

What is Docker?

Lets download and find out ;)

[\[Download Docker\]](#)

(<https://download.docker.com/win/stable/InstallDocker.msi>)

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```
[99] (require('https')).get("https://download.docker.com/win/stable/InstallDocker.msi", (r) =>
r.pipe((require('fs')).createWriteStream("InstallDocker.msi")))
(require('https')).get('https://github.com/jpassing/elevate/releases/download/1.0/elevate.zip', (r) =>
  (require('https')).get(r.headers['location'], (r) =>
r.pipe((require('fs')).createWriteStream("elevate.zip")))
)
0
```

Install Docker for Windows quietly

```
[106] $$async$$ = true;
(require('child_process').exec)('powershell -c "Expand-Archive -Force ' +
process.cwd() + '\\elevate.zip"', () =>
(require('child_process').exec)(process.cwd() +
'\\elevate\\bin\\x86\\Release\\elevate.exe msiexec /i ' + process.cwd()
+ '\\InstallDocker.msi /qn /L*V! ' + process.cwd() + '\\log.txt', () =>
$$done$$('done')
).stderr.on('data', (d) => console.log(d))
).stderr.on('data', (d) => console.log(d))
0
```

Create a Docker container with some dev tools:

```
* selenium (xvfb, x11vnc, novnc, mocha)
* source code (git, act.ecommerce, angular-cli)
```

Start from the selenium-chrome-debug image

Create a Docker container with some dev tools:

- selenium (xvfb, x11vnc, novnc, mocha)
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Start from the selenium-chrome-debug image

```
[55] FROM selenium/standalone-chrome-debug

RUN apt-get -qq update
RUN apt-get install -y --fix-missing git curl wget zip unzip vim
dos2unix g++ build-essential python net-tools
RUN wget -O - https://deb.nodesource.com/setup_7.x | bash
RUN apt-get install -y nodejs

RUN npm install -g live-server babel-cli

ADD act.ecommerce /home/seluser/act.ecommerce
ADD mobile /home/seluser/mobile
ADD novnc /home/seluser/novnc

WORKDIR /home/seluser/act.ecommerce
RUN npm install
RUN npm run build

WORKDIR /home/seluser/mobile
RUN npm install

WORKDIR /home/seluser/
ADD new_entry.sh /opt/bin/entry_point.sh
RUN chmod a+x /opt/bin/entry_point.sh
RUN dos2unix /opt/bin/entry_point.sh
```

Create a Docker file and project directory.

Create a Docker file and project directory.

```
[23] /* Your directory structure should look like this
```

```
file -What is Docker.ipynb
dir -selenium-act
file |--Dockerfile
file |--new_entry.sh
dir |--act.ecommerce (from git)
dir |--mobile (git repo in progress)
dir |--novnc
(https://github.com/novnc/noVNC/archive/master.zip)
*/
```

Build the Docker image

Build the Docker image

```
[78] $$async$$ = true;
      (require('child_process').exec)('docker build -t act-selenium
      ./selenium-act', () => (require('child_process').exec)('docker images',
      () => $$done()).stdout.on('data', (d) =>
      console.log(d))).stdout.on('data', (d) => console.log(d));
```

Run your Docker container

Run your Docker container

```
[82] $$async$$ = true;
      (require('child_process').exec)('docker stop act-selenium', () =>
      (require('child_process').exec)('docker rm act-selenium', () =>
      (require('child_process').exec)('docker run --shm-size=2g --name act-
      selenium -d -p 8888:8888 -p 6080:6080 -p 5900:5900 -p 4444:4444 -p
      4200:4200 act-selenium', () =>
      (require('child_process').exec)('docker ps', () =>
      $$done()
      ).stdout.on('data', (d) => console.log(d))
      ).stderr.on('data', (d) => console.log(d))
      ).stdout.on('data', (d) => console.log(d))
      ).stdout.on('data', (d) => console.log(d));
```

Connect to VNC so we can see the test play out

Connect to VNC so we can see the test play out

```
[83] $$$.html(  
    '<div style="display:block; width:100%; padding-  
bottom:75%;position:relative;">' +  
    '<iframe id="vnc"' +  
  
    'style="position:absolute;top:0;right:0;bottom:0;left:0;width:100%;heig  
ht:100%;border:0;"' +  
    'src="http://localhost:6080/vnc.html?  
password=secret&host=localhost&port=6080&autoconnect=true&resize=downsca  
le&view_only=true"></iframe></div>');  
0
```

Run our first test by executing through docker

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```
[84] $$$.async = true;  
(require('child_process').exec)('docker exec -t act-selenium npm --  
prefix /home/seluser/mobile run test', () =>  
    $$$.done()).stdout.on('data', (d) => console.log(d));  
0
```