

Lab 0: Installs

Detailed instructions and link are in [labs/0-installs.md](#)

Time: 15 minutes to download and install, go! 🚀

Task

You must have the following items:

1. Slides, labs and code <https://github.com/azat-co/node-in-production>
2. Node and npm (v6 and v4)
3. Docker engine
4. AWS account
5. AWS CLI

Walk-through

If you would like to attempt the task, skip the walk-through and go for the task directly. However, if you need a little bit more hand holding or you would like to look up some of the commands or code or settings, then follow the walk-through.

1. Slides, labs and code

Open this link in your browser <https://github.com/azat-co/node-in-production> and click on the green button which says “Download”.

Alternatively, use Git clone (you can fork first too):

```
git clone https://github.com/azat-co/node-in-production.git
```

Or download with CURL and unzip (create a new folder):

```
curl https://codeload.github.com/azat-co/node-in-production/zip/master | tar -xv
```

2. Node and npm

To install Node v6, your official installer ([link](#)) or nvm (recommended).

To install nvm (node version manager), run this script:

```
curl -o- https://raw.githubusercontent.com/creationix/nvm/v0.33.2/install.sh | bash
```

Then run one of the nvm commands such as:

```
nvm install node
```

Keep in mind that after installing and/or switching between versions with nvm, you might have to restart your terminal session (depends on your PATH settings).

Check Node and versions with:

```
node --version  
npm --version
```

You need to have Node v6 or v8 and npm v4+.

3. Docker engine

Next, you would need to get the Docker engine (daemon). If you are a macOS user like I am, then the easiest way is to just go to the official Docker website <https://docs.docker.com/docker-for-mac>.

If you are not a macOS user, then you can select one of the options from this page: <https://docs.docker.com/engine/installation>.

To verify installation, run

```
docker version
```

It's good if you see something like this:

```
Client:  
Version:      17.03.1-ce  
API version:  1.27  
Go version:   go1.7.5  
Git commit:   c6d412e  
Built:        Tue Mar 28 00:40:02 2017  
OS/Arch:      darwin/amd64  
  
Server:  
Version:      17.03.1-ce  
API version:  1.27 (minimum version 1.12)  
Go version:   go1.7.5  
Git commit:   c6d412e  
Built:        Fri Mar 24 00:00:50 2017  
OS/Arch:      linux/amd64  
Experimental: true
```

Next step is to verify that Docker can pull from Hub. Run this hello world image:

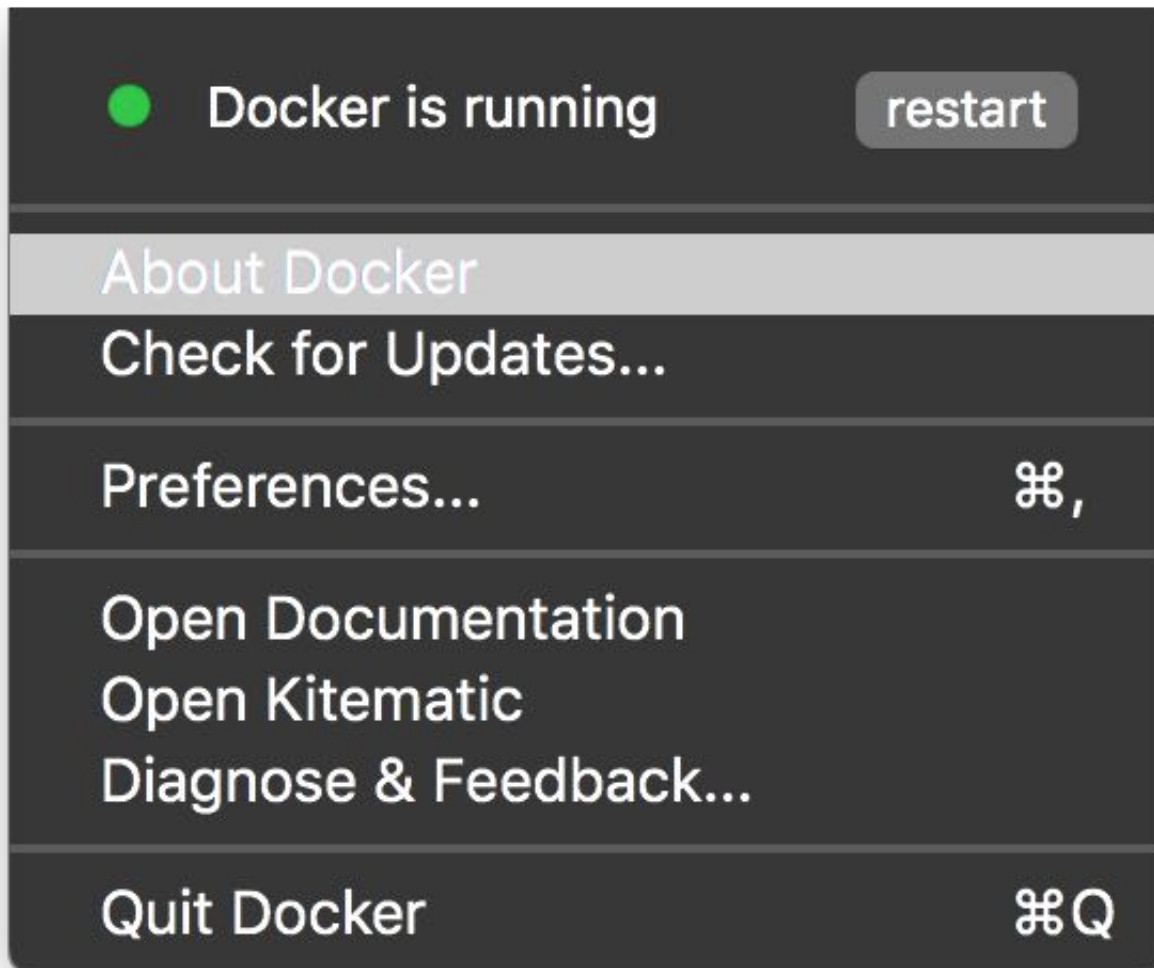
```
docker run hello-world
```

If you see a message like this, most likely you didn't start Docker:

```
Cannot connect to the Docker daemon. Is the docker daemon running on this host?
```

Start Docker. If you used macOS, you can utilize the GUI app. Otherwise, CLI.

This is how running Docker daemon looks on my macOS:



On the contrary, if you see a message like the one below, then daemon is running and you are ready to work with Docker!

```
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world

c04b14da8d14: Pull complete
Digest: sha256:0256e8a36e2070f7bf2d0b0763dbabdd67798512411de4cdcf9431a1feb60fd9
Status: Downloaded newer image for hello-world:latest

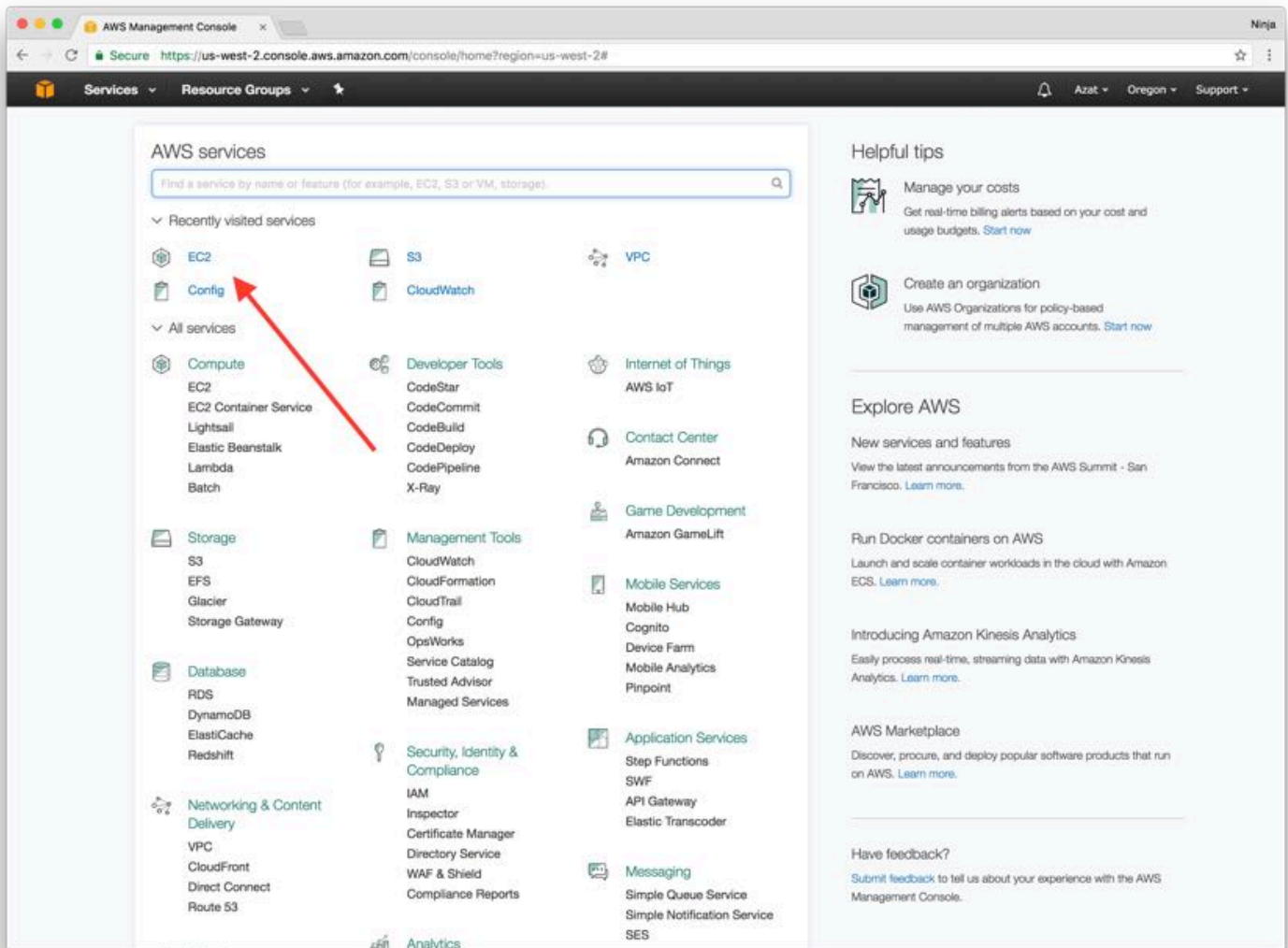
Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
...
```

4. AWS account

You can easily get a free (trial) AWS account. You'll need a valid email and a credit card. Read about the free tier at <https://aws.amazon.com/free/> and when you are ready, sign up by clicking on "CREATE A FREE ACCOUNT".

Once you are in, make sure you can access EC2 dashboard. Sometimes AWS requires a phone call or a waiting period. Most people can get an account within 10 minutes.



5. AWS CLI

Check for Python. Make sure you have 2.6+ or 3.6+. You can use pip (Python package manager) to install AWS CLI.

```
python --version
pip --version
pip install awscli
```

AWS CLI installation command for El Capitan users:

```
sudo -H pip install awscli --upgrade --ignore-installed six
```

Python at least 2.6.5 or 3.x (recommended), see here:

<http://docs.aws.amazon.com/cli/latest/userguide/cli-chap-welcome.html>. At <https://www.python.org/downloads/> you can download Python for your OS.

Other AWS CLI Installations

- [Install the AWS CLI with Homebrew](#) - for macOS
- [Install the AWS CLI Using the Bundled Installer \(Linux, macOS, or Unix\)](#) - just download, unzip and execute

Verify AWS CLI

Run the following command to verify AWS CLI installation and its version (1+ is ok):

```
aws --version
```