# How to avoid installing Docker Destop and instead use a Virtualbox VM.

The reason you might want to do this is that when you install Docker Desktop in Windows 10 it turns on Hyper-V. If you already are using Virtualbox on this machine all your VM will fail if Hyper-V is enabled.

This method allows you to avoid Hyper-V and still be able to follow along with LadyAda in <https://learn.adafruit.com/how-to-train-new-tensorflow-lite-micro-speech-models> .

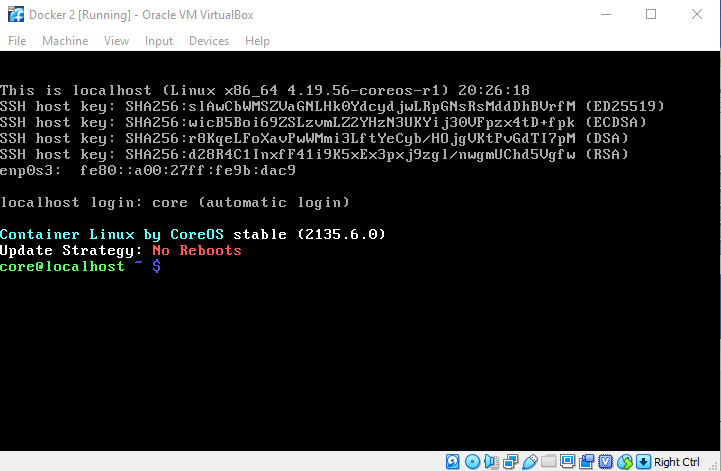
You might be on a different OS and have different reasons to want to use Virtualbox. This guide assumes that you have Virtualbox installed. If you need to install Virtualbox please go grab it and install the correct version for your host os from <https://www.virtualbox.org/wiki/Downloads>

# Let’s get cracking!

Step 1) Download Fedora Core-OS stable.. <https://stable.release.core-os.net/amd64-usr/current/coreos_production_iso_image.iso>

Step 2) In Virtualbox create a VM for “Linux” and “other 64 bit” or “Fedora 64 bit”.. I called mine “Docker”. Give it at least 10GB of memory and 100GB of disk space and as many CPUs as you have. Under storage have it mount the iso image from Step 1. Under Networking set it to Bridged.

Step 3) Start the “Docker” VM



Step 4) We need to create a cloud\_config.yml file to create your docker instance using the format from <https://coreos.com/os/docs/latest/cloud-config.html> . An example is below..

*#cloud-config*

users:

- name: "elroy"

passwd: "$6$5s2u6/jR$un0AvWnqilcgaNB3Mkxd5yYv6mTlWfOoCYHZmfi3LDKVltj.E8XNKEcwWm..."

groups:

- "sudo"

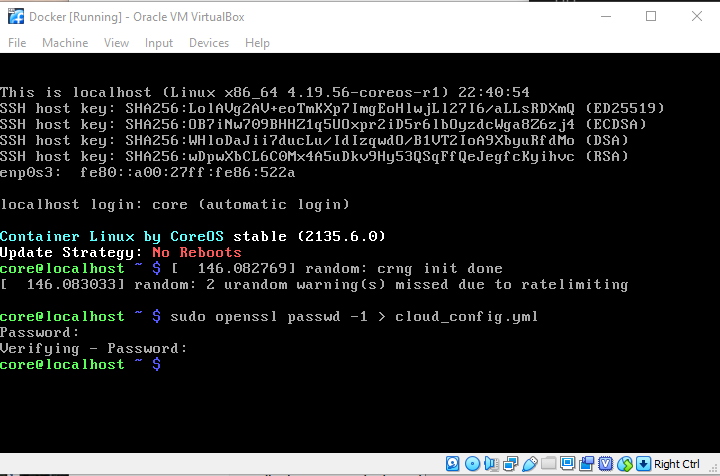
- "docker"

ssh-authorized-keys:

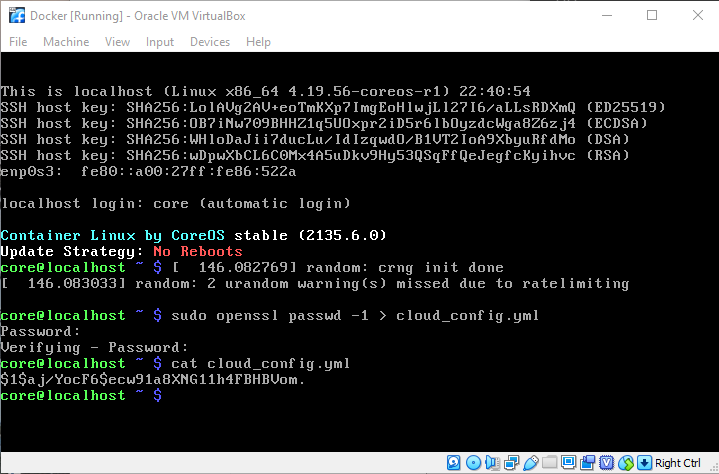
- "ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQC0g+ZTxC7weoIJLUafOgrm+h..."

We need to create a hash of our password so that we can use it in our “Docker” VM. We will also need a username. On the “Docker VM” run `sudo openssl passwd -1 >cloud\_config.yml`

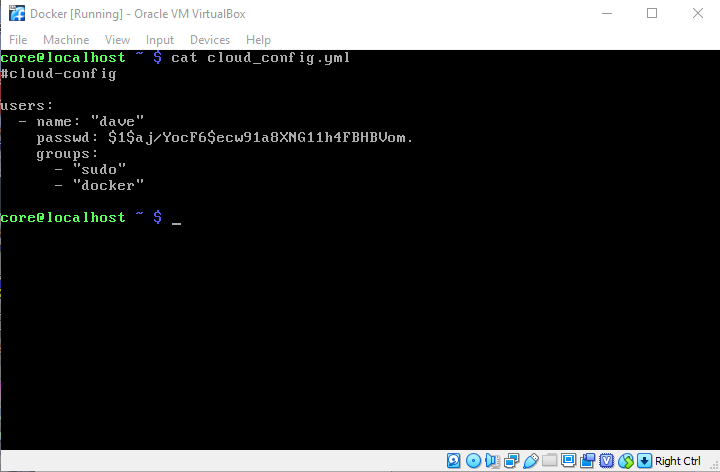
Use for passwd the password you want to get into your Docker VM.. You will need to put it in twice.



Now to fix up that cloud\_init.yml to match the format above..

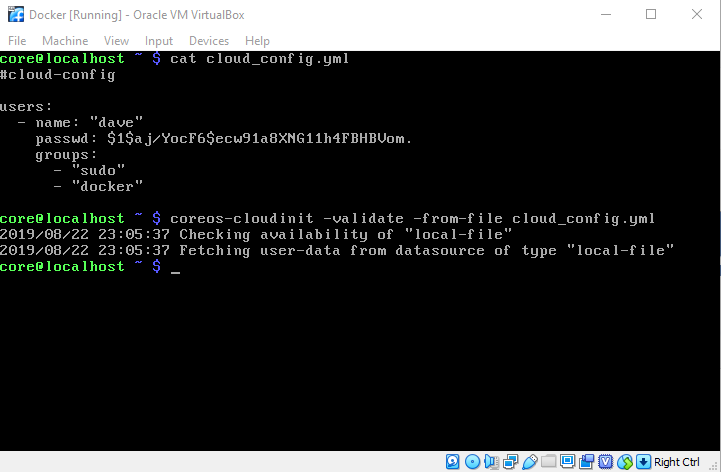


We will create a user “dave” and use the password that we used to create the hash above..



An important note is that all whitespace is a space character. Now let’s test our cloud\_init.yml to make sure the format is correct.

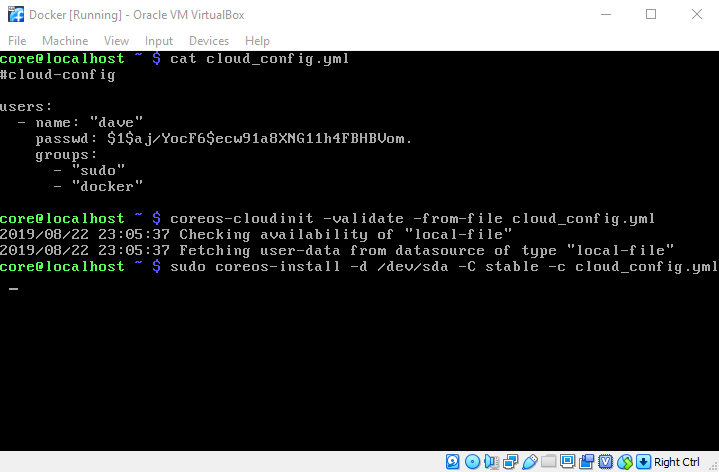
Run `coreos-cloudinit -validate --from-file cloud\_config.yml` and make sure there are no errors..



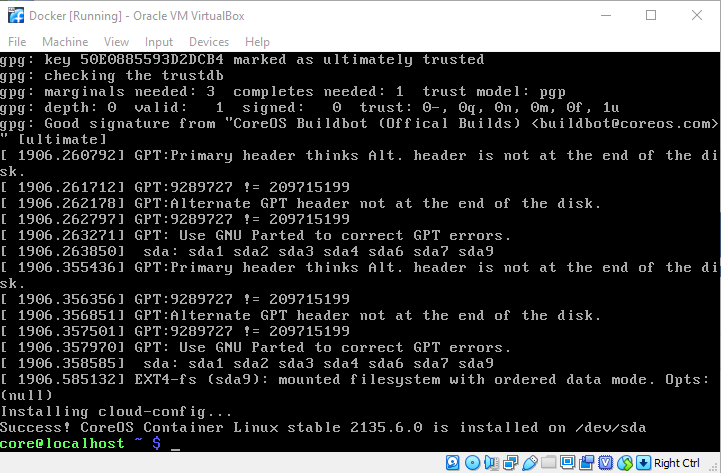
Wooohoo!! We are good, no errors.

Now let’s write it to disk!!

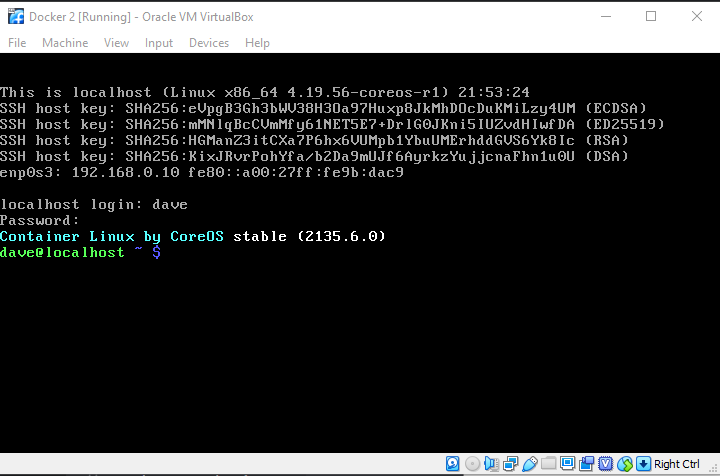
`sudo coreos-install -d /dev/sda -C stable -c cloud\_config.yml`



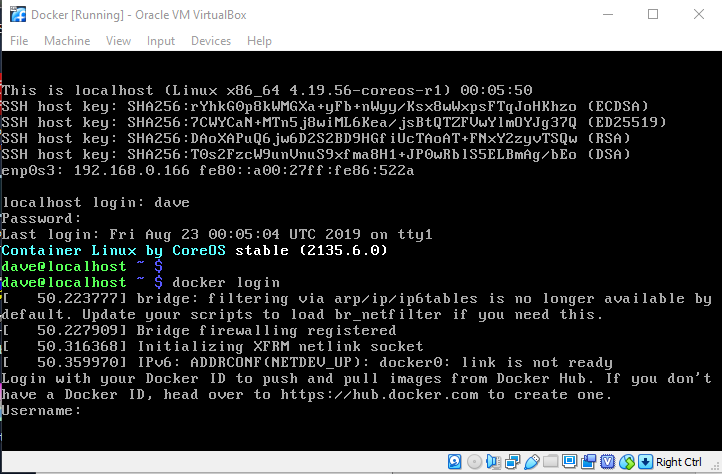
Hit return and let the magic begin!!

Finished!!

Shutdown the Docker VM box and go into its setting and remove the iso disk from the drive and start the Docker VM again. Let’s log in with the user we created.



Now we can pick up where LadyAda left off and log into docker..



Continue from the bottom of page <https://learn.adafruit.com/how-to-train-new-tensorflow-lite-micro-speech-models/install-docker>