

# ASSIGNMENT 1 (2)

## Team 4

```
workoff: command not found
(Kubernet env) kavana@kavana-Inspiron-5567:~/Desktop/Devops$ deactivate source
kavana@kavana-Inspiron-5567:~/Desktop/Devops$ docker build -t express:v0.1.0 -f Dockerfile
unable to prepare context: unable to evaluate symlinks in Dockerfile path: lstat /home/kavana/Desktop/Devops/Dockerfile: no such file or directory
kavana@kavana-Inspiron-5567:~/Desktop/Devops$ cd /home/kavana/Desktop/Devops/Docker
kavana@kavana-Inspiron-5567:~/Desktop/Devops/Docker$ docker build -t express:v0.1.0 -f Dockerfile
Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Post http://127.0.0.1:2375/v1.24/build?buildargs=%7B%7D&cachefrom=%5B%5D%3Aparent=%3Ccpu%3Acpuquota=86cpu%3Acpusetcpus=%3Cpush%3Apushshare=86dockerfile=Dockerfile&labels=%7B%7Dmemory=86memoryswap=86networkmode=default&rm=16shmsize=86t=express%3Av0.1.0star%3Aget%3Alimits=null&version=1: dial unix /var/run/docker.sock: connect: permission denied
kavana@kavana-Inspiron-5567:~/Desktop/Devops/Docker$ sudo chmod 666 /var/run/docker.sock
[sudo] password for kavana:
kavana@kavana-Inspiron-5567:~/Desktop/Devops/Docker$ docker build -t express:v0.1.0 -f Dockerfile
Sending build context to Docker daemon 4.096kB
Step 1/6 : FROM node:14
14: Pulling from library/node
1c05d83e138c: Pull complete
394ee19598bc: Pull complete
4b5f175d1abb: Pull complete
7885553ee256: Pull complete
4441204fc05e: Pull complete
606c05f39494: Pull complete
da02540c25e7: Pull complete
a9439c1f58e7: Pull complete
44a7f5b72c21: Pull complete
Digest: sha256:4164d987bfceb62b17db4938d535dd31fc50d6ee0b4e09ac7a774f82af408d48
Status: Downloaded newer image for node:14
---> da4ea2d80ba
Step 2/6 : WORKDIR /usr/src/app
---> Running in cda178b2a5cc
Removing intermediate container cda178b2a5cc
---> 5d8d2ff3183c
Step 3/6 : COPY package*.json ./
COPY failed: no source files were specified
Kavana@kavana-Inspiron-5567:~/Desktop/Devops/Docker$ cd /home/kavana/Desktop/Devops/app
Kavana@kavana-Inspiron-5567:~/Desktop/Devops/app$ docker build -t express:v0.1.0 -f Dockerfile
Sending build context to Docker daemon 196kB
Step 1/7 : FROM node:15.6.0
---> ebc7bb59a4bd
Step 2/7 : WORKDIR /usr/src/app
---> Using cache
---> 45d8bb51cf3a
Step 3/7 : COPY package*.json ./
---> Using cache
---> 542837489177
Step 4/7 : RUN npm ci --only=production
---> Using cache
---> e25767212ec
Step 5/7 : COPY . .
---> efa88f6789e7
Step 6/7 : USER node
---> Running in 50995a4d7f95
Removing intermediate container 50995a4d7f95
---> 894a99498e73
Step 7/7 : CMD ["node", "server.js"]
---> Running in 36e2cd2cf608
Removing intermediate container 36e2cd2cf608
---> d72d8c7cd9d
```

Visual Studio Code interface showing a terminal window with the following output:

```
---> d72da0c7cbd8
Successfully built d72da0c7cbd8
Successfully tagged express:v0.1.0
kavana@kavama-Inspiron-5567:~/Desktop/Devops/app$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
express              v0.1.0             d72da0c7cbd8       About a minute ago 1.13GB
47806916386.dkr.ecr.us-east-2.amazonaws.com/express        v0.1.0             fae52d075017       26 hours ago      1.13GB
<none>              latest            bd8ab31ecd1f       2 days ago         940MB
amazon/aws-cli       latest            f1dd711f6552       2 days ago         930MB
<none>              latest            8ea1840b0873       2 days ago         924MB
eb13e4b3fc49         2 days ago         913MB
ae99d9e751e7         2 days ago         913MB
6859ed9c7454         2 days ago         913MB
cel17fa269f49        2 days ago         924MB
2ca188b3383b         2 days ago         924MB
aa8ae074a80b         2 days ago         921MB
79e77039e03          2 days ago         910MB
785f4679158c         2 days ago         910MB
448ad6643ed1         2 days ago         910MB
1ed8ba3325d          2 days ago         921MB
fc293074e47e         2 days ago         914MB
ab8e74ee228d         2 days ago         914MB
f918fcd0b040         2 days ago         903MB
24f00312f661         2 weeks ago        903MB
db40ea2d08ea         3 weeks ago        944MB
14                   3 weeks ago        120MB
v1.21.3              3d174f0baa39       2 months ago       50.6MB
6be0dc1302e3         2 months ago       120MB
v1.21.3              bc2b319a703        2 months ago       103MB
v1.21.3              adb2816ea823        2 months ago       936MB
15.8.0               ebc1b5b0a4bd        7 months ago       683KB
3.4.1                0f8457a4c2ec        8 months ago       42.5MB
v1.8.0               296ad5035e2         11 months ago      253MB
3.4.13-0             0369cf4303ff        13 months ago      253MB
kavana@kavama-Inspiron-5567:~/Desktop/Devops/app$ docker run -d --rm -p 8080:8080 express:v0.1.0
9ee5932a7167fa8d5d069e7d7c6c08bd4e582bec546c5b9441479033dc2d0
kavana@kavama-Inspiron-5567:~/Desktop/Devops/app$ aws ecr get-login-password --region us-east-2 | docker login --username AWS --password-stdin 47806916386.dkr.ecr.us-east-2.amazonaws.com
WARNING! Your password will be stored unencrypted in /home/kavana/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
kavana@kavama-Inspiron-5567:~/Desktop/Devops/app$ docker tag express:v0.1.0 47806916386.dkr.ecr.us-east-2.amazonaws.com/express:v0.1.0
kavana@kavama-Inspiron-5567:~/Desktop/Devops/app$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
express              v0.1.0             d72da0c7cbd8       8 minutes ago      1.13GB
47806916386.dkr.ecr.us-east-2.amazonaws.com/express        v0.1.0             d72da0c7cbd8       8 minutes ago      1.13GB
<none>              latest            5d8d2ff3183c       11 minutes ago     944MB
47806916386.dkr.ecr.us-east-2.amazonaws.com/express        <none>             fae52d075017       26 hours ago      1.13GB
<none>              latest            bd8ab31ecd1f       2 days ago         940MB
amazon/aws-cli       latest            f1dd711f6552       2 days ago         930MB
Flask-kubernetes     latest            8ea1840b0873       2 days ago         924MB
eb13e4b3fc49         2 days ago         913MB
ae99d9e751e7         2 days ago         913MB
6859ed9c7454         2 days ago         913MB
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1ed8ba3325d          2 days ago         921MB
fc293074e47e         2 days ago         914MB
ab8e74ee228d         2 days ago         914MB
f918fcd0b040         2 days ago         903MB
24f00312f661         2 weeks ago        903MB
db40ea2d08ea         3 weeks ago        944MB
14                   3 weeks ago        120MB
v1.21.3              3d174f0baa39       2 months ago       50.6MB
6be0dc1302e3         2 months ago       120MB
v1.21.3              adb2816ea823        2 months ago       103MB
v1.21.3              bc2b319a703        2 months ago       936MB
15.8.0               ebc1b5b0a4bd        7 months ago       683KB
3.4.1                0f8457a4c2ec        8 months ago       42.5MB
v1.8.0               296ad5035e2         11 months ago      253MB
3.4.13-0             0369cf4303ff        13 months ago      253MB
```

Visual Studio Code interface showing a terminal window with the following output:

```
kavana@kavama-Inspiron-5567:~/Desktop/Devops/app$ aws ecr get-login-password --region us-east-2 | docker login --username AWS --password-stdin 47806916386.dkr.ecr.us-east-2.amazonaws.com
WARNING! Your password will be stored unencrypted in /home/kavana/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
kavana@kavama-Inspiron-5567:~/Desktop/Devops/app$ docker tag express:v0.1.0 47806916386.dkr.ecr.us-east-2.amazonaws.com/express:v0.1.0
kavana@kavama-Inspiron-5567:~/Desktop/Devops/app$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
express              v0.1.0             d72da0c7cbd8       8 minutes ago      1.13GB
47806916386.dkr.ecr.us-east-2.amazonaws.com/express        v0.1.0             d72da0c7cbd8       8 minutes ago      1.13GB
<none>              latest            5d8d2ff3183c       11 minutes ago     944MB
47806916386.dkr.ecr.us-east-2.amazonaws.com/express        <none>             fae52d075017       26 hours ago      1.13GB
<none>              latest            bd8ab31ecd1f       2 days ago         940MB
amazon/aws-cli       latest            f1dd711f6552       2 days ago         930MB
Flask-kubernetes     latest            8ea1840b0873       2 days ago         924MB
eb13e4b3fc49         2 days ago         913MB
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24f00312f661         2 weeks ago        903MB
db40ea2d08ea         3 weeks ago        944MB
14                   3 weeks ago        120MB
v1.21.3              3d174f0baa39       2 months ago       50.6MB
6be0dc1302e3         2 months ago       120MB
v1.21.3              adb2816ea823        2 months ago       103MB
v1.21.3              bc2b319a703        2 months ago       936MB
15.8.0               ebc1b5b0a4bd        7 months ago       683KB
3.4.1                0f8457a4c2ec        8 months ago       42.5MB
v1.8.0               296ad5035e2         11 months ago      253MB
3.4.13-0             0369cf4303ff        13 months ago      253MB
kavana@kavama-Inspiron-5567:~/Desktop/Devops/app$ docker push 47806916386.dkr.ecr.us-east-2.amazonaws.com/express:v0.1.0
The push refers to repository [47806916386.dkr.ecr.us-east-2.amazonaws.com/express]
76bae294c87a: pushed
61a7ccd38e00: Layer already exists
9308a41500c2: Layer already exists
d590e01f7c1b: Layer already exists
0977aef1c508: Layer already exists
a58d33b98965: Layer already exists
84d44ee07d1c: Layer already exists
9b88fe06b3b3: Layer already exists
4ca603ea46de: Layer already exists
621f04850201: Layer already exists
846bd2f3b210: Layer already exists
2b3e667f5e92: Layer already exists
```

Activities Visual Studio Code Sep 24 13:53 package.json - Devops - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER

- DEVOPS
- app
  - aws
  - lib
    - node\_modules
  - dockerignore
  - dockerfile
  - package-lock.json
  - package.json
  - server.js
- Docker
- Kubernetes
  - kubernetes\_env
- bin
  - activate
  - activate.sh
  - activate.fish
  - activate.ps1
  - easy\_install
  - easy\_install-3.9
  - pip
  - pip3
  - python
  - python3
  - python3.9
- include
  - lib
- lib64
- share
  - python3.9
- pyenv.cfg
- Virtual\_environment
  - demo.py
- package-lock.json

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
<none> 5d8d2ff3183c 11 minutes ago 944MB
470806916386.dkr.ecr.us-east-2.amazonaws.com/express <none> fae524075917 26 hours ago 1.13GB
<none> 009046c84999 46 hours ago 940MB
amazon/aws-cli latest bdbab31ecd1f 2 days ago 349MB
flask-kubernetes latest f1dd111f6552 2 days ago 939MB
<none> 8ea1840bd973 2 days ago 924MB
<none> eb19e4b3fc49 2 days ago 913MB
<none> aed99de721e7 2 days ago 913MB
<none> 6859ed9c7454 2 days ago 913MB
<none> ce17fa269f49 2 days ago 924MB
2ca18ab3303b 2 days ago 924MB
<none> aa8ae074a80b 2 days ago 921MB
<none> 79ed7b39e83 2 days ago 910MB
<none> 785f4679158c 2 days ago 910MB
<none> 448ad6643ed1 2 days ago 910MB
<none> jed86ba3325d 2 days ago 921MB
<none> fc293074ee47e 2 days ago 914MB
<none> a8be74ee228d 2 days ago 914MB
<none> f918fc0b0940 2 days ago 903MB
python 24f08321f661 2 weeks ago 903MB
node 14 db48ea2d08ea 3 weeks ago 944MB
K8s.gcr.io/kube-apiserver v1.21.3 3d174f08a339 2 months ago 120MB
K8s.gcr.io/kube-scheduler v1.21.3 6be0dc133023 2 months ago 59.6MB
K8s.gcr.io/kube-proxy v1.21.3 adb2816ea823 2 months ago 103MB
K8s.gcr.io/kube-controller-manager v1.21.3 bc26b319a783 2 months ago 120MB
node 15.0.0 ebcfb059a4bd 7 months ago 936MB
K8s.gcr.io/pause 3.4.1 0f84574ac2ec 8 months ago 683kB
K8s.gcr.io/coredns/coredns v1.8.0 296ae0d92562 11 months ago 42.5MB
K8s.gcr.io/etcd 3.4.13-0 0369cf4303ff 13 months ago 253MB

kavana@kavana-Inspiron-5567:~/Desktop/Devops/app$ docker push 470806916386.dkr.ecr.us-east-2.amazonaws.com/express:v0.1.0
The push refers to repository [470806916386.dkr.ecr.us-east-2.amazonaws.com/express]
76bac294c678: Pushed
61a7cdd38e00: Layer already exists
a380a412d9d2: Layer already exists
d59b001f7e15: Layer already exists
6977ae1c588: Layer already exists
a5b330d89d5: Layer already exists
84dd4de087df: Layer already exists
9b88fe0e5b35: Layer already exists
4c6d5ea46de: Layer already exists
601f04930201: Layer already exists
8460d2f3b216: Layer already exists
2b3ed67f5c22: Layer already exists
e891bee0c5982: Layer already exists
v0.1.0: digest: sha256:d491829fb54c90667bab57c6e7780ae26a6c10f76b5c267dfbe081c06afdda size: 3053
kavana@kavana-Inspiron-5567:~/Desktop/Devops/app$ cd .
bash: cd: too many arguments
kavana@kavana-Inspiron-5567:~/Desktop/Devops/app$ cd ..
cd: .. command not found
kavana@kavana-Inspiron-5567:~/Desktop/Devops/app$ cd ..
kavana@kavana-Inspiron-5567:~/Desktop/Devops/app$ kubectl apply -f /home/kavana/Desktop/Devops/app/k8s/1-express.yaml namespace/staging unchanged
service/express unchanged
kavana@kavana-Inspiron-5567:~/Desktop/Devops/app$ kubectl get pods -n staging
NAME READY STATUS RESTARTS AGE
express-7f457f6b96-sl82g 0/1 Pending 0 45m
express-7f457f6b96-nw22v 0/1 Pending 0 45m
kavana@kavana-Inspiron-5567:~/Desktop/Devops/app$
```

Python 3.9.5 64-bit (Kubernetes\_env: venv) 0.0.0 kubernetec-admin@kubernetec: default Un 1, Col 1 Spaces 2 UTF-8 LF JSON AWS (not connected)