Docker – Simple Java Application on Docker.

<https://www.youtube.com/watch?v=pg19Z8LL06w&t=588s>

**Build Custom Image**

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| 23 mkdir -p /tmp/docker/project1  24 cd /tmp/docker/project1  25 ll  26 vi server.js  27 mkdir src  28 mv server.js src/  29 ll  30 cd src  31 ll  32 vi package.json  33 vi Dockerfile  34 cd ..  35 node src/server.js  36 ll  37 cd src  39 cd ..  40 mv src/package.json .  41 mv src/Dockerfile .  42 ll  43 vi Dockerfile  44 node src/server.js  46 docker login #login to dockerhub account – sb@g/a...123  48 vi Dockerfile  49 docker build -t node-app:1.0 .  50 docker images  51 docker run -d -p 3000:3000 node-app:1.0  52 docker ps  53 curl http://localhost:3000  54 clear  55 curl http://localhost:3000  56 clear  57 docker ps  58 docker logs 0f7aa9d9652d  59 vi Dockerfile  60 curl http://localhost:3000 |
| **To push Images on DockerHub**  docker images  docker tag node-app sonalbirari/node-app  curl http://localhost:3000  clear  docker ps  docker tag node-app:1.0 sonalbirari/node-app  docker images  docker push sonalbirari/node-app |
| docker ps  2 docker diff sununtu ubuntu  3 docker diff subuntu ubuntu  4 docker diff subuntu  5 docker commit newsubuntu  6 docker commit subuntu  7 docker ps  8 docker images  9 docker commit subuntu newsubuntyimg  10 docker images  11 free  12 ll /tmp  13 docker run -it --name newubuntucont neesubuntyimg  17 docker images  18 docker run -it --name newcont newsununtyimg  19 docker run -it --name newcont newsununtyimg /bin/bash  20 docker run -it --name newcont newsubuntyimg  21 docker run -it --name newsoncont sonbuntuimg  22 mkdir /tmp/docker/project1  23 mkdir -p /tmp/docker/project1  24 cd /tmp/docker/project1  25 ll  26 vi server.js  27 mkdir src  28 mv server.js src/  29 ll  30 cd src  31 ll  32 vi package.json  33 vi Dockerfile  34 cd ..  35 node src/server.js  36 ll  37 cd src  38 ll  39 cd ..  40 mv src/package.json .  41 mv src/Dockerfile .  42 ll  43 vi Dockerfile  44 node src/server.js  45 npm install  46 docker login  47 npm login  48 vi Dockerfile  49 docker build -t node-app:1.0 .  50 docker images  51 docker run -d -p 3000:3000 node-app:1.0  52 docker ps  53 curl http://localhost:3000  54 clear  55 curl http://localhost:3000  56 clear  57 docker ps  58 docker logs 0f7aa9d9652d  59 vi Dockerfile  60 curl http://localhost:3000 |

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| Commonly used Docker Commands |
| docker images  docker ps  docker pull nginx  Creates Container from given image and starts it |
| Creates Container from given image and starts it   |  | | --- | | docker run nginx | |
| Runs Container in background and print container id -d Detach Do not block the terminal   |  | | --- | | docker run -d nginx | |
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docker ps

2 docker diff sununtu ubuntu

3 docker diff subuntu ubuntu

4 docker diff subuntu

5 docker commit newsubuntu

6 docker commit subuntu

7 docker ps

8 docker images

9 docker commit subuntu newsubuntyimg

10 docker images

11 free

12 ll /tmp

13 docker run -it --name newubuntucont neesubuntyimg

14 "dependencies": {

15 "express": "4.18.2"

16 }

17 docker images

18 docker run -it --name newcont newsununtyimg

19 docker run -it --name newcont newsununtyimg /bin/bash

20 docker run -it --name newcont newsubuntyimg

21 docker run -it --name newsoncont sonbuntuimg

22 mkdir /tmp/docker/project1

23 mkdir -p /tmp/docker/project1

24 cd /tmp/docker/project1

25 ll

26 vi server.js

27 mkdir src

28 mv server.js src/

29 ll

30 cd src

31 ll

32 vi package.json

33 vi Dockerfile

34 cd ..

35 node src/server.js

36 ll

37 cd src

38 ll

39 cd ..

40 mv src/package.json .

41 mv src/Dockerfile .

42 ll

43 vi Dockerfile

44 node src/server.js

45 npm install

46 docker login

47 npm login

48 vi Dockerfile

49 docker build -t node-app:1.0 .

50 docker images

51 docker run -d -p 3000:3000 node-app:1.0

52 docker ps

53 curl http://localhost:3000

54 clear

55 curl http://localhost:3000

56 clear

57 docker ps

58 docker logs 0f7aa9d9652d

59 vi Dockerfile

60 curl http://localhost:3000