days ago | 00:00 | 2.0 |
| | Adding circleci config.yml | build | | 48874a4 | |
| FAILED | D3vEducation / production / master #2 | Build Error | 2 days ago | 00:03 | 2.0 |
| | Adding circle.yml | Build Error | | c82038f | |
| FAILED | D3vEducation / production / master #1 | Build Error | 2 days ago | 00:02 | 2.0 |
| | | Build Error | | c393727 | |

| SUCCESS | D3vEducation / production / master #7 | workflow | 2 days ago | 00:13 | 2.0 |
| | Fixing config | build | | cc307cd | |

```
TEST
```

| Spin up Environment | 00:03 |
| Checkout code | 00:00 |
| npm install | 00:18 |
| npm run lint | 00:01 |
| npm test | 00:03 |
| ssh -o StrictHostKeyChecking=no $DROPLET_USER@$DROPLET_IP 'cd production; git checkout master; git pull; npm install; npm run start:production;' | 00:18 |

```
♡  npm run lint                                              00:01

  $ #!/bin/bash -eo pipefail                         Exit code: 0
    npm run lint


  > production@1.0.0 lint /home/circleci/tmp
  > eslint --ext .jsx,.js src


♡  npm test                                                  00:03

  $ #!/bin/bash -eo pipefail                         Exit code: 0
    npm test


  > production@1.0.0 test /home/circleci/tmp
  > jest --no-cache

   PASS  src/frontend/components/Hello/index.test.jsx
    Hello
      ✓ should render Hello component (3ms)
      ✓ should render by default Hello World (1ms)
      ✓ should render the name prop (1ms)
      ✓ should has .Hello class (2ms)

  Test Suites: 1 passed, 1 total
  Tests:       4 passed, 4 total
  Snapshots:   0 total
  Time:        1.755s
  Ran all test suites.
```

| > | Spin up Environment | 00:02 |
|---|---|---|
| > | Checkout code | 00:00 |
| > | npm install | 00:13 |
| ♡ | npm run lint | 00:00 |

```
$ #!/bin/bash -eo pipefail                                           Exit code: 1
  npm run lint


> production@1.0.0 lint /home/circleci/tmp
> eslint --ext .jsx,.js src


/home/circleci/tmp/src/frontend/components/Hello/index.jsx
  13:58  error  Missing semicolon  semi

✖ 1 problem (1 error, 0 warnings)
  1 error and 0 warnings potentially fixable with the `--fix` option.

    ERR! code ELIFECYCLE
    ERR! errno 1
    ERR! production@1.0.0 lint: `eslint --ext .jsx,.js src`
    ERR! Exit status 1
    ERR!
    ERR! Failed at the production@1.0.0 lint script.
    ERR! This is probably not a problem with npm. There is likely additional logging output above.

    ERR! A complete log of this run can be found in:
    ERR!     /home/circleci/.npm/_logs/2019-03-13T08_08_25_812Z-debug.log
Exited with code 1
```

Commits on Mar 13, 2019

**Forcing linter error**
D3vEducation committed 2 days ago ✗ · f3522fe · <>

**Adding tests**
D3vEducation committed 2 days ago ✓ · a209293 · <>

**Updating Hello component**
D3vEducation committed 2 days ago ✓ · 54ead5e · <>

**Fixing scripts**
D3vEducation committed 2 days ago ✓ · 0140655 · <>

**Fixing script**
D3vEducation committed 2 days ago ✓ · ac0c48e · <>

**Remove dev**
D3vEducation committed 2 days ago ✓ · 8422beb · <>

**Adding lint**
D3vEducation committed 2 days ago ✗ · 170686b · <>

**Fixing scripts**
D3vEducation committed 2 days ago ✗ · 16a3bd0 · <>

# Chapter 14: Next Steps