

In this lab we will setup VirtualBox, Vagrant, and BOSH-lite on your machine. This will be your environment for the remaining labs.

Clone the labs repository

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Use the _-recursive flag when cloning to get the course submodules (https://gitscm.com/book/en/v2/Git-Tools-Submodules).

git **clone** https://github.com/platform-acceleration-lab/apps-platform-acceleration-bosh-code.git --recursive

cd into the labs directory.

cd apps-platform-acceleration-bosh-code

Install Ruby

For this lab, you will need to use Ruby version 2.3.1.

If you do not have it, install it with rbenv.

First install rbenv (https://github.com/rbenv/rbenv#installation) and install ruby-build (https://github.com/rbenv/ruby-build#installation).

Then use rbenv install to install ruby.

rbenv install 2.3.1

If rbenv can't find Ruby 2.3.1, follow the instructions to get the latest list of Rubies for ruby-build.

Bosh Command Line Client

Once Ruby is installed, install the gems specified in your Gemfile.

From the root of your apps-platofrm-bosh-code repository, run:

gem install bundler
rbenv rehash
bundle install

This will install the bosh command line client.

Verify your installation by running bosh —version. If at first your shell cannot find the bosh executable, you may need to run rbenv rehash.

VirtualBox

Download (https://www.virtualbox.org/wiki/Downloads) VirtualBox for your OS and run the installer.

Once it's installed, you don't need to do anything else.

You will interact with VirtualBox using Vagrant.

Vagrant

Download (https://www.vagrantup.com/downloads.html) Vagrant for your OS and run the installer. Once installed, verify your installation by running the following command in a terminal:

vagrant --version

A Note on Versions

This lab was tested against version [1.8.7] of Vagrant, and version [5.1.10] of VirtualBox. It should work on other versions, but if you have trouble, try using those specific versions. You can find older versions of Vagrant here (https://releases.hashicorp.com/vagrant/), and of VirtualBox here (https://www.virtualbox.org/wiki/Download_Old_Builds).

Setting up the VM

Initialize the VM using Vagrant:

```
vagrant up --provider virtualbox
```

While that is running, take a look at the Vagrantfile in the root of the platform-acceleration-bosh-code repository. Notice the declaration of the base image:

```
config.vm.box = 'cloudfoundry/bosh-lite'
```

This configuration setting tells Vagrant to provision a new VM using the cloud-foundry/bosh—lite image as a starting point. The image comes with a BOSH director pre-installed.

Once Vagrant has finished bringing the VM up, verify you have a working BOSH-lite director by targeting it (username: admin/password: admin) and getting information about your director:

```
bosh target 192.168.50.4 bosh target
```

Running bosh target without an argument will print information about the bosh director you have targeted, which should look like:

```
Current target is https://192.168.50.4:25555 (Bosh Lite Director)
```

To avoid problems in future labs, make sure you're running the correct version of BOSH-lite that you are connected to the correct BOSH director. The director exposes an /info endpoint. Curl that endpoint to get director info, including version number.

```
curl -k https://192.168.50.4:25555/info
```

The command should return something like the following:

```
{
  "name": "Bosh Lite Director",
  "uuid": "fb70f16a-4d6f-41f8-bc2e-0181a03dff18",
 "version": "1.3262.3.0 (00000000)",
  "user": null,
  "cpi": "warden cpi",
 "user_authentication": {
    "type": "basic",
    "options": {}
  },
  "features": {
    "dns": {
      "status": false,
      "extras": {
        "domain_name": null
      }
    },
    "compiled_package_cache": {
      "status": true,
      "extras": {
        "provider": "local"
      }
    },
    "snapshots": {
      "status": false
  }
}
```

NOTE: You can get nicely formatted JSON by piping the response to a JSON formatting tool, like jq (https://stedolan.github.io/jq/).

Check the returned JSON and make sure your Director is at version [1.3262].

Next check the version of your bosh cli, it should match the version of your director, at least up to 1.3262.

```
bosh ——version
```

course version: 1.5.3