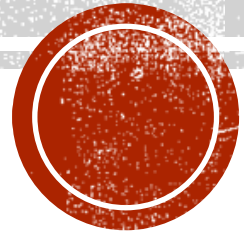
SETUP A HOME LAB WITH VAGRANT



INSTALL VAGRANT

- **Windows Installation**

- Installation can be done using chocolatey by opening up a powershell prompt and using the following command:
  - @"%SystemRoot%\System32\WindowsPowerShell\v1.0\powershell.exe" -NoProfile -InputFormat None -ExecutionPolicy Bypass -Command "iex ((New-Object System.Net.WebClient).DownloadString('https://chocolatey.org/install.ps1'))" && SET "PATH=%PATH%;%ALLUSERSPROFILE%\chocolatey\bin“

- You must install a virtualizartion tool. I recommend VirtualBox using the following command:
  - choco install virtualbox

INSTALL VAGRANT

- Install vagrant using the following command:
  - choco install vagrant virtualbox

CREATE A NEW PROJECT

- Create a directory that's going to be for you project

- mkdir MyProject
  cd MyProject

VAGRANTFILE

- A Vagrantfile is a way to tell vagrant how you want your machines down to the minimal level. You can choose their IP, RAM, CPU whatever you like! It's like a recipe for you machines.

- Use the following Vagrantfile from the project folder

VAGRANTFILE DESCRIPTION

- In this file I've create a vector of servers, you can add as much as you want. In each element of the vector, you can specify what image will your virtual machine host. I've setup the IP address, so I can SSH into it, as well a custom port.
- In this example, I used a simple web application tier. With 2 webservers, a loadbalancer, a database and a queue. And most important, the control machine, in which we will install Ansible.

MANAGE YOUR MACHINES!

- Create your machines:
  - vagrant up
- Terminate your machines:
  - vagrant destroy
- To run only one of them:
  - vagrant up database
- To connect to your machines:
  - Vagrant ssh database