**Objective of this project:**

Deploy a Ghost blog with NGINX reverse proxy, on Docker, using an Ubuntu Xenial 16.04 on Amazon Web Services (AWS) Elastic Compute Cloud (EC2).

**Resources for project:**

*Infrastructure as Code (IAC) Cookbook*, Jourdan and Pomes (2017)

Vagrant v1.8.4

Vagrant AWS plugin

Amazon Elastic Compute Cloud (EC2) account

**Why Use Vagrant with AWS?**

Vagrant is a simple but effective method for creating (temporary) environments to be used for testing, software development, etc. The ability to quickly and easily spin up instances on AWS makes using Vagrant with AWS an easy fit for these types of use cases. If permanent infrastructure is required, e.g., production application servers into AWS, using Terraform is more appropriate. Additionally, the cookbook used for this project/interview opens with IaC using Vagrant tutorial and templates.

**Ingredients needed for project**:

* A working Vagrant installation
* Vagrant AWS plugin
* An Amazon EC2 account

# Install Vagrant AWS plugin; /vagrant should be included in $PATH

$ vagrant plugin install vagrant-aws

# vagrant up will reference the Vagrant file

$ vagrant up

Open browser to [http://*EC2.ip.addr*](http://EC2.ip.addr)and the Ghost blog behind NGINX reverse proxy, using Docker containers, using Vagrant on EC2 should appear.

**Vagrant Commands**

$ vagrant status # displays status of VM

$ vagrant ssh <name> # to log into the VM instance

$ vagrant halt # shutdown the VM

$ vagrant destroy # delete VM instance