

Отчет об установке докера и запуске статичного сайта или Node-приложения + BPR

Отчет об установке docker'a:

```
igor@DESKTOP-03B525J:~/labs$ docker --version
Docker version 20.10.17, build 100c701
igor@DESKTOP-03B525J:~/labs$ _
```

Содержимое приложения:

```
const express = require('express');
const res = require('express/lib/response');

// Constants
const PORT = 8080;

// App
const app = express();
app.get('/', (req, res) => {
  res.send('Hello World');
});

app.listen(PORT, () => {
  console.log("ITS WORKING");
})
```

Содержимое dockerfile:

```
FROM node:18

RUN mkdir -p /home/node/app/node_modules && chown -R node:node /home/node/app

WORKDIR /home/node/app

COPY package*.json ./

RUN npm install

COPY . .

EXPOSE 8080
CMD [ "node", "server.js" ]
```

Отчет о билде контейнера:

```
~/hspu/voy sudo docker build . -t igorvoy/docker-app
Sending build context to Docker daemon 50.69kB
Step 1/8 : FROM node:18
----> 372b746c33bc
Step 2/8 : RUN mkdir -p /home/node/app/node_modules && chown -R node:node /home/node/app
----> Using cache
----> 9bf1bf5d67a8
Step 3/8 : WORKDIR /home/node/app
----> Using cache
----> 3824b0079af1
Step 4/8 : COPY package*.json ./
----> Using cache
----> 940ad8a2cdad
Step 5/8 : RUN npm install
----> Using cache
----> dd8f2aa8fa92
Step 6/8 : COPY . .
----> 549c4619db76
Step 7/8 : EXPOSE 8080
----> Running in d349c030c12e
Removing intermediate container d349c030c12e
----> dd1218bfa391
Step 8/8 : CMD [ "node", "server.js" ]
----> Running in e0ebaa5e901b
Removing intermediate container e0ebaa5e901b
----> 6d5a9a662c2e
Successfully built 6d5a9a662c2e
Successfully tagged igorvoy/docker-app:latest
```

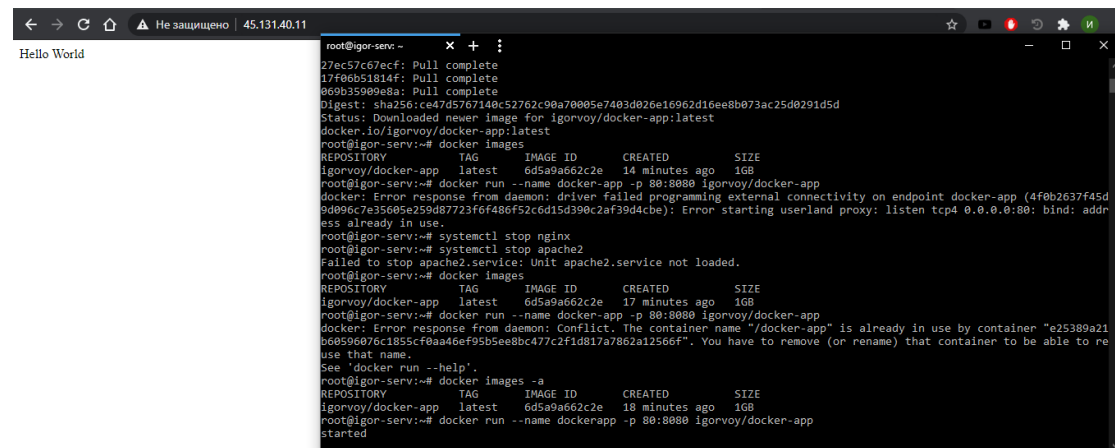
Пушим контейнер:

```
~/hspu/voy sudo docker push igorvoy/docker-app
Using default tag: latest
The push refers to repository [docker.io/igorvoy/docker-app]
e32b023b16ce: Pushing [=====] 51.2kB
58ae72cc7444: Preparing
d3e5808c778f: Preparing
dd254341f958: Preparing
b7fcd445d938: Preparing
2533cf1c85ad: Waiting
974fdac91463: Waiting
9e8a8e4e0b92: Waiting
2fbabeba902e: Waiting
ee509ed6e976: Waiting
9177197c67d0: Waiting
7dbadf2b9bd8: Waiting
e7597c345c2e: Waiting
```

На созданном в облаке сервере пуллим образ из хаба:

```
root@igor-serv:~# docker pull igorvoy/docker-app
Using default tag: latest
latest: Pulling from igorvoy/docker-app
e756f3fdd6a3: Pull complete
bf168a674899: Pull complete
e604223835cc: Pull complete
6d5c91c4cd86: Pull complete
2cc8d8854262: Pull complete
b8798d556362: Pull complete
e8b220cd71fa: Pull complete
ac6ecea6e097: Pull complete
b4d2266d5d6c: Pull complete
f4650eee5b45: Pull complete
27ec57c67ecf: Pull complete
17f06b51814f: Pull complete
069b35909e8a: Pull complete
Digest: sha256:ce47d5767140c52762c90a70005e7403d026e16962d16ee8b073ac25d0291d5d
Status: Downloaded newer image for igorvoy/docker-app:latest
docker.io/igorvoy/docker-app:latest
root@igor-serv:~#
```

Запускаем образ:



```
root@igor-serv: ~
Hello World

root@igor-serv:~# docker pull igorvoy/docker-app
Using default tag: latest
latest: Pulling from igorvoy/docker-app
e756f3fdd6a3: Pull complete
bf168a674899: Pull complete
e604223835cc: Pull complete
6d5c91c4cd86: Pull complete
2cc8d8854262: Pull complete
b8798d556362: Pull complete
e8b220cd71fa: Pull complete
ac6ecea6e097: Pull complete
b4d2266d5d6c: Pull complete
f4650eee5b45: Pull complete
27ec57c67ecf: Pull complete
17f06b51814f: Pull complete
069b35909e8a: Pull complete
Digest: sha256:ce47d5767140c52762c90a70005e7403d026e16962d16ee8b073ac25d0291d5d
Status: Downloaded newer image for igorvoy/docker-app:latest
docker.io/igorvoy/docker-app:latest
root@igor-serv:~# docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
igorvoy/docker-app  latest             6d5a9a662c2e       14 minutes ago     1GB
root@igor-serv:~# docker run --name docker-app -p 80:8080 igorvoy/docker-app
docker: Error response from daemon: driver failed programming external connectivity on endpoint docker-app (4f0b2637f45d9d0906c7e35605e259d87723f6f486f52c6d15d390c2af39d4cbe): Error starting userland proxy: listen tcp4 0.0.0.0:80: bind: address already in use.
root@igor-serv:~# systemctl stop nginx
root@igor-serv:~# systemctl stop apache2
Failed to stop apache2.service: Unit apache2.service not loaded.
root@igor-serv:~# docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
igorvoy/docker-app  latest             6d5a9a662c2e       17 minutes ago     1GB
root@igor-serv:~# docker run --name docker-app -p 80:8080 igorvoy/docker-app
docker: Error response from daemon: Conflict. The container name "/docker-app" is already in use by container "e25389a21b6099076c1855cf0aa46ef95b5ee8bc477c2f1d817a7862a12566f". You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.
root@igor-serv:~# docker images -a
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
igorvoy/docker-app  latest             6d5a9a662c2e       18 minutes ago     1GB
root@igor-serv:~# docker run --name dockeraapp -p 80:8080 igorvoy/docker-app
started
```