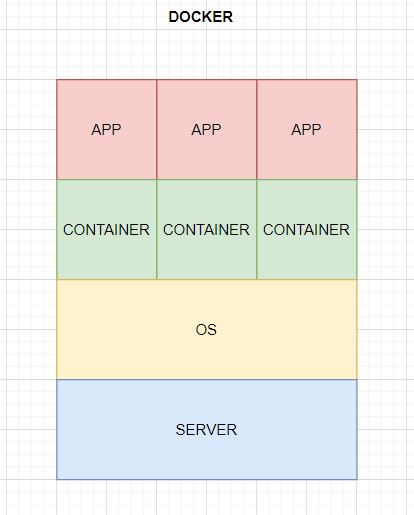
**Docker Reference Sheet**

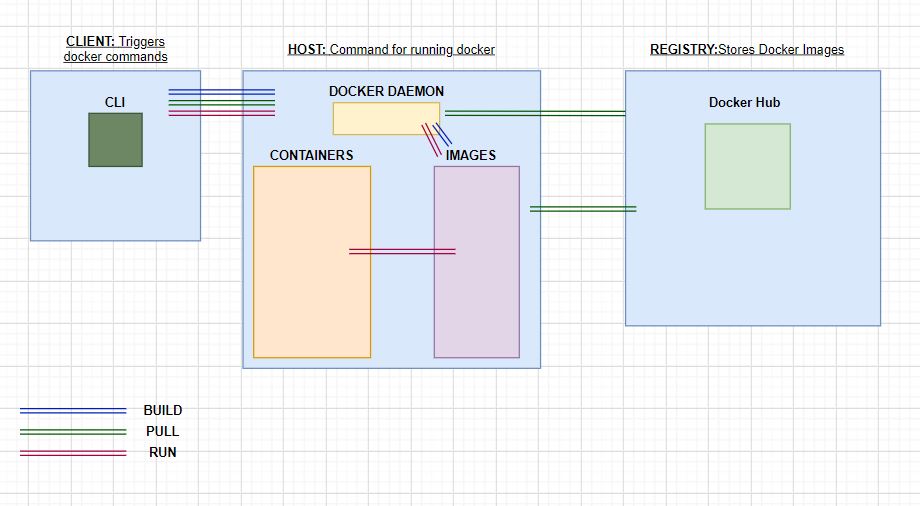
Terminology

* *Docker:* An open-source containerization platform, as well as an application build and deployment tool. Enables developers to package applications into containers.
* *Container:* A standard unit of software that packages up code and all its dependencies, so the application runs quickly and reliably from one environment to another.
* *Docker image:* A lightweight executable package of software that includes everything needed to run an application, such as code, runtime, system tools, libraries, settings, etc.
* *Docker daemon:* Background process that manages the containers on a single host. Also manages Docker objects such as images, containers, network, and storage.
* *Dockerfile:* A text document that contains all the commands a user could call on the command line to assemble an image

Docker Diagram



Docker Environment



Deployment

*Installing Docker:*

1. Go to <https://www.docker.com/get-started>
2. Create an account
3. Download Docker for desired OS
4. Open CLI once Docker is installed

*Getting Started:*

1. Type “Docker” and press Enter to view capabilities
2. Type “Docker Info” and Enter to view current server (At this point you should not have any containers or images)

*Creating a Container and associating with an Image:*

Use Case: Creating Container with Nginx Image

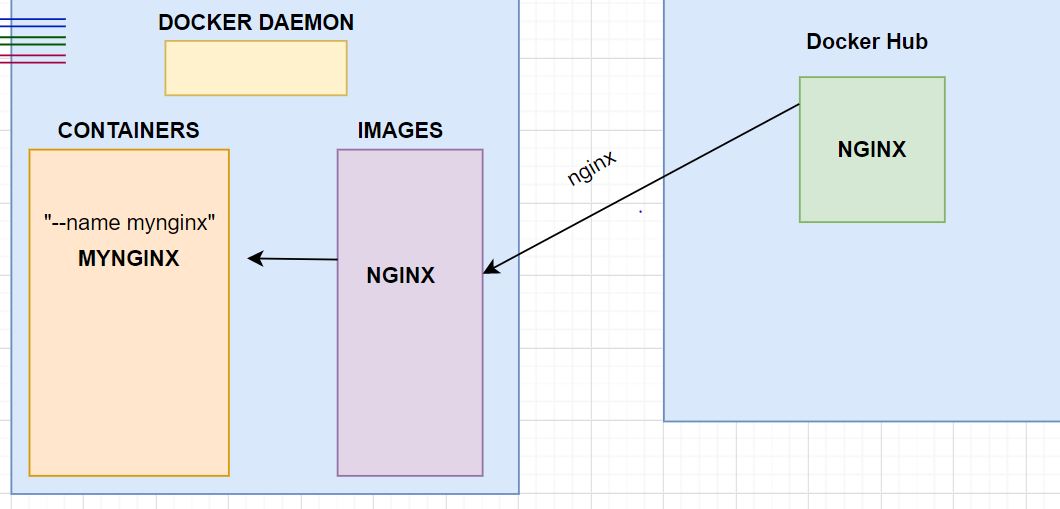
1. Go to CLI
2. Input <docker container run -d -p 8080:80 --name mynginx nginx>

-d: detach

-p: port

“--name” sets the name for container

“nginx” is the image which is retrieved from Docker Hub



1. Input <docker ps> into CLI to confirm that container exists

(<docker ps -a> to view all containers, including non-active)



4. Input <docker images> to confirm image has been pulled

*Accessing the Web Route:*

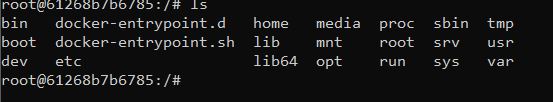
1. Bash into the server by inputting <docker container exec -it mynginx bash>

“exec” command runs a new command in a running container

-it: interactive

1. Input <ls> to view directory

This is what should be displayed:



1. Input path <cd usr/share/nginx/html>
2. Input <ls>

This is what should be displayed:



1. Go onto web browser and search <localhost:8080>

This is what should be displayed:



1. To personalize the page, a bind mount is required

A “Bind mount” is used to mount a file/directory into a container.

*To Bind Mount:*

1. First, remove the current container, which can be done by inputting <docker ps> to view containers
2. Input <docker container rm CONTAINER ID>

![Text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RD6RXhpZgAATU0AKgAAAAgABAE7AAIAAAAQAAAISodpAAQAAAABAAAIWpydAAEAAAAgAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGppYnJhZWwgcGlyemFkYQAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADOTIAAJKSAAIAAAADOTIAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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olJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwDyfU7fSvDFvp1ncaRDqV1dWkd3czzzSoU8wZVIwjADC45YNknpgYpHg0fw9p+jNf6SmqS6lD9qnM00ieVGXZVWPYyjdhSSWDDkccHNebxJp2p2dkNe0iW6vLKEQR3Fvd+SJY1+4JVKMWxyMqVJHHbNEXiawn03T7fXNIe+l0zK20kd15QaPduEcgKMWUEnoVOCRnvT0v8AP8Nf+ALp8vx/q50ep+B9LstA1W2gDS6lBqE62lyXOZIo4o5PLK/dzsZjnGcrjvVeHS9GtviNp+iSaLbXNpfLZBvNmnDRmSJC5UrIOSWJ5zjtise48c39wkUrxr9uj1V9TM4PylmVRs2Y6DZ69Dii78YRz+P7XxJBpvkRWrwFLPz93ESqoG/b32+n50o7q/l+Sv8AiD2fo/z0/ALK1sNb8Zw2x0230+wt2d7pbZ5SGhjy7kl3Yg7VI4I7U3xFaWOmapp2p2GnxvpuoWqXMVpK8hRTyrxlgwc4dT/FnGKr6R4mfRZNVuLW1ie6v4jCkkyrIsSs4ZwUZSr5A28+pqe98WJrGkafYa3p6SCxuJHSSxEVp+7cDMYVY9o+Ybt2D3470ley/r+un4lO3M+39f8ADGxqOnaPJ458P6RBotra212bKScxTTlpBKqF1y0hwPmOMYPvSal4Z0uGPxHeWlufsqWSXNhmRj5LG4WN1zn5tp3r82eMH3qhfeLtOn8R6TrNnpN1DNp7W+UlvlkWRIQoUcRKVJ2jJ5+lRReMmXw5rOkyWQkGoyF4ZfNwbfdIjuMY+YHy19MYJ7035ef6WCO6v5f8E1fFWjWml2xSx0bRFh+xQSfaJNUP2oM8SszCI3Gc7icDy+natCLw1oyaRY3F9pdlHpzaOt1e36Xjm6ikbKqyxCQ8F9g5j28nkduW1zXtI1w/aZdKvor/AOzRQiRdQQxZjjVA2zyc9Fzjd+NPj8YbdS06eSwElvbaaNNuLcy/8fEeGDc7flPzZHBwQDzRLW9v63/4Ao6Wv2/y/wCCczXU+B4tOvtSmstT0i1vl+zTzrJLJMrKY4mYAbJFGMrzkZ965hypkYxgqmflDHJA+vGa3fC+u6doFzLc3enXV5O0UkKmK8WFQjoUOQY2JOCcHI+lHR+gdUaGlx6U/hPXNcn0KzmlgureOC3aW4EUSuH3YxKGP3R1Y1R8T6XZW9ppOraVE1va6rbtJ9nZy/kyI5R1UnkrkAjOTzyT1p9h4h0m00nVNJm0q8lsb6aKVAt+iyxeWG4LeSQ2d390VR13XG1mW2SK3W0srKLyLS2Ri3lpknlj95iSSTxk9gOKHvp5fl/mC/r7zJooooAK66+Olf8ACAWmow+H7GG7ubqa2aVJbg7AiIQwBlI3ZY9QR7VyNdJd6/o0/hSHRodJvozBK88Uz6ijfvHVQcr5IyvyjgEH3ofwsF8SOwtvBvh5tc0SR7F2sRBbwX8PnuPNuJVi2nOcrnzs4GP9W1Ynhvw1pdzFLb6pCTcaleyafpzs7KYXRCd+ARu+dol545asifxdNL4ottViikighltZTZic7XaBVUEnHXAPOONxq5dfEG83WS6TZWdpFZs0iLPbQ3LiRpC7OHePK9QOP7opuzf3/p/wRK6X3f1+T8w0/RIbDw7b31zpDavqWoXclraWLGTaoj272KxlXZskAAHHUnPFXNG0OC4vPEDX3h2C1ubOzilisNSuZLeOJ2kRSSzOjAEMSAzdxye9K/8AGNjqzX0Gp6M7WFxeNewxW935ctvK4Afa5RgVbGdpX0545fN40srrUNVe50m4NnqNlBZ+THeqskYi8vDbzGQSfLH8I60l5/1p/mPT+vX/ACMHXY/K1Mp9jsLPCD93p919oi+u/wAyTn23fhWbVm/eykud2mW9xbwYHyXE6zNnudwRB+GKrUkAUUUUwCiiigAooooAKKKKACiiigApaSloA29U8MnRlkj1LVrCG/iQM+njzmlUkAhSwjMecH+/x9antfCcV1osmqDxFpUdvE0aTb0ud0buCQpAhOT8p5GRx1rellN9ot7/AMJw+jXDw2jfZL+2vYJLxpQqrGh8lyZBxgmQHAydwrAsLmBPh3rFs88azyX1q6RFwGZQsuSB1IGR+YofX5fmC6f10INH8LX2uWV/dWUkGyyH3XZg052s+2MY5O1GODjgUugeGh4gLRw6vYWs6q7mC5E27Yi7mbKRsuMA8Zzx0rpdG1bQvD+neGvP1O5FxDO2o3MVnbJOjFjsEbsZVKkInIwcbz9Kp6UmnaL8RdTihvrZrBLe8W3nEylGVoX2ANnGTkDHrxQ9L+j+9f8ABBa/13MOXw640q+1K01CzvLSxkiieSHzF3tIDjaHRTxtOc49s1Na+DtQuo7SVZbZILmzkvmmdyFghRyjM/Geo6KGJyMVb8PSxXng7W9FW4t4Ly4mt54RczrCkgQsGG9yFB+YHBIzzitGe+vbS50aw8P6lYfbNP0t4bt3u4Bbt5kjM0W6Q+XIMOuQCRnOOmaP6/D/ADD+vx/yOQ1GygspEW21O11EMMl7ZZVC+x8xEP5A1TrqfGK6YYNPmt4dPtdWmEjX9vpcwkt0+b5CCGZQSM5VTgccDpXLUkMKKKKYgooooAKKKKACiiigAooooAKKKKAJba2nvLhYLSCSeZ/uxxIWZu/AHNRV6R4S0rS9D8ZaFbzx3dzqV1ai6E0dwiQxeZEzBdmwl8Dqdy8npxk5vgLWdWs5pbqTV9Ri0bRYTdSWsV1IkcjZ+SPaDj5nIz7bqfV+X6bi7eZxNFdf4W1HxJqniK4Ol6k1h58xvdQu0YRLGgJLNI452DJ+XOCSOM1rWlzpE2oeLvEmnynT4IZ40s5YbQSSQiR2+eNCVCt8vByu0McHOBS7XH3sedUV6DHMulax/aOpa7Pcvq2ls2maxfRuZbZ923LKC7KRtdQylsZBHtpwxtc6l4NvDcweINTeW58y4uA6LLEmCGLuu9gnz4YrnK4AOBk6/wBef+Qf1+FzyuivQ/E0p1vwjA2m6je+IIl1Uxi5viWuoWYEJEqHOVYLnIbkj7qkc1NU8HWFl4d1K9WOa3udMliWSOTU7a5MwZ9jBo4vmhbODglu4zxmj1/rb/MDh6K9T/tCy1ttdEWurLof9lyy2+jiCUCyKoNnDL5aFXwNyFixP+0ahjtBHDofh3SNfu9KudRsIpPLs7YiO4llUn9/KHVjyduNrhR9WFDv/Xz/AMgX9fh/meeWGm32qXP2fTLO4vJ9pbyreJpGwOpwATio7q0uLG6e2vYJbeeM4eKZCjKfQg8iu38OtpFv4A8Ti7sL9pYvs0d0Yr5E8z98cBf3R2jIGc7s47Vn+DbvUJvEAstK1bU9J0gO91crDeOPLhQZYkptBbaAM4GTino2DujkqK7u18erPrPiS/vbzUdNm1cIsFxp6h5IAjggcyIfuqFzmsLxdZ3drq8M17qk2q/bLaO5hu5y3mPGw+XcGJIIxjGSPQmp6Jj6tGDRRRTEFFFd5qPhPw/DfaxpVk2pG90/Tzei4llj8skKrlNgTJG1vvbhz/DR0uHWxwdT29ldXccz2ttNMlunmTNHGWEa/wB5iOg9zXfaT4E0xrDT7nVrTV3tLqwa9l1OCZIbaAjdiM7o25yoGd2csMKe+H4dhs7vRdfWB9StLiCxectFegRSxh0AjdAmW+9nO7HHSh6XXZP8P+GBa28zlqK6XTNK0VPB0ut6wt/NIt8LWOC1lSMNlN2SzK2Mc9jngcda0G8Iaa3jLU/DcM90s+0Pp9xIw8tfkEm2YBeBtOC4IAIyRjo7a2/ruHS5xVFa/ibT7PSdak06x+1MbUCOeS5G3zJR94qu0FVz0Bycc98DIqU76oNgooopgFFFFAG/ZeN/EGnW8EVnfLH9nj8mKT7PEZVjyT5fmFdxTJ+6Tj2rMTVLyPR5dLjl22c0qzSRhFBdlBAy2MkDJ4zjnOKp0UAa+l+KNU0fTbiwsZLb7LcuHmins4ZxIR0z5iN07DtSQeJNStdQuLu3a2ie5j8uaJbOEQyLxwYtmw9Afu9eetZNFAGo/iLUZtUW/uHt55ljESLNaRSRIg6KsTKUUDsABig+JNYOtw6v9vlW+t8eTKuFEQHRVUfKq8kbQMYOMVl0UAa934o1a8SBGuI4Egm8+OO0t47ZRJ2crGqgsMcE8ipb/wAYa1qNlc2lzcQLBdsHuEgs4YfOYNuDNsQZOe556+prDooA1LrxFqV3pv2BpYYbU4LxWttHAJSOhfy1XeR23ZxUtt4s1m0sYrS3ukVIUZIZDbxtNCrZyElK70HJ4Vh1PrXpurfCDQLH4byeIIbvUmu009bkI0sfl7ioOMbM459a8Zoe7QLZMt2+p3drpt3YQTbba92efHtB37DleSMjB9KW01S8sbO8tbSXy4r1BHOAi5dQc7d2MgZAyARnHNbnhHR7HU9J8SzX0HmyWOmNPbney7H3AZ4PPB6HIrP0fSINQ0XXLyZ5Fk0+2SaIIQAxaVEO7jphj0xzQ97f1/WgLX7/APL/ADKmnarcaW7tbR2jmQAH7TZxXAH0Eitj8KZqGo3eq3r3eoTtPO/Vm7AdAB0AA4AHAHAqrRQAUVu6rp1rbeD9AvoYttxeNcid9xO/Y6heM4GAT0rCoAK1JPEeqy6hd3r3Wbi9gNvO/lr88ZUKVxjA4UDI5rQ1iytrHwN4fkggTztQM888zDLkpIUVQey45wOpOT0GOg1DwBpdp8HLTxZHcXhv5ioaNnXyhlyvA256D1oel/uBa2/rYit/GOgiLTmu4HlWztY4ZLGbSLWfzigxj7U58xVY+i/KDgDgVzdh4r1HSYZoNMSyhgmDKySWEEzMhOdjO6FmXgcEnoKnW2t7n4cy3jwRrc2WopAkyLtZ0kR2If8AvYKDB6jJHpjnaH8T/rfUF8K/rbQuy6teTafJYtIotZLn7U0SRKq+ZjGRgcDBxgce1WpvFOsT/b/Muxu1FFS6dYUVpFUABdwGQvyjIBAOOc1oeAvDdn4p164stQknjjispbgGBgG3KBgcg8VV0nTrW68JeIL2eLdcWa25gfcRs3SbW4Bwcj1oAz9R1a91X7OdQlWZreJYUfy1DbFGAGYDLYHGWycVSoooAKKK2PFGkQaJrQs7V5HjNtbzZkIJzJErnoBxljj2oAx6KKKAP//Z)

1. The Container ID can be found to the left of the container image name

Tip: Only the first three digits need to be inputted when removing container

Example: <docker container rm d72>

1. Now, input <docker container run -d -p 8080:80 -v %cd%:/usr/share/nginx/html --name nginx-website nginx> into CLI to bind mount

Tip: For Linux, instead of <%cd%>, input <$(pwd)>

1. Create a folder
2. Open text editor, such as VS Code
3. Create file within Folder and name it “Index.html”
4. Input basic HTML boilerplate, as found below:

<https://github.com/jibraelp/docker/blob/main/index.html>

1. Save file
2. Go onto browser and input <localhost:8080>

*Creating a Dockerfile, Building and Pushing an image:*

1. Go on to text editor and create another file in previous folder
2. Name file “Dockerfile”
3. Go onto browser and use link below to access Dockerfile format

<https://github.com/jibraelp/docker/blob/main/Dockerfile2>

“FROM nginx: latest” ensures latest nginx update

WORKDIR: Working Directory

“COPY . .” copies all

1. Copy format and paste into file
2. Save Dockerfile and return to CLI
3. Input <docker push DOCKERUSERNAME/nginx-website .> to build image

Tip: Don’t forget the period after “website”

Example: <docker push jibraelp/nginx-website .>

1. Input <docker push jibraelp/nginx-website> to push image