Application Containerization and Orchestration Lab

Experiment 10

AIM: Working with .dockerignore

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```
[alpha@Akhands-MacBook-Pro R2142201498 % pwd
/Users/alpha/Desktop/college/ACOLAB/R2142201498
[alpha@Akhands-MacBook-Pro R2142201498 % ls
Assingement_2                        Exp6_500085043_Akhand.pdf
Dcokerfile                           Exp8_500085043_Akhand.pdf
EXP_DOC_FILES                        exp8kubernet
Exp2_500085043_Akhand.pdf            nginx
Exp3_500085043_Akhand.pdf            traingleClassification.pdf
Exp4_500085043_Akhand.pdf            ~$0085043_Akhand_pratap_Singh.docx
Exp5_500085043_Akhand.pdf
[alpha@Akhands-MacBook-Pro R2142201498 % mkdir docker_lab10
[alpha@Akhands-MacBook-Pro R2142201498 % cd dcoker_lab10
cd: no such file or directory: dcoker_lab10
[alpha@Akhands-MacBook-Pro R2142201498 % cd docker_lab10
[alpha@Akhands-MacBook-Pro docker_lab10 % touch Dockerfile
[alpha@Akhands-MacBook-Pro docker_lab10 % vi Dockerfile
[alpha@Akhands-MacBook-Pro docker_lab10 % vi Dockerfile
[alpha@Akhands-MacBook-Pro docker_lab10 % docker build -t myimg:1.0 .
Cannot connect to the Docker daemon at unix:///var/run/docker.sock. Is the docker daemon running?
alpha@Akhands-MacBook-Pro docker_lab10 % docker build -t myimg:1.0 .
[[+] Building 14.5s (8/9)
 => [internal] load build definition from Dockerfile                          0.0s
 => => transferring dockerfile: 105B                                          0.0s
 => [internal] load .dockerignore                                            0.0s
 => => transferring context: 2B                                             0.0s
 => [internal] load metadata for docker.io/library/alpine:latest            14.4s
 => [auth] library/alpine:pull token for registry-1.docker.io               0.0s
 => CANCELED [1/4] FROM docker.io/library/alpine@sha256:bc41182d7ef5ffc53a40b044e725193  0.0s
 => => resolve docker.io/library/alpine@sha256:bc41182d7ef5ffc53a40b044e725193bc10142a1  0.0s
 => => sha256:bc41182d7ef5ffc53a40b044e725193bc10142a1243f395ee852a8d97 1.64kB / 1.64kB  0.0s
 => => sha256:ed73e2bee79b3428995b16fce4221fc715a849152f364929cdccdc83db5f3 528B / 528B  0.0s
 => => sha256:a6215f271958c760a2975a6765016044115dbae4b90f414eba3a448a6 1.49kB / 1.49kB  0.0s
 => [internal] load build context                                           0.0s
 => => transferring context: 2B                                             0.0s
 => CACHED [2/4] RUN mkdir /app                                             0.0s
 => ERROR [3/4] COPY password.txt /app                                      0.0s
------
 > [3/4] COPY password.txt /app:
------
failed to compute cache key: "/password.txt" not found: not found
alpha@Akhands-MacBook-Pro docker_lab10 % vi password.txt
[alpha@Akhands-MacBook-Pro docker_lab10 % docker build -t myimg:1.0 .
[[+] Building 7.6s (9/9) FINISHED
 => [internal] load build definition from Dockerfile                         0.0s
 => => transferring dockerfile: 36B                                          0.0s
 => [internal] load .dockerignore                                           0.0s
 => => transferring context: 2B                                            0.0s
 => [internal] load metadata for docker.io/library/alpine:latest           2.6s
 => [internal] load build context                                          0.0s
 => => transferring context: 50B                                           0.0s
 => [1/4] FROM docker.io/library/alpine@sha256:bc41182d7ef5ffc53a40b044e725193bc10142a1  4.7s
 => => resolve docker.io/library/alpine@sha256:bc41182d7ef5ffc53a40b044e725193bc10142a1  0.0s
 => => sha256:9b18e9b68314027565b90ff6189d65942c0f7986da80df008b8431276 2.71MB / 2.71MB  4.5s
 => => sha256:bc41182d7ef5ffc53a40b044e725193bc10142a1243f395ee852a8d97 1.64kB / 1.64kB  0.0s
 => => sha256:ed73e2bee79b3428995b16fce4221fc715a849152f364929cdccdc83db5f3 528B / 528B  0.0s
 => => sha256:a6215f271958c760a2975a6765016044115dbae4b90f414eba3a448a6 1.49kB / 1.49kB  0.0s
 => => extracting sha256:9b18e9b68314027565b90ff6189d65942c0f7986da80df008b843127688521  0.1s
 => [2/4] RUN mkdir /app                                                    0.2s
 => [3/4] COPY password.txt /app                                            0.0s
 => [4/4] WORKDIR /app                                                      0.0s
 => exporting to image                                                      0.0s
```

```
alpha@Akhands-MacBook-Pro docker_lab10 % docker run myimg:1.0
[alpha@Akhands-MacBook-Pro docker_lab10 % docker run myimg:1.0 ls /app
[password.txt
 alpha@Akhands-MacBook-Pro docker_lab10 % ls
[Dockerfile
 Screenshot 2022-08-16 at 10.19.15 AM copy.png
 Screenshot 2022-09-08 at 12.50.52 PM copy.png
 Screenshot 2022-10-09 at 7.24.59 PM copy.png
 Screenshot 2022-10-19 at 12.05.45 PM copy.png
 password.txt
 alpha@Akhands-MacBook-Pro docker_lab10 % vi Dockerfile
[alpha@Akhands-MacBook-Pro docker_lab10 % docker run myimg:1.1 ls /app
[Unable to find image 'myimg:1.1' locally
 docker: Error response from daemon: pull access denied for myimg, repository does not exist or may require
 See 'docker run --help'.
 alpha@Akhands-MacBook-Pro docker_lab10 % docker build -t myimg:1.1 .
 [+] Building 4.3s (10/10) FINISHED
[ => [internal] load build definition from Dockerfile                             0.0s
 => => transferring dockerfile: 94B                                              0.0s
 => [internal] load .dockerignore                                               0.0s
 => => transferring context: 2B                                                 0.0s
 => [internal] load metadata for docker.io/library/alpine:latest                4.1s
 => [auth] library/alpine:pull token for registry-1.docker.io                   0.0s
 => [internal] load build context                                               0.1s
 => => transferring context: 3.04MB                                             0.1s
 => [1/4] FROM docker.io/library/alpine@sha256:bc41182d7ef5ffc53a40b044e725193bc10142a1  0.0s
 => CACHED [2/4] RUN mkdir /app                                                 0.0s
 => [3/4] COPY . /app                                                           0.0s
 => [4/4] WORKDIR /app                                                          0.0s
 => exporting to image                                                          0.0s
 => => exporting layers                                                         0.0s
 => => writing image sha256:2e052573710fb8a719817f1cef1e96b5ab740dc48e3387ce95aebbb4bbf  0.0s
 => => naming to docker.io/library/myimg:1.1                                    0.0s
 alpha@Akhands-MacBook-Pro docker_lab10 % docker run myimg:1.1 ls /app
 Dockerfile
[Screenshot 2022-08-16 at 10.19.15 AM copy.png
 Screenshot 2022-09-08 at 12.50.52 PM copy.png
 Screenshot 2022-10-09 at 7.24.59 PM copy.png
 Screenshot 2022-10-19 at 12.05.45 PM copy.png
 password.txt
 alpha@Akhands-MacBook-Pro docker_lab10 % echo password.txt >> .dcokerignore
 alpha@Akhands-MacBook-Pro docker_lab10 % docker build -t myimg:2.0 .
 [[+] Building 4.8s (10/10) FINISHED
[ => [internal] load build definition from Dockerfile                             0.0s
 => => transferring dockerfile: 36B                                             0.0s
 => [internal] load .dockerignore                                               0.0s
 => => transferring context: 59B                                                0.0s
 => [internal] load metadata for docker.io/library/alpine:latest                4.7s
 => [auth] library/alpine:pull token for registry-1.docker.io                   0.0s
 => [internal] load build context                                               0.0s
 => => transferring context: 234B                                               0.0s
 => [1/4] FROM docker.io/library/alpine@sha256:bc41182d7ef5ffc53a40b044e725193bc10142a1  0.0s
 => CACHED [2/4] RUN mkdir /app                                                 0.0s
 => [3/4] COPY . /app                                                           0.0s
 => [4/4] WORKDIR /app                                                          0.0s
 => exporting to image                                                          0.0s
 => => exporting layers                                                         0.0s
 => => writing image sha256:500448ca4fe30af1bdf389a9eee775cfd91a62b90c4e5eea3c466acf0eb  0.0s
 => => naming to docker.io/library/myimg:2.0                                    0.0s
 alpha@Akhands-MacBook-Pro docker_lab10 % docker run myimg:2.0 ls /app
 Dockerfile
```