## **CREATE IMAGE USING DOCKERFILE** docker build -t mynginxbuild:V2 -f Dockerfile2 **=** [ dot ] **DOCKERFILE OPTIONS, STRUCTURES & EFFICIENCIES - BASIC** REFER Dockerfile\_1 REFER Dockerfile 2 DOCKERFILE OPTIONS, STRUCTURES & EFFICIENCIES - ADD /COPY /ARG /ENV REFER Dockerfile\_3 COPY only works with files, whereas ADD works with URLs also. echo "This is our dockerfile index html" >index.html docker build -t="mycentosserv:v4" ■ [ dot ] elinks http://172.17.0.2 [ our html page is displayed here ] [root@ip-172-31-44-133 Dockerfiles]# docker ps --no-trunc $\hfill\square$ this gives the entire history of commands run to make this container. REFER Dockerfile\_4 docker build -t="mycentosserv:v4" ■ [ dot ] [root@ip-172-31-44-133 Dockerfiles]# docker run -it mycentosserv:v4 26 Now the Dockerfile only provides the count of file listing and nothing else. try to attach /bin/bash command with the docker run 🗆 🗆 [root@ip-172-31-44-133 Dockerfiles]# docker run -it mycentosserv:v4 /bin/bash we can see that the /bin/bash is IGNORED. because ENTRYPOINT cannot be overridden and the ENTRYPOINT has taken the control of the command line. HOW IMAGE LAYERS WORK [root@ip-172-31-44-133 Dockerfiles]# docker history myrepo/ubuntu:V1 IMAGE CREATED **CREATED BY** SIZE COMMENT /bin/sh -c #(nop) CMD ["/bin/bash"] 74f8760a2a8b 10 days ago 0B <missing> 10 days ago /bin/sh -c mkdir -p /run/systemd && echo 'do... 7B <missing> 10 days ago /bin/sh -c sed -i 's/^#\s\*\(deb.\*universe\)\$... 2.76kB /bin/sh -c rm -rf /var/lib/apt/lists/\* <missing> 10 days ago 10 days ago /bin/sh -c set -xe && echo '#!/bin/sh' > /... 745B <missing> 10 days ago /bin/sh -c #(nop) ADD file:5fabb77ea8d61e02d... 82.4MB --> The sum total of the size of <missing> individual layer should be the size of the entire image. $\Box$ Docker follows UNION FILE SYSTEM (several file systems overlayed together to form a single file system ] Modify an image to single layer

docker export eloquent\_bardeen > mycentosserv3.tar

Export and SAVE are NOT one and the same. export is always ONLY for container whereas SAVE is always ONLY for Image