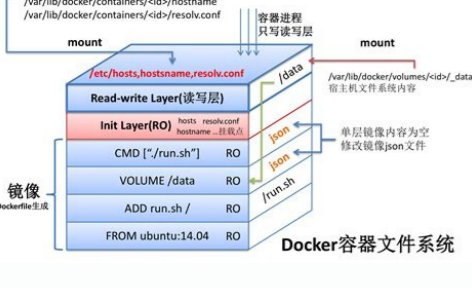


Docker file from container

I'm not robot!



DOCKER VERSUS CONTAINER

DOCKER

A software platform to create, deploy and manage virtualized application containers on a common operating system with an ecosystem of allied tools

CONTAINER

A lightweight alternative to full machine virtualization that involves encapsulating an application with its own operating environment

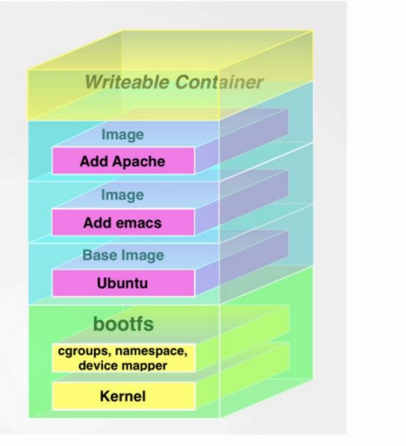
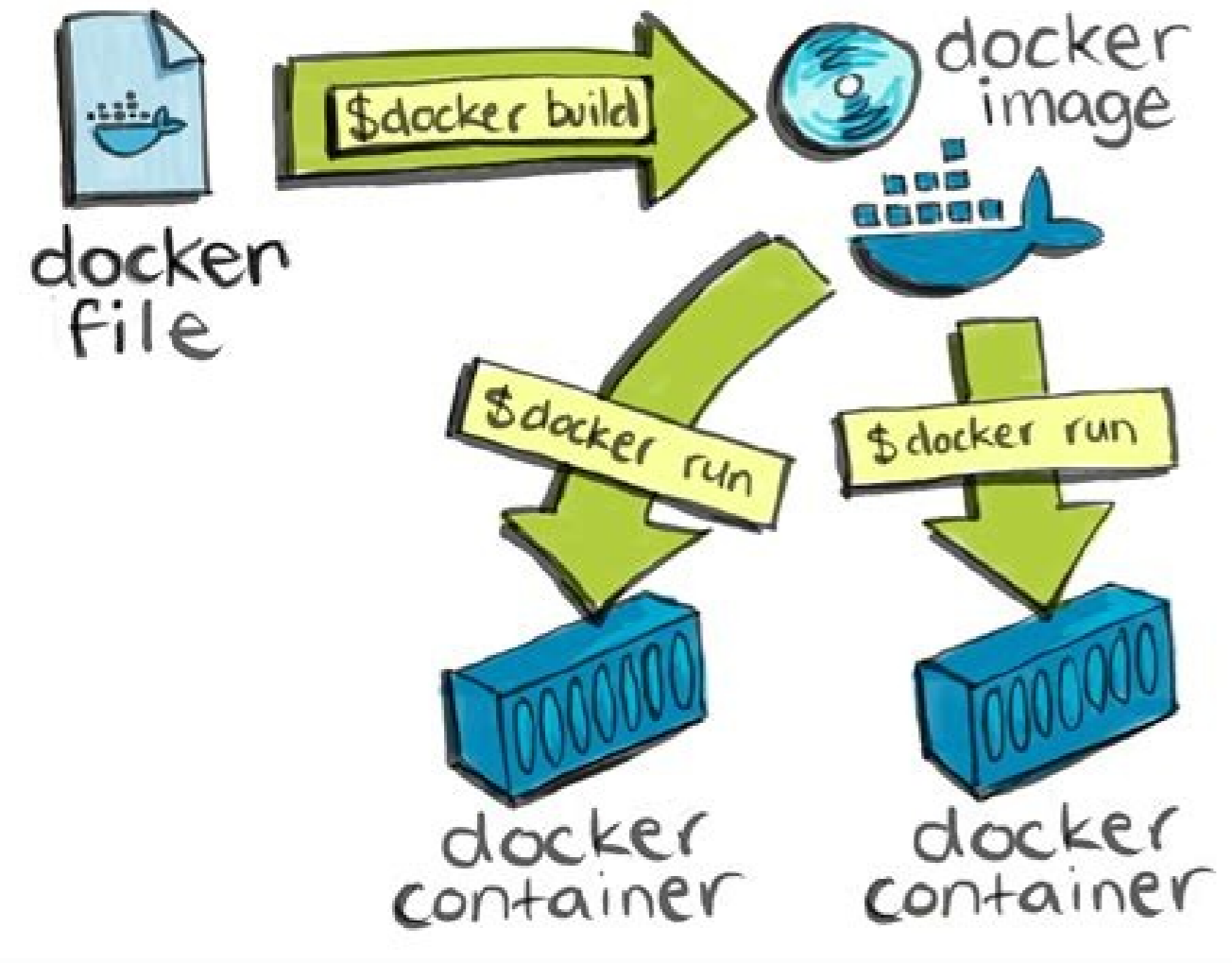
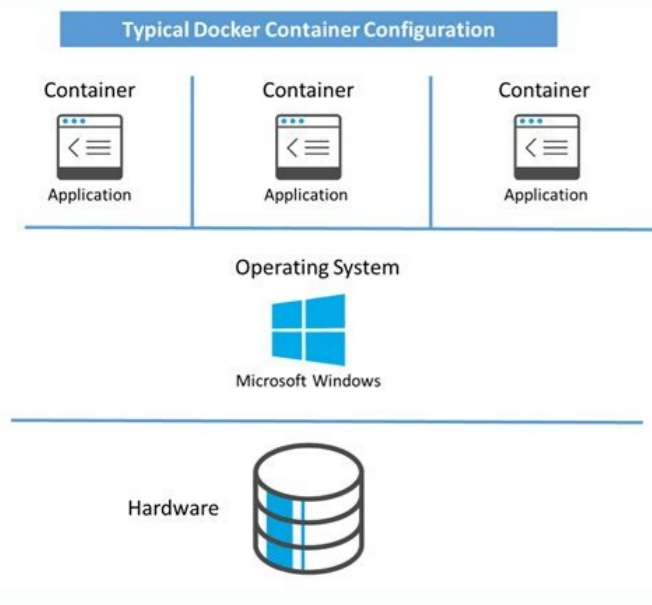
Functions as a container management service

Packages up the code and all its dependencies so that the applications can run quickly and reliably from one computing environment to another

Improves scalability, improves security and makes the development process easier

Improves operational efficiency, productivity, provide version control, etc.

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Create docker file from container. Docker file from container to host. Docker remove file from container. Docker file from container. Copy file from docker container. Copy file from docker container to local machine. Copy file from local to docker container.

SearchAppArchitecture SearchSoftwareQuality SearchCloudComputing SearchSecurity SearchAWS Estimated reading time: 5 minutes For the rest of this tutorial, we will be working with a simple todo list manager that is running in Node.js. If you're not familiar with Node.js, don't worry. No real JavaScript experience is needed. At this point, your development team is quite small and you're simply building an app to prove out your MVP (minimum viable product). You want to show how it works and what it's capable of doing without needing to think about how it will work for a large team, multiple developers, etc. Get the app Before we can run the application, we need to get the application source code onto our machine. For real projects, you will typically clone the repo. But, for this tutorial, we have created a ZIP file containing the application. Download the App contents from the getting-started repository. You can either pull the entire project or download it as a zip and extract the app folder out to get started with. Once extracted, use your favorite code editor to open the project. If you're in need of an editor, you can use Visual Studio Code. You should see the package.json and two subdirectories (src and spec). Build the app's container image In order to build the application, we need to use a Dockerfile. A Dockerfile is simply a text-based script of instructions that is used to create a container image. If you've created Dockerfiles before, you might see a few flaws in the Dockerfile below. But, don't worry. We'll go over them. Create a file named Dockerfile in the same folder as the file package.json with the following contents. # syntax=docker/dockerfile:1 FROM node:12-alpine RUN apk add --no-cache python2 g++ make WORKDIR /app COPY . . RUN yarn install --production CMD ["node", "src/index.js"] EXPOSE 3000 Please check that the file Dockerfile has no file extension like .txt. Some editors may append this file extension automatically and this would result in an error in the next step. If you haven't already done so, open a terminal and go to the app directory with the Dockerfile. Now build the container image using the docker build command. \$ docker build -t getting-started . This command used the Dockerfile to build a new container image. You might have noticed that a lot of "layers" were downloaded. This is because we instructed the builder that we wanted to start from the node:12-alpine image. But, since we didn't have that on our machine, that image needed to be downloaded. After the image was downloaded, we copied in our application and used yarn to install our application's dependencies. The CMD directive specifies the default command to run when starting a container from this image. Finally, the -t flag tags our image. Think of this simply as a human-readable name for the final image. Since we named the image getting-started, we can refer to that image when we run a container. The . at the end of the docker build command tells Docker that it should look for the Dockerfile in the current directory. Start an app container Now that we have an image, let's run the application. To do so, we will use the docker run command (remember that from earlier?). Start your container using the docker run command and specify the name of the image we just created: \$ docker run -dp 3000:3000 getting-started Remember the -d and -p flags? We're running the new container in "detached" mode (in the background) and creating a mapping between the host's port 3000 to the container's port 3000. Without the port mapping, we wouldn't be able to access the application. After a few seconds, open your web browser to . You should see our app. Go ahead and add an item or two and see that it works as you expect. You can mark items as complete and remove items. Your frontend is successfully storing items in the backend. Pretty quick and easy, huh? At this point, you should have a running todo list manager with a few items, all built by you. Now, let's make a few changes and learn about managing our containers. If you take a quick look at the Docker Dashboard, you should see your two containers running now (this tutorial and your freshly launched app container). Recap In this short section, we learned the very basics about building a container image and created a Dockerfile to do so. Once we built an image, we started the container and saw the running app. Next, we're going to make a modification to our app and learn how to update our running application with a new image. Along the way, we'll learn a few other useful commands, get started, setup, orientation, quickstart, intro, concepts, containers, docker desktop In this article, I'll provide step-by-step instructions on how to create a Docker container, modify its internal state, and then save the container as an image. This is really handy when you're working out how an image should be constructed because you can just keep tweaking a running container until it works as you want it to. When you're done, just save it as an image. You can use the following guide to customize and deploy the DataSet agent for common tasks such as adding parsers for your log files, adding redaction/sampling rules, running custom plugins, or mounting volumes for application log files. Before we jump right into it, we'd like to invite you to a relevant webinar on how to get the most value out of your Kubernetes Audit logs. If you run Docker containers in K8s environments, we will cover the best practices to implement comprehensive, secure, and efficient audit logs in production Kubernetes clusters. We look forward to seeing in the webinar. Step 1: Create a Base Container Let's get started by creating a running container. So that we don't get bogged down in the details of any particular container, we can use nginx. The Docker create command will create a new container for us from the command line. \$ docker create --name nginx_base -p 80:80 nginx:alpine Here we have requested a new container named nginx_base with port 80 exposed to localhost. We are using nginx:alpine as a base image for the container. If you don't have the nginx:alpine image in your local docker image repository, it will download automatically. When this happens, you will see something like this: Unable to find image 'nginx:alpine' locally: Pulling from library/nginx: Pull complete 5867c7ba5fcb: Pull complete 061e9e2b976: Pull complete b19f3e8eb1: Pull complete 4071be97c256: Pull complete sha256:5a0d77b7c8c03e4158ae9974bfb6a15da2bdfdede4fb694367ec812325d31 Status: Downloaded newer image for nginx:alpine 85b13f4d8a9bdcab4fbae540cf7b3704eab13b57c5f44a2d3529d861c72ba5 Step 2: Inspect Images If you look at the list of images on your system, you will now see the nginx:alpine image: \$ docker images -a REPOSITORY TAG IMAGE ID CREATED SIZE amitsharma/nginx-reverse-proxy v1 1037dc5f8db4 3 weeks ago 142MB nginx-reverse-proxy latest 1037dc5f8db4 3 weeks ago 142MB amitsharma/web-server-app v1 09a0abf08e08 3 weeks ago 58.3MB web-server-app latest 09a0abf08e08 3 weeks ago 58.3MB nginx_alpine 51696c87e77e 4 weeks ago 23.4MB Step 3: Inspect Containers Note here that the container is not running, so you won't see it in the container list unless you use the -a flag (-a is for all). \$ docker ps -a CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES c365af6303e4 nginx:alpine /docker-entrypoint... 6 minutes ago Created nginx_base Step 4: Start the Container Let's start the container and see what happens. \$ docker start nginx_base nginx_base Now visit with your browser. You will see the default "Welcome to nginx!" page. We are now running an nginx container. Step 5: Modify the Running Container So if you wanted to modify this running container so that it behaves in a specific way, there are a variety of ways to do that. In order to keep things as simple as possible, we are just going to copy a new index.html file onto the server. You could do practically anything you wanted here. Let's create a new index.html file and copy it onto the running container. Using an editor on your machine, create an index.html file in the same directory that you have been running Docker commands from. Then paste the following HTML into it: Hello World Hello World! Then save the file and return to the command line. We will use the docker cp command to copy this file into the running container. \$ docker cp index.html nginx_base:/usr/share/nginx/html/index.html Now reload your browser or revisit . You will see the message "Hello World!" in place of the default nginx welcome page. Step 6: Create an Image From a Container So at this point, we've updated the contents of a running container and as long as we keep that container around, we don't need to do anything. However, we want to know how to save this container as an image so we can make other containers based on this one. The Docker commands to do this are quite simple. To save a Docker container, we just need to use the docker commit command like this: \$ docker commit nginx_base sha256:0c17f0798823c7fbc5a67d5432b48f525320d671beb2e6f04303f3da2f10432 Now look at the docker images list: \$ docker images -a REPOSITORY TAG IMAGE ID CREATED SIZE Oc170798823 About a minute ago 23.4MB amitsharma/nginx-reverse-proxy v1 1037dc5f8db4 3 weeks ago 142MB nginx-reverse-proxy latest 1037dc5f8db4 3 weeks ago 142MB amitsharma/web-server-app v1 09a0abf08e08 3 weeks ago 58.3MB web-server-app latest 09a0abf08e08 3 weeks ago 58.3MB nginx_alpine 51696c87e77e 4 weeks ago 23.4MB You can see there is a new image there. It does not have a repository or tag, but it exists. This is an image created from the running container. Let's tag it so it will be easier to find later. Step 7: Tag the Image Using docker tag, we can name the image we just created. We need the image ID for the command. \$ docker commit --message 'this is a basic nginx image' nginx_base mmm sha256:d717f5e1285ec7a539f1e59908375ef3111f59176ec0e40ec5835ddc96d9816 Using the image name, we can look at the history of the Docker image to see our message. Here we are using the docker history command to show the change history of the image we created: \$ docker history mmm IMAGE CREATED CREATED BY SIZE COMMAND 0B 4 weeks ago /bin/sh -c #(nop) CMD ["nginx"] -g "daemon off." 0B 4 weeks ago /bin/sh -c #(nop) STOPSIGNAL SIGQUIT 0B 4 weeks ago /bin/sh -c #(nop) EXPOSE 80 0B 4 weeks ago /bin/sh -c #(nop) ENTRYPOINT ["docker-entr... 0B 4 weeks ago /bin/sh -c #(nop) COPY file:09a214a3e07c919a... 4.61kB 4 weeks ago /bin/sh -c #(nop) COPY file:0f45fca330dc6a7... 1.04kB 4 weeks ago /bin/sh -c #(nop) COPY file:5d673d25da3a14ce1... 5.57MB Notice that we see the entire history here, and the first entry is from our commit of the running container. The first line listed shows our commit message in the rightmost column. Let's remove this image and check out the other options: \$ docker rmi mmm Untagged: mmm:latest Deleted: sha256:d717f5e1285ec7a539f1e59908375ef3111f59176ec0e40ec5835ddc96d9816 Deleted: sha256:d78b9fb9c8a0115d422ad6d142507d44c630e90bc32feb62891092100a0e9a Deleted: sha256:6d2af2cfa2e2801b9a95ed0a5ccf5e173e621e7fe05b15f32379537464e38ec Option D: Change Configuration The last option I want to discuss is the -c or --change flag. This option allows you to set the configuration of the image. You can change any of the following settings of the image during the commit process: CMD ENTRYPOINT ENV EXPOSE LABEL ONBUILD USER VOLUME WORKDIR Nginx's original docker file contains the following settings: CMD ["nginx", "-g", "daemon off;"] ENV NGINX_VERSION 1.15.3 EXPOSE 80 So we will just play with one of those for a moment. The NGINX_VERSION and EXPOSE could cause issues with container startup, so we will mess with the command line (CMD) executed by the container. Nginx allows us to pass the -T command line

argument that will dump its configuration to standard out. Let's make an image with an alternate CMD value as follows: → ~ docker commit --change="CMD ['nginx', '-T'] nginx_base conf_dump sha256:0a6c19c4443e9d0a772aeaf528ffc6b40622bf991928dfb97bd3db0a3ea6dee Now stop the nginx_base container with this command: → ~ docker stop nginx_base nginx_base And start a new container from the image we just created: → ~ docker run --name dumper -p 80:80 conf_dump The configuration for the nginx process will be dumped to standard out when you execute this command. You can scroll back several pages to find the command we executed. Creating Docker Images: Conclusion The docker commit subcommand is very useful for diagnostic activities and bootstrapping new images from existing containers. As I showed above, there are many helpful options available, too. The Docker CLI has many other power commands. If you like, you can explore some of them here. DataSet is the best-of-breed log analytics solution for dynamic container environments. It is the only solution that provides unmatched performance and scale while optimizing the total cost of ownership. To find out more about working with Docker and DataSet, check out these resources: Installing the DataSet Agent in Docker Configure the DataSet Agent for Docker

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