docker run -it alpine ->run the alpine container in interactive mode

Now we have emulating alpine OS running on a machine.

**wget** - this instruction helps download resurcess from internet without brauzer. It supports downloads via FTP, SFTP, HTTP, and HTTPS.

So the idea of the experiment is to run the nginx server and use alpine with the aid of **wget** instruction to download the starting page from nginx. I expect both containers know each other - because of the default network connection. and after this I want this downloaded resource (which is an html file) in my local machine - this should be done by indicating [volumes:] in a yaml file.

version: "3"

services:

ngnx:

image: nginx

ports:

- 280:80

alpine:

image: alpine

entrypoint: "wget ngnx" <-this is entrypoint for alpine

depends\_on:

- ngnx

So far everything is working good, but alpine server cli closes immediately after execution, it is not in interactive mode. And now there is no volume mapping for now. So I want to run an alpine service in interactive mode. By using Dockerfile I could enter the command docker run -it alpine, but I want to do it by using docker-compose instruction and .yaml file. So now my yaml file looks like this:

**version: "3"**

**services:**

**ngnx:**

**image: nginx**

**ports:**

**- 280:80**

**alpine:**

**image: alpine**

**depends\_on:**

**- ngnx**

*I did removed entrypoint field* and being in appropriate directory I run:

**docker-compose run --rm alpine**

With that I have got ngnx service running and alpine cli running as well in interactive mode. When I use **wget ngnx** I see that alpine saves the starting page in the format .html in a root directory of alpine, and I can run it inside of alpine by: cat **index.html.** So now I want to make volume mapping and my yaml file looks this:

version: "3"

services:

ngnx:

image: nginx

ports:

- 280:80

alpine:

image: alpine

depends\_on:

- ngnx

volumes:

- C:\forExperements\docker\_experements\YAML\volume\_mapping\:/directory

I run **docker-compose run --rm alpine** and do the same command with wget, and it works ok i have got my file

**Update**

Ok, so one more time I want to create .yaml file with 2 services: 1-nginx, 2-alpine and I want alpine cli to run the command: ‘wget ngnx’ and download .html file in a alpine directory that will be volume mapped with host directory in order to keep the file on host machine.

My .yaml file:

**version: "3"**

**services:**

**ngnx:**

**image: nginx**

**ports:**

**- 280:80**

**alpine:**

**image: alpine**

**entrypoint: "wget ngnx"**

**depends\_on:**

**- ngnx**

**working\_dir: /directory/ <-containers directory where you will appear after container starts.**

**volumes:**

**- C:\forExperements\docker\_experements\YAML\volume\_mapping\:/directory/**

**docker-compose up ->** this is the docker command that I run.

The main point to take away:

1) We need strictly follow the syntax of .yaml file and order of keywords.

2) in order to create a file you need to be in the directory in wich you want to save this file.

I did not filled up the  **working\_dir** so when my service started and run in a background and then finished with log that it saved my file I couldn't see any file in the directory that I indicated, the problem was: since I run the container in a root directory it saved file in container root directory. But I indicated volume mapping in different directory and volume mapping work well it just saved file not in the expected directory and as the result I didn't get it on the host machine.

So the solving was to indicate **working\_dir: disired\_directory\_of\_container**