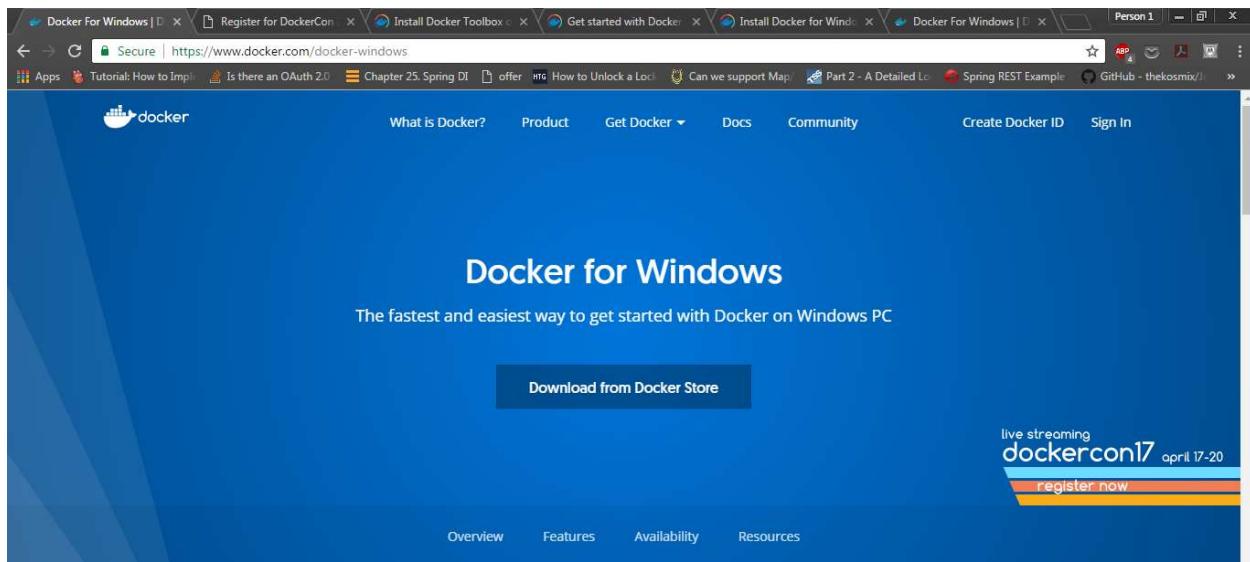


## Docker



https://store.docker.com/editions/community/docker-ce-desktop-windows

The screenshot shows the Docker Community Edition for Windows product page in the Docker Store. The URL in the address bar is https://store.docker.com/editions/community/docker-ce-desktop-windows?tab=description. The page features a product image of the Docker logo, the title "Docker Community Edition for Windows", and the subtitle "By Docker". Below this, a description states "The fastest and easiest way to get started with Docker on Windows PC". The "Categories" section includes a link to "Docker Community Editions". To the right, there's a sidebar with the heading "Get Docker Community Edition for Windows" and a note about the availability of Docker for Windows PC for free. It also mentions requirements for Microsoft Windows 10 Professional or Enterprise 64-bit and links to the "Docker Toolbox" and "Terms and Conditions". At the bottom, there are two buttons: "Get Docker" and "Usage Instructions". Below the sidebar, there are tabs for "DESCRIPTION", "REVIEWS", and "RESOURCES". The main content area contains a section titled "Docker CE for Windows" with a detailed description of the product.

Docker CE for Windows

Docker CE for Windows is Docker designed to run on Windows 10. It is a native Windows application that provides an easy-to-use development environment for building, shipping and running dockerized apps. Docker CE for Windows uses Windows-native Hyper-V virtualization and networking and is the fastest and most reliable way to develop Docker apps on Windows. Docker CE for Windows supports running both Linux and Windows Docker containers.

Docker For Windows | Docker Community Edit | Install Docker Toolbox | Get started with Docker | Install Docker for Windows | Docker For Windows | Person 1 |

Secure | https://store.docker.com/editions/community/docker-ce-desktop-windows?tab=description

Apps Tutorial: How to Imp... Is there an OAuth 2.0 Chapter 25. Spring DI offer How to Unlock a Lock Can we support Map... Part 2 - A Detailed Lo... Spring REST Example GitHub - thekosmix/...

Docker CE for Windows is Docker designed to run on Windows 10. It is a native Windows application that provides an easy-to-use development environment for building, shipping and running dockerized apps. Docker CE for Windows uses Windows-native Hyper-V virtualization and networking and is the fastest and most reliable way to develop Docker apps on Windows. Docker CE for Windows supports running both Linux and Windows Docker containers.

## Get Docker CE for Windows

<b>Stable channel</b>	<b>Edge channel</b>	<b>Edge (Windows Server 2016)</b>
This installer is fully baked and tested. This is the best channel to use if you want a reliable platform to work with.	This installer provides the latest Edge release of Docker for Windows and Engine, Docker for Windows Edge releases now provide experimental support for Windows Server 2016.	
Use this channel if you want to get experimental features faster, and can weather some instability and bugs. We collect all usage data on Edge releases across the board.	Use this installer to get the latest Edge releases on Windows Server 2016.	
These releases follow the Docker Engine stable releases.	Edge builds are released once per month.	You'll get the same Edge features as described for the standard installer, and on the same timeline.

**Get Docker CE for Windows (stable)** **Get Docker CE for Windows (Edge)** **Get Docker for Windows Server 2016 (Edge)**

### Install

Double-click `InstallDocker.msi` to run the installer.

When the installation finishes, Docker starts automatically. The whale icon in the notification area indicates that Docker is running, and accessible from a terminal.

### Run

Docker For Windows | Docker Community Edit | Install Docker Toolbox | Get started with Docker | Install Docker for Windows | Docker For Windows | Person 1 |

Secure | https://store.docker.com/editions/community/docker-ce-desktop-windows?tab=description

Apps Tutorial: How to Imp... Is there an OAuth 2.0 Chapter 25. Spring DI offer How to Unlock a Lock Can we support Map... Part 2 - A Detailed Lo... Spring REST Example GitHub - thekosmix/...

is running, and accessible from a terminal.

### Run

Open a command-line terminal like PowerShell, and try out some Docker commands!

Run `docker version` to check the version.

Run `docker run hello-world` to verify that Docker can pull and run images.

### Enjoy

Docker is available in any terminal as long as the Docker CE for Windows app is running. Settings are available on the UI, accessible from the Docker whale in the taskbar.

The screenshot shows the Docker for Windows Control Panel. On the left, there's a sidebar with options like 'Automatically start Docker when you log in', 'Experimental' (with 'VMS Compatibility mode'), and 'Manage shared drives...'. The main area is titled 'Network' with the sub-section 'Configure the way Docker interacts with the network'. It shows 'Internal Virtual Switch' settings: 'Subnet Address' is 10.0.7.0 and 'Gateway' is 10.0.7.1. Under 'DNS Server', 'Automatic' is selected. A note says 'Docker will restart after applying these settings'. On the right, a context menu is open with options like 'About Docker', 'Discover Docker Enterprise Edition', 'Settings...', 'Check for Updates...', 'Diagnose and Feedback...', 'Switch to Windows containers...', 'Docker Store', 'Documentation', 'Kitematic', and a 'Logout' section containing 'orangesnap', 'Swarms', 'Repositories', and 'Quit Docker'. Below the main content, there's a 'Documentation' section with links to the Docker for Windows documentation and 'Where to go next'.

**Documentation**

To learn more, read the [Docker for Windows documentation](#).

Be sure to check out [Where to go next](#) for links to labs and examples, and how to get started using swarm mode.

The screenshot shows the Docker Community Edition for Windows product page on the docker store. At the top, there's a navigation bar with 'Explore', 'Publish', 'Feedback?', 'Log In', 'Hub', 'Cloud', 'Legal', 'Home', and 'Swag'. The main content area has a dark header with the text 'Build, Ship, Run. An open platform for distributed applications for developers and sysadmins' and 'Copyright © 2017 Docker Inc. All rights reserved.' Below this, there's a large image of the Docker logo. The product title is 'Docker Community Edition for Windows' by Docker. A subtext says 'The fastest and easiest way to get started with Docker on Windows PC'. A 'Categories' link points to 'Docker Community Editions'. To the right, there's a section for 'Get Docker Community Edition for Windows' with a note that 'Docker for Windows PC is available for free.' It requires 'Microsoft Windows 10 Professional or Enterprise 64-bit'. A link to 'Docker Toolbox' is provided. A note states that by downloading, you agree to the 'Terms and Conditions'. There are 'Get Docker' and 'Usage Instructions' buttons. At the bottom, there are tabs for 'DESCRIPTION', 'REVIEWS', and 'RESOURCES'. The 'DESCRIPTION' tab is active, showing the heading 'Docker CE for Windows'. Below it, a note says 'Docker CE for Windows is Docker designed to run on Windows 10. It is a native Windows application that provides an'. A progress bar shows 'InstallDocker.msi' at 14.6/105 MB, 2 mins left. A 'Show all' button is in the top right corner.

**Docker Community Edition for Windows**

By Docker

The fastest and easiest way to get started with Docker on Windows PC

Categories: [Docker Community Editions](#)

Get Docker Community Edition for Windows

Docker for Windows PC is available for free.

Requires Microsoft Windows 10 Professional or Enterprise 64-bit. For previous versions get [Docker Toolbox](#).

By downloading this, you agree to the [Terms and Conditions](#)

[Get Docker](#) [Usage Instructions](#)

**DESCRIPTION** **REVIEWS** **RESOURCES**

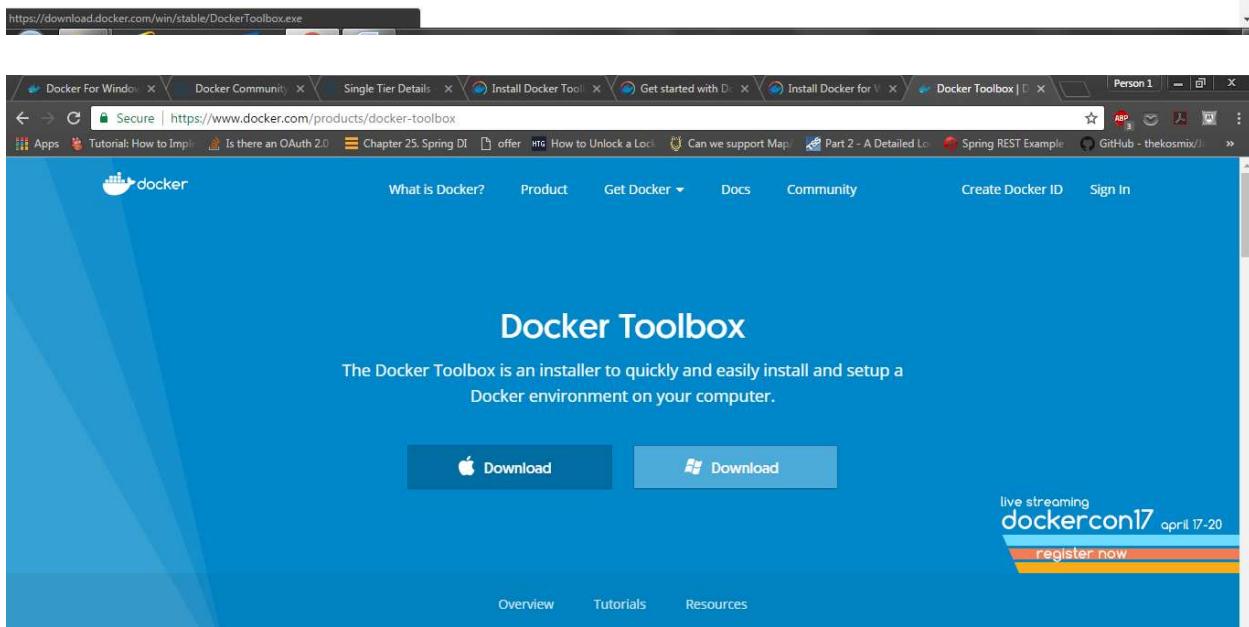
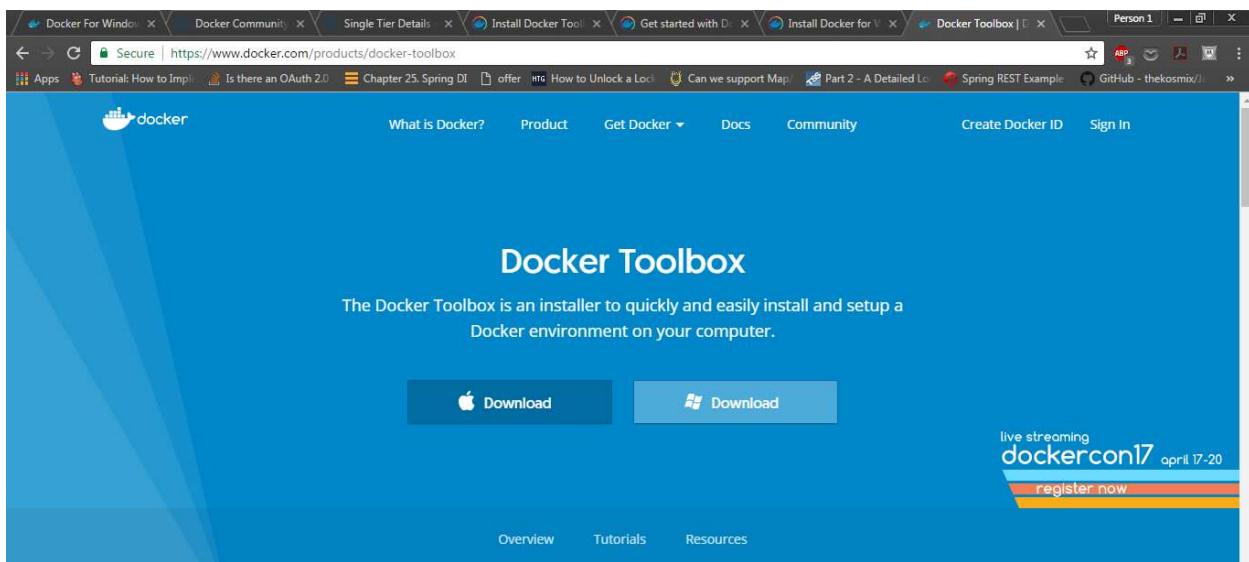
## Docker CE for Windows

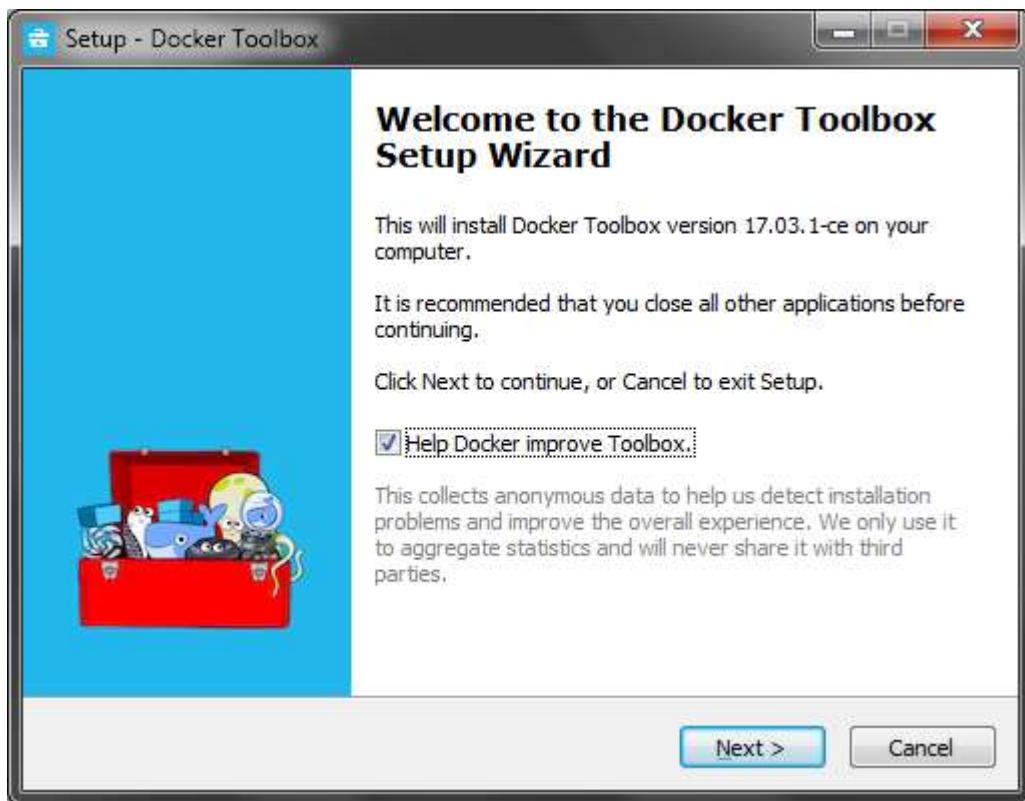
Docker CE for Windows is Docker designed to run on Windows 10. It is a native Windows application that provides an

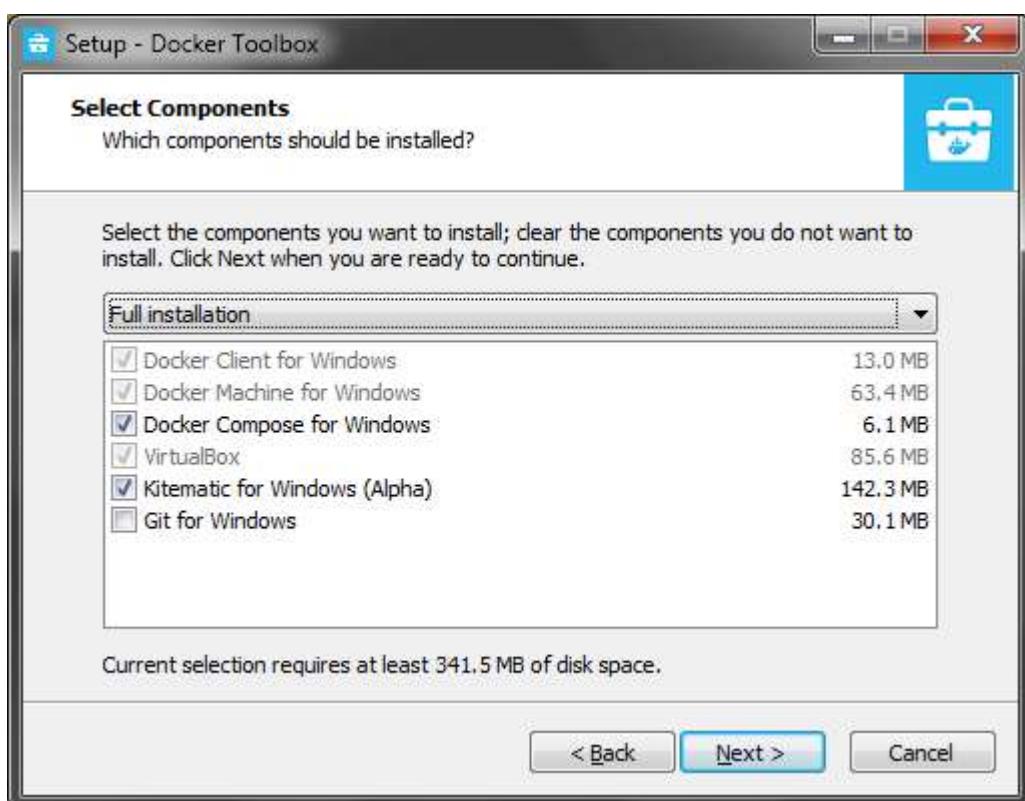
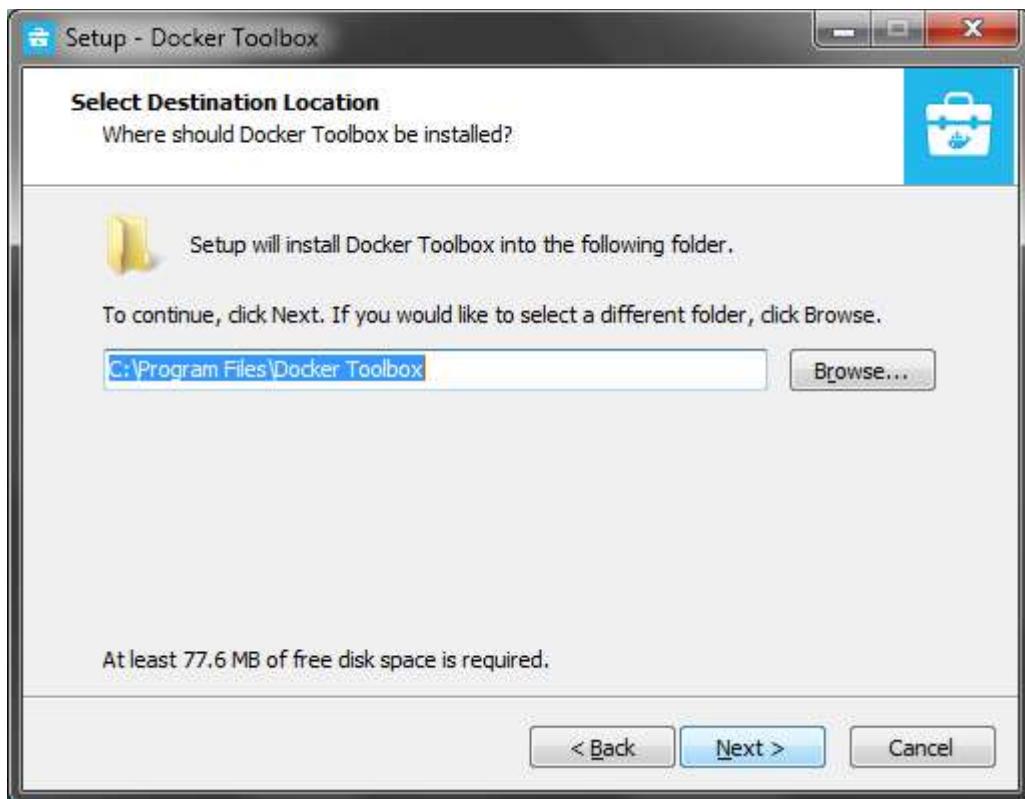
InstallDocker.msi  
14.6/105 MB, 2 mins left

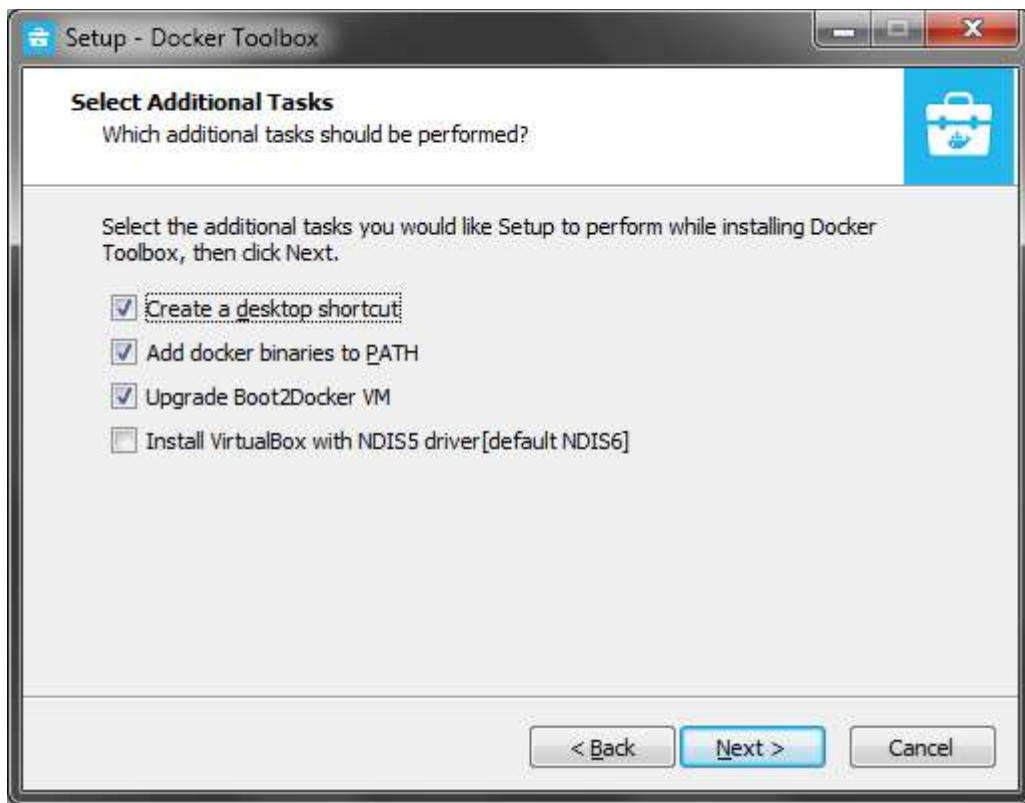
Show all

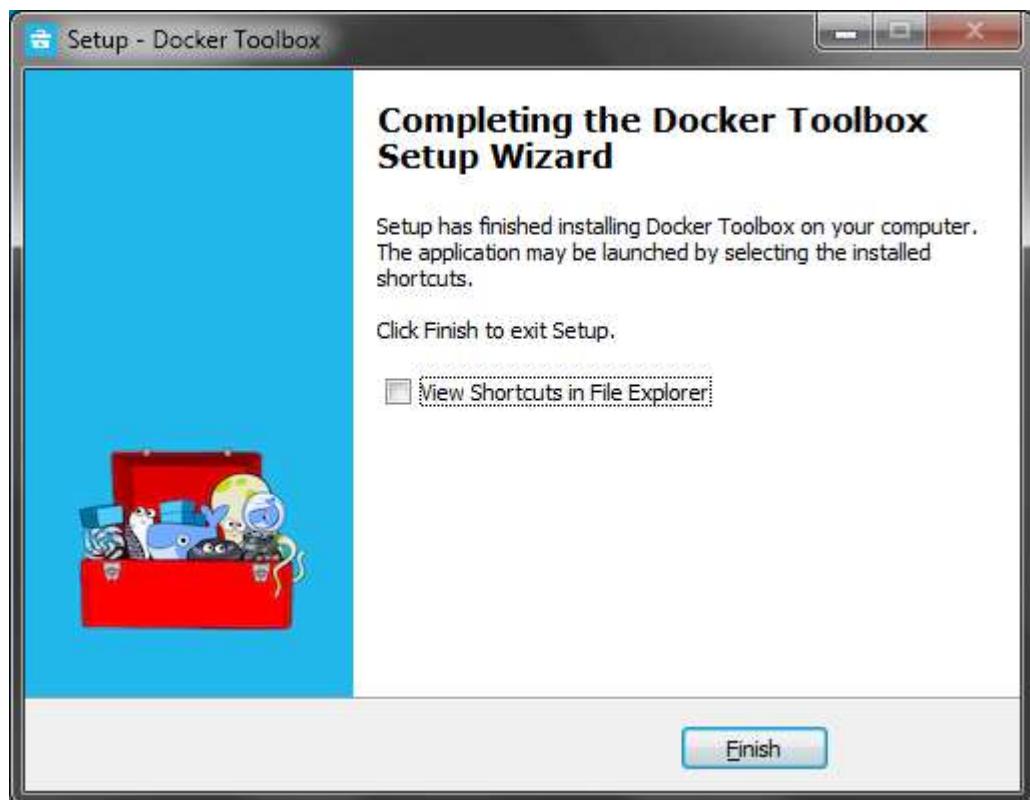












[https://docs.docker.com/toolbox/toolbox\\_install\\_windows/#step-3-verify-your-installation](https://docs.docker.com/toolbox/toolbox_install_windows/#step-3-verify-your-installation)

Welcome to Docker Cloud!

Let's get you familiarized with the central concepts of Docker Cloud.

Cloud registry   Continuous integration   Swarm deployment   Teams & Organizations

Cloud registry

Create and share private image repositories securely with your teams, or make them public to share them with the entire community.

When should I use the Cloud Registry?

[To create public or private image repositories](#)

[To set up an Automated Build for repositories](#)

```
Docker Quickstart Terminal
Creating client certificates at C:\Users\krishna\.docker\machine\certs\ca.pem
Creating client certificate at C:\Users\krishna\.docker\machine\certs\cert.pem
Running pre-create checks...
(default) Image cache directory does not exist, creating it at C:\Users\krishna\.docker\machine\cache...
(default) No default Boot2Docker ISO found locally, downloading the latest release...
(default) Latest release for github.com/boot2docker/boot2docker is v17.04.0-ce
(default) Downloading C:\Users\krishna\.docker\machine\cache\boot2docker.iso from https://github.com/boot2docker/boot2docker/releases/download/v17.04.0-ce/boot2docker.iso...
(default) 0%...10%...20%...30%...40%...50%...60%...70%...80%...90%...100%
Creating machine...
(default) Copying C:\Users\krishna\.docker\machine\cache\boot2docker.iso to C:\Users\krishna\.docker\machine\machines\default\boot2docker.iso...
(default) Creating SSH key...
(default) Starting the VM...
(default) Check network to re-create if needed...
(default) Windows might ask for the permission to create a network adapter. Sometimes, such confirmation window is minimized in the taskbar.
(default) Windows might ask for the permission to create a network adapter. Only the host adapter can be used.
(default) Windows might ask for the permission to configure a network adapter. Sometimes, such confirmation window is minimized in the taskbar.
(default) Windows might ask for the permission to configure a dhcp server. Sometimes, such confirmation window is minimized in the taskbar.
```

```
MINGW64/c/Users/krishna
Creating CA: C:\Users\krishna\.docker\machine\certs\ca.pem
Creating client certificate: C:\Users\krishna\.docker\machine\certs\cert.pem
Machine state is checks...
(Default) Image cache directory does not exist, creating it at C:\Users\krishna\.docker\machine\cache...
(Default) No default Boot2Docker ISO found locally, downloading the latest release...
(Default) Latest release for github.com/boot2docker/boot2docker is v17.04.0-ce
(Default) Downloading C:\Users\krishna\.docker\machine\cache\boot2docker.iso from https://github.com/boot2docker/boot2docker/releases/download/v17.04.0-ce/boot2docker.iso...
(Default) 10%...20%...30%...40%...50%...60%...70%...80%...90%...100%
Creating machine...
(Default) Copying C:\Users\krishna\.docker\machine\cache\boot2docker.iso to C:\Users\krishna\.docker\machine\machines\default\boot2docker.iso...
(Default) Creating VirtualBox UM...
(Default) Creating SSH key...
(Default) Creating host...
(Default) Check network to re-create if needed...
(Default) Windows might ask for the permission to create a network adapter. Sometimes, such confirmation window is minimized in the taskbar.
(Default) Found a new host-only adapter: VirtualBox Host-Only Ethernet Adapter #2
(Default) Windows might ask for the permission to configure a network adapter. Sometimes, such confirmation window is minimized in the taskbar.
(Default) Windows might ask for the permission to configure a dhcp server. Sometimes, such confirmation window is minimized in the taskbar.
(Default) Waiting for an IP...
Waiting for machine to be running, this may take a few minutes...
Detecting operating system of created instance...
Machine is ready! IP: 192.168.99.100
Detacting the provisioner...
Provisioning with boot2docker...
Copying certs to the local machine directory...
Copying certs to the remote machine...
Starting Docker container on the remote daemon...
Checking connection to Docker...
Docker is up and running!
To see how to connect your Docker Client to the Docker Engine running on this virtual machine, run: C:\Program Files\Docker Toolbox\docker-machine.exe env default


```

The screenshot shows a web browser displaying the Docker documentation at [https://docs.docker.com/toolbox/toolbox\\_install\\_windows/#looking-for-troubleshooting-help](https://docs.docker.com/toolbox/toolbox_install_windows/#looking-for-troubleshooting-help). The page is titled "Looking for troubleshooting help?" and provides instructions for troubleshooting the Docker Toolbox installation.

**Instructions:**

- Type the `docker run hello-world` command and press RETURN.

The command does some work for you, if everything runs well, the command's output looks like this:

```
$ docker run hello-world
Unable to find image 'hello-world:latest' locally
Pulling repository hello-world
91c95931e552: Download complete
a8219747be10: Download complete
Status: Downloaded newer image for hello-world:latest
Hello from Docker.

This message shows that your installation appears to be working correctly.
```

To generate this message, Docker took the following steps:

1. The Docker Engine CLI client contacted the Docker Engine daemon.
2. The Docker Engine daemon pulled the "hello-world" image from the Docker Hub. (Assuming it was not already locally available.)
3. The Docker Engine daemon created a new container from that image which runs the executable that produces the output you are currently reading.
4. The Docker Engine daemon streamed that output to the Docker Engine CLI client, which sent it to your terminal.

To try something more ambitious, you can run an Ubuntu container with:

```
$ docker run -it ubuntu bash
```

For more examples and ideas, visit: <https://docs.docker.com/userguide/>

**On this page:**

- [Edit this page](#)
- [Request docs changes](#)
- [Get support](#)

**Step 1: Check your version**

**Step 2: Install Docker Toolbox**

**Step 3: Verify your installation**

**Looking for troubleshooting help?**

- [How to uninstall Toolbox](#)
- [Next Steps](#)

```
MINGW64/c/Users/krishna
krishna@krishna-PC MINGW64 ~
$ docker run hello-world
time="2017-04-17T20:34:12+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
78445b3e5256: Pull complete
Digest: sha256:c551c72d4e1e39e9c4392f6c5a9d29b5e97e6f927b07d05f6d12a1ac8d
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
3. The Docker daemon created a new container from that image which runs the
   executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
   to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://cloud.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/engine/userguide/"

krishna@krishna-PC MINGW64 ~
$ -
```

```
MINGW64/c/Users/krishna/Dockerwork
krishna@krishna-PC MINGW64 ~
Share images, automate workflows, and more with a free Docker ID:
https://cloud.docker.com/
For more examples and ideas, visit:
https://docs.docker.com/engine/userguide/"

krishna@krishna-PC MINGW64 ~
$ docker --version
bash: docker: command not found
krishna@krishna-PC MINGW64 ~
$ docker --version
time="2017-04-17T20:35:18+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Docker version 17.03.1-ce, build c6d412e
krishna@krishna-PC MINGW64 ~
$ docker run hello-world
time="2017-04-17T20:35:55+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
3. The Docker daemon created a new container from that image which runs the
   executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
   to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

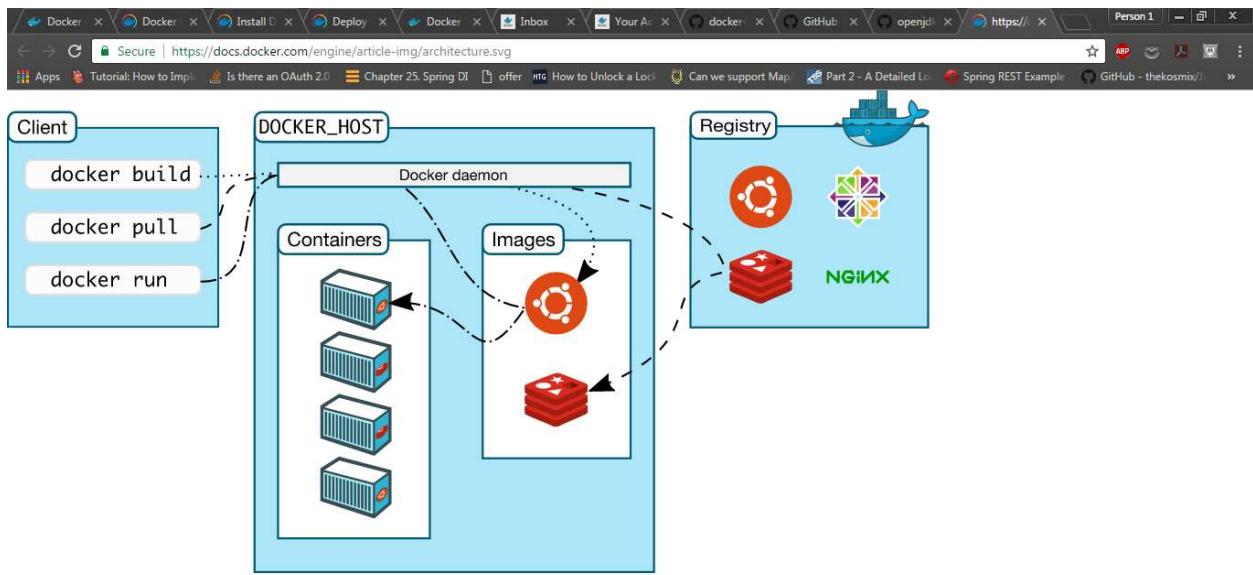
Share images, automate workflows, and more with a free Docker ID:
https://cloud.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/engine/userguide/"

krishna@krishna-PC MINGW64 ~
$ pwd
/c/users/krishna
krishna@krishna-PC MINGW64 ~
$ cd Dockerwork
krishna@krishna-PC MINGW64 ~/Dockerwork
$ -
```

<https://docs.docker.com/engine/docker-overview/>

<https://docs.docker.com/machine/get-started/>



<https://github.com/docker-library>

```

MINGW64:/c/Users/krishna/Dockerwork/docker-alpine
$ docker COMMAND --help* for more information on a command.

krishna@Krishna-PC MINGW64 ~/Dockerwork
$ docker ps
time="2017-04-17T20:47:05+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
krishna@Krishna-PC MINGW64 ~/Dockerwork
$ cd Dockerfile
krishna@Krishna-PC MINGW64 ~/Dockerwork/docker-alpine
$ touch Dockerfile
krishna@Krishna-PC MINGW64 ~/Dockerwork/docker-alpine
$ cd ..
krishna@Krishna-PC MINGW64 ~/Dockerwork
$ ls -l
total 0
drwxr-xr-x 1 krishna 197121 0 Apr 18 01:34 docker-alpine/
drwxr-xr-x 1 krishna 197121 0 Apr 18 01:26 docker-java-helloworld/
krishna@Krishna-PC MINGW64 ~/Dockerwork
$ cd docker-alpine/
krishna@Krishna-PC MINGW64 ~/Dockerwork/docker-alpine
$ ls -l
total 0
krishna@Krishna-PC MINGW64 ~/Dockerwork/docker-alpine
$ touch Dockerfile
krishna@Krishna-PC MINGW64 ~/Dockerwork/docker-alpine
$ vi Dockerfile
krishna@Krishna-PC MINGW64 ~/Dockerwork/docker-alpine
$
```

```
MINGW64/c/Users/krishna/Dockerwork/docker-alpine
FROM alpine
HTTP://WWW.YOUTUBE.COM/watch?v=hnxI-Ki0auY
MAINTAINER <name> is deprecated
CMD ["echo", "Hello, Welcome to docker from alpine linux"]

F:/Dockerwork/docker-alpine/Dockerfile[+] [unix] <01:35 18/04/2017> 6.54 ALL
-- INSERT --
```

```
Select MINGW64/c/Users/krishna/Dockerwork/docker-alpine
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine
$ docker build
time="2017-04-18T01:56:06+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Sending build context to Docker daemon 2.048 kB
Step 1/3 : FROM alpine
latest: Pulling from library/alpine
627heaf3e05a: Pull complete
Digest: sha256:53a11bbf4b1b5a23a462dd5e291527ea86438c3f105138f97eb53149673c4
Status: Downloaded newer image for alpine:latest
--> 4a415e36638b
Step 2/3 : MAINTAINER Vijay Konduru "konduruvijaykumar@gmail.com"
--> 1b4e5e193581
--> ff81024be9f3
Removing intermediate container 1b4e5e193581
Step 3/3 : CMD echo Hello, Welcome to docker from alpine linux
--> 53dc2814270a
--> 53dc2814270a
Removing intermediate container 62a93f8ff381
Successfully built 53dc2814270a
SECURITY WARNING: You are building a Docker image from Windows against a non-Windows Docker host. All files and directories added to build context will have '-rwxr-xr-x' permissions. It is recommended to double check and reset permissions for sensitive files and directories.

krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine
$ docker images
time="2017-04-18T01:56:59+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
REPOSITORY          TAG      IMAGE ID      CREATED        SIZE
<none>              1b4e5e193581   53dc2814270a   50 seconds ago   3.99 MB
alpine              latest   4a415e36638b   6 weeks ago    3.99 MB
hello-world         latest   48b5124b2768   3 months ago   1.84 kB

krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine
$ docker _
```

```
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine
$ docker build .
time="2017-04-18T01:56:06+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Sending build context to Docker daemon 2.048 kB
Step 1/3 : FROM alpine
latest: Pulling from library/alpine
530c2814270a: Pulling...
Digest: sha256:58e1a1bb75dh1h5a24a462dd5e291527ea06438c3f105138f97eb53149673c4
Status: Downloaded newer image for alpine:latest
-> 4a415e366388
Step 2/3 : MAINTAINER Vijay Konduru "konduruwijaykumar@gmail.com"
-> Running in 1b4e5e193581
--> ff81024be9f3
Removing intermediate container 1b4e5e193581
Step 3/3 : CMD echo Hello, Welcome to docker from alpine linux
-> 530c2814270a
-> 530c2814270a
Removing intermediate container 62a93f8ff381
Successfully built 530c2814270a
SECURITY WARNING: You are building a Docker image from Windows against a non-Windows Docker host. All files and directories added to build context will have '-rwxr-xr-x' permissions. It is recommended to double check and reset permissions for sensitive files and directories.
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine
$ docker images
REPOSITORY          TAG           IMAGE ID            CREATED             SIZE
<none>              <none>        530c2814270a   50 seconds ago   3.99 MB
alpine               latest        4a415e366388   6 weeks ago       3.99 MB
hello-world          latest        4865124b2768   3 months ago      1.84 kB
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine
$ docker run --name alpine-linux-helloworld 530c2814270a
time="2017-04-18T02:00:50+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Hello, Welcome to docker from alpine linux
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine
$
```

```
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine
$ docker build .
time="2017-04-18T01:56:06+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Sending build context to Docker daemon 2.048 kB
Step 1/3 : FROM alpine
latest: Pulling from library/alpine
530c2814270a: Pulling...
Digest: sha256:58e1a1bb75dh1h5a24a462dd5e291527ea06438c3f105138f97eb53149673c4
Status: Downloaded newer image for alpine:latest
-> 4a415e366388
Step 2/3 : MAINTAINER Vijay Konduru "konduruwijaykumar@gmail.com"
-> Running in 1b4e5e193581
--> ff81024be9f3
Removing intermediate container 1b4e5e193581
Step 3/3 : CMD echo Hello, Welcome to docker from alpine linux
-> 530c2814270a
-> 530c2814270a
Removing intermediate container 62a93f8ff381
Successfully built 530c2814270a
SECURITY WARNING: You are building a Docker image from Windows against a non-Windows Docker host. All files and directories added to build context will have '-rwxr-xr-x' permissions. It is recommended to double check and reset permissions for sensitive files and directories.
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine
$ docker images
REPOSITORY          TAG           IMAGE ID            CREATED             SIZE
<none>              <none>        530c2814270a   50 seconds ago   3.99 MB
alpine               latest        4a415e366388   6 weeks ago       3.99 MB
hello-world          latest        4865124b2768   3 months ago      1.84 kB
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine
$ docker run --name alpine-linux-helloworld 530c2814270a
time="2017-04-18T02:00:50+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Hello, Welcome to docker from alpine linux
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine
$ docker images
time="2017-04-18T02:02:00+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
REPOSITORY          TAG           IMAGE ID            CREATED             SIZE
<none>              <none>        530c2814270a   5 minutes ago     3.99 MB
alpine               latest        4a415e366388   6 weeks ago       3.99 MB
hello-world          latest        4865124b2768   3 months ago      1.84 kB
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine
$ docker ps
time="2017-04-18T02:06:42+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
alpine-linux-helloworld
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine
$
```

C:\Users\krishna\Dockernow\docker-alpine-scriptfile - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

App.java    x HelloWorld.java    x Dockerfile — docker-alpine-scriptfile    x script.sh    x

```
1 FROM alpine
2
3 # https://www.youtube.com/watch?v=hnxi-K10auY
4 # MAINTAINER <name> is deprecated
5 # MAINTAINER Vijay Konduru "konduruvijaykumar@gmail.com"
6
7 COPY script.sh /script.sh
8
9 # CMD ["echo", "Hello, Welcome to docker from alpine linux!"]
10 CMD ["/script.sh"]
11
```

MINGW64:/c/Users/krishna/Dockernow/docker-alpine-scriptfile

#!/bin/bash

# https://forums.docker.com/t/getting-panic-panic-standard-init-linux-go-178-exec-user-process-caused-no-such-file-or-directory-red-while-running-the-docker-image/2731

8/4

echo hello world, from a script file!

"~/Dockernow/docker-alpine-scriptfile/script.sh" [dos] 02:53 18/04/2017

5.2 all

```

krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker build -t alpine-linux-scriptfile .
time="2017-04-18T02:34:43+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
standard_init_linux.go:178: exec user process caused "exec format error"
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker run --name alpine-linux-scriptfile
time="2017-04-18T02:35:00+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ echo hello world, from a script file!
hello world, from a script file!
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker build -t alpine-linux-scriptfile .
time="2017-04-18T02:36:52+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Sending build context to Docker daemon 3.072 kB
Step 1/3 : FROM alpine
--> 4a415e36638b
Step 2/3 : COPY script.sh /script.sh
--> f2138a130de9
Removing intermediate container 2b00edc24fe7
Step 3/3 : CMD /script.sh
--> Running in a3820c13ahf6
--> a3820c13ahf6
Removing intermediate container a3820c13ahf6
Successfully built a3820c13ahf6
SECURITY WARNING: You are building a Docker image from Windows against a non-Windows Docker host. All files and directories added to build context will have '-rwxr-xr-x' permissions. It is recommended to double check and reset permissions for sensitive files and directories.
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker run --name alpine-linux-scriptfile
time="2017-04-18T02:38:06+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
alpine-linux-scriptfile
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker run --name alpine-linux-scriptfile
time="2017-04-18T02:38:14+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
standard_init_linux.go:178: exec user process caused "no such file or directory"
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker run --name alpine-linux-scriptfile
time="2017-04-18T02:38:42+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
alpine-linux-scriptfile
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ 

```

```

Select MINGW64/c/Users/krishna/Dockerwork/docker-alpine-scriptfile
-> 95a5cdaf3d2
Removing intermediate container cd9eb82c9faf
Step 3/3 : CMD /script.sh
--> Running in 31b378999
--> 39f29a428517
Removing intermediate container 80311b378999
Successfully built 39f29a428517
SECURITY WARNING: You are building a Docker image from Windows against a non-Windows Docker host. All files and directories added to build context will have '-rwxr-xr-x' permissions. It is recommended to double check and reset permissions for sensitive files and directories.
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker run --name alpine-linux-scriptfile
time="2017-04-18T02:46:46+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
standard_init_linux.go:178: exec user process caused "no such file or directory"
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker run --name alpine-linux-scriptfile
time="2017-04-18T02:46:58+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
alpine-linux-scriptfile
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ vi Dockerfile
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ vi script.sh
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ vi script.sh
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ vi script.sh
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker build
time="2017-04-18T02:54:34+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Sending build context to Docker daemon 3.072 kB
Step 1/3 : FROM alpine
--> 4a415e36638b
Step 2/3 : COPY script.sh /script.sh
--> Running in b9f041f7c045
Removing intermediate container b9f041f7c045
Step 3/3 : CMD /script.sh
--> Running in 1001iehfcchc
Removing intermediate container 1001iehfcchc
Successfully built 1001iehfcchc
SECURITY WARNING: You are building a Docker image from Windows against a non-Windows Docker host. All files and directories added to build context will have '-rwxr-xr-x' permissions. It is recommended to double check and reset permissions for sensitive files and directories.
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker run --name alpine-linux-scriptfile
time="2017-04-18T02:55:04+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
standard_init_linux.go:178: exec user process caused "no such file or directory"
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ not working.

```

```

MINGW64/c/Users/krishna/Dockerwork/docker-alpine-scriptfile
$ ./bin/sh
# https://forums.docker.com/t/getting-panic-panic-standard-init-linux-go-178-exec-user-process-caused-no-such-file-or-directory-err-while-running-the-docker-image/2731
8/4
echo hello world, from a script file

```

Dockerwork> docker-alpine-scriptfile/script.sh (dos) <02:57 18/04/2017>
script.sh (dos) 5L, 22C

```

MINGW64/c/Users/krishna/Dockerwork/docker-alpine-scriptfile
time="2017-04-18T02:54:34+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Sending build context to Docker daemon 3.072 kB
Step 1/3 : FROM alpine
--> 4a415e366388
Step 2/3 : COPY script.sh /script.sh
--> 0043c07ab454
Removing intermediate container cbc2a2155792d
Step 3/3 : CMD /script.sh
--> b9f041f7c045
Running in b9f041f7c045
1001:1001:b9f041f7c045
Removing intermediate container b9f041f7c045
Successfully built 1001:1001:b9f041f7c045
SECURITY WARNING: You are building a Docker image from Windows against a non-Windows Docker host. All files and directories added to build context will have '-rwxr-xr-x' permissions. It is recommended to double check and reset permissions for sensitive files and directories.

krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker build -t alpine-linux-scriptfile .
time="2017-04-18T02:55:04+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
standard_init_linux.go:178: exec user process caused "no such file or directory"

krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker run -it alpine-linux-scriptfile
time="2017-04-18T02:56:22+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
alpine-linux-scriptfile

krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ vi script.sh
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker build .
time="2017-04-18T02:57:46+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Sending build context to Docker daemon 3.072 kB
Step 1/3 : FROM alpine
--> 4a415e366388
Step 2/3 : COPY script.sh /script.sh
--> 58da2372d8ef
Removing intermediate container a046c41707f4
Step 3/3 : CMD /script.sh
--> Running in 3ee0250f34de
80bd857b4bfd
Successfully built 80bd857b4bfd
SECURITY WARNING: You are building a Docker image from Windows against a non-Windows Docker host. All files and directories added to build context will have '-rwxr-xr-x' permissions. It is recommended to double check and reset permissions for sensitive files and directories.

krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker run --name alpine-linux-scriptfile 80bd857b4bfd
time="2017-04-18T02:58:13+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
standard_init_linux.go:178: exec user process caused "no such file or directory"

krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ 
```

<https://forums.docker.com/t/how-to-remove-none-images-after-building/7050/6>

```

MINGW64:/c/Users/krishna/Dockerwork/docker-alpine-scriptfile
top      Display the running processes of a container
unpause  Unpause all processes within one or more containers
update   Update configuration of one or more containers
version   Show the Docker version information
wait     Block until one or more containers stop, then print their exit codes

Run 'docker COMMAND --help' for more information on a command.

krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker build -rm
'docker build' requires exactly 1 argument(s).
See 'docker build --help'.

Usage: docker build [OPTIONS] PATH | URL | -
Build an image from a Dockerfile

krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker build -rm=true
'docker build' requires exactly 1 argument(s).
See 'docker build --help'.

Usage: docker build [OPTIONS] PATH | URL | -
Build an image from a Dockerfile

krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker images -f "dangling=true" -q
time="2017-04-18T03:04:38+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
000005794bf4
10011ebfcbbc
39f29a428517
a382bc13abf5
cd274fe8ed45
55000ed0dd0e
55000ed0dd0e
55000ed0dd0e
530c2814279a
alpine      latest          4a415e366388   6 weeks ago    3.99 MB
hello-world latest          48h5124b2768   3 months ago   1.84 kB

krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker rmi
'docker rmi' requires at least 1 argument(s).
See 'docker rmi --help'.

!!!
```

```

MINGW64:/c/Users/krishna/Dockerwork/docker-alpine-scriptfile
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker images
time="2017-04-18T03:04:48+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
REPOSITORY      TAG      IMAGE ID      CREATED        SIZE
<none>        <none>      80hd857b4bf4    7 minutes ago   3.99 MB
<none>        <none>      10011ebfcbbc   10 minutes ago  3.99 MB
<none>        <none>      39f29a428517   18 minutes ago  3.99 MB
<none>        <none>      a382bc13abf5   28 minutes ago  3.99 MB
<none>        <none>      cd274fe8ed45   31 minutes ago  3.99 MB
<none>        <none>      55000ed0dd0e   53 minutes ago  3.99 MB
<none>        <none>      530c2814279a   About an hour ago 3.99 MB
alpine      latest          4a415e366388   6 weeks ago    3.99 MB
hello-world latest          48h5124b2768   3 months ago   1.84 kB

krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker rmi
'docker rmi' requires at least 1 argument(s).
See 'docker rmi --help'.

Usage: docker rmi [OPTIONS] IMAGE [IMAGE...]
Remove one or more images

krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker rmi $docker images -f "dangling=true" -q
time="2017-04-18T03:06:15+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
time="2017-04-18T03:06:15+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Deleted: sha256:10043c97ab454fa5f47e352bc3b3b67e8bec9a994484f3a1f4bb7731302919bc
Deleted: sha256:39f29a42851739499514879a7af98c7291923f827e31516e54c83480f5b9
Deleted: sha256:795a55cdf32a27794a5f14ddc8a7a51e6949ed38c76291f0e238h41b383a16b
Deleted: sha256:aefababd6ab44687eeec586f30572c8ff6b94b3a0dfbdhc4d57bae4c71d2b
Deleted: sha256:a382bc13abf53967a28996416b67a7a13aa2a391842c093e3dada3f2cc054cf
Deleted: sha256:c274fe8ed4510043c97ab454fa5f47e352bc3b3b67e8bec9a994484f3a1f4bb7731302919bc
Deleted: sha256:83fadf30b524acc2295fe2a175cedaa096477ccache2e6c6723ab44d3715b8d
Deleted: sha256:c274fe8ed45989ea91de1e153ec9a493146c7f7fa5a92b5a099f3864cb57eecd
Deleted: sha256:a39eda79bbcc426a97a3e6d31a29f33100660d7551c94b9268bb8ad98398703
Deleted: sha256:530c2814279a7e3e6d31a29f33100660d7551c94b9268bb8ad98398703
Deleted: sha256:530c2814279a7e3e6d31a29f33100660d7551c94b9268bb8ad98398703
Error response from daemon: conflict: unable to delete 80hd857b4bf4 (must be forced) - image is being used by stopped container 24a5b85342d0
Error response from daemon: conflict: unable to delete 55000ed0dd0e (must be forced) - image is being used by stopped container 59346174ccb7

krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ 
!!!
```

Fix for script file not working use “dos2unix” tool on windows and convert “script.sh”

```

krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
<none> <none> d1160c6d411 4 minutes ago 3.99 MB
<none> <none> 8f904fd407 18 minutes ago 3.99 MB
<none> <none> 554008e0dd0e about an hour ago 3.99 MB
alpine latest 4a415e36e388 6 weeks ago 3.99 MB
hello-world latest 48h5124h2768 3 months ago 1.84 kB

krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker run -i $docker images -f "dangling=true" -q
time="2017-04-18T03:29:33+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
time="2017-04-18T03:29:33+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Deleted: sha256:d1160c6d4111008f904fd4074a415e36e38844d131f3494b
Deleted: sha256:f3d9b14889c17107bca30284ba5a29c1794a4011609c842313109dc35e30facb
Deleted: sha256:8h462f6d1b7fa369bba92462740396fd298710256ba08634d4cc55947c284
Deleted: sha256:297aae059a665193dea294cf3711die1180118a096f2d7516h20f65ee6456e
Deleted: sha256:3f39a2468203f31373032a2e47980f7303def103
Error response from daemon: conflict: unable to delete 554008e0dd0e (must be forced) - image is being used by stopped container 59346174c6b7

krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
<none> <none> 554008e0dd0e about an hour ago 3.99 MB
alpine latest 4a415e36e388 6 weeks ago 3.99 MB
hello-world latest 48h5124h2768 3 months ago 1.84 kB

krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker build
Step 1/2 : COPY script.sh /script.sh
--> 4a415e366388
Step 2/3 : CMD /script.sh
--> e8812ac4a49a
Step 3/3 : FROM alpine
--> e31fdeaceac1
Successfully built e31fdeaceac1
SECURITY WARNING: You are building a Docker image from Windows against a non-Windows Docker host. All files and directories added to build context will have '-rwxr-xr-x' nd directories.

krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ docker run --name alpine-script e31fdeaceac1
time="2017-04-18T03:34:34+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
hello world, from a script file!
krishna@krishna-PC MINGW64 ~/Dockerwork/docker-alpine-scriptfile
$ "

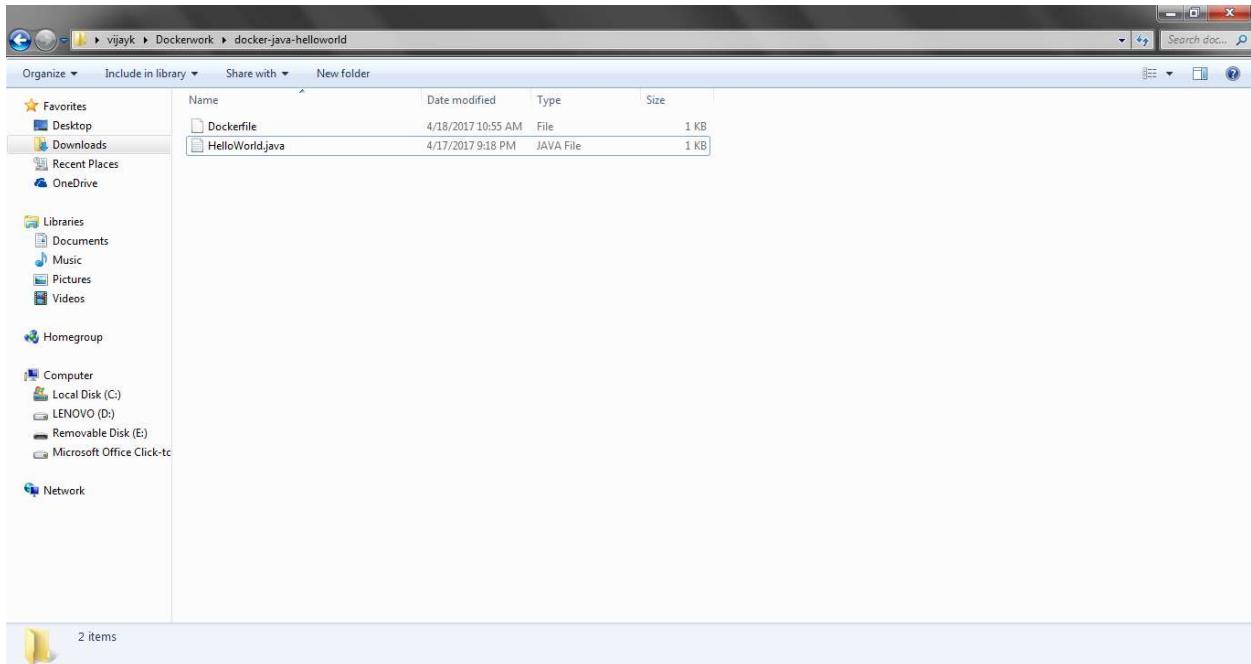
```

<https://forums.docker.com/t/getting-panic-panic-standard-init-linux-go-178-exec-user-process-caused-no-such-file-or-directory-red-while-running-the-docker-image/27318/11>

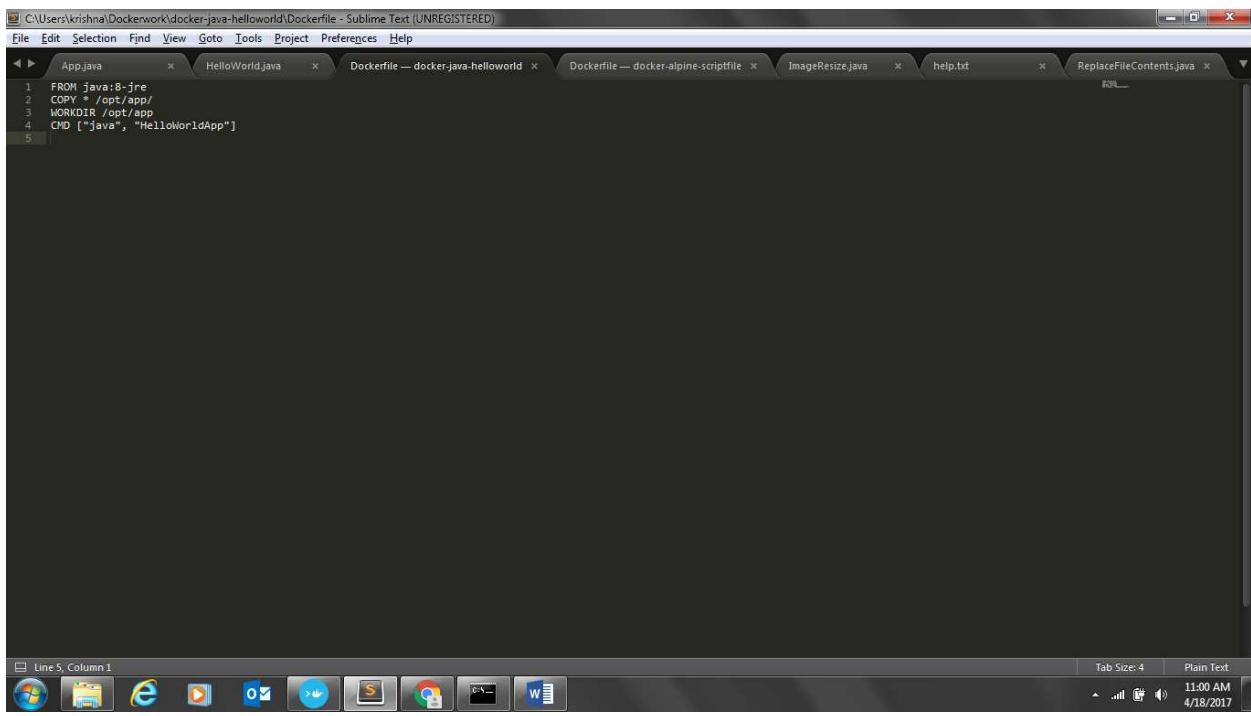
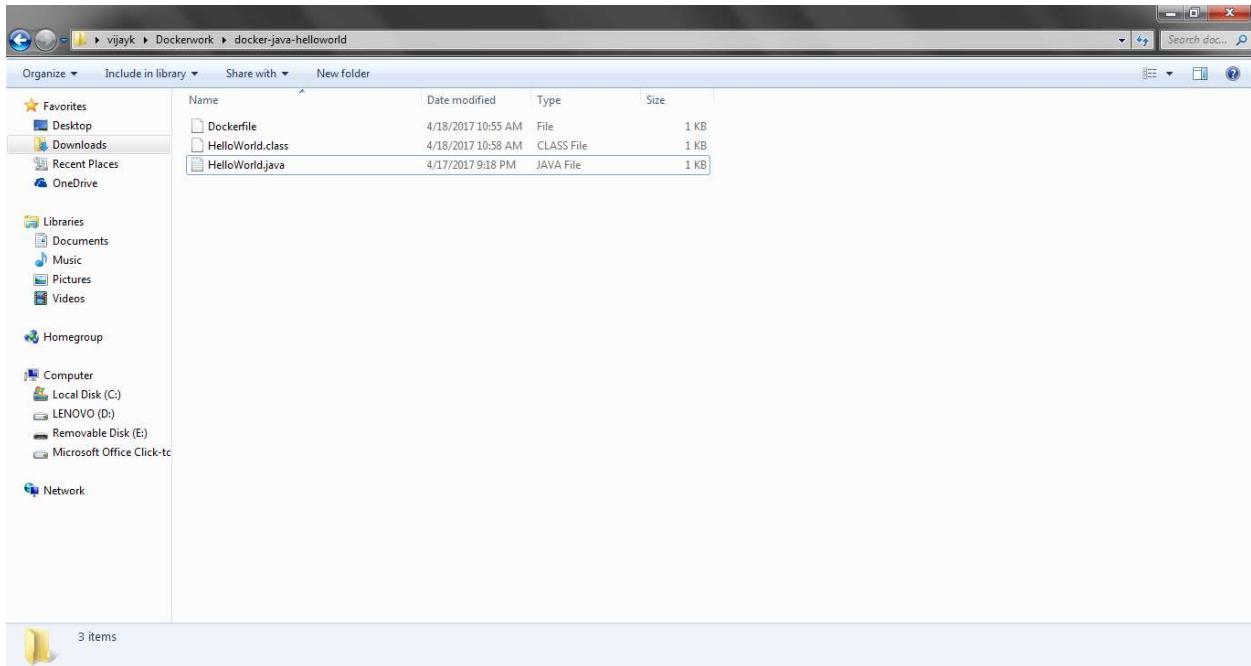
<https://docs.docker.com/engine/reference/builder/>

## Java Hello World Example

<https://github.com/stevenalexander/docker-java8-helloworld>



```
on C:\windows\system32\cmd.exe
C:\Users\krishna\Dockernwork\docker-java-helloworld>javac HelloWorld.java
C:\Users\krishna\Dockernwork\docker-java-helloworld>java HelloWorld
Hello! Welcome to Docker World
C:\Users\krishna\Dockernwork\docker-java-helloworld>
```



```
MINGW64:/c/Users/krishna
  ## ## ## ## ===
  ~~~~ <----> ~~~~ ===
      \   /   /
       \ /   /
        o   o
        \_ /_/
          \_/_/
          ===

Docker is configured to use the default machine with IP 192.168.99.199
For help getting started, check out the docs at https://docs.docker.com

Start interactive shell
krishna@krishna-PC MINGW64 ~
$ docker build --help
time="2017-04-18T10:56:41+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Usage: docker build [OPTIONS] PATH | URL | -
Build an image from a Dockerfile

Options:
--build-arg list           Set build-time variables (default [])
--cache-from string$slice  Images to consider as cache sources
--cgroupparent string      Optional parent cgroup for the container
--compress                  Compress the build context using gzip
--cpu-period int            Limit the CPU CFS (Completely Fair Scheduler) period
--cpu-quota int             Limit the CPU CFS (Completely Fair Scheduler) quota
--cpu-shares int            CPU shares (relative weight)
--cpuset-cpus string        CPUs in which to allow execution (0-3, 0.1)
--cpuset-mems string        Mem. nodes on which to execute (0-1, 0.1)
--distributable-content-trust Name of the Dockerfile (Default is 'PATH/Dockerfile')
--file string               Name of the Dockerfile (Default is 'PATH/Dockerfile')
--force-rm                  Always remove intermediate containers
--help                      Print usage
--isolation string          Container isolation technology
--label list                 Set metadata for an image (default [])
--memory string              Memory limit
--memory-swap string         Swap limit equal to memory plus swap; '-1' to enable unlimited swap
--network string             Set network mode for the container
--no-cache                  Do not use cache when building the image
--pull                      Always attempt to pull a newer version of the image
--quiet                     Suppress the build output and print image ID on success
--rm                        Remove intermediate containers after a successful build (default true)
--run                        Run command in a new container
--security-opt string$slice  Size of /dev/shm, default value is 64MB
--shm-size string             Name and optionally a tag in the 'name:tag' format (default '')
--tag list                   Limit options (default [])
--ulimit ulimit              Ulimit options (default [])

krishna@krishna-PC MINGW64 ~
$ docker build -t java-helloworld .
time="2017-04-18T10:59:03+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
unable to prepare context: unable to evaluate symlinks in Dockerfile path: GetFileAttributesEx C:\Users\krishna\dockerfile: The system cannot find the file specified.
krishna@krishna-PC MINGW64 ~
$
```

I think I have made a mistake running from a wrong folder, even FROM java:8-jre might also work and class file name to execute using java cmd is wrong. So it is not working

The screenshot shows a GitHub repository page for `docker-library/openjdk`. The specific branch is `openjdk/8-jre at 445f8b8`. The code tab is active, displaying a commit history:

- A commit by `tianon` titled "Run update.sh for 9-b155-1, 8u121-b13-1-bpo8+1 (with ca-certs 2016110...)" was made 3 months ago.
- A commit by `alpine` titled "Revert Alpine 3.5 upgrade in 7 and 8 (leaving 9 on Alpine 3.5)" was made 3 months ago.
- A commit by `Dockerfile` titled "Run update.sh for 9-b155-1, 8u121-b13-1-bpo8+1 (with ca-certs 2016110...)" was made 2 months ago.

The screenshot shows a Sublime Text window with multiple tabs open. The active tab is 'Dockerfile - docker-java-helloworld'. The code in the tab is:

```
FROM openjdk:8-jre
COPY * /opt/app/
WORKDIR /opt/app
CMD ["java", "HelloWorldApp"]
```

```
MINGW64:/c/Users/krishna/Dockerwork/docker-java-helloworld$ cd Dockerwork/docker-java-helloworld
krishna@Krishna-PC MINGW64 ~
$ docker build -t java-helloworld
time="2017-04-18T11:02:45+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Sending build context to Docker daemon 4.096 kB
Step 1/1: FROM openjdk:8-jre
8: Pulling from library/openjdk
6db27a3def358: Pull complete
2726297beaf1: Pull complete
d6e4b951652: Pull complete
a1f4dd4a1: Pull complete
0e180c2298d: Pull complete
6a770cb43281: Extracting [=====] 42.89 MB/53.59 MB
01ffd08a71c8: Download complete
```

```
MINGW64:/c/Users/krishna/Dockerwork/docker-java-helloworld
krishna@krishna-PC MINGW64 ~
$ cd Dockerwork/docker-java-helloworld
krishna@krishna-PC MINGW64 ~"/Dockerwork/docker-java-helloworld"
$ docker build -t java-helloworld
time="2017-04-18T11:02:45+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Step 1/4 : FROM openjdk:8-jre
Step 1/4 :  Pulling from library/openjdk
6db27a3ef358: Full complete
2726297beaf1: Full complete
1f0e03a2a23a: Full complete
ef624a6eb798: Full complete
0e109cc2208d: Full complete
6a779bc64281: Full complete
016f090a71ca: Full complete
Digest: sha256:3447f4a22159fffd891ba6326523cb20c11c1d0c12826c2cb21468e5fb5294
Status: Downloaded newer image for openjdk:8-jre
    --> b8ce7cab8ed3
Step 2/4 : COPY ./opt/app/
Removing intermediate container 71ffc4a41696
Step 3/4 : WORKDIR /opt/app
    --> 080b0b742f9a8
Removing intermediate container d61842b03661
Step 4/4 : EXPOSE 8080
    --> Running in e8521e1fb98e
    --> a185c1edfa21
Removing intermediate container e8521e1fb98e
Status: Created [1.0s]
SECURITY WARNING: You are building a Docker image from Windows against a non-Windows Docker host. All files and directories added to build context will have '-rwxr-xr-x' reset permissions for sensitive files and directories.
krishna@krishna-PC MINGW64 ~"/Dockerwork/docker-java-helloworld"
$ -
```

```
MINGW64:/c/Users/krishna/Dockerwork/docker-java-helloworld
krishna@krishna-PC MINGW64 ~
$ --privileged
--publish list
--publish-all
--read-only
--restart string
--rm
--runtime string
--stop-signal string
--stop-opt list
--sig-proxy
--stop-timeout int
--stop-port list
--sysctl map
--tmpfs list
-t, --tty
-u, --uid uint
-u, --user string
-u, --users string
-ut, --uts string
-v, --volume list
--volume-from string
--volumes-from list
-w, --workdir string
Give extended privileges to this container
Publish a container's port(s) to the host (default [])
Publish all exposed ports to random ports
Mount a directory or file system as read only
Restart policy to apply when a container exits (default "no")
Automatically remove the container when it exits
Runtime to use for this container
Stop signal (default "SIGTERM")
Size of /dev/shm, default value is 64MB
Proxy received signals to the process (default true)
Signal to stop a container, 15 by default (default "15")
Timeout (in seconds) to stop a container
Stop a container when its parent container exits (default [])
Sysctl options (default map[])
Mount a tmpfs directory (default [])
-tty
Allocate a pseudo-terminal
UID or GID to run as (default [])
Username or UID (Format: <name>:uid[:<group>:gid])
User namespace to use
UTS namespace to use
Bind mount a volume (default [])
Optional path to mount the container
Mount volumes from the specified container(s) (default [])
Working directory inside the container
krishna@krishna-PC MINGW64 ~"/Dockerwork/docker-java-helloworld"
$ docker images
time="2017-04-18T11:08:05+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
REPOSITORY          TAG      IMAGE ID            CREATED             SIZE
java-helloworld   latest   a185c1edfa21        About a minute ago   310 MB
alpine              latest   4a15c366388       6 weeks ago        3.99 MB
openjdk             8-jre    b8ce7cab8ed3       3 weeks ago        310 MB
alpine              latest   48h512452768       3 months ago       1.84 kB
krishna@krishna-PC MINGW64 ~"/Dockerwork/docker-java-helloworld"
$ docker run a185c1edfa21
time="2017-04-18T11:08:58+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Error: Could not find or load main class HelloWorldApp
krishna@krishna-PC MINGW64 ~"/Dockerwork/docker-java-helloworld"
$ docker run -it -v ./my-running-app:java-helloworld
time="2017-04-18T11:09:57+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
time="2017-04-18T11:09:58+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Error: Could not find or load main class HelloWorldApp
See 'C:\Program Files\Docker Toolbox\docker.exe run --help'.
krishna@krishna-PC MINGW64 ~"/Dockerwork/docker-java-helloworld"
$ docker run a185c1edfa21
time="2017-04-18T11:10:37+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Error: Could not find or load main class HelloWorldApp
krishna@krishna-PC MINGW64 ~"/Dockerwork/docker-java-helloworld"
$ -
```

A screenshot of the Sublime Text editor showing a file named 'Dockerfile'. The code in the file is:

```
FROM openjdk:8-jre
COPY * /opt/app/
WORKDIR /opt/app
CMD ["java", "HelloWorld"]
```

The word 'HelloWorld' in the 'CMD' command has been corrected from 'HelloWorldd'.

## Corrected class name in CMD for execution

A screenshot of a terminal window titled 'MINGW64' showing the output of a Docker build command:

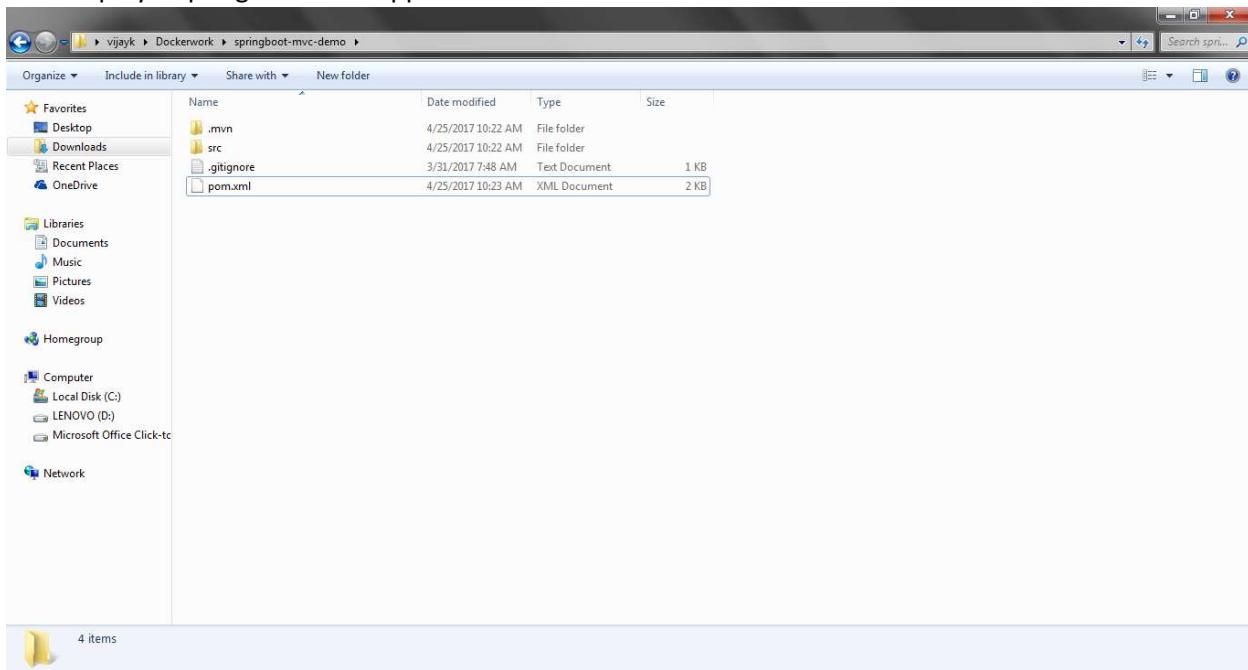
```
krishna@Krishna-PC MINGW64 ~% Dockerwork/docker-java-helloworld
$ docker build -t java-helloworld .
time="2017-04-18T11:13:29+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Sending build context to Docker daemon 4.096 kB
Step 1/4 : FROM openjdk:8-jre
Step 2/4 : COPY * /opt/app/
--> 102d2f9831e35
Removing intermediate container 6d8d3312a614
Step 3/4 : WORKDIR /opt/app
--> 2697a2020310
Removing intermediate container 83f0d409f10b
Step 4/4 : CMD java HelloWorld
--> Running in 8baeb071921f
removing intermediate container 8baeb071921f
Successfully built 9e0094f37fea
SECURITY WARNING: You are building a Docker image from Windows against a non-Windows Docker host. All files and directories added to build context will have '-rwxr-xr-x' reset permissions for sensitive files and directories.

krishna@Krishna-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker images
time="2017-04-18T11:13:42+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
REPOSITORY          TAG      IMAGE ID            CREATED             SIZE
java-helloworld    latest   9e0094f37fea   12 seconds ago   310 MB
<none>              <none>   a185c1edfa21   7 minutes ago   310 MB
<none>              <none>   e31fdeaceac1   7 hours ago    3.99 MB
<none>              <none>   55000bed0dd0e  9 hours ago    3.99 MB
openjdk             8-jre   b937c6a04103   3 weeks ago    3.99 MB
alpine              latest   4ea15266388   6 weeks ago    3.99 MB
hello-world         latest   48hs5124h2768   3 months ago   1.84 MB

krishna@Krishna-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker run $docker images -f "dangling=true"
time="2017-04-18T11:14:07+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
time="2017-04-18T11:14:07+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Error response from daemon: conflict: unable to delete a185c1edfa21 (must be forced) - image is being used by stopped container 553a3b9ee24a
Error response from daemon: conflict: unable to delete e31fdeaceac1 (must be forced) - image is being used by stopped container 0d1215859bf7
Error response from daemon: conflict: unable to delete 55000bed0dd0e (must be forced) - image is being used by stopped container 5734617ac6b7

krishna@Krishna-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker ps
time="2017-04-18T11:14:29+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS               NAMES
krishna@Krishna-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker logs 9e0094f37fea
time="2017-04-18T11:14:56+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Hello! Welcome to Docker World
krishna@Krishna-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ -
```

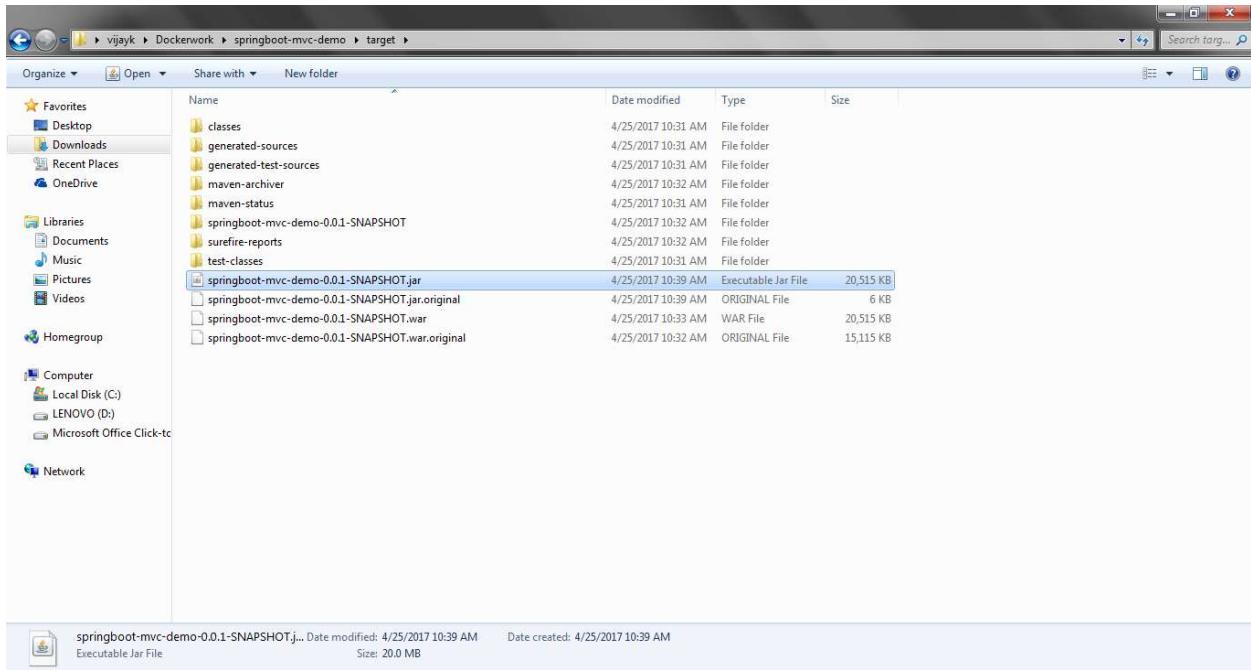
## Let's deploy a spring boot web app



```
MINGW64:/c/Users/krishna/Dockerwork/springboot-mvc-demo
$ pwd
/c/Users/krishna
krishna@krishna-PC MINGW64 ~
$ ls -l | grep Docker
drwxr-xr-x 1 krishna 197121          0 Apr 25 10:22 Dockerwork/
krishna@krishna-PC MINGW64 ~
$ cd Dockerwork
krishna@krishna-PC MINGW64 ~/Dockerwork
$ cd springboot-mvc-demo/
krishna@krishna-PC MINGW64 ~/Dockerwork/springboot-mvc-demo
$ touch Dockerfile
krishna@krishna-PC MINGW64 ~/Dockerwork/springboot-mvc-demo
$ -
```

```
C:\Windows\system32\cmd.exe - mvn install
C:\Users\krishna\Dockervork\springboot-mvc-demo>mvn --version
Apache Maven 3.3.9 (hb52d8502b132ec0a5a3f4c09453c07478323dc5; 2015-11-10T22:11:47+05:30)
Maven home: C:\JavaDev\apache-maven-3.3.9
Maven version: 3.3.9
Java home: C:\JavaDev\apache-maven-3.3.9\jre
Default locale: en_US, platform encoding: Cp1252
OS name: "windows 7", version: "6.1", arch: "amd64", family: "dos"
C:\Users\krishna\Dockervork\springboot-mvc-demo>mvn install
[INFO] Scanning for projects...
[INFO]
[INFO] Building springboot-mvc-demo 0.0.1-SNAPSHOT
[INFO]
[INFO] Downloading: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-starter-thymeleaf/1.4.2.RELEASE/spring-boot-starter-thymeleaf-1.4.2.RELEASE.pom
Downloaded: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-starter-thymeleaf/1.4.2.RELEASE/spring-boot-starter-thymeleaf-1.4.2.RELEASE.pom <2 KB at 0.2 KB/sec>
[INFO] Downloading: https://repo.maven.apache.org/maven2/org/thymeleaf/thymeleaf-spring4/2.1.5.RELEASE/thymeleaf-spring4-2.1.5.RELEASE.pom
Downloaded: https://repo.maven.apache.org/maven2/org/thymeleaf/thymeleaf-spring4/2.1.5.RELEASE/thymeleaf-spring4-2.1.5.RELEASE.pom <12 KB at 28.8 KB/sec>
[INFO] Downloading: https://repo.maven.apache.org/maven2/org/thymeleaf/thymeleaf/2.1.5.RELEASE/thymeleaf-2.1.5.RELEASE.pom
Downloaded: https://repo.maven.apache.org/maven2/org/thymeleaf/thymeleaf/2.1.5.RELEASE/thymeleaf-2.1.5.RELEASE.pom <10 KB at 26.0 KB/sec>
[INFO] Downloading: https://repo.maven.apache.org/maven2/org/thymeleaf/thymeleaf/2.1.5.RELEASE/thymeleaf-2.1.5.RELEASE.pom <1 KB at 2.7 KB/sec>
Downloaded: https://repo.maven.apache.org/maven2/org/unescape/unescape/1.1.0.RELEASE/unescape-1.1.0.RELEASE.pom
Downloaded: https://repo.maven.apache.org/maven2/org/unescape/unescape/1.1.0.RELEASE/unescape-1.1.0.RELEASE.pom <10 KB at 23.4 KB/sec>
Downloaded: https://repo.maven.apache.org/maven2/net/ultraq/thymeleaf/thymeleaf-layout-dialect/1.4.0/thymeleaf-layout-dialect-1.4.0.pom
Downloaded: https://repo.maven.apache.org/maven2/org/codehaus/groovy/groovy/2.4.7/groovy-2.4.7.pom <4 KB at 7.5 KB/sec>
Downloaded: https://repo.maven.apache.org/maven2/org/codehaus/groovy/groovy/2.4.7/groovy-2.4.7.pom <17 KB at 32.7 KB/sec>
Downloaded: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-starter-thymeleaf/1.4.2.RELEASE/spring-boot-starter-thymeleaf-1.4.2.RELEASE.jar
Downloaded: https://repo.maven.apache.org/maven2/org/thymeleaf/thymeleaf-spring4/2.1.5.RELEASE/thymeleaf-spring4-2.1.5.RELEASE.jar
Downloaded: https://repo.maven.apache.org/maven2/org/ognl/3.0.8/ognl-3.0.8.jar
Downloaded: https://repo.maven.apache.org/maven2/org/unescape/unescape/1.1.0.RELEASE/unescape-1.1.0.RELEASE.jar
Downloaded: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-starter-thymeleaf/1.4.2.RELEASE/spring-boot-starter-thymeleaf-1.4.2.RELEASE.jar <3 KB at 0.2 KB/sec>
Downloaded: https://repo.maven.apache.org/maven2/org/nz.net/ultraq/thymeleaf/thymeleaf-layout-dialect/1.4.0/thymeleaf-layout-dialect-1.4.0.pom
Downloaded: https://repo.maven.apache.org/maven2/org/unescape/unescape/1.1.0.RELEASE/unescape-1.1.0.RELEASE.jar <137 KB at 67.3 KB/sec>
Downloaded: https://repo.maven.apache.org/maven2/org/codehaus/groovy/groovy/2.4.7/groovy-2.4.7.jar
Downloaded: https://repo.maven.apache.org/maven2/ognl/3.0.8/ognl-3.0.8.jar <22 KB at 76.7 KB/sec>
Downloaded: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-starter-thymeleaf/1.4.2.RELEASE/spring-boot-starter-thymeleaf-1.4.2.RELEASE.jar <201 KB at 26.6 KB/sec>
Downloaded: https://repo.maven.apache.org/maven2/org/thymeleaf/thymeleaf-spring4/2.1.5.RELEASE/thymeleaf-spring4-2.1.5.RELEASE.jar <220 KB at 67.5 KB/sec>
Downloaded: https://repo.maven.apache.org/maven2/nz.net/ultraq/thymeleaf/thymeleaf-layout-dialect/1.4.0/thymeleaf-layout-dialect-1.4.0.jar <114 KB at 33.3 KB/sec>
384/4445 KB
```

```
C:\Windows\system32\cmd.exe
:: Spring Boot ::          <v.4.2.RELEASE>
2017-04-25 10:39:37.694  INFO 13104 --- [           main] o.p.SpringbootMvcDemoApplicationTests : Starting SpringbootMvcDemoApplicationTests on krishna-PC with PID 13104
2017-04-25 10:39:37.698  INFO 13104 --- [           main] o.p.SpringbootMvcDemoApplicationTests : No active profile set, falling back to default profiles: default
2017-04-25 10:39:37.702  INFO 13104 --- [           main] o.s.web.context.ContextLoader      : Refreshing org.springframework.web.context.support.GenericWebApplicationContext@238261e8: startup date [Tue Apr 25 10:39:38 IST 2017]; root of context hierarchy
2017-04-25 10:39:42.237  INFO 13104 --- [           main] s.v.s.m.n.a.RequestMappingHandlerAdapter : Looking for @ControllerAdvice: org.springframework.web.context.support.GenericWebApplicationContext@238261e8: startup date [Tue Apr 25 10:39:38 IST 2017]; root of context hierarchy
2017-04-25 10:39:42.301  INFO 13104 --- [           main] s.v.s.m.n.a.RequestMappingHandlerMapping : Mapped "【Lgreeting;D" onto public java.lang.String org.pjay.TemplateController.getGreeting(java.lang.String org.springframework.web.bind.annotation.RequestMethod)
2017-04-25 10:39:42.305  INFO 13104 --- [           main] s.v.s.m.n.a.RequestMappingHandlerMapping : Mapped "[error]" onto public org.springframework.http.ResponseEntity<org.springframework.web.bind.annotation.ResponseBody>> org.springframework.boot.autoconfigure.web.BasicErrorController.handleError(javax.servlet.http.HttpServletRequest)
2017-04-25 10:39:42.389  INFO 13104 --- [           main] s.v.s.m.n.a.RequestMappingHandlerMapping : Mapped "【Lerror;D" onto public org.springframework.http.ResponseEntity<org.springframework.web.bind.annotation.ResponseBody>> org.springframework.boot.autoconfigure.web.BasicErrorController.error(javax.servlet.http.HttpServletRequest)
2017-04-25 10:39:42.393  INFO 13104 --- [           main] s.v.s.m.n.a.RequestMappingHandlerMapping : Mapped "【Lfavicon;Ic0l" onto handler of type [class org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2017-04-25 10:39:42.397  INFO 13104 --- [           main] s.v.s.m.n.a.RequestMappingHandlerMapping : Adding welcome page: ServletContext resource [/index.html]
2017-04-25 10:39:43.130  INFO 13104 --- [           main] o.p.SpringbootMvcDemoApplicationTests : Started SpringbootMvcDemoApplicationTests in 6.672 seconds (JVM running for 7.995)
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
Results :
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO] --- maven-jar-plugin:2.6:jar (default-jar) @ springboot-mvc-demo ---
[INFO] Building jar: C:\Users\krishna\Dockervork\springboot-mvc-demo\target\springboot-mvc-demo-0.0.1-SNAPSHOT.jar
[INFO] --- spring-boot-maven-plugin:1.4.2.RELEASE:repackage (default) @ springboot-mvc-demo ---
[INFO] --- maven-install-plugin:2.5:install (default-install) @ springboot-mvc-demo ---
[INFO] Installing C:\Users\krishna\Dockervork\springboot-mvc-demo\target\springboot-mvc-demo-0.0.1-SNAPSHOT.jar to C:\Users\krishna\.m2\repository\org\pjay\springboot-mvc-demo\0.0.1-SNAPSHOT.jar
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 20.254 s
[INFO] Finished at: 2017-04-25T10:39:47+05:30
[INFO] Final Memory: 21M-113M
[INFO]
```



A screenshot of a Sublime Text editor window titled 'C:\Users\krishna\Dockernwork\springboot-mvc-demo\Dockernfile - Sublime Text (UNREGISTERED)'. The window contains several tabs, each showing a different file: App.java, HelloWorld.java, Dockerfile — docker-alpine-scriptfile, ImageResize.java, Dockerfile — docker-java-helloworld, Dockerfile — springboot-mvc-demo, help.txt, and fileContents.java. The Dockerfile tab is currently active and displays the following Dockerfile content:

```
FROM openjdk:8-jre
EXPOSE 8080
ADD ./target/springboot-mvc-demo-0.0.1-SNAPSHOT.jar springmvc.jar
ENTRYPOINT ["java", "-jar", "springmvc.jar"]
```

```

MINGW64:/c/Users/krishna/Dockerwork/springboot-mvc-demo
krishna@krishna-PC MINGW64 ~
$ pwd
/c/Users/krishna

krishna@krishna-PC MINGW64 ~
$ ls -l | grep Docker
drwxr-xr-x 1 krishna 197121 0 Apr 25 10:22 Dockerwork/
krishna@krishna-PC MINGW64 ~
$ cd Dockerwork

krishna@krishna-PC MINGW64 ~/Dockerwork
$ cd springboot-mvc-demo/
krishna@krishna-PC MINGW64 ~/Dockerwork/springboot-mvc-demo
$ touch Dockerfile

krishna@krishna-PC MINGW64 ~/Dockerwork/springboot-mvc-demo
$ docker build -f Dockerfile -t springmvc
time="2017-04-25T04:43:41+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Step 1/4 : FROM openjdk:8-jre
--> b3cc7cab8d3
Step 2/4 : EXPOSE 8888
--> Running in 1440597e35d8
--> 1e6a3f94edba
Removing intermediate container 8483f1fffc479
Step 3/4 : ADD ./target/springboot-mvc-demo-0.0.1-SNAPSHOT.jar springmvc.jar
--> 1cbdb852bf3f3
Removing intermediate container 39fd4c1a5a69
Step 4/4 : ENTRYPOINT java -jar springmvc.jar
--> Running in 1440597e35d8
--> c34c124d54a1
Removing intermediate container 1440597e35d8
Successfully built c34c124d54a1
SECURITY WARNING: You are building a Docker image from Windows against a non-Windows Docker host. All files and directories added to build context will have '--rwxr-xr--' check and reset permissions for sensitive files and directories.

krishna@krishna-PC MINGW64 ~/Dockerwork/springboot-mvc-demo
$ docker images
REPOSITORY          TAG      IMAGE ID      CREATED             SIZE
springmvc           latest   c34c124d54a1   3 days ago        3.18 MB
java:8-jdk           latest   9e0894f37fea   5 days ago        3.18 MB
<none>              <none>   a185c1edfa21   6 days ago        3.18 MB
<none>              <none>   e31fdeaceac1   7 days ago        3.99 MB
<none>              <none>   554000ed0ddde   7 days ago        3.99 MB
openjdk              8-jre    b3cc7cab8d3   4 months ago      3.18 MB
alpine               latest   4a415e366388   7 weeks ago       3.99 MB
hello-world          latest   48b5124b2768   3 months ago      1.84 kB

krishna@krishna-PC MINGW64 ~/Dockerwork/springboot-mvc-demo
$ docker run -p 8888:8880 -t springmvc

```

```

MINGW64:/c/Users/krishna/Dockerwork/springboot-mvc-demo
krishna@krishna-PC MINGW64 ~/Dockerwork/springboot-mvc-demo
$ docker images
REPOSITORY          TAG      IMAGE ID      CREATED             SIZE
springmvc           latest   c34c124d54a1   3 days ago        3.18 MB
java:8-jdk           latest   9e0894f37fea   5 days ago        3.18 MB
<none>              <none>   a185c1edfa21   6 days ago        3.18 MB
<none>              <none>   e31fdeaceac1   7 days ago        3.99 MB
<none>              <none>   554000ed0ddde   7 days ago        3.99 MB
openjdk              8-jre    b3cc7cab8d3   4 months ago      3.18 MB
alpine               latest   4a415e366388   7 weeks ago       3.99 MB
hello-world          latest   48b5124b2768   3 months ago      1.84 kB

krishna@krishna-PC MINGW64 ~/Dockerwork/springboot-mvc-demo
$ docker run -p 8888:8880 -t springmvc
time="2017-04-25T10:45:40+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
<--- Spring Boot --- (0.1.4.RC2 RELEASE)
2017-04-25 05:15:44.348 [INFO] {main} org.pjay.SpringbootMvcDemoApplication : Starting SpringbootMvcDemoApplication v0.0.1-SNAPSHOT on fa38e57b85fb
2017-04-25 05:15:44.376 [INFO] {main} org.pjay.SpringbootMvcDemoApplication : No active profile set, falling back to default profiles: default
2017-04-25 05:15:46.262 [INFO] {main} org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Refreshing org.springframework.boot.context.embedded.AnnotationConfigEm
rup date [Tue Apr 25 05:15:46 UTC 2017]; root of context hierarchy
2017-04-25 05:15:53.220 [INFO] {main} org.apache.catalina.core.StandardContainer : Tomcat initialized with port(s): 8880 (http)
2017-04-25 05:15:53.220 [INFO] {main} org.apache.catalina.core.StandardService : Starting Service Engine: Apache Tomcat/8.5.6
2017-04-25 05:15:53.298 [INFO] {main} org.apache.catalina.core.StandardEngine : Initializing Spring embedded WebApplicationContext
2017-04-25 05:15:53.667 [INFO] {main} org.apache.catalina.core.StandardContext : Root WebApplicationContext: initialization completed in 7474 ms
2017-04-25 05:15:53.668 [INFO] {main} org.apache.catalina.core.StandardContext : Starting filter: 'hiddenHttpMethodFilter' to: [/]
2017-04-25 05:15:54.296 [INFO] {main} org.apache.catalina.core.StandardContext : Mapping filter: 'hiddenHttpMethodFilter' to: [/]
2017-04-25 05:15:54.315 [INFO] {main} org.apache.catalina.core.StandardContext : Mapping filter: 'hiddenHttpMethodFilter' to: [/]
2017-04-25 05:15:54.317 [INFO] {main} org.apache.catalina.core.StandardContext : Mapping filter: 'hiddenHttpMethodFilter' to: [/]
2017-04-25 05:15:54.322 [INFO] {main} org.apache.catalina.core.StandardContext : Mapping filter: 'hiddenHttpMethodFilter' to: [/]
2017-04-25 05:15:54.322 [INFO] {main} org.apache.catalina.core.StandardContext : Looking for @ControllerAdvice: org.springframework.boot.context.embedde
text@7369adb: startup date [Tue Apr 25 05:15:46 UTC 2017]; root of context hierarchy
2017-04-25 05:15:56.037 [INFO] {main} org.springframework.web.servlet.handler.MappedHandlerMapping : Mapped "/{greetingId}" onto public java.lang.String org.pjay.TemplateCo
springframework.ui.Model)
2017-04-25 05:15:56.046 [INFO] {main} org.springframework.web.servlet.handler.MappedHandlerMapping : Mapped "/*/{templateId}" onto public java.lang.String org.pjay.TemplateCo
springframework.ui.Model)
2017-04-25 05:15:56.066 [INFO] {main} org.springframework.web.servlet.handler.MappedHandlerMapping : Mapped "{/error,produces='text/html'}" onto public org.springframework
work.boot.autoconfigure.web.BasicErrorController.errorHtml(javax.servlet.http.HttpServletRequest,javax.servlet.http.HttpServletResponse)
2017-04-25 05:15:56.069 [INFO] {main} org.springframework.web.servlet.handler.MappedHandlerMapping : Mapped "{/error}" onto public org.springframework.http.ResponseEntity<
org.springframework.boot.autoconfigure.web.BasicErrorController.error(javax.servlet.http.HttpServletRequest,javax.servlet.http.HttpServletResponse)
2017-04-25 05:15:56.204 [INFO] {main} org.springframework.web.servlet.handler.MappedHandlerMapping : Mapped URL path /*/* onto handler of type [class org.springfram
questHandler]
2017-04-25 05:15:56.215 [INFO] {main} org.springframework.web.servlet.handler.SimpleUrlHandlerMapping : Mapped URL path /*/* onto handler of type [class org.springfram
questHandler]
2017-04-25 05:15:56.389 [INFO] {main} org.springframework.web.servlet.handler.SimpleUrlHandlerMapping : Mapped URL path /*/*/favicon.ico onto handler of type [class org.spring
questHandler]

```

```
MINGW64:/c/Users/krishna/Dockerwork/springboot-mvc-demo
krishna@krishna-PC MINGW64 ~$ docker run -p 8080:8080 -t springboot-mvc
time "2017-04-25T10:45:40+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"

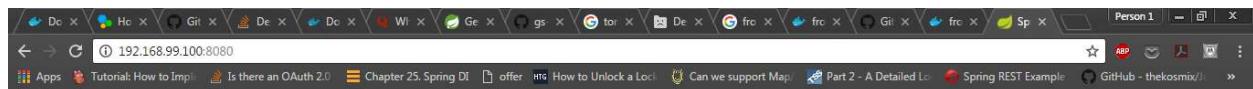
-- Spring Boot -- (v1.4.2.RELEASE)

2017-04-25 05:15:44.348 INFO 1 --- [main] org.springframework.boot.SpringApplication : Starting SpringBootMvcDemoApplication v0.0.1-SNAPSHOT on fa38e57b85fb
in />
2017-04-25 05:15:44.376 INFO 1 --- [main] org.springframework.boot.SpringApplication : No active profile set, falling back to default profiles: default
2017-04-25 05:15:46.267 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Refreshing org.springframework.boot.context.embedded.AnnotationConfigEm
top-up date [Tue Apr 25 05:15:46 UTC 2017]; root of context hierarchy
2017-04-25 05:15:53.220 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Tomcat initialized with port(s): 8080 (http)
2017-04-25 05:15:53.295 INFO 1 --- [main] org.apache.catalina.core.StandardService : Starting service Tomcat
2017-04-25 05:15:53.315 INFO 1 --- [main] org.apache.catalina.core.StandardEngine : Server is now operational
2017-04-25 05:15:53.652 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Initializing Spring Embedded WebApplicationContext
2017-04-25 05:15:53.668 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Root WebApplicationContext: initialization completed in 7474 ns
2017-04-25 05:15:54.296 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Tomcat initialized with port(s): 8080 (http)
2017-04-25 05:15:54.309 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Starting service Tomcat
2017-04-25 05:15:54.315 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Tomcat started on port(s): 8080 (http)
2017-04-25 05:15:54.317 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Initializing Spring Embedded WebApplicationContext
2017-04-25 05:15:54.322 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Root WebApplicationContext: initialization completed in 7474 ns
2017-04-25 05:15:55.697 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Tomcat initialized with port(s): 8080 (http)
2017-04-25 05:15:55.697 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Starting service Tomcat
2017-04-25 05:15:56.037 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Tomcat started on port(s): 8080 (http)
2017-04-25 05:15:56.037 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Looking for @ControllerAdvice: org.springframework.boot.context.embedde
2017-04-25 05:15:56.037 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Mapped "[@greeting]" onto public java.lang.String org.pjay.TemplateCo
2017-04-25 05:15:56.037 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Mapped "[@templated]" onto public java.lang.String org.pjay.TemplateCo
2017-04-25 05:15:56.037 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Mapped "[@error]" produces [text/html] onto public org.springframework
2017-04-25 05:15:56.069 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Mapped "[@error]" onto public org.springframework.http.ResponseEntity
2017-04-25 05:15:56.284 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Mapped URL path [/webjars/**] onto handler of type [class org.springfra
2017-04-25 05:15:56.215 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Mapped URL path [/**] onto handler of type [class org.springframework.u
2017-04-25 05:15:56.389 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Mapped URL path [/**/favicon.ico] onto handler of type [class org.spring
2017-04-25 05:15:57.823 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Adding welcome page: class path resource [static/index.html]
2017-04-25 05:15:58.356 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Registering beans for JMX exposure on startup
2017-04-25 05:15:58.671 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Tomcat started on port(s): 8080 (http)
2017-04-25 05:15:58.698 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Started SpringBootMvcDemoApplication in 16.78 seconds (JVM running for
2017-04-25 05:15:58.700 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : FrameworkServlet 'dispatcherServlet': initialization started
2017-04-25 05:15:58.700 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : FrameworkServlet 'dispatcherServlet': initialization completed in 67 ms
```

```
MINGW64:/c/Users/krishna/Dockerwork/springboot-mvc-demo
krishna@krishna-PC MINGW64 ~$ docker run -p 8080:8080 -t springboot-mvc
time "2017-04-25T10:45:40+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"

-- Spring Boot -- (v1.4.2.RELEASE)

2017-04-25 05:15:44.348 INFO 1 --- [main] org.springframework.boot.SpringApplication : Starting SpringBootMvcDemoApplication v0.0.1-SNAPSHOT on fa38e57b85fb
in />
2017-04-25 05:15:44.376 INFO 1 --- [main] org.springframework.boot.SpringApplication : Falling back to default profiles: default
2017-04-25 05:15:46.267 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Refreshing org.springframework.boot.context.embedded.AnnotationConfigEm
top-up date [Tue Apr 25 05:15:46 UTC 2017]; root of context hierarchy
2017-04-25 05:15:53.220 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Apache Tomcat/8.5.6
2017-04-25 05:15:53.295 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Initialization completed in 7474 ns
2017-04-25 05:15:53.315 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Tomcat initialized with port(s): 8080 (http)
2017-04-25 05:15:53.652 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Starting service Tomcat
2017-04-25 05:15:53.668 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Tomcat started on port(s): 8080 (http)
2017-04-25 05:15:54.296 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Initializing Spring Embedded WebApplicationContext
2017-04-25 05:15:54.309 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Root WebApplicationContext: initialization completed in 7474 ns
2017-04-25 05:15:54.315 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Tomcat initialized with port(s): 8080 (http)
2017-04-25 05:15:54.322 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Starting service Tomcat
2017-04-25 05:15:55.697 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Tomcat started on port(s): 8080 (http)
2017-04-25 05:15:55.697 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Looking for @ControllerAdvice: org.springframework.boot.context.embedde
2017-04-25 05:15:56.037 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Mapped "[@greeting]" onto public java.lang.String org.pjay.TemplateCo
2017-04-25 05:15:56.037 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Mapped "[@templated]" onto public java.lang.String org.pjay.TemplateCo
2017-04-25 05:15:56.037 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Mapped "[@error]" produces [text/html] onto public org.springframework
2017-04-25 05:15:56.069 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Mapped "[@error]" onto public org.springframework.http.ResponseEntity
2017-04-25 05:15:56.284 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Mapped URL path [/webjars/**] onto handler of type [class org.springfra
2017-04-25 05:15:56.215 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Mapped URL path [/**] onto handler of type [class org.springframework.u
2017-04-25 05:15:56.389 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Mapped URL path [/**/favicon.ico] onto handler of type [class org.spring
2017-04-25 05:15:57.823 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Adding welcome page: class path resource [static/index.html]
2017-04-25 05:15:58.356 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Registering beans for JMX exposure on startup
2017-04-25 05:15:58.671 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Tomcat started on port(s): 8080 (http)
2017-04-25 05:15:58.698 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Started SpringBootMvcDemoApplication in 16.78 seconds (JVM running for
2017-04-25 05:15:58.700 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : FrameworkServlet 'dispatcherServlet': initialization started
2017-04-25 05:15:58.700 INFO 1 --- [main] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : FrameworkServlet 'dispatcherServlet': initialization completed in 67 ms
```



## Welcome to spring boot MVC application

### From Static resource folder - index.html file

[Static Templates](#) [Greetings](#)

```
krishna@krishna-PC MINGW64 ~
$ docker-machine ls
NAME    ACTIVE   DRIVER      STATE     URL            SWARM   DOCKER    ERRORS
default *        virtualbox   Running   tcp://192.168.99.100:2376   v17.04.0-ce

krishna@krishna-PC MINGW64 ~
$ docker ps
time="2017-04-25T11:17:12+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
83403576408d        springmvc          "java -jar spring..."   About a minute ago   Up About a minute   0.0.0.0:8080->8080/tcp   Infallible_kilby

krishna@krishna-PC MINGW64 ~
$ docker stop 83403576408d
time="2017-04-25T11:17:48+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
83403576408d

krishna@krishna-PC MINGW64 ~
$ docker images
time="2017-04-25T11:18:44+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
REPOSITORY          TAG      IMAGE ID            CREATED             SIZE
springmvc          latest   c34c124d54a1   35 minutes ago   331 MB
java-helloworld    latest   9e0894f37fea   7 days ago        310 MB
<none>              <none>   a1096a2a2411   7 days ago        310 MB
<none>              <none>   e31fd6ccac1   7 days ago        3.99 MB
<none>              <none>   55800ed0ddde   7 days ago        3.99 MB
openjdk             8-jre    b8ce7ca8bed3   4 weeks ago       310 MB
alpine              latest   4a415e365398   7 weeks ago       3.99 MB
hello-world         latest   46b5124b2768   3 months ago      1.84 kB

krishna@krishna-PC MINGW64 ~
$ -
```

```

MINGW64:/c/Users/krishna/Dockerwork/springboot-mvc-demo
krishna@krishna-PC MINGW64 ~/Dockerwork/springboot-mvc-demo
$ docker run -p 8080:8080 -t springmv
time="2017-04-25T11:16:04+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"

== Spring Boot == (v1.4.2.RELEASE)

2017-04-25 05:46:03.139 INFO 1 --- [           main] org.springframework.boot.SpringApplication : Starting SpringBootMvcDemoApplication v0.0.1-SNAPSHOT on 83403596408d
in >
2017-04-25 05:46:03.164 INFO 1 --- [           main] org.springframework.boot.SpringApplication : No active profile set, falling back to default profiles: default
2017-04-25 05:46:05.134 INFO 1 --- [           main] org.springframework.boot.SpringApplication : Refreshing org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext
2017-04-25 05:46:05.146 INFO 1 --- [           main] o.s.b.c.e.TomcatEmbeddedServletContainer : Tomcat initialized with port(s): 8080 <http>
2017-04-25 05:46:11.411 INFO 1 --- [           main] o.s.b.c.e.TomcatEmbeddedServletContainer : Starting service Tomcat
2017-04-25 05:46:11.488 INFO 1 --- [           main] o.apache.catalina.core.StandardService : Starting Servlet Engine: Apache Tomcat/8.5.6
2017-04-25 05:46:11.493 INFO 1 --- [           main] org.apache.catalina.core.StandardEngine : Initialization Spring embedded web application context
2017-04-25 05:46:11.501 INFO 1 --- [           main] o.a.c.c.e.Tomcat : [localhost]-
2017-04-25 05:46:11.854 INFO 1 --- [           main] o.s.b.c.e.Tomcat : lost-startStop[1]
2017-04-25 05:46:12.470 INFO 1 --- [           main] o.s.b.c.e.Tomcat : lost-startStop[1]
2017-04-25 05:46:12.490 INFO 1 --- [           main] o.s.b.c.e.Tomcat : lost-startStop[1]
2017-04-25 05:46:12.593 INFO 1 --- [           main] o.s.b.c.e.Tomcat : lost-startStop[1]
2017-04-25 05:46:12.598 INFO 1 --- [           main] o.s.b.c.e.Tomcat : lost-startStop[1]
2017-04-25 05:46:12.598 INFO 1 --- [           main] o.s.b.c.e.Tomcat : lost-startStop[1]
2017-04-25 05:46:13.916 INFO 1 --- [           main] o.s.c.m.n.a.RequestMappingHandlerAdapter : Looking for @ControllerAdvice: org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext@36e9ab9: startup date [Tue Apr 25 05:46:05 UTC 2017]; root of context hierarchy
2017-04-25 05:46:14.265 INFO 1 --- [           main] o.s.c.m.n.a.RequestMappingHandlerMapping : Mapped "[{"@template": "}" onto public java.lang.String org.springframework.web.servlet.DispatcherServlet.getJspName(Model)
2017-04-25 05:46:14.286 INFO 1 --- [           main] o.s.c.m.n.a.RequestMappingHandlerMapping : Mapped "[{"@greeting": "}" onto public java.lang.String org.springframework.web.servlet.DispatcherServlet.getGreeting(Model)
2017-04-25 05:46:14.286 INFO 1 --- [           main] o.s.c.m.n.a.RequestMappingHandlerMapping : Mapped "[{"@template": "}" onto public java.lang.String org.springframework.web.servlet.DispatcherServlet.getTemplate(Model)
2017-04-25 05:46:14.300 INFO 1 --- [           main] o.s.c.m.n.a.RequestMappingHandlerMapping : Mapped "[{"@error": "text/html"}]" onto public org.springframework.web.servlet.ModelAndView org.springframework.web.servlet.DispatcherServlet.render(ModelAndView, HttpServletRequest, HttpServletResponse)
2017-04-25 05:46:14.315 INFO 1 --- [           main] o.s.c.m.n.a.RequestMappingHandlerMapping : Mapped "[{"@error": "}" onto public org.springframework.http.ResponseEntity<Object> org.springframework.boot.autoconfigure.web.BasicErrorController.error(javax.servlet.http.HttpServletRequest)
2017-04-25 05:46:14.480 INFO 1 --- [           main] o.s.c.w.handler.SimpleUrlHandlerMapping : Mapped URL path [/webjars/**] onto handler of type [class org.springframework.web.servlet.Handler]
2017-04-25 05:46:14.493 INFO 1 --- [           main] o.s.c.w.handler.SimpleUrlHandlerMapping : Mapped URL path [/**favicon.ico] onto handler of type [class org.springframework.web.servlet.Handler]
2017-04-25 05:46:14.713 INFO 1 --- [           main] o.s.c.w.handler.SimpleUrlHandlerMapping : Mapped URL path [/**] onto handler of type [class org.springframework.web.servlet.Handler]
2017-04-25 05:46:16.058 INFO 1 --- [           main] o.s.c.m.n.a.Configuration$WelcomePageHandlerMapping : Adding welcome page: class path resource [static/index.html]
2017-04-25 05:46:16.648 INFO 1 --- [           main] o.s.c.j.e.AnnotationMBeanExporter : Registering beans for JMX exposure on startup
2017-04-25 05:46:16.906 INFO 1 --- [           main] o.s.b.c.e.TomcatEmbeddedServletContainer : Tomcat started on port(s): 8080 (http)
2017-04-25 05:46:16.940 INFO 1 --- [           main] org.springframework.boot.SpringApplication : Started SpringBootMvcDemoApplication in 16.058 seconds (JVM running for 16.058)
2017-04-25 05:46:17.107 INFO 1 --- [nio-8080-exec-1] o.a.c.c.e.Tomcat : [localhost]->[::1]:8080
2017-04-25 05:46:17.115 INFO 1 --- [nio-8080-exec-1] o.a.c.c.e.Tomcat : [localhost]->[::1]:8080
2017-04-25 05:46:17.193 INFO 1 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : FrameworkServlet 'dispatcherServlet': initialization completed in 26 ms
2017-04-25 05:47:42.325 INFO 1 --- [           main] o.s.b.c.e.Tomcat : Closing org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext
2017-04-25 05:47:42.343 INFO 1 --- [           main] o.s.c.j.e.AnnotationMBeanExporter : Unregistering JMX-exposed beans on shutdown
krishna@krishna-PC MINGW64 ~/Dockerwork/springboot-mvc-demo
$ -

```

```

MINGW64:/c/Users/krishna
krishna@krishna-PC MINGW64 ~

dockers is configured to use the default machine with IP 192.168.99.199
For help getting started, check out the docs at https://docs.docker.com
Start interactive shell
krishna@krishna-PC MINGW64 ~
$ docker ps
time="2017-04-25T11:27:05+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
1a7ea9a9e83d        springmv          "java -jar springm..."   4 minutes ago      Up 4 minutes       0.0.0.0:8080->8080/tcp   zealous_beyd
krishna@krishna-PC MINGW64 ~
$ docker inspect springmv
time="2017-04-25T11:24:36+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
{
  "Id": "sha256:c34c124d54a1247e0594fe1fb66e9c9bf1f166209007607a5e618a72901eea72c",
  "RepoTags": [
    "springmv:latest"
  ],
  "RepoDigests": [],
  "Parent": "sha256:1cd8852bf38f3fc69d05487fe8edb039afb3f70dc3a949fc031583039d84419",
  "Comment": "2017-04-25T05:46:13:44.168356239Z",
  "Container": "1446597e35d8hf25096864c944hc064d58357c70606ce50h160c9184cef233b",
  "ContainerConfig": {
    "Hostname": "7e9e6cde4d1",
    "Domainname": "",
    "User": "root",
    "AttachStdin": false,
    "AttachStdout": false,
    "AttachStderr": false,
    "ExposedPorts": {
      "8080/tcp": {}
    },
    "Tty": false,
    "OpenStdin": false,
    "StdinOnce": false,
    "Env": [
      "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin",
      "LANG=C.UTF-8",
      "JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64/jre",
      "JAVA_VERSION=8u121",
      "JAVA_DEBIAN_VERSION=8u121-b13-1~bpo8+1",
      "CA_CERTIFICATES_JAVA_VERSION=20161107~bpo8+1"
    ]
  }
}

```

```

~ MINGW64:/c/Users/krishna
krishna@Krishna-PC MINGW64 ~
$ docker logs --help
time="2017-04-25T11:25:01+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Usage: docker logs [OPTIONS] CONTAINER
Fetch the logs of a container

Options:
  --details      Show extra details provided to logs
  -f, --follow    Follow log output
  --since string  Show logs since timestamp
  --tail string   Number of lines to show from the end of the logs (default "all")
  -t, --timestamps Show timestamps

krishna@Krishna-PC MINGW64 ~
$ docker logs --details
"docker logs" requires exactly 1 argument(s).
See 'docker logs --help'.

Usage: docker logs [OPTIONS] CONTAINER
Fetch the logs of a container

krishna@Krishna-PC MINGW64 ~
$ docker logs --details springmuc
time="2017-04-25T11:26:23+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Error: No such container: springmuc
krishna@Krishna-PC MINGW64 ~
$ docker ps
time="2017-04-25T11:26:33+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
1a7eda9e83d        springmuc          "java -jar springm... 6 minutes ago       Up 6 minutes          0.0.0.0:8080->8080/tcp   zealous_beard

krishna@Krishna-PC MINGW64 ~
$ docker logs --details 1a7eda9e83d
time="2017-04-25T11:26:51+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"


```

```

~ MINGW64:/c/Users/krishna
krishna@Krishna-PC MINGW64 ~
2017-04-25 05:50:16.168 INFO 1 --- [           main] oConfiguration$WelcomePageHandlerMapping : Adding welcome page: class path resource [static/index.html]
2017-04-25 05:50:16.707 INFO 1 --- [           main] o.s.j.e.a.AnnotationBeanExporter      : Registering beans for JMX exposure on startup
2017-04-25 05:50:16.914 INFO 1 --- [           main] s.b.c.e.t.TomcatEmbeddedServletContainer : Tomcat started on port(s): 8080 (Http)
2017-04-25 05:50:11.688 INFO 1 --- [           main] s.b.c.e.t.TomcatEmbeddedServletContainer : Tomcat initialized with port(s): 8080 (Http)
2017-04-25 05:50:11.679 INFO 1 --- [           main] o.apache.catalina.core.StandardService : Starting service Tomcat
2017-04-25 05:50:11.684 INFO 1 --- [           main] org.apache.catalina.core.StandardEngine : Starting Servlet Engine: Apache Tomcat/8.5.6
2017-04-25 05:50:12.055 INFO 1 --- [           main] o.a.c.c.G�Tomcat@localhost:[/]      : Initializing Spring embedded WebApplicationContext

```

```
~ MINGW64:/c/Users/krishna
-i, --interactive      Keep STDIN open even if not attached
-t, --privileged      Give extended privileges to the command
-u, --user string      Username or UID <format: <name|uid>[:<group|gid>>
krishna@krishna-PC MINGW64 ~
$ docker exec 1a7eda9e83d pwd
time="2017-04-25T11:28:29+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
krishna@krishna-PC MINGW64 ~
$ docker exec 1a7eda9e83d /bin/bash
time="2017-04-25T11:28:29+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
root@1a7eda9e83d:/# pwd
/
root@1a7eda9e83d:/# ls -l
total 26580
drwxr-xr-x  2 root root  4096 Mar 21 22:14 bin
drwxr-xr-x  2 root root  4096 Dec 28 17:42 boot
drwxr-xr-x  5 root root  368 Apr 25 05:49 dev
drwxr-xr-x  4 root root  4096 Apr 25 05:49 etc
drwxr-xr-x  2 root root  4096 Mar 28 17:42 home
drwxr-xr-x 12 root root  4096 Mar 21 22:51 lib
drwxr-xr-x  2 root root  4096 Mar 28 23:27 lib64
drwxr-xr-x  2 root root  4096 Mar 28 23:26 media
drwxr-xr-x  2 root root  4096 Mar 28 23:26 mnt
drwxr-xr-x 158 root root   0 Apr 25 05:49 proc
drwxr-xr-x  2 root root  4096 Mar 28 23:26 root
drwxr-xr-x  3 root root  4096 Mar 28 23:26 run
drwxr-xr-x  2 root root  4096 Mar 28 23:29sbin
-rw-r--r--  1 root root 21006509 Apr 25 05:09 springmvc.jar
drwxr-xr-x  2 root root  4096 Mar 28 23:26 srv
dr-xr-xr-x 13 root root   0 Apr 25 05:49 sys
drwxrwxrwt  2 root root  4096 Apr 25 05:50 tmp
drwxr-xr-x  25 root root  4096 Mar 21 22:51 usr
drwxr-xr-x  28 root root  4096 Mar 21 22:51 var
root@1a7eda9e83d:/# tree
bash: tree: command not found
root@1a7eda9e83d:/#
```

rtup date [Tue Apr 25 05:50:03 UTC 2017]; root of context hierarchy

```
~ MINGW64:/c/Users/krishna
-i, --interactive      Keep STDIN open even if not attached
-t, --privileged      Give extended privileges to the command
-u, --user string      Username or UID <format: <name|uid>[:<group|gid>>
krishna@krishna-PC MINGW64 ~
$ docker exec 1a7eda9e83d pwd
time="2017-04-25T11:28:29+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
/
krishna@krishna-PC MINGW64 ~
$ docker exec -i 1a7eda9e83d /bin/bash
time="2017-04-25T11:28:29+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
root@1a7eda9e83d:/# pwd
/
root@1a7eda9e83d:/# ls -l
total 26580
drwxr-xr-x  2 root root  4096 Mar 21 22:14 bin
drwxr-xr-x  2 root root  4096 Dec 28 17:42 boot
drwxr-xr-x  5 root root  368 Apr 25 05:49 dev
drwxr-xr-x  64 root root  4096 Apr 25 05:49 etc
drwxr-xr-x  2 root root  4096 Mar 28 17:42 home
drwxr-xr-x 12 root root  4096 Mar 21 22:51 lib
drwxr-xr-x  2 root root  4096 Mar 28 23:27 lib64
drwxr-xr-x  2 root root  4096 Mar 28 23:26 media
drwxr-xr-x  2 root root  4096 Mar 28 23:26 mnt
drwxr-xr-x  2 root root  4096 Mar 28 23:26 proc
dr-xr-xr-x 158 root root   0 Apr 25 05:49 root
drwxr-xr-x  2 root root  4096 Mar 28 23:26 run
drwxr-xr-x  3 root root  4096 Mar 28 23:26sbin
-rw-r--r--  1 root root 21006509 Apr 25 05:09 springmvc.jar
drwxr-xr-x  2 root root  4096 Mar 28 23:26 srv
dr-xr-xr-x 13 root root   0 Apr 25 05:49 sys
drwxrwxrwt  7 root root  4096 Apr 25 05:50 tmp
drwxr-xr-x  25 root root  4096 Mar 21 22:51 usr
drwxr-xr-x  28 root root  4096 Mar 21 22:51 var
root@1a7eda9e83d:/# tree
bash: tree: command not found
root@1a7eda9e83d:/# exit
exit
krishna@krishna-PC MINGW64 ~
$
```

rtup date [Tue Apr 25 05:50:03 UTC 2017]; root of context hierarchy

```

MINGW64:/c/Users/krishna/Dockerwork/springboot-mvc-demo
2017-04-25 05:50:12.676 [INFO] --- [lost-startStop-1] o.s.b.w.servlet.FilterRegistrationBean : Mapping filter: 'characterEncodingFilter' to: [/**]
2017-04-25 05:50:12.677 [INFO] --- [lost-startStop-1] o.s.b.w.servlet.FilterRegistrationBean : Mapping filter: 'hiddenHttpMethodFilter' to: [/**]
2017-04-25 05:50:12.684 [INFO] --- [lost-startStop-1] o.s.b.w.servlet.FilterRegistrationBean : Mapping filter: 'httpPutFormContentFilter' to: [/**]
2017-04-25 05:50:14.206 [INFO] --- [main] o.w.s.m.n.a.RequestMappingHandlerAdapter : Looking for @ControllerAdvice: org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext@36e9db: startup date [Tue Apr 25 05:50:03 UTC 2017]; root of context hierarchy
2017-04-25 05:50:14.491 [INFO] --- [main] o.w.s.m.n.a.RequestMappingHandlerMapping : Mapped " {@greeting}" onto public java.lang.String org.pjay.TemplateController.greeting()
2017-04-25 05:50:14.500 [INFO] --- [main] o.w.s.m.n.a.RequestMappingHandlerMapping : Mapped " {@templatel}" onto public java.lang.String org.pjay.TemplateController.templatel()
2017-04-25 05:50:14.510 [INFO] --- [main] o.w.s.m.n.a.RequestMappingHandlerMapping : Mapped " {@error,produces=[text/html]}" onto public org.springframework.http.ResponseEntity<org.springframework.web.BasicErrorController> org.springframework.boot.autoconfigure.web.BasicErrorController.error(javax.servlet.http.HttpServletRequest)
2017-04-25 05:50:14.525 [INFO] --- [main] o.w.s.m.n.a.RequestMappingHandlerMapping : Mapped " {@error}" onto public org.springframework.http.ResponseEntity<org.springframework.web.BasicErrorController.error(javax.servlet.http.HttpServletResponse)
2017-04-25 05:50:14.649 [INFO] --- [main] o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/webjars/**] onto handler of type [class org.springframework.web.servlet.handler.SimpleUrlHandlerMapping]
2017-04-25 05:50:14.657 [INFO] --- [main] o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/**/favicon.ico] onto handler of type [class org.springframework.web.servlet.handler.SimpleUrlHandlerMapping]
2017-04-25 05:50:14.836 [INFO] --- [main] o.w.s.m.n.a.RequestMappingHandlerMapping : Adding welcome page: class path resource [static/index.html]
2017-04-25 05:50:15.168 [INFO] --- [main] o.w.s.m.n.a.RequestMappingHandlerMapping : Registering beans for JMX exposure on startup
2017-04-25 05:50:15.282 [INFO] --- [main] o.s.b.c.e.TomcatEmbeddedServletContainer : Tomcat started on port(s): 8080 (http)
2017-04-25 05:50:16.914 [INFO] --- [main] o.s.w.s.handler.SimpleUrlHandlerMapping : Started SpringbootMvcDemo1Application in 18.205 seconds (JVM running for 18.205)
2017-04-25 05:50:16.939 [INFO] --- [main] org.pjay.SpringbootMvcDemo1Application : Started SpringbootMvcDemo1Application in 18.205 seconds (JVM running for 18.205)

krishna@krishna-PC MINGW64 ~/Dockerwork/springboot-mvc-demo
$ docker images
time="2017-04-25T11:33:38+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
REPOSITORY          TAG           IMAGE ID            CREATED             SIZE
springmvc           latest        c6d974424a1   49 minutes ago   340 MB
java:8-jdk           latest        9e89f427fca   7 days ago       310 MB
<none>              <none>        a185c1edfa21  7 days ago       310 MB
<none>              <none>        e31fdeaceac1  7 days ago       3.99 MB
<none>              <none>        55000ed0ddde  7 days ago       3.99 MB
openjdk             8-jdk         b8767c6a413   4 weeks ago      310 MB
hello-world         latest        4ea15266388   2 weeks ago      3.99 MB
hello-world         latest        48hs5124h2768  3 months ago     1.84 kB

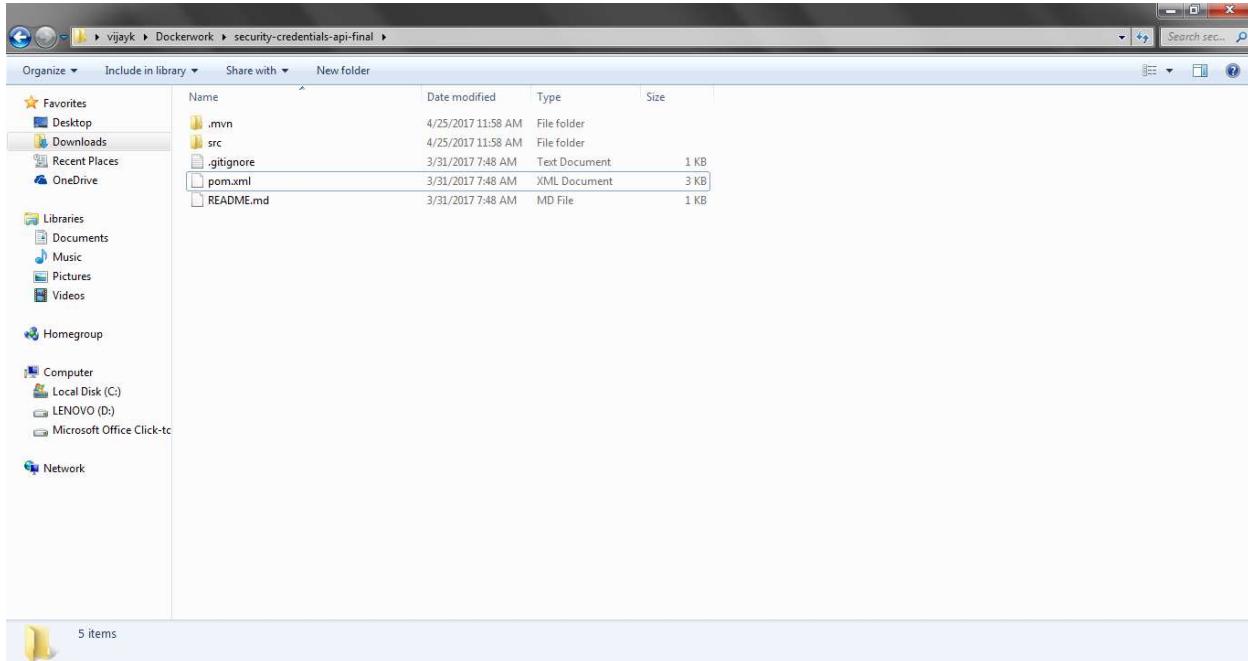
krishna@krishna-PC MINGW64 ~/Dockerwork/springboot-mvc-demo
$ docker kill zealous_boyd
time="2017-04-25T11:33:38+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
CONTAINER ID        IMAGE          COMMAND             CREATED            STATUS              PORTS               NAMES
1a7eda9e83d        springmvc      "java -jar spring... "  13 minutes ago   Up 13 minutes   0.0.0.0:8080->8080/tcp   zealous_boyd

krishna@krishna-PC MINGW64 ~/Dockerwork/springboot-mvc-demo
$ docker stop zealous_boyd
time="2017-04-25T11:33:38+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
zealous_boyd

krishna@krishna-PC MINGW64 ~/Dockerwork/springboot-mvc-demo
$ docker ps
time="2017-04-25T11:33:38+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
CONTAINER ID        IMAGE          COMMAND             CREATED            STATUS              PORTS               NAMES

```

## Let's deploy spring boot web services



```
MINGW64:/c/Users/krishna/Dockerwork/security-credentials-api-final

.
.
.

krishna is configured to use the default machine with IP 172.168.22.199
For help getting started, check out the docs at https://docs.docker.com

Start interactive shell
krishna@krishna-PC MINGW64 ~
$ pod
/c/Users/krishna
krishna@krishna-PC MINGW64 ~
$ cd Dockerwork
krishna@krishna-PC MINGW64 ~/Dockerwork
$ ls
total 28
drwxr-xr-x 1 krishna 197121 0 Apr 25 10:22 Code/
drwxr-xr-x 1 krishna 197121 0 Apr 18 02:10 docker-alpine/
drwxr-xr-x 1 krishna 197121 0 Apr 18 02:57 docker-alpine-scriptfile/
drwxr-xr-x 1 krishna 197121 0 Apr 25 11:58 docker-workspace-alpine/
drwxr-xr-x 1 krishna 197121 0 Apr 25 11:58 Dockerfile
drwxr-xr-x 1 krishna 197121 0 Apr 25 11:35 springboot-wec-docker/
krishna@krishna-PC MINGW64 ~/Dockerwork
$ cd security-credentials-api-final/
krishna@krishna-PC MINGW64 ~/Dockerwork/security-credentials-api-final
$ touch Dockerfile
krishna@krishna-PC MINGW64 ~/Dockerwork/security-credentials-api-final
$
```

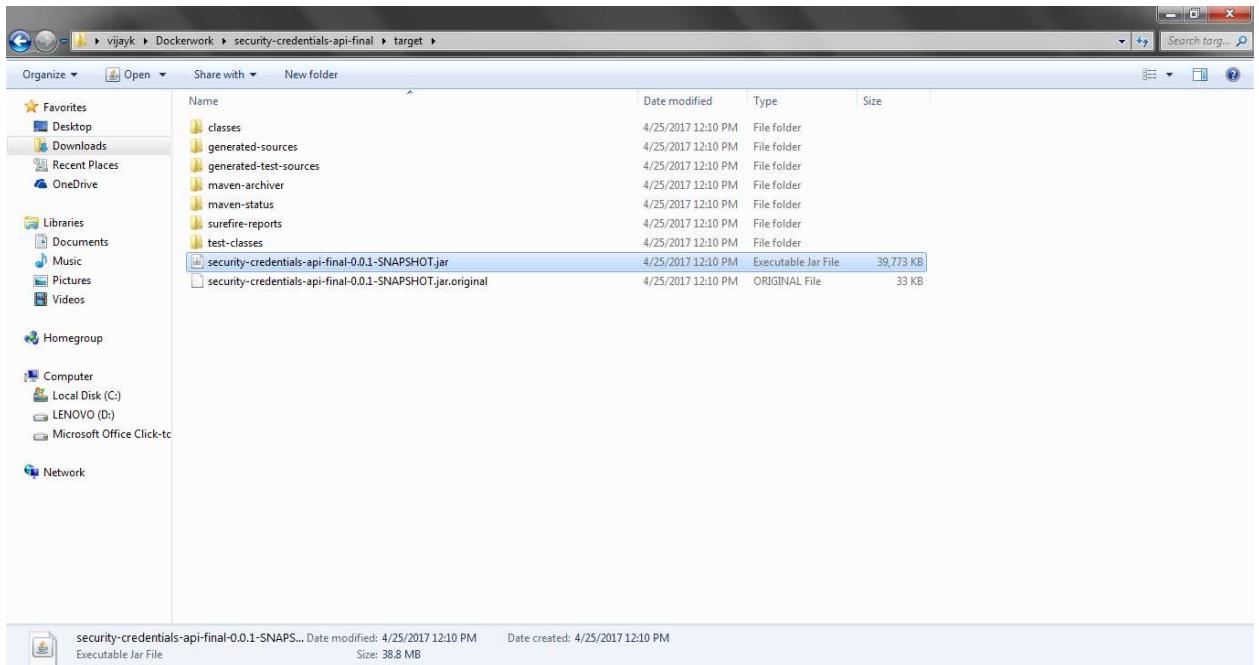
```
mvn install
C:\Users\krishna\Documents\GitHub\security-credentials-api-final>mvn install
[INFO] Scanning for projects...
[INFO]
[INFO] Building security-credentials-api-final 0.0.1-SNAPSHOT
[INFO]
[INFO] Downloading: https://repo.maven.apache.org/nexus2/com/h2database/h2/1.4.193/h2-1.4.193.pom
Downloaded: https://repo.maven.apache.org/nexus2/com/h2database/h2/1.4.193/h2-1.4.193.pom (960 B at 0.3 KB/sec)
[INFO] Downloading: https://repo.maven.apache.org/nexus2/maven-repository-metadata/maven-metadata-jboss-connector-jboss-5.1.40-redhat-1-connected-jboss-5.1.40-redhat-1-connected-jboss-5.1.49.pom
Downloaded: https://repo.maven.apache.org/nexus2/maven-repository-metadata/maven-metadata-jboss-connector-jboss-5.1.40-redhat-1-connected-jboss-5.1.49.pom (2 KB at 2.9 KB/sec)
[INFO] Downloading: https://repo.maven.apache.org/nexus2/org/postgresql/postgresql/9.4.1212.jre7/postgresql-9.4.1212.jre7.pom
Downloaded: https://repo.maven.apache.org/nexus2/org/postgresql/postgresql/9.4.1212.jre7/postgresql-9.4.1212.jre7.pom (5 KB at 13.7 KB/sec)
[INFO] Downloading: https://repo.maven.apache.org/nexus2/org/postgresql/pgjdbc-core/pgjdbc-core/prevjre-1.1.2/pgjdbc-core/prevjre-1.1.2.pom
Downloaded: https://repo.maven.apache.org/nexus2/org/postgresql/pgjdbc-core/pgjdbc-core/prevjre-1.1.2/pgjdbc-core/prevjre-1.1.2.pom (7 KB at 20.9 KB/sec)
[INFO] Downloading: https://repo.maven.apache.org/nexus2/org/postgresql/pgjdbc-core-parent/1.1.2/pgjdbc-core-parent/1.1.2.pom
Downloaded: https://repo.maven.apache.org/nexus2/org/postgresql/pgjdbc-core-parent/1.1.2/pgjdbc-core-parent/1.1.2.pom (16 KB at 33.5 KB/sec)
[INFO] Downloading: https://repo.maven.apache.org/nexus2/org/postgresql/pgjdbc-versions/1.1.2/pgjdbc-versions/1.1.2.pom
Downloaded: https://repo.maven.apache.org/nexus2/org/postgresql/pgjdbc-versions/1.1.2/pgjdbc-versions/1.1.2.pom (23 KB at 46.5 KB/sec)
[INFO] Downloading: https://repo.maven.apache.org/nexus2/org/postgresql/pgjdbc-versions/1.1.2/pgjdbc-versions/1.1.2.pom
Downloaded: https://repo.maven.apache.org/nexus2/org/postgresql/pgjdbc-versions/1.1.2/pgjdbc-versions/1.1.2.pom (23 KB at 46.5 KB/sec)
[INFO] Downloading: https://repo.maven.apache.org/nexus2/com/microsoft/sqlserver/mssql-jdbc/6.1.0.jre8/mssql-jdbc-6.1.0.jre8.pom
Downloaded: https://repo.maven.apache.org/nexus2/com/microsoft/sqlserver/mssql-jdbc/6.1.0.jre8/mssql-jdbc-6.1.0.jre8.pom (5 KB at 10.8 KB/sec)
[INFO] Downloading: https://repo.maven.apache.org/nexus2/com/microsoft/azure/azure-keyvault/0.9.3/azure-keyvault-0.9.3.pom
Downloaded: https://repo.maven.apache.org/nexus2/com/microsoft/azure/azure-keyvault/0.9.3/azure-keyvault-0.9.3.pom (6 KB at 16.7 KB/sec)
[INFO] Downloading: https://repo.maven.apache.org/nexus2/com/microsoft/azure/azure-0.9.3/azure-0.9.3.pom
Downloaded: https://repo.maven.apache.org/nexus2/com/microsoft/azure/azure-0.9.3/azure-0.9.3.pom (15 KB at 40.6 KB/sec)
[INFO] Downloading: https://repo.maven.apache.org/nexus2/com/microsoft/azure/azure-hom/0.9.3/azure-hom-0.9.3.pom
Downloaded: https://repo.maven.apache.org/nexus2/com/microsoft/azure/azure-hom/0.9.3/azure-hom-0.9.3.pom (4 KB at 7.8 KB/sec)
[INFO] Downloading: https://repo.maven.apache.org/nexus2/com/microsoft/azure/azure-identity/0.9.3/azure-identity-0.9.3.pom
Downloaded: https://repo.maven.apache.org/nexus2/com/microsoft/azure/azure-identity/0.9.3/azure-identity-0.9.3.pom (1 KB at 30.6 KB/sec)
[INFO] Downloading: https://repo.maven.apache.org/nexus2/org/apache/httpcomponents/httpclient/4.5.2/httpclient-4.5.2.pom
Downloaded: https://repo.maven.apache.org/nexus2/org/apache/httpcomponents/httpclient/4.5.2/httpclient-4.5.2.pom (7 KB at 19.3 KB/sec)
[INFO] Downloading: https://repo.maven.apache.org/nexus2/org/apache/httpcomponents/httpcomponents-client/4.5.2/httpcomponents-client-4.5.2.pom
Downloaded: https://repo.maven.apache.org/nexus2/org/apache/httpcomponents/httpcomponents-client/4.5.2/httpcomponents-client-4.5.2.pom (16 KB at 47.7 KB/sec)
[INFO] Downloading: https://repo.maven.apache.org/nexus2/org/apache/httpcomponents/project/7/project-7.pom
Downloaded: https://repo.maven.apache.org/nexus2/org/apache/httpcomponents/project/7/project-7.pom (27 KB at 77.6 KB/sec)
[INFO] Downloading: https://repo.maven.apache.org/nexus2/org/apache/httpcomponents/httpcore/4.4.5/httpcore-4.4.5.pom
Downloaded: https://repo.maven.apache.org/nexus2/org/apache/httpcomponents/httpcore/4.4.5/httpcore-4.4.5.pom (6 KB at 16.9 KB/sec)
[INFO] Downloading: https://repo.maven.apache.org/nexus2/org/apache/httpcomponents/httpcomponents-core/4.4.5/httpcomponents-core-4.4.5.pom
```

```

on C:\Windows\system32\cmd.exe
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_info (security_id, user_name) values (null, ?)
Hibernate: insert into security_question_answer (qna_id, answer, question) values (null, ?, ?)
Hibernate: insert into security_question_answer (qna_id, answer, question) values (null, ?, ?)
Hibernate: insert into security_question_answer (qna_id, answer, question) values (null, ?, ?)
Hibernate: insert into security_question_answer (qna_id, answer, question) values (null, ?, ?)
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_token_info (user_token_id, token_id, user_name) values (null, ?, ?)
Hibernate: insert into user_token_info (user_token_id, token_id, user_name) values (null, ?, ?)
Hibernate: insert into user_token_info (user_token_id, token_id, user_name) values (null, ?, ?)
Hibernate: insert into user_token_info (user_token_id, token_id, user_name) values (null, ?, ?)
2017-04-25 12:10:39.893 INFO 12504 --- [           main] p.SecurityCredentialsApiApplicationTests : Started SecurityCredentialsApiApplicationTests in 13.395 seconds (JVM running for 15.395s)
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO] --- maven-jar-plugin:2.6:jar (default-jar) @ security-credentials-api-final ---
[INFO] Building jar: C:\Users\krishna\Dockervork\security-credentials-api-final\target\security-credentials-api-final-0.0.1-SNAPSHOT.jar
[INFO] --- spring-boot-maven-plugin:1.4.2.RELEASE:repackage (default) @ security-credentials-api-final ---
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ security-credentials-api-final ---
[INFO] Installing C:\Users\krishna\Dockervork\security-credentials-api-final\target\security-credentials-api-final-0.0.1-SNAPSHOT.jar to C:\Users\krishna\.m2\repository\org\pjay\security-credentials-api-final\0.0.1-SNAPSHOT\security-credentials-api-final-0.0.1-SNAPSHOT.jar
[INFO] Installing C:\Users\krishna\Dockervork\security-credentials-api-final\pom.xml to C:\Users\krishna\.m2\repository\org\pjay\security-credentials-api-final\0.0.1-SNAPSHOT\security-credentials-api-final-0.0.1-SNAPSHOT.pom
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 22.558 s
[INFO] Finished at: 2017-04-25T12:10:43+05:30
[INFO] Final Memory: 32M/137M
[INFO]

C:\Users\krishna\Dockervork\security-credentials-api-final>

```



A screenshot of the Sublime Text editor window. The title bar reads "C:\Users\krishna\Dockervork\security-credentials-api-final\Dockerfile - Sublime Text (UNREGISTERED)". The menu bar includes File, Edit, Selection, Find, View, Goto, Tools, Project, Preferences, and Help. There are seven tabs open in the tab bar: "Dockerfile — docker-a", "ImageResize.java", "Dockerfile — docker-java-helloworld", "Dockerfile — springboot-mvc-demo", "Dockerfile — security-credentials-api-final", "help.txt", and "ReplaceFileContents.java". The main editor area contains a Dockerfile with the following content:

```
FROM openjdk:8-jre
EXPOSE 8080
ADD ./target/security-credentials-api-final-0.0.1-SNAPSHOT.jar:springrest.jar
ENTRYPOINT ["java","-jar","springrest.jar"]
```

A screenshot of a terminal window titled "MINGW64 /c/Users/krishna/Dockervork/security-credentials-api-final". The session starts with the user navigating to the directory and creating a Dockerfile. It then attempts to build the image but fails due to a certificate issue. The user then lists all Docker options, which are detailed below. Finally, the user runs a command to list files in the current directory.

```
krishna@Krishna-PC MINGW64 ~/Dockervork
$ cd security-credentials-api-final
krishna@Krishna-PC MINGW64 ~/Dockervork/security-credentials-api-final
$ touch Dockerfile
krishna@Krishna-PC MINGW64 ~/Dockervork/security-credentials-api-final
$ docker build -t=hello
time="2017-04-25T12:14:43+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Usage: docker build [OPTIONS] PATH | URL | -
Build an image from a Dockerfile
Options:
--build-arg list          Set build-time variables (default [])
--cache-from stringSlice   Images to consider as cache sources
--cgroupparent string      Optional parent cgroup for the container
--compress                  Compress the build context using gzip
--cpu-period int            Limit the CPU CPS (Completely Fair Scheduler) period
--cpu-quota int             Limit the CPU quota (Completely Fair Scheduler) quota
--cpu-shares int            CPU shares (relative weight)
--cpuset-cpus string        CPUs in which to allow execution (0-3, 0.1)
--cpuset-mems string        MEMs in which to allow execution (0-3, 0.1)
--disable-content-trust     Skip image verification (default true)
--file string                Name of the Dockerfile (Default is 'Dockerfile')
-f, --force-rm               Always remove intermediate containers
--help                      Print usage
--isolation string          Container isolation technology
-l, --label list              Set metadata for an image (default [])
--memory string              Memory limit
--memory-swap string         Swap limit equal to memory plus swap; '-1' to enable unlimited swap
--network string             Set the networking mode for the RUN instructions during build (default "default")
--no-cache                  Do not use cache when building the image
--no-run                     Do not run the command in the image
-q, --quiet                  Suppress the build output and print image ID on success
--rm                         Remove intermediate containers after a successful build (default true)
--security-opt stringSlice   Security options
--size string                Image size (optional); default value is 64MB
-t, --tag string              Name and optionally a tag in the 'name:tag' format (default [])
--ulimit ulimit               Ulimit options (default [])
krishna@Krishna-PC MINGW64 ~/Dockervork/security-credentials-api-final
$ ls
total 14
-rw-r--r-- 1 krishna 197121 165 0pr 25 12:12 Dockerfile
-rw-r--r-- 1 krishna 197121 252 0pr 25 12:13 Imp.txt
-rw-r--r-- 1 krishna 197121 2596 0pr 25 12:13 pom.xml
-rw-r--r-- 1 krishna 197121 2 0pr 25 07:49 README.md
drwxr-xr-x 1 krishna 197121 0 0pr 25 11:58 target/
drwxr-xr-x 1 krishna 197121 0 0pr 25 12:10 target/
krishna@Krishna-PC MINGW64 ~/Dockervork/security-credentials-api-final
$
```

```

MINGW64:/c/Users/krishna/Dockerwork/security-credentials-api-final krisna@krishna-PC MINGW64 ~/Dockerwork/security-credentials-api-final
$ ls
total 14
-rw-r--r-- 1 krishna 197121 165 Apr 25 12:12 Dockerfile
-rw-r--r-- 1 krishna 197121 752 Apr 25 12:13 Imp.txt
-rw-r--r-- 1 krishna 197121 2595 Apr 25 12:09 pom.xml
-rw-r--r-- 1 krishna 197121 92 May  1 07:46 README.md
drwxr-xr-x 1 krishna 197121 0 Apr 25 11:58 target/
drwxr-xr-x 1 krishna 197121 0 Apr 25 12:10 target/
krisna@krishna-PC MINGW64 ~/Dockerwork/security-credentials-api-final
$ docker build -t springbootrest .
"docker build" requires exactly 1 argument(s).
See 'docker build --help'.
Usage: docker build [OPTIONS] PATH | URL | -
Build an image from a Dockerfile
krisna@krishna-PC MINGW64 ~/Dockerwork/security-credentials-api-final
$ docker build -t springbootrest .
time="2017-04-25T12:16:19+00:00" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Sending build context to Docker daemon 41.03 MB
Step 1/4 : FROM openjdk:8-jre
--> b3ce7cab8d3
Step 2/4 : ADD ./target/security-credentials-api-final-0.0.1-SNAPSHOT.jar springrest.jar
002260972e52
Removing intermediate container bc9eb857c8c
Step 3/4 : ENTRYPOINT java -jar springrest.jar
--> Running in c62168df479e
129aefff0330
Removing intermediate container c62168df479e
Successfully built 129aefff0330
SECURITY WARNING: You are building a Docker image from Windows against a non-Windows Docker host. All files and directories added to build context will have '-rwxr-xr--' check and reset permissions for sensitive files and directories.
krisna@krishna-PC MINGW64 ~/Dockerwork/security-credentials-api-final
$ docker images
REPOSITORY          TAG      IMAGE ID      CREATED        SIZE
springbootrest      latest   129aefff0330  14 hours ago  320 kB
springbootrest      latest   c34c124d54a1  About an hour ago  331 MB
java-helloworld     latest   9e0894f37feaa  7 days ago   310 MB
<none>              <none>  a185c1edfa21  7 days ago   310 MB
<none>              <none>  e81ffdeacacd  7 days ago   3.99 MB
<none>              <none>  55490695909c  7 days ago   3.99 MB
openjdk             8-jre    b8ce7cab8d3  4 weeks ago  310 MB
alpine               latest   4a415e366388  7 weeks ago  3.99 MB
hello-world         latest   48hs5124b2768  3 months ago  1.84 kB
krisna@krishna-PC MINGW64 ~/Dockerwork/security-credentials-api-final
$ 

```

```

MINGW64:/c/Users/krishna/Dockerwork/security-credentials-api-final krisna@krishna-PC MINGW64 ~/Dockerwork/security-credentials-api-final
--link list           Add link to another container (default [])
--link-local-ip list Container IPv4/IPv6 link-local addresses (default [])
--log-driver string  Logging driver for the container
--log-opt string      Log options for the container (default [])
--mac-address string  Container MAC address (<e.g. 92:00:00:00:00:00>)
--memory string       Memory limit
--memory-reservation string Memory soft limit
--memory-swap string  Swap limit relative to memory plus swap: '-1' to enable unlimited swap
--memoryswapiness int tune container memory swapiness (0 to 100) (default -1)
--name string         Assign a name to the container
--network string      Connect a container to a network (default "default")
--network-alias list  Add network-scoped alias for the container (default [])
--network-opt string  Container network options
--non-kill-disable   Disable OOM Killer
--oom-score-adj int  Tune host's OOM preferences (-1000 to 1000)
--pid string          PID namespace to use
--pid-limit int      Limit container's pid limit (set -1 for unlimited)
--privileged          Give extended privileges to this container
--publish string      Publish a container's port(s) to the host (default [])
--publish-all          Publish all exposed ports to random ports
--read-only           Mount the container's root filesystem as read only
--rm                  Remove the container when the container exits (default "no")
--rmi                 Automatically remove the container when it exits
--runtime string      Runtime to use for this container
--security-opt list   Security Options (default [])
--sig-proxy string    Set the default signal to be sent to the process (default 64MB)
--stop-signal string  Previous received signals to the process (default true)
--stop-signal string  Signal to stop a container, 15 by default (default "15")
--stop-timeout int    Timeout (in seconds) to stop a container
--storage-opt list   Storage driver options for the container (default [])
--sysctl string        Sysctl options for the container (default [])
--tmpfs string         Mount a tmpfs directory (default [])
--tty                 Allocate a pseudo-TTY
--ulimit ulimit       Ulimit options (default [])
--user string          Username or UID[:GID] format: <name|uid>[:<group|gid>]
--uts string           UTS namespace to use
--volume list          Bind mount a volume (default [])
--volume-driver string Optional volume driver for the container
--volume-opt list     Mount options from a specified container(s) (default [])
--workdir string       Working directory inside the container
krisna@krishna-PC MINGW64 ~/Dockerwork/security-credentials-api-final
$ docker run -p 8080:8080 -t springbootrest_

```

```

MINGW64:/c/Users/krishna/Dockerwork/security-credentials-api-final
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_info (security_id, user_name) values (null, ?)
Hibernate: insert into security_question_answer (qna_id, answer, question) values (null, ?, ?)
Hibernate: insert into security_question_answer (qna_id, answer, question) values (null, ?, ?)
Hibernate: insert into security_question_answer (qna_id, answer, question) values (null, ?, ?)
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Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_info (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_info (security_id, user_name) values (null, ?)
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Hibernate: insert into security_question_answer (qna_id, answer, question) values (null, ?, ?)
Hibernate: insert into security_question_answer (qna_id, answer, question) values (null, ?, ?)
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Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_info (security_id, user_name) values (null, ?)
Hibernate: insert into security_question_answer (qna_id, answer, question) values (null, ?, ?)
Hibernate: insert into security_question_answer (qna_id, answer, question) values (null, ?, ?)
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Hibernate: insert into security_question_answer (qna_id, answer, question) values (null, ?, ?)
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Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_info (security_id, user_name) values (null, ?)
2017-04-25 06:40:42.609  INFO 1 --- [main] o.p.SecurityCredentialsApiApplication : Started SecurityCredentialsApiApplication in 29.087 seconds (JVM running

```

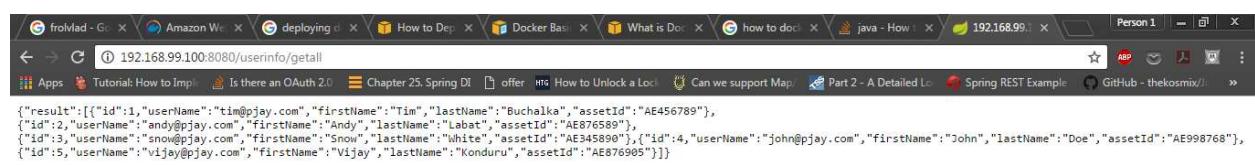
```

MINGW64:/c/Users/krishna

docker is configured to use the default machine with IP 192.168.99.100
For help getting started, check out the docs at https://docs.docker.com

Start interactive shell
krishna@krishna-PC MINGW64 ~
$ docker ps
time="2017-04-25T12:22:44+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
d233aced5b76      springbootrest     "java -jar spring..."   4 minutes ago    Up 4 minutes          0.0.0.0:8080->8080/tcp   nifty_brahmagupta
krishna@krishna-PC MINGW64 ~
$ docker-machine ip
192.168.99.100
krishna@krishna-PC MINGW64 ~
$ 

```



```
MINGW64:/c/Users/krishna/Dockerwork/security-credentials-api-final
Hibernate: insert into security_question_answer (qna_id, answer, question) values (null, ?, ?)
Hibernate: insert into security_question_answer (qna_id, answer, question) values (null, ?, ?)
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_qna (security_id, qna_id) values (null, ?)
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Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_info (security_id, user_name) values (null, ?)
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Hibernate: insert into security_question_answer (qna_id, answer, question) values (null, ?, ?)
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Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
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Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_info (security_id, user_name) values (null, ?)
Hibernate: insert into security_question_answer (qna_id, answer, question) values (null, ?, ?)
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Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
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Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_info (security_id, user_name) values (null, ?)
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_info (security_id, user_name) values (null, ?)
Hibernate: insert into user_security_info (security_id, user_name) values (null, ?)
Hibernate: insert into user_token_info (user_token_id, token_id, user_name) values (null, ?, ?)
Hibernate: insert into user_token_info (user_token_id, token_id, user_name) values (null, ?, ?)
Hibernate: insert into user_token_info (user_token_id, token_id, user_name) values (null, ?, ?)
Hibernate: insert into user_token_info (user_token_id, token_id, user_name) values (null, ?, ?)
2017-04-25 06:48:42.009 [INFO] --- [main] o.p.SecurityCredentialsApiApplication : Started SecurityCredentialsApiApplication in 29.087 seconds (JVM running)
2017-04-25 06:53:17.314 [INFO] --- [nio-8080-exec-1] o.a.c.c.Tomcat@localhost[]/: Initializing Spring FrameworkServlet 'dispatcherServlet'
2017-04-25 06:53:17.315 [INFO] --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : FrameworkServlet 'dispatcherServlet' initialization started
2017-04-25 06:53:17.433 [INFO] --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : FrameworkServlet 'dispatcherServlet' initialization completed in 117 ms
2017-04-25 06:53:17.522 [WARN] --- [nio-8080-exec-1] o.s.web.servlet.PageNotFound : No mapping found for HTTP request with URI [/] in DispatcherServlet with name 'dispatcherServlet'
2017-04-25 06:53:44.360 [WARN] --- [nio-8080-exec-41] o.s.web.servlet.PageNotFound : No mapping found for HTTP request with URI [/favicon.ico] in DispatcherServlet with name 'dispatcherServlet'
2017-04-25 06:53:44.633 [WARN] --- [nio-8080-exec-51] o.s.web.servlet.PageNotFound : No mapping found for HTTP request with URI [/favicon.ico] in DispatcherServlet with name 'dispatcherServlet'
2017-04-25 06:54:22.903 [WARN] --- [nio-8080-exec-81] o.s.web.servlet.PageNotFound : No mapping found for HTTP request with URI [/favicon.ico] in DispatcherServlet with name 'dispatcherServlet'
```

```
MINGW64:/c/Users/krishna
[ 0% ][-----][ 0% ]
krishna@krishna-PC MINGW64 ~
$ docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
d233aced5b76        springbootrest      "java -jar spring..."   4 minutes ago       Up 4 minutes          0.0.0.0:8080->8080/tcp   nifty_brahmagupta
krishna@krishna-PC MINGW64 ~
$ docker-machine ip
192.168.99.100
krishna@krishna-PC MINGW64 ~
$ docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
d233aced5b76        springbootrest      "java -jar spring..."   8 minutes ago       Up 8 minutes          0.0.0.0:8080->8080/tcp   nifty_brahmagupta
krishna@krishna-PC MINGW64 ~
$ docker stop --help
time="2017-04-25T12:26:54+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Usage: docker stop [OPTIONS] CONTAINER [CONTAINER...]
Stop one or more running containers

Options:
--help           Print usage
-t, --time int   Seconds to wait for stop before killing it (default 10)
krishna@krishna-PC MINGW64 ~
$ docker stop d233aced5b76
time="2017-04-25T12:27:26+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
d233aced5b76
krishna@krishna-PC MINGW64 ~
```

```

MINGW64:/c/Users/krishna/Dockerwork/security-credentials-api-final
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into security_question_answer (qna_id, answer, question) values (null, ?, ?)
Hibernate: insert into security_question_answer (qna_id, answer, question) values (null, ?, ?)
Hibernate: insert into security_question_answer (qna_id, answer, question) values (null, ?, ?)
Hibernate: insert into security_question_answer (qna_id, answer, question) values (null, ?, ?)
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
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Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
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Hibernate: insert into security_question_answer (qna_id, answer, question) values (null, ?, ?)
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Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_security_qna (security_id, qna_id) values (?, ?)
Hibernate: insert into user_token_info (user_token_id, token_id, user_name) values (null, ?, ?)
Hibernate: insert into user_token_info (user_token_id, token_id, user_name) values (null, ?, ?)
Hibernate: insert into user_token_info (user_token_id, token_id, user_name) values (null, ?, ?)
Hibernate: insert into user_token_info (user_token_id, token_id, user_name) values (null, ?, ?)
2017-04-25 06:53:14 [INFO] --- [nio-8888-exec-1] o.s.web.servlet.DispatcherServlet : Started SecurityCredentialsApiApplication in 29.007 seconds (JVM running since 2017-04-25 06:53:14.000 +0530 IST) [localhost:1234]
2017-04-25 06:53:17.315 [INFO] --- [nio-8888-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Spring FrameworkServlet 'dispatcherServlet'
2017-04-25 06:53:17.433 [INFO] --- [nio-8888-exec-1] o.s.web.servlet.DispatcherServlet : FrameworkServlet 'dispatcherServlet': initialization started
2017-04-25 06:53:17.522 [INFO] --- [nio-8888-exec-1] o.s.web.servlet.DispatcherServlet : No mapping found for HTTP request with URI [/] in DispatcherServlet with name 'dispatcherServlet'
2017-04-25 06:53:17.522 [INFO] --- [nio-8888-exec-1] o.s.web.servlet.DispatcherServlet : No mapping found for HTTP request with URI [/favicon.ico] in DispatcherServlet with name 'dispatcherServlet'
2017-04-25 06:53:44.633 [INFO] --- [nio-8888-exec-1] o.s.web.servlet.DispatcherServlet : No mapping found for HTTP request with URI [/favicon.ico] in DispatcherServlet with name 'dispatcherServlet'
Hibernate: select userinfo0_.user_id as user_id1_1_, userinfo0_.asset_id as asset_id2_1_, userinfo0_.first_name as first_name3_1_, userinfo0_.last_name as last_name4_1_, userinfo0_.user_info as user_info5_1_
2017-04-25 06:54:22.993 [WARN] --- [nio-8888-exec-8] o.s.web.servlet.PageNotFound : No mapping found for HTTP request with URI [/favicon.ico] in DispatcherServlet with name 'dispatcherServlet'
2017-04-25 06:55:06.939 [WARN] --- [nio-8888-exec-2] o.s.web.servlet.PageNotFound : No mapping found for HTTP request with URI [/] in DispatcherServlet with name 'dispatcherServlet'
2017-04-25 06:55:51.222 [WARN] --- [nio-8888-exec-3] o.s.web.servlet.PageNotFound : No mapping found for HTTP request with URI [/favicon.ico] in DispatcherServlet with name 'dispatcherServlet'
2017-04-25 06:57:20.417 [INFO] --- [nio-8888-exec-1] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Closing org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext@5a1f3e0: startup date [Tue Apr 25 06:48:16 UTC 2017]; root of context hierarchy
2017-04-25 06:57:20.417 [INFO] --- [nio-8888-exec-1] org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext : Unregistering JMX-exposed beans on shutdown
2017-04-25 06:57:20.448 [INFO] --- [nio-8888-exec-1] org.hibernate.tool.hbm2ddl.SchemaExport : Closing JPA EntityManagerFactory for persistence unit 'default'
2017-04-25 06:57:20.452 [INFO] --- [nio-8888-exec-1] org.hibernate.tool.hbm2ddl.SchemaExport : HHH000227: Running hbm2ddl schema export
Hibernate: drop table security_question_answer if exists
Hibernate: drop table user_token_info if exists
Hibernate: drop table user_security_qna if exists
Hibernate: drop table user_security_info if exists
Hibernate: drop table user_token_info if exists
2017-04-25 06:57:20.515 [INFO] --- [nio-8888-exec-1] org.hibernate.tool.hbm2ddl.SchemaExport : HHH000230: Schema export complete
krishna@krishna-PC MINGW64 ~ /Dockerwork/security-credentials-api-final
$
```

## docker info command

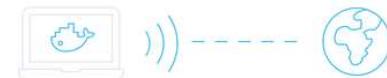
```

krishna@krishna-PC MINGW64 ~ /Dockerwork/security-credentials-api
$ docker info
time="2017-04-25T12:52:12+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Containers: 12
Images: 20
Server Version: 17.04.0-ce
Storage Driver: aufs
 Root Dir: /mnt/sda1/var/lib/docker/aufs
 Backing Filesystem: extfs
 Dirs: 39
Default Driver: json-file
Logging Driver: json-file
Cgroup Driver: cgroupfs
Plugins:
 0: local
 Network: bridge host macvlan null overlay
Swarm: inactive
Runtimes: runc
Default Runtime: runc
Init Binary: docker-init
Containerd Version: v1.12.1-rc1-422e31ce907fd9c3833a38d7b8ffd023e5a76e73
runc Version: 9c2d8d184e5da67c95d601382adf14862e4f2228
init Version: 949e6fa
Security Options:
  seccomp
    Profile: default
Kernel Version: 4.4.59-boot2docker
Operating System: Boot2Docker 17.04.0-ce (TCL 7.2); HEAD : c69677f - Thu Apr  6 16:26:16 UTC 2017
OSType: linux
Architecture: x86_64
CPUs: 1
Total Memory: 959.8 MiB
Name: krishna
ID: GLOW-R1QH-GO2N:HZCI-Z7NG:NGNC-B6Q9:XCP2:5WE6-ZU46:UQ2D:U05C
Docker Root Dir: /mnt/sda1/var/lib/docker
Debug Mode (Client): false
Debug Mode (Server): true
File Descriptors: 14
 Goroutines: 9
System Time: 2017-04-25T07:22:06.882503946Z
EventsListeners: 0
Registry: https://index.docker.io/v1/
Labels:
 provider=virtualbox
 Experimental: false
Insecure Registries:
 127.0.0.0/8
Live Restore Enabled: false
krishna@krishna-PC MINGW64 ~ /Dockerwork/security-credentials-api
$
```

Kitematic:

Currently Kitematic is alpha version, where you use the UI to pull images, search images and run. This is good place to start if you are not well versed with Docker commands.

First when you launch the app it will try native launch, which might fail if running on windows (might work if you are running on Linux). Then select option to open using virtual box.



Username

Password

[Forgot your password?](#)

## Connect to Docker Hub

Pull and run private Docker Hub images by connecting your Docker Hub account to Kitematic.

**LOG IN**

Don't have an account yet? [Sign Up](#)

[SKIP FOR NOW](#)

Enter your Docker hub user id and password or you can skip and explore available options.

The screenshot shows the Kitematic application interface. On the left, there's a sidebar with a list of local container entries. The main area displays a grid of recommended Docker images from Docker Hub. Each card includes the image name, maintainer, description, star count, size, and a 'CREATE' button.

Image Name	Maintainer	Description	Stars	Size	Action
hello-world-nginx	kitematic	A light-weight nginx container that demonstrates the features of Kitematic	80	2M	<a href="#">CREATE</a>
ghost	official	ghost	573	5M	<a href="#">CREATE</a>
jenkins	official	Jenkins	2.8K	21M	<a href="#">CREATE</a>
redis	official	redis	3.7K	256M	<a href="#">CREATE</a>
rethinkdb	official	rethinkdb	396	7M	<a href="#">CREATE</a>
minecraft	kitematic	minecraft	85	45K	<a href="#">CREATE</a>
solr	official	solr	374	2M	<a href="#">CREATE</a>
elasticsearch	official	elasticsearch	2.2K	66M	<a href="#">CREATE</a>
postgres	official	postgres	3.5K	49M	<a href="#">CREATE</a>
ubuntu-upstart	official	memcached	742	16M	<a href="#">CREATE</a>
rabbitmq	official	rabbitmq	1.3K	21M	<a href="#">CREATE</a>

Konduruvijayk... [User]

**Containers** + NEW

- alpine-linux-helloworld 55000ed0dd0e
- alpine-script e31fdeaceac1
- elegant\_mccarthy springbootrest1
- infallible\_kilby springmv
- modest\_cori 9e0094f37fea
- musing\_kilby springmv
- nifty\_brahmagupta springbootrest
- priceless\_varahamihira a185c1edfa21
- romantic\_engelbart hello-world
- silly\_lichterman springmv
- sleepy\_franklin hello-world
- zealous\_boyd springmv
- zoo\_vulture

**Search for Docker images from Docker Hub**

**FILTER BY** All Recommended My Repos My Images

**Recommended**

 <b>hello-world-nginx</b> A light-weight nginx container that demonstrates the features of Kitematic	 <b>ghost</b> ghost is a free and open source blogging platform written in JavaScript	 <b>rethinkdb</b> RethinkDB is an open-source, document database that makes it easy to build and scale realtime...	 <b>minecraft</b> The Minecraft multiplayer server allows two or more players to play Minecraft together
 <b>redis</b> Redis is an open source key-value store that functions as a data structure server.	 <b>elasticsearch</b> Elasticsearch is a powerful open source search and analytics engine that makes data easy to...	 <b>memcached</b> Free & open source, high-performance, distributed memory object caching system.	 <b>postgres</b> The PostgreSQL object-relational database system provides reliability and data integrity.
 <b>solr</b> Solr is the popular, blazing-fast, open source enterprise search platform built on Apache...	 <b>ubuntu-upstart</b> Upstart is an event-based replacement for the /sbin/init daemon which starts processes a...	 <b>memcached</b> Free & open source, high-performance, distributed memory object caching system.	 <b>rabbitmq</b> RabbitMQ is a highly reliable enterprise messaging system based on the emerging AMQP...
 <b>ghost</b> ghost is a free and open source blogging platform written in JavaScript	 <b>elasticsearch</b> Elasticsearch is a powerful open source search and analytics engine that makes data easy to...	 <b>memcached</b> Free & open source, high-performance, distributed memory object caching system.	 <b>rabbitmq</b> RabbitMQ is a highly reliable enterprise messaging system based on the emerging AMQP...

**Docker CLI** [Help] [Settings]

Konduruvijayk... [User]

**Containers** + NEW

- alpine-linux-helloworld 55000ed0dd0e
- alpine-script e31fdeaceac1
- elegant\_mccarthy springbootrest1
- infallible\_kilby springmv
- modest\_cori 9e0094f37fea
- musing\_kilby springmv
- nifty\_brahmagupta springbootrest
- priceless\_varahamihira a185c1edfa21
- romantic\_engelbart hello-world
- silly\_lichterman springmv
- sleepy\_franklin hello-world
- zealous\_boyd springmv
- zoo\_vulture

**Search for Docker images from Docker Hub**

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**Recommended**

 <b>hello-world-nginx</b> A light-weight nginx container that demonstrates the features of Kitematic	 <b>ghost</b> ghost is a free and open source blogging platform written in JavaScript	<b>Please select an image tag.</b> <span>[X]</span>	
 <b>redis</b> Redis is an open source key-value store that functions as a data structure server.	 <b>elasticsearch</b> Elasticsearch is a powerful open source search and analytics engine that makes data easy to...	2.46.2 <span style="background-color: #007bff; color: white; padding: 2px;">latest</span> 2.46.2-alpine 2.46.1-alpine 2.46.1 2.32.3 2.32.3-alpine 2.32.2 2.32.2-alpine	 <b>minecraft</b> The Minecraft multiplayer server allows two or more players to play Minecraft together
 <b>solr</b> Solr is the popular, blazing-fast, open source enterprise search platform built on Apache...	 <b>memcached</b> Free & open source, high-performance, distributed memory object caching system.	 <b>postgres</b> The PostgreSQL object-relational database system provides reliability and data integrity.	 <b>rabbitmq</b> RabbitMQ is a highly reliable enterprise messaging system based on the emerging AMQP...
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**Docker CLI** [Help] [Settings]

Containers

+ NEW

java

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Other Repositories			
<a href="#">official java</a> Java is a concurrent, class-based, and object-oriented programming language.  1.4K ⚡ 21M 0.00 CREATE	<a href="#">blocklabelops java</a> Oracle Java Base Images. Alpine and CentOS available.  4.0K ⚡ 47K 0.00 CREATE	<a href="#">frekele java</a> docker run --rm --name java frekele/java  4.0K ⚡ 348K 0.00 CREATE	
<a href="#">nimmis java</a> This is docker images of Ubuntu 14.04 LTS with different versions of java  10.0K ⚡ 12K 0.00 CREATE	<a href="#">anapsix alpine-java</a> Oracle Java 8 (and 7) with GLIBC 2.23 over AlpineLinux  204.0K ⚡ 932K 0.00 CREATE	<a href="#">dwolla java</a> Dwolla's custom Java image  1.0K ⚡ 14K 0.00 CREATE	
<a href="#">lscience java</a> Java Docker images based on Alpine Linux  6.0K ⚡ 9K 0.00 CREATE	<a href="#">isuper java-oracle</a> This repository contains all Java releases from Oracle, including JDK, JRE and Server JRE.  56.0K ⚡ 49K 0.00 CREATE	<a href="#">official ibmjava</a> Official IBM® SDK, Java™ Technology Edition Docker Image.  25.0K ⚡ 232K 0.00 CREATE	
<a href="#">lwieske java-8</a> Oracle Java 8 Container - Full + Slim - Based off Alpine + CentOS (8u00 - 8u121)  33.0K ⚡ 154K 0.00 CREATE	<a href="#">andreluzsilva java</a> Docker images for java applications  4.0K ⚡ 4K 0.00 CREATE	<a href="#">nimmis java-centos</a> This is docker images of CentOS 7 with different versions of java  25.0K ⚡ 18K 0.00 CREATE	

Docker CLI

Containers

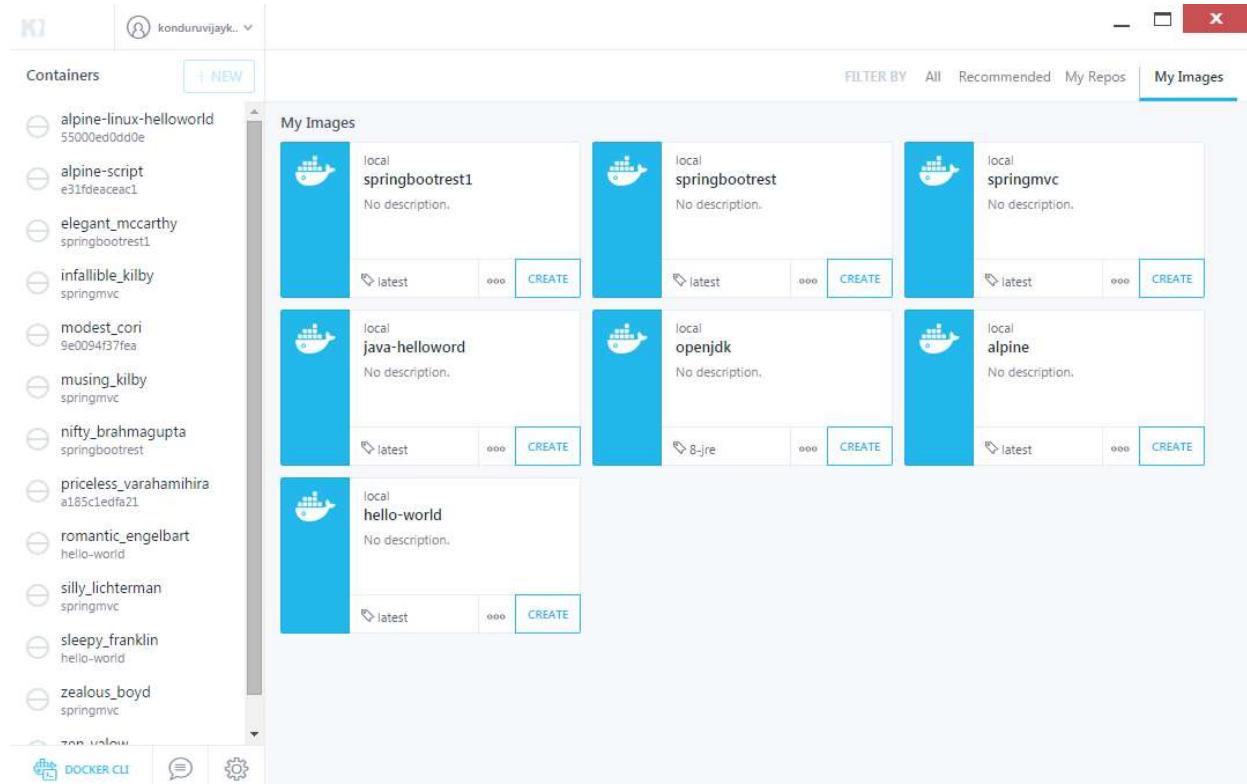
+ NEW

tomcat

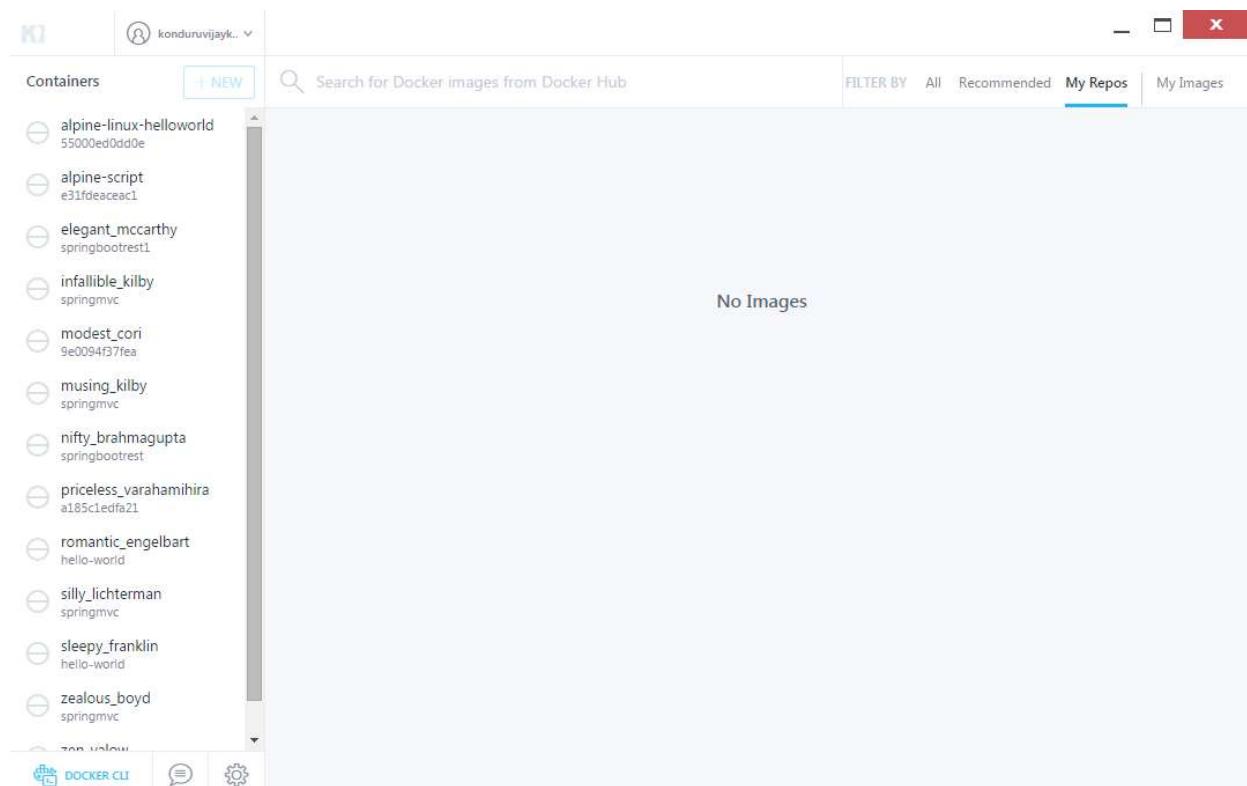
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Other Repositories			
<a href="#">official tomcat</a> Apache Tomcat is an open source implementation of the Java Servlet and JavaServer Pages...  1.3K ⚡ 14M 0.00 CREATE	<a href="#">cloudesire tomcat</a> Tomcat server; 6/7/8.  15.0K ⚡ 10K 0.00 CREATE	<a href="#">picoded tomcat</a> tomcat 8 with java 8, and MANAGER_USER / MANAGER_PASS / UPLOAD_MAX...  2.0K ⚡ 2K 0.00 CREATE	
<a href="#">fbnx tomcat</a> Minimal Tomcat image based on Alpine Linux  4.0K ⚡ 2K 0.00 CREATE	<a href="#">andreptb tomcat</a> Debian Jessie based image with Apache Tomcat installed. Provides versions for Oracle JDK 7 and 8.  6.0K ⚡ 4K 0.00 CREATE	<a href="#">bitnami tomcat</a> Bitnami Tomcat Docker Image  2.0K ⚡ 3K 0.00 CREATE	
<a href="#">dianplus tomcat</a> Tomcat base image maintained by dianjia.io.  0.0K ⚡ 615 0.00 CREATE	<a href="#">antoineco tomcat-mod_cluster</a> Apache Tomcat with JBoss mod_cluster  1.0K ⚡ 4K 0.00 CREATE	<a href="#">inspectit tomcat</a> Tomcat with inspectIT  0.0K ⚡ 1K 0.00 CREATE	
<a href="#">antoineco tomcat</a> Extra OS variants for the official Tomcat image - <a href="https://hub.docker.com/_/tomcat/">https://hub.docker.com/_/tomcat/</a>  0.0K ⚡ 1K 0.00 CREATE	<a href="#">davidcaste alpine-tomcat</a> Apache Tomcat 7/8 using Oracle Java 7/8 with GLIBC 2.21 over Alpine with unlimited JCE patch...  17.0K ⚡ 144K 0.00 CREATE	<a href="#">camptocamp tomcat-logback</a> Docker image for tomcat with logback integration  1.0K ⚡ 3K 0.00 CREATE	

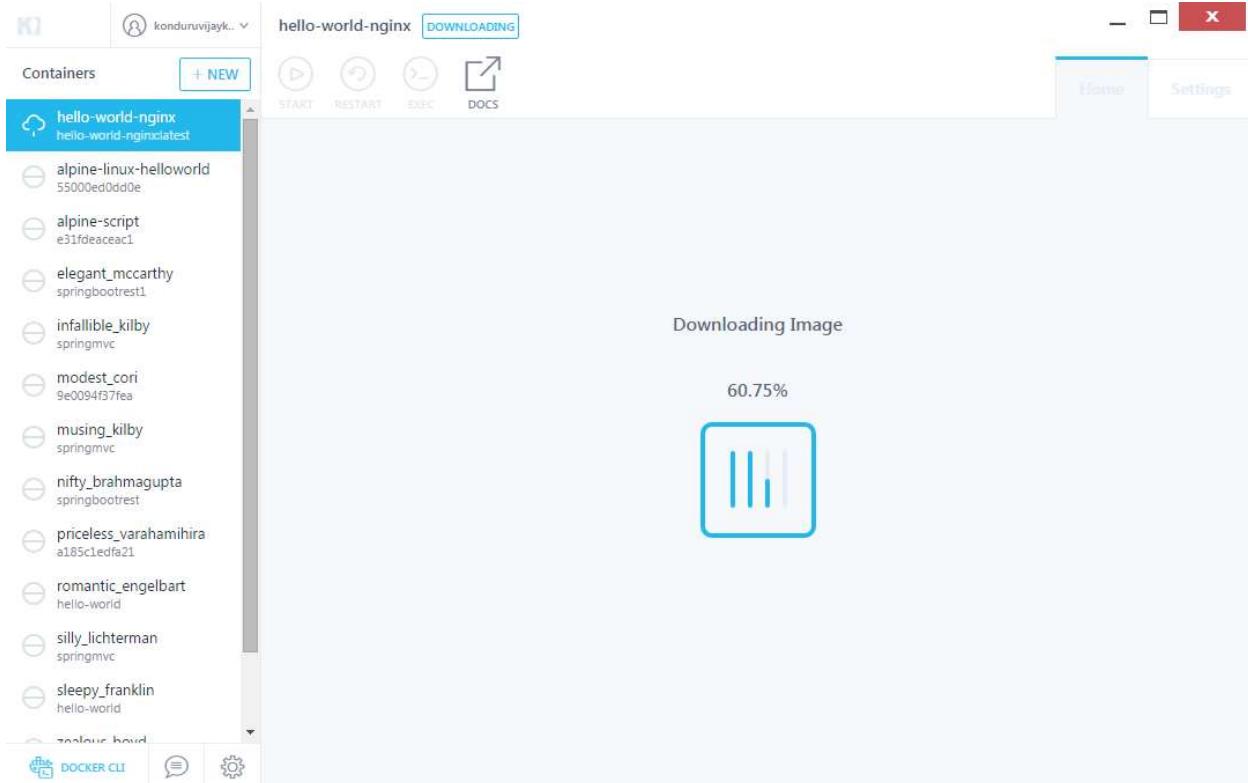
Docker CLI



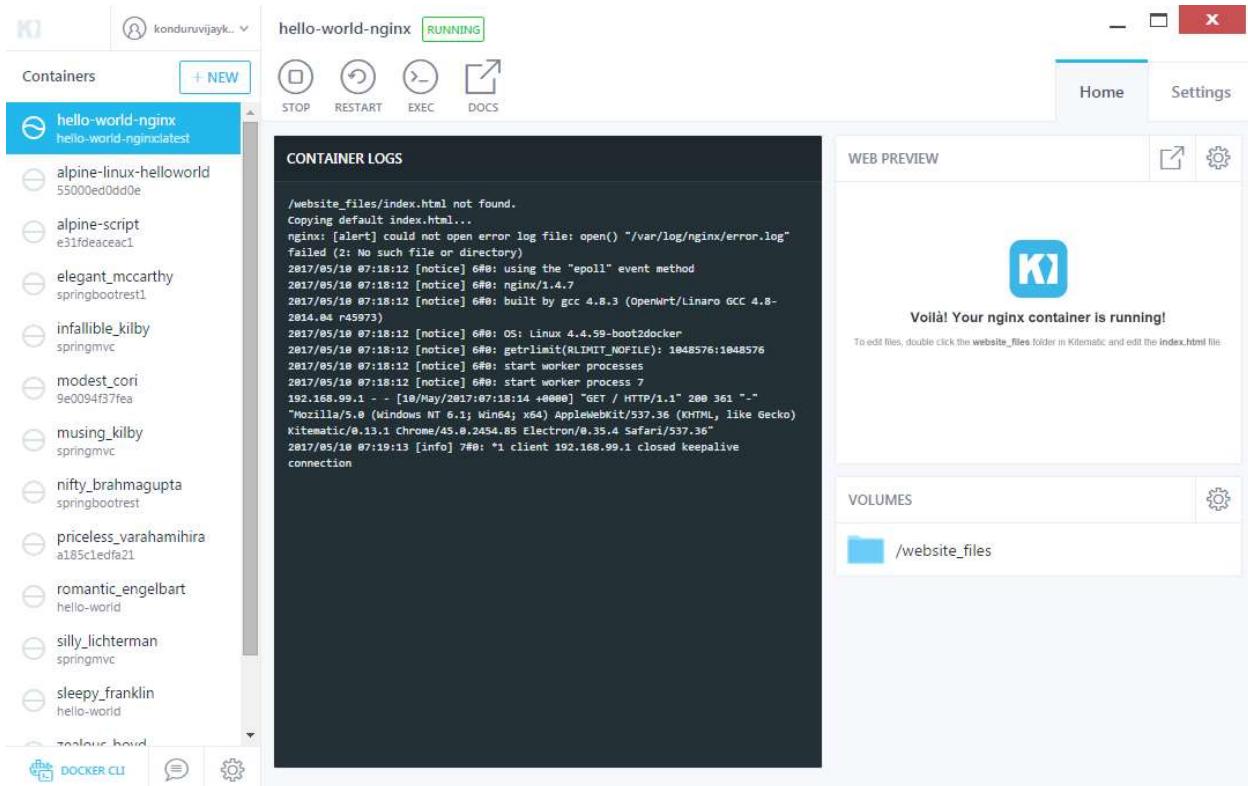
This are locally created repos, when making above demo.



This are images published to Docker hub



## Create hello world nginx





Working

Containers

hello-world-nginx RUNNING

STOP RESTART EXEC DOCS

General Ports Volumes Advanced

Container Info

ID: 41145088ba984c5ffb24ab5e3ff3331c2e07d1be8c8ec24e65dbd6fcc6211c COPY

NAME: hello-world-nginx SAVE

Environment Variables

KEY VALUE +

SAVE

Delete Container

DELETE CONTAINER

Docker CLI

The screenshot shows the Docker interface with the 'Containers' sidebar on the left. The 'hello-world-nginx' container is selected and labeled as 'RUNNING'. On the right, the 'Ports' tab is active under the 'Settings' tab. The 'Configure Ports' section shows two mappings:

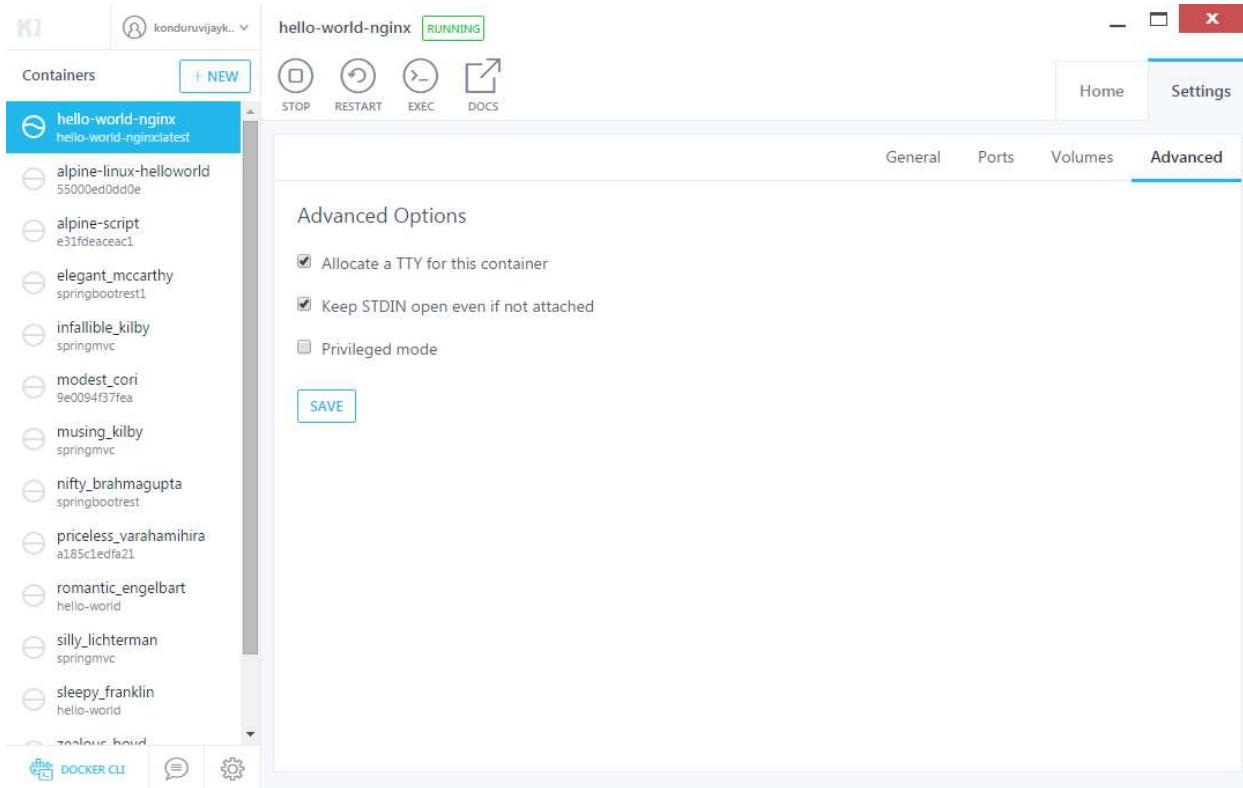
DOCKER PORT	PUBLISHED IP:PORT	TCP
80	192.168.99.100:32768	TCP
	192.168.99.100:	TCP

A green '+' button is available for adding more ports. A 'SAVE' button is at the bottom.

The screenshot shows the Docker interface with the 'Containers' sidebar on the left. The 'hello-world-nginx' container is selected and labeled as 'RUNNING'. On the right, the 'Volumes' tab is active under the 'Settings' tab. The 'Configure Volumes' section shows one mapping:

DOCKER FOLDER	LOCAL FOLDER
/website_files	No Folder

Buttons for 'CHANGE' and 'REMOVE' are available for this mapping.



Let's export the image for better understanding

```

Select MINGW64/c/Users/krishna
krishna@vijayk-PC MINGW64 ~
$ docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
41145088ha98        kitematic/hello-world-nginx:latest   "sh /start.sh"      4 days ago         Exited (137) 4 days ago          hello-world-nginx
67fe094401b5        springbootrest1           "java -jar springr..." 2 weeks ago       Exited (143) 2 weeks ago          elegant_mcCarthy
d223ac65b76         springbootrest           "java -jar springr..." 2 weeks ago       Exited (143) 2 weeks ago          nifty_brahmagupta
1a7edaa9e83d        springmvc              "java -jar springm..." 2 weeks ago       Exited (143) 2 weeks ago          zealous_boyd
83403596408d        springmvc              "java -jar springm..." 2 weeks ago       Exited (143) 2 weeks ago          infallible_kilby
390d28c9cb9d        springmvc              "java -jar springm..." 2 weeks ago       Exited (143) 2 weeks ago          silly_lichterman
fa38e57b85fb        springmvc              "java -jar springm..." 2 weeks ago       Exited (143) 2 weeks ago          musing_kilby
6fb5b7d316a2        9e0094f37fea           "java HelloWorld"     3 weeks ago       Exited (0) 3 weeks ago           modest_cori
555e3551f58         a185c1edfa21           "java HelloWorldApp" 3 weeks ago       Exited (1) 3 weeks ago           zen_yallow
553ab3b9ee24a       a185c1edfa21           "java HelloWorldApp" 3 weeks ago       Exited (1) 3 weeks ago           priceless_varahamihira
ira
0d1215869b4f        e31fddeacec1           "/script.sh"         3 weeks ago       Exited (0) 3 weeks ago          alpine-script
59346174c6b7        55000ed0dd0e           "echo 'Hello, Welc..." 3 weeks ago       Exited (0) 3 weeks ago          alpine-linux-helloworld
orid
5f8275399110        hello-world             "/hello"            3 weeks ago       Exited (0) 3 weeks ago          romantic_engelbart
5ee59b297cef        hello-world             "/hello"            3 weeks ago       Exited (0) 3 weeks ago          sleepy_franklin
krishna@vijayk-PC MINGW64 ~
$ docker export --output springbootrest1.zip 67fe094401b5
time="2017-05-15T07:54:13+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
krishna@vijayk-PC MINGW64 ~
$ docker images
REPOSITORY          TAG      IMAGE ID      CREATED        SIZE
springbootrest1    latest   699fd9316a26  2 weeks ago   351 MB
springbootrest     latest   129aefff0330  2 weeks ago   351 MB
springmvc          latest   c34c124d54a1  2 weeks ago   331 MB
java-helloworld    latest   9e0094f37fea  3 weeks ago   310 MB
<none>              <none>   a185c1edfa21  3 weeks ago   310 MB
<none>              <none>   e31fddeacec1  3 weeks ago   3.99 MB
<none>              <none>   55000ed0dd0e  3 weeks ago   3.99 MB
openjdk             8-jre    b8ce7cabbed3  7 weeks ago   310 MB
alpine              latest   4a415e366388  2 months ago  3.99 MB
hello-world         latest   48b5124b2768  4 months ago  1.84 kB
kitematic/hello-world-nginx  latest   03b4557ad7b9  23 months ago  7.91 MB

```

Screenshot of a Windows File Explorer window showing the contents of a compressed folder named "krishna".

The file list includes:

Name	Date modified	Type	Size
springbootrest1.zip	5/15/2017 7:55 AM	WinRAR ZIP archive	345,775 KB
NTUSER.DAT	5/15/2017 7:25 AM	DAT File	11,520 KB
.bash_history	5/10/2017 12:58 PM	BASH_HISTORY File	9 KB
.viminfo	4/18/2017 2:57 AM	VIMINFO File	7 KB
.gitconfig	12/25/2016 8:36 PM	GITCONFIG File	1 KB
java0.log	6/14/2016 4:27 AM	Text Document	1 KB
.erlang.cookie	1/28/2016 12:00 AM	COOKIE File	1 KB
.appletviewer	5/10/2015 4:16 PM	APPLETVIEWER File	1 KB
dlmgr_.pro	11/18/2014 7:49 AM	PRO File	1 KB

**WinRAR Window:**

The WinRAR window shows the contents of "springbootrest1.zip".

File list:

Name	Size	Packed	Type	Modified	CRC32
..	0	0	Local Disk		
bin			File folder	3/22/2017 3:44 ...	
boot			File folder	12/28/2016 11:...	
dev			File folder	4/25/2017 12:5...	
etc			File folder	4/25/2017 12:5...	
.dockerenv			DOCKERENV File	4/25/2017 12:5...	

Total 4 folders and 0 bytes in 1 file

Let's login to docker hub for pushing images

```
MINGW64/c/Users/krishna
(default) Waiting for an IP...
Machine "default" was started.
Waiting for SSH to be available...
Detecting the provisioner...
Started machines may have new IP addresses. You may need to re-run the `docker-machine env` command.
Regenerate TLS machine certs? Warning: this is irreversible. (y/n): Regenerating TLS certificates
Waiting for SSH to be available...
Detecting the provisioner...
Copying certs to the local machine directory...
Copying certs to the remote machine...
Setting Docker configuration on the remote daemon...

      ## 
## ## ##
  =-
  /----\ o /----\ ===
  \    \ \    \ \    \
  .   .   .   .   .   .

docker is configured to use the default machine with IP 192.168.09.100
For help getting started, check out the docs at https://docs.docker.com

Start interactive shell
krishna@vijayk-PC MINGW64 ~
$ docker login
time="2017-05-17T10:34:22+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com to create one.
Username: konduruvijaykumar
Password:
Login Succeeded
krishna@vijayk-PC MINGW64 ~
$ ped
bash: ped: command not found
krishna@vijayk-PC MINGW64 ~
$ pwd
/c/Users/krishna
```

Docker Cloud

Secure | https://cloud.docker.com/swarm/konduruvijaykumar/dashboard/onboarding/cloud-registry

Person 1 | Person 2 | Person 3 | Person 4 | Person 5

DOCKER CLOUD | Swarm mode

+    Repositories    Swarms BETA    Get Help    Profile konduruvijaykumar

Welcome!

## Welcome to Docker Cloud!

Let's get you familiarized with the central concepts of Docker Cloud.

Cloud registry    Continuous integration    Swarm deployment    Teams & Organizations

### Cloud registry

Create and share private image repositories securely with your teams, or make them public to share them with the entire community.

When should I use the Cloud Registry?

[To create public or private image repositories](#)

[To set up an Automated Build for repositories](#)

Docker Cloud

Secure | https://cloud.docker.com/swarm/konduruvijaykumar/repository/create

DOCKER CLOUD Swarm mode + Repositories Swarms Get Help Person 1

Repositories Create

### Create Repository

Name: konduruvijaykumar / Name: konduruvijaykumar

Description:

Visibility: Public (Public repositories appear in Docker Store search results) Private (Only you can see private repositories)

Pro tip: You can always push a new image to this repository using the CLI

```
$ docker tag local-image:tagname new-repo:tagname
$ docker push new-repo:tagname
```

Make sure to change tagname with your desired image repository tag.

Using 0 of 1 private repositories. [Get more](#)

Build Settings (optional): Autobuild triggers a new build with every `git push` to your source code repository. [Learn more](#)

```
MINGW64/c/Users/krishna/Dockerwork/docker-java-helloworld
krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker image
time="2017-05-17T10:42:36+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Usage: docker image COMMAND
Manage images
Options:
--help Print usage
Commands:
build Build an image from a Dockerfile
history Show the history of an image
import Import the contents from a tarball to create a filesystem image
inspect Display detailed information on one or more images
load Load an image from a tar archive or STDIN
ls List images
prune Remove unused images
pull Pull an image or a repository from a registry
push Push an image or a repository to a registry
rm Remove one or more Images
save Save one or more images to a tar archive (streamed to STDOUT by default)
tag Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE
Run 'docker image COMMAND --help' for more information on a command.
krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker images
time="2017-05-17T10:42:40+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
REPOSITORY TAG IMAGE ID CREATED SIZE
springbootrest1 latest 694fd9316a26 3 weeks ago 351 MB
springbootrest latest 129aefff0330 3 weeks ago 351 MB
springmvc latest c34c124d54a1 3 weeks ago 331 MB
java-helloworld latest 9e0004f37fea 4 weeks ago 310 MB
<none> <none> a185c1edfa21 4 weeks ago 310 MB
<none> <none> e31fdeaceac1 4 weeks ago 3.99 MB
<none> <none> 55000ed0dd0e 4 weeks ago 3.99 MB
openjdk 8-jre b8ce7cab8ed3 8 weeks ago 310 MB
alpine latest 4a415e366388 2 months ago 3.99 MB
hello-world latest 48b5124b2768 4 months ago 1.84 kB
kitematic/hello-world-nginx latest 03b4557ad709 23 months ago 7.91 MB
```

```

MINGW64/c/Users/krishna/Dockerwork/docker-java-helloworld
krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker build --name docker-java-helloworld -t docker-java-helloworld:1.0 .
unknown flag: --name
See 'docker build --help'.
krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker build -t docker-java-helloworld:1.0 .
time="2017-05-17T10:54:04+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Sending build context to Docker daemon 4.096 kB
Step 1/4 : FROM openjdk:8-jre
--> b8ce7cab8ed3
Step 2/4 : COPY * /opt/app/
--> Using cache
--> 102df9831e35
Step 3/4 : WORKDIR /opt/app
--> Using cache
--> 2697a06ebb7
Step 4/4 : CMD java HelloWorld
--> Using cache
--> 9e0094f37fea
Successfully built 9e0094f37fea
SECURITY WARNING: You are building a Docker image from Windows against a non-Windows Docker host. All files and directories added to build context will have '-rwxr-xr-x' permissions. It is recommended to double check and reset permissions for sensitive files and directories.

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker images
time="2017-05-17T10:55:10+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
REPOSITORY          TAG      IMAGE ID      CREATED        SIZE
springbootrest1    latest   699fd9316a26  3 weeks ago   351 MB
springbootrest     latest   129aafff0330  3 weeks ago   351 MB
springmvn          latest   c34c124d54a1  3 weeks ago   331 MB
docker-java-helloworld  1.0    9e0094f37fea  4 weeks ago   310 MB
java-helloworld    latest   9e0094f37fea  4 weeks ago   310 MB
<none>             <none>  a185c1edfa21  4 weeks ago   310 MB
<none>             <none>  e31fdeaceac1  4 weeks ago   3.99 MB
<none>             <none>  55000ed0dd9e  4 weeks ago   3.99 MB
openjdk             8-jre   b8ce7cab8ed3  8 weeks ago   310 MB
alpine              latest   4aa15e366388  2 months ago  3.99 MB
hello-world         latest   48b5124b2768  4 months ago  1.84 kB
kitematic/hello-world-nginx  latest   03b4557ad7b9  23 months ago  7.91 MB

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$
```

```

MINGW64/c/Users/krishna/Dockerwork/docker-java-helloworld
$ docker images
time="2017-05-17T10:55:10+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
REPOSITORY          TAG      IMAGE ID      CREATED        SIZE
springbootrest1    latest   699fd9316a26  3 weeks ago   351 MB
springbootrest     latest   129aafff0330  3 weeks ago   351 MB
springmvn          latest   c34c124d54a1  3 weeks ago   331 MB
docker-java-helloworld  1.0    9e0094f37fea  4 weeks ago   310 MB
java-helloworld    latest   9e0094f37fea  4 weeks ago   310 MB
<none>             <none>  a185c1edfa21  4 weeks ago   310 MB
<none>             <none>  e31fdeaceac1  4 weeks ago   3.99 MB
<none>             <none>  55000ed0dd9e  4 weeks ago   3.99 MB
openjdk             8-jre   b8ce7cab8ed3  8 weeks ago   310 MB
alpine              latest   4aa15e366388  2 months ago  3.99 MB
hello-world         latest   48b5124b2768  4 months ago  1.84 kB
kitematic/hello-world-nginx  latest   03b4557ad7b9  23 months ago  7.91 MB

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker run docker-java-helloworld
time="2017-05-17T10:56:10+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Unable to find image "docker-java-helloworld:latest" locally
C:\Program Files\Docke Toolbox\docker.exe: Error response from daemon: repository docker-java-helloworld not found: does not exist or no pull access.
See 'C:\Program Files\Docke Toolbox\docker.exe run -h'.

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker run 9e0094f37fea
time="2017-05-17T10:56:39+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Hello! Welcome to Docker World

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker push docker-java-helloworld:1.0
time="2017-05-17T10:57:31+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
The push refers to a repository [docker.io/library/docker-Java-helloworld]
4cdde1e768d5: Preparing
7c4b0bc8ce5c: Preparing
b25af04c555a: Preparing
ecd6fc07f321: Preparing
beac009910c5: Preparing
3a2b128b60f6: Waiting
596280599f68: Waiting
5d6cbe0dbcf9: Waiting
denied: requested access to the resource is denied

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$
```

If you see the URL where it Docker is trying to push, it doesn't add my user name konduruvijaykumar to the URL for push hence access is rejected.

```
MINGW64:/c/Users/krishna/Dockerwork/docker-java-helloworld
$ docker push --help
time="2017-05-19T04:01:07+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Usage: docker push [OPTIONS] NAME[:TAG]
Push an image or a repository to a registry

Options:
  - disable-content-trust   Skip image verification (default true)
  - help                   Print usage

krishna@vijayk-PC MINGW64 ~
$ cd Dockerwork/docker-java-helloworld/
krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ ls -l
total 3
-rw-r--r-- 1 krishna 197121 90 Apr 18 11:11 Dockerfile
-rw-r--r-- 1 krishna 197121 444 Apr 18 10:58 HelloWorld.class
-rw-r--r-- 1 krishna 197121 269 Apr 17 21:18 HelloWorld.java

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker login --help
time="2017-05-19T04:02:34+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Usage: docker login [OPTIONS] [SERVER]
Log in to a Docker registry

Options:
  --help                  Print usage
  -p, --password string  Password
  -u, --username string  Username

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker login -u konduruvijaykumar
time="2017-05-19T04:02:55+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Password:
Login Succeeded

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker info
time="2017-05-19T04:03:14+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Containers: 15
```

```
MINGW64:/c/Users/krishna/Dockerwork/docker-java-helloworld
Server Version: 17.04.0-ce
Storage Driver: aufs
  Root Dir: /mnt/sda1/var/lib/docker/aufs
  Backing Filesystem: extfs
  Dirs: 59
  Dirperm1 Supported: true
Logging Driver: json-file
Cgroup Driver: cgroupfs
Plugins:
  Volume: local
  Network: bridge host macvlan null overlay
  Swarm: inactive
  Runtimes: runc
  Default Runtime: runc
  Init Binary:
    containerd version: 422e31ce907fd9c3833a38d7b8fdd023e5a76e73
    runc version: 9c2d8d184e5da67c95d601382adf14862e4f2228
    init version: 949e6fa
  Security Options:
    seccomp
    Profile: default
  Kernel Version: 4.4.59-boot2docker
  Operating System: Boot2Docker 17.04.0-ce (TCL 7.2); HEAD : c69677f - Thu Apr  6 16:26:16 UTC 2017
  OSType: linux
  Architecture: x86_64
  CPUs: 1
  Total Memory: 995.8 MiB
  Name: default
  ID: 3LOX:RIOW:G02M:NZCT:Z7NS:N6NC:B6BQ:XCP2:5WE6:ZV46:WQ2D:VA5C
  Docker Root Dir: /mnt/sda1/var/lib/docker
  Debug Mode (client): false
  Debug Mode (server): true
    File Descriptors: 15
    Goroutines: 25
    System Time: 2017-05-18T22:33:10.490706531Z
    EventsListeners: 1
  Username: konduruvijaykumar
  Registry: https://index.docker.io/v1/
  Labels:
    provider=virtualbox
  Experimental: false
  Insecure Registries:
    127.0.0.0/8
  Live Restore Enabled: false
```

```

MINGW64:/c/Users/krishna/Dockerwork/docker-java-helloworld
krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker push docker-java-helloworld:1.0
time="2017-05-19T04:04:59+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
The push refers to a repository [docker.io/library/docker-java-helloworld]
4cdde1e768d5: Preparing
7cab0bc8ce5c: Preparing
b25af04c555a: Preparing
ecd6fc67f321: Preparing
beac609910c5: Preparing
3a2b12bb60f6: Waiting
5962805599f68: Waiting
5d0cbe0dbc9: Waiting
denied: requested access to the resource is denied

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker push konduruvijaykumar/docker-java-helloworld:1.0
time="2017-05-19T04:05:32+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
The push refers to a repository [docker.io/konduruvijaykumar/docker-java-helloworld]
An image does not exist locally with the tag: konduruvijaykumar/docker-java-helloworld

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker push docker-java-helloworld:1.0
time="2017-05-19T04:05:53+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
The push refers to a repository [docker.io/library/docker-java-helloworld]
4cdde1e768d5: Preparing
7cab0bc8ce5c: Preparing
b25af04c555a: Preparing
ecd6fc67f321: Preparing
beac609910c5: Preparing
3a2b12bb60f6: Waiting
5962805599f68: Waiting
5d0cbe0dbc9: Waiting
denied: requested access to the resource is denied

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker build --help
time="2017-05-19T04:18:23+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"

Usage: docker build [OPTIONS] PATH | URL | -
Build an image from a Dockerfile

Options:
  --build-arg list           Set build-time variables (default [])

```

```

MINGW64:/c/Users/krishna/Dockerwork/docker-java-helloworld
krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker build -t konduruvijaykumar/docker-java-helloworld .
time="2017-05-19T04:21:30+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Sending build context to Docker daemon 4.096 kB
Step 1/4 : FROM openjdk:8-jre
--> b8c7ecab8ed3
Step 2/4 : COPY * /opt/app/
--> Using cache
--> 102df9831e35
Step 3/4 : WORKDIR /opt/app
--> Using cache
--> 2697a06ebba7
Step 4/4 : CMD java HelloWorld
--> Using cache
--> 9e0094f37fea
Successfully built 9e0094f37fea
SECURITY WARNING: You are building a Docker image from Windows against a non-Windows Docker host. All files and directories added to build context will have '-rwxr-xr-x' permissions. It is recommended to double check and reset permissions for sensitive files and directories.

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker images
time="2017-05-19T04:21:46+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
REPOSITORY          TAG      IMAGE ID   CREATED        SIZE
springbootrest1    latest   60ffd9316a26  3 weeks ago   351 MB
springbootrest     latest   129aefff0330  3 weeks ago   351 MB
springmvc          latest   c34c124d54a1  3 weeks ago   331 MB
java-helloworld    latest   9e0094f37fea  4 weeks ago   310 MB
konduruvijaykumar/docker-java-helloworld  latest   9e0094f37fea  4 weeks ago   310 MB
docker-java-helloworld  1.0    9e0094f37fea  4 weeks ago   310 MB
<none>            <none>  a18c51edfa21  4 weeks ago   310 MB
<none>            <none>  e31fd1eac8e1c1 4 weeks ago   3.99 MB
<none>            <none>  55000ed0dd0e  4 weeks ago   3.99 MB
openjdk             8-jre   b8c7ecab8ed3  8 weeks ago   310 MB
alpine              latest   44a15e366388  2 months ago  3.99 MB
hello-world         latest   48b512462768  4 months ago  1.84 KB
kitematic/hello-world-nginx  latest   03b4557ad7b9  23 months ago  7.91 MB

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker run 9e0094f37fea
time="2017-05-19T04:22:24+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Hello! Welcome to Docker World

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker push --help

```

<https://www.youtube.com/watch?v=dU5112nqViY>

```
MINGW64:/c/Users/krishna/Dockerwork/docker-java-helloworld
$ docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS               NAMES
$ docker images
REPOSITORY          TAG      IMAGE ID            CREATED             SIZE
springbootrest1     latest   69dfd9316a26    3 weeks ago       351 MB
springbootrest      latest   129aefff0330    3 weeks ago       351 MB
springmvc           latest   c34c124d54a1    3 weeks ago       331 MB
java-helloworld     latest   9e0094f37fea    4 weeks ago       310 MB
konduruvijaykumar/docker-java-helloworld  latest   9e0094f37fea    4 weeks ago       310 MB
docker-java-helloworld  1.0    9e0094f37fea    4 weeks ago       310 MB
<none>              <none>  a18c51edfa21    4 weeks ago       310 MB
<none>              <none>  e31fddeacac1    4 weeks ago       3.99 MB
<none>              <none>  55000ed0dd9e    4 weeks ago       3.99 MB
openjdk              8-jre   b8ce7cab8ed3    8 weeks ago       310 MB
alpine               latest   4a415e366388    2 months ago      3.99 MB
hello-world          latest   48b5124b2768    4 months ago      1.84 KB
kitematic/hello-world-nginx  latest   03b4557ad7b9    23 months ago     7.91 MB

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker run 9e0094f37fea
time="2017-05-19T04:22:24+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Hello! Welcome to Docker World

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker push --help
time="2017-05-19T04:22:39+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Usage: docker push [OPTIONS] NAME[:TAG]

Push an image or a repository to a registry

Options:
  --disable-content-trust      Skip image verification (default true)
  --help                         Print usage

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker push konduruvijaykumar/docker-java-helloworld
time="2017-05-19T04:23:00+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
The push refers to a repository [docker.io/konduruvijaykumar/docker-java-helloworld]
4cdde1e768d5: Pushed
7c4bb0b8ce5c: Pushed
b25af04c555a: Pushing [=====] 39.3 MB/140.7 MB
ecd6fc07f321: Pushed
beac00910c5: Pushed
3a2b128b60f6: Pushed
596280599f68: Pushing [=====] 28.02 MB/44.64 MB
5dcbe0ddcf9: Pushing [=====] 23.45 MB/123.4 MB
```

```
MINGW64:/c/Users/krishna/Dockerwork/docker-java-helloworld
$ docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS               NAMES
$ docker images
REPOSITORY          TAG      IMAGE ID            CREATED             SIZE
java-helloworld     latest   9e0094f37fea    4 weeks ago       310 MB
konduruvijaykumar/docker-java-helloworld  latest   9e0094f37fea    4 weeks ago       310 MB
docker-java-helloworld  1.0    9e0094f37fea    4 weeks ago       310 MB
<none>              <none>  a18c51edfa21    4 weeks ago       310 MB
<none>              <none>  e31fddeacac1    4 weeks ago       3.99 MB
<none>              <none>  55000ed0dd9e    4 weeks ago       3.99 MB
openjdk              8-jre   b8ce7cab8ed3    8 weeks ago       310 MB
alpine               latest   4a415e366388    2 months ago      3.99 MB
hello-world          latest   48b5124b2768    4 months ago      1.84 KB
kitematic/hello-world-nginx  latest   03b4557ad7b9    23 months ago     7.91 MB

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker run 9e0094f37fea
time="2017-05-19T04:22:24+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Hello! Welcome to Docker World

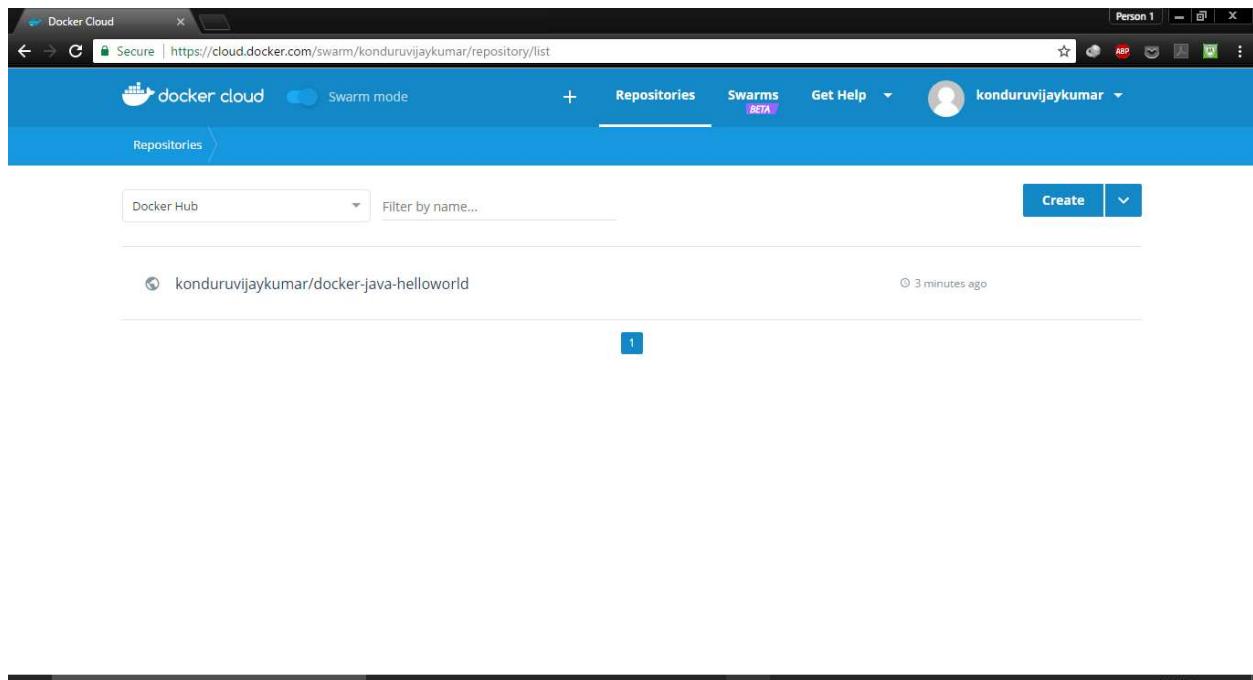
krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker push --help
time="2017-05-19T04:22:39+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Usage: docker push [OPTIONS] NAME[:TAG]

Push an image or a repository to a registry

Options:
  --disable-content-trust      Skip image verification (default true)
  --help                         Print usage

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker push konduruvijaykumar/docker-java-helloworld
time="2017-05-19T04:23:00+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
The push refers to a repository [docker.io/konduruvijaykumar/docker-java-helloworld]
4cdde1e768d5: Pushed
7c4bb0b8ce5c: Pushed
b25af04c555a: Pushed
ecd6fc07f321: Pushed
beac00910c5: Pushed
3a2b128b60f6: Pushed
596280599f68: Pushed
5dcbe0ddcf9: Pushed
latest: digest: sha256:d5be4d12cefdb8c78f9d14a65c6e8ff32b3e7ba60effd6c7364caee49d40f8b7 size: 1994

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$
```



Docker Cloud

Secure | https://cloud.docker.com/swarm/konduruvijaykumar/repository/docker/konduruvijaykumar/docker-java-helloworld/general

Person 1

Repositories konduruvijaykumar / docker-java-helloworld

General Tags Builds Timeline Settings

⌚ konduruvijaykumar / docker-java-helloworld

This repository does not have a description

⌚ Last pushed: 4 minutes ago

Docker commands

You can always push a new image to this repository.

```
$ docker push konduruvijaykumar/docker-java-helloworld:tagname
```

Tags

This repository contains 1 tag(s).

latest ⌚ 4 minutes ago See all

Recent builds

Link a source provider and run a build to see build results here.

ReadMe

Repository description is empty. Click [here](#) to edit.

Docker Cloud

Secure | https://cloud.docker.com/swarm/konduruvijaykumar/repository/docker/konduruvijaykumar/docker-java-helloworld/tags

docker cloud Swarm mode + Repositories Swarms Get Help Person 1 konduruvijaykumar

Repositories konduruvijaykumar / docker-java-helloworld

General Tags Builds Timeline Settings

Showing 1-1 of 1 Tags

latest 127 MB Last updated 5 minutes ago

1

Docker Cloud

Secure | https://cloud.docker.com/swarm/konduruvijaykumar/repository/docker/konduruvijaykumar/docker-java-helloworld/builds

docker cloud Swarm mode + Repositories Swarms Get Help Person 1 konduruvijaykumar

Repositories konduruvijaykumar / docker-java-helloworld Builds

General Tags Builds Timeline Settings

Configure Automated Builds

### Automated Builds

Autobuild triggers a new build with every git push to your source code repository [Learn more](#)

ENABLE AUTOBUILD BY CONNECTING TO AN EXTERNAL REPOSITORY SOURCE

Link to GitHub Disconnected

Link to Bitbucket Disconnected

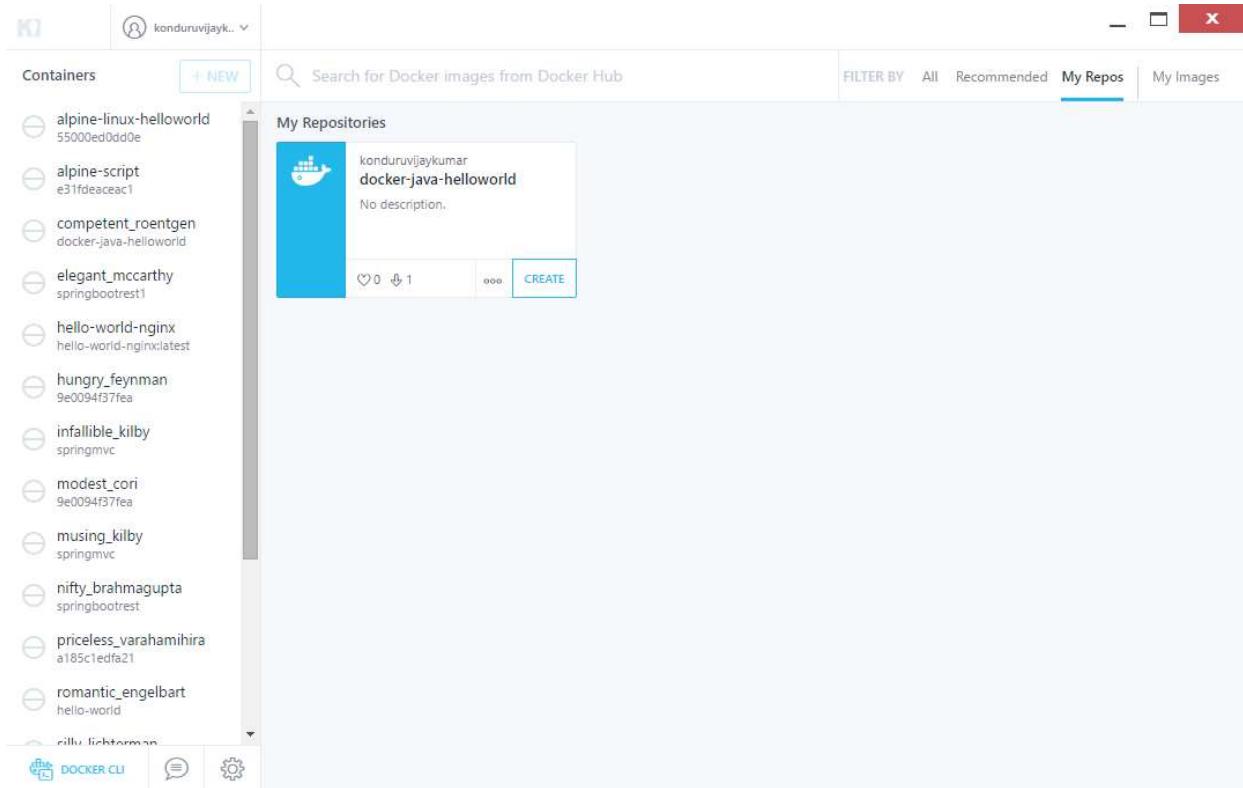
The screenshot shows the Docker Cloud interface. At the top, there's a header with the Docker Cloud logo, a 'Secure' connection indicator, and the URL <https://cloud.docker.com/swarm/konduruvijaykumar/repository/docker/konduruvijaykumar/docker-java-helloworld/settings>. Below the header, there are tabs for 'Repositories' (selected), 'Swarms' (BETA), 'Get Help', and a user profile for 'konduruvijaykumar'. A 'Swarm mode' toggle is also present. The main content area shows the repository path 'konduruvijaykumar / docker-java-helloworld'. Below this, there are tabs for 'General', 'Tags', 'Builds', 'Timeline', and 'Settings' (selected). The 'Visibility Settings' section indicates 0 private repositories and has a 'Make private' button. The 'Delete Repository' section contains a warning about destroying images and a 'Delete repository' button.

You can even create repo directly in Docker hub and push to that repo with different tag names. If nothing mentioned then it will be considered under latest tag

The screenshot shows the 'Create Repository' page. The URL is <https://cloud.docker.com/swarm/konduruvijaykumar/repository/create>. The page has a 'Create Repository' header and a search bar with 'konduruvijaykumar / docker-java-helloworld'. Below the search bar, there's a note 'Testing java hello world with docker'. On the right, there's a 'Pro tip' box with the text: 'You can always push a new image to this repository using the CLI' and a code snippet: 

```
$ docker tag local-image:tagname new-repo:tagname  
$ docker push new-repo:tagname
```

. There's also a note: 'Make sure to change tagname with your desired image repository tag.' The 'Visibility' section shows a 'Public' radio button selected, with the note 'Public repositories appear in Docker Store search results'. The 'Private' radio button is also shown. The 'Build Settings (optional)' section notes that 'Autobuild triggers a new build with every git push to your source code repository' and provides two disconnected build triggers. A large 'Next Step' button is at the bottom.



## Let's a different version of our application

A screenshot of a Sublime Text editor window. The title bar shows the path 'C:\Users\krishna\Dockers\HelloWorld.java - Sublime Text (UNREGISTERED)'. The menu bar includes File, Edit, Selection, Find, View, Goto, Tools, Project, Preferences, and Help. The editor area contains the following Java code:

```
1 /**
2  * @author Vijay
3  *
4  */
5 // https://github.com/stevenalexander/docker-java8-helloworld
6 // https://github.com/prabin5/docker
7 public class HelloWorld {
8
9     public static void main(String[] args) {
10         System.out.println("Hello! Welcome to Docker World - Version 1");
11     }
12 }
```

The status bar at the bottom indicates '12 characters selected; Saved C:\Users\krishna\Dockers\HelloWorld.java (UTF-8)' and 'Tab Size: 4 Java'.

```
MINGW64:/c/Users/krishna/Dockerwork/docker-java-helloworld
$ javac -version
javac 1.8.0_95

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ java -version
java version "1.8.0_131"
Java(TM) SE Runtime Environment (build 1.8.0_131-b11)
Java HotSpot(TM) 64-Bit Server VM (build 25.131-b11, mixed mode)

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ javac HelloWorld.java

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ java HelloWorld
Hello! Welcome to Docker World - Version 1

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker build -t konduruvijaykumar/docker-java-helloworld:1.0 .
time="2017-05-19T05:07:48+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Sending build context to Docker daemon 4.096 kB
Step 1/4 : FROM openjdk:8-jre
--> b8ce7cab8ed3
Step 2/4 : COPY * /opt/app/
--> 1ac25c9553d2
Removing intermediate container acaeaa2965ce
Step 3/4 : WORKDIR /opt/app
--> 101165d72bfe
Removing intermediate container 18d3013cce9f
Step 4/4 : CMD java HelloWorld
--> Running in cb69804be478
--> 8da2c801767b
Removing intermediate container cb69804be478
Successfully built 8da2c801767b
SECURITY WARNING: You are building a Docker image from Windows against a non-Windows Docker host. All files and directories added to build context will have '-rwxr-xr-x' permissions. It is recommended to double check and reset permissions for sensitive files and directories.

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker images
REPOSITORY          TAG      IMAGE ID      CREATED             SIZE
konduruvijaykumar/docker-java-helloworld   1.0      8da2c801767b    13 seconds ago   310 MB
springbootrest1     latest   69dfdf9316a26   3 weeks ago       351 MB
springbootrest      latest   129aeaff0330    3 weeks ago       351 MB


```

```
MINGW64:/c/Users/krishna/Dockerwork/docker-java-helloworld
$ docker images
REPOSITORY          TAG      IMAGE ID      CREATED             SIZE
konduruvijaykumar/docker-java-helloworld   1.0      8da2c801767b    3 minutes ago   310 MB
springbootrest1     latest   69dfdf9316a26   3 weeks ago       351 MB
springbootrest      latest   129aeaff0330    3 weeks ago       351 MB
springmvn           latest   c34c124d54a1   3 weeks ago       331 MB
konduruvijaykumar/docker-java-helloworld   latest   9e0094f37fea   4 weeks ago       310 MB
docker-java-helloworld   1.0      9e0094f37fea   4 weeks ago       310 MB
java-helloworld     latest   9e0094f37fea   4 weeks ago       310 MB
<none>              <none>  a185c1edfa21   4 weeks ago       310 MB
<none>              <none>  e31fddeaceac1  4 weeks ago       3.99 MB
<none>              <none>  55000ed0dd0   4 weeks ago       3.99 MB
openjdk             8-jre    b8ce7cab8ed3   8 weeks ago       310 MB
alpine              latest   4a415e366388   2 months ago      3.99 MB
hello-world         latest   48b5124b2768   4 months ago      1.84 kB
kitematic/hello-world-nginx      latest   03b4557ad7b9   23 months ago      7.91 MB

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker run 8da2c801767b
time="2017-05-19T05:11:18+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Hello! Welcome to Docker World - Version 1

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$ docker push konduruvijaykumar/docker-java-helloworld:1.0
time="2017-05-19T05:12:29+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
The push refers to a repository [docker.io/konduruvijaykumar/docker-java-helloworld]
0b15a1f126e9: Pushed
7cb0b8ca5c: Layer already exists
b25a704c555a: Layer already exists
ecd6fc67f321: Layer already exists
beac600910c5: Layer already exists
3a2b12bb60f6: Layer already exists
596280599f68: Layer already exists
5d0cbeddbcf9: Layer already exists
1.0: digest: sha256:01cb44747f22a0df29ca6274538a2531a87d790cf84411440948523c1eb0b54b size: 1994

krishna@vijayk-PC MINGW64 ~/Dockerwork/docker-java-helloworld
$
```

The image shows two screenshots of the Docker Cloud interface. The top screenshot displays a list of repositories under the 'Repositories' tab. A single repository, 'konduruvijaykumar/docker-java-helloworld', is listed, showing it was pushed 2 minutes ago. The bottom screenshot shows a detailed view of this specific repository. It includes tabs for General, Tags, Builds, Timeline, and Settings. The General tab is active, showing the repository name 'konduruvijaykumar / docker-java-helloworld', a note that it has no description, and a message indicating it was last pushed 2 minutes ago. The Tags tab shows two tags: '1.0' and 'latest'. The Recent builds section is currently empty. The ReadMe tab shows a note that the repository description is empty.

Docker Cloud

Secure | https://cloud.docker.com/swarm/konduruvijaykumar/repository/list

docker cloud Swarm mode + Repositories Swarms Get Help Person 1

konduruvijaykumar

Repositories

Docker Hub Filter by name... Create

⌚ konduruvijaykumar/docker-java-helloworld ⌚ 2 minutes ago

⌚ 1

https://cloud.docker.com/swarm/konduruvijaykumar/repository/list

Docker Cloud

Secure | https://cloud.docker.com/swarm/konduruvijaykumar/repository/docker/konduruvijaykumar/docker-java-helloworld/general

General Tags Builds Timeline Settings

⌚ konduruvijaykumar / docker-java-helloworld

This repository does not have a description

⌚ Last pushed: 2 minutes ago

Docker commands

You can always push a new image to this repository.

```
$ docker push konduruvijaykumar/docker-java-helloworld:tagname
```

Tags

This repository contains 2 tag(s).

1.0	⌚	⌚ 2 minutes ago
latest	⌚	⌚ an hour ago

Recent builds

Link a source provider and run a build to see build results here.

See all

ReadMe

Repository description is empty. Click [here](#) to edit.

Let's delete all images locally, start pulling our images and run locally.

```
MINGW64:/c/Users/krishna
krishna@vijayk-PC MINGW64 ~
$ docker images --help
time="2017-05-19T05:29:32+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Usage: docker images [OPTIONS] [REPOSITORY[:TAG]]

List images

Options:
  -a, --all      Show all images (default hides intermediate images)
  --digests     Show digests
  -f, --filter filter Filter output based on conditions provided
  --format string Pretty-print images using a Go template
  --help         Print usage
  --no-trunc    Don't truncate output
  -q, --quiet    Only show numeric IDs

krishna@vijayk-PC MINGW64 ~
$ docker images -q
time="2017-05-19T05:29:48+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
8da2c801767b
69df9d316a26
129aefff0330
c34c124d54a1
9e0094f37fea
9e0094f37fea
9e0094f37fea
a185c1edfa21
e31fdeaceac1
55000ed0dd0e
b8ce7cab8ed3
4a15e366388
48b5124b2768
03b4557ad7b9

krishna@vijayk-PC MINGW64 ~
$ docker rmi $(docker images -q)
bash: docker: command not found
"docker rmi" requires at least 1 argument(s).
See 'docker rmi --help'.

Usage: docker rmi [OPTIONS] IMAGE [IMAGE...]

Remove one or more images
```

```
MINGW64:/c/Users/krishna
krishna@vijayk-PC MINGW64 ~
Usage: docker rmi [OPTIONS] IMAGE [IMAGE...]

Remove one or more images

krishna@vijayk-PC MINGW64 ~
$ docker rmi $(docker images -q)
time="2017-05-19T05:30:57+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
time="2017-05-19T05:30:57+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Error response from daemon: conflict: unable to delete 8da2c801767b (must be forced) - image is being used by stopped container b697bb1eb50
Error response from daemon: conflict: unable to delete 69df9d316a26 (must be forced) - image is being used by stopped container d7fe9440401b5
Error response from daemon: conflict: unable to delete 129aefff0330 (must be forced) - image is being used by stopped container d233aced5b76
Error response from daemon: conflict: unable to delete c34c124d54a1 (must be forced) - image is being used by stopped container 1a7eda9e83d
Error response from daemon: conflict: unable to delete 9e0094f37fea (must be forced) - image is referenced in multiple repositories
Error response from daemon: conflict: unable to delete 9e0094f37fea (must be forced) - image is referenced in multiple repositories
Error response from daemon: conflict: unable to delete a185c1edfa21 (must be forced) - image is being used by stopped container 555e53551f58
Error response from daemon: conflict: unable to delete e31fdeaceac1 (must be forced) - image is being used by stopped container 0d1215869d4f
Error response from daemon: conflict: unable to delete 55000ed0dd0e (must be forced) - image is being used by stopped container 59346174c6b7
Error response from daemon: conflict: unable to delete b8ce7cab8ed3 (cannot be forced) - image has dependent child images
Error response from daemon: conflict: unable to delete 4a415e366388 (cannot be forced) - image has dependent child images
Error response from daemon: conflict: unable to delete 48b5124b2768 (must be forced) - image is being used by stopped container 5ee59b297cef
Error response from daemon: conflict: unable to delete 03b4557ad7b9 (must be forced) - image is being used by stopped container 41145088ba98

krishna@vijayk-PC MINGW64 ~
$ docker rmi --help
time="2017-05-19T05:33:28+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Usage: docker rmi [OPTIONS] IMAGE [IMAGE...]

Remove one or more images

Options:
  -f, --force      Force removal of the image
  --help          Print usage
  --no-prune     Do not delete untagged parents

krishna@vijayk-PC MINGW64 ~
$ docker rmi -f $(docker images -q)
time="2017-05-19T05:33:46+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
time="2017-05-19T05:33:47+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Untagged: konduruvijaykumar/docker-java-helloworld:1.0
Untagged: konduruvijaykumar/docker-java-helloworld@sha256:01cb4a747f22a0df29ca6274538a2531a87d790cf84411440948523c1eb0b54b
Deleted: sha256:8da2c801767bfcabba84dbea53fd28dc4e69a1b71bb99d69b0ef3eb668df5c
```

```

MINGW64:/c/Users/krishna krishna@vijayk-PC MINGW64 ~
$ docker rmi -f $(docker images -q)
time="2017-05-19T05:33:46+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
time="2017-05-19T05:33:47+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Untagged: konduruvijaykumar/docker-java-helloworld:1.0
Untagged: konduruvijaykumar/docker-java-helloworld@sha256:81cb4a747f22a0df29ca6274538a2531a87d790cf84411440948523c1eb0b54b
Deleted: sha256:8da2c801767bfca1bbba4dbea53fd28dc4e0a1b71bb99d6b9a0ef3eb68df5c
Deleted: sha256:101165d2bfe3105859cb7f5fa3c6cb7618e53a0e20a0d15d20651cb738610859
Deleted: sha256:1ac25c9553d2d0123e55301a4f7d9db1645d67bd1f03871a1fa43a28482a7234
Untagged: springbootrest:latest
Deleted: sha256:69df9316a26c494669e68e84203b5ec706c31a59e21ecf02755edcf0230d14a
Deleted: sha256:570a693df41c6b4df57dc7561b177fcbb258da0f5364b50bf566a1a8e4056b459
Untagged: springbootrest:latest
Deleted: sha256:129a6efff03307cb5234fc938f8d6adaf29a8ce45466cfa256791e34d0c07668b
Deleted: sha256:002260737cd0a4cbe26845a074a219dd3e88365d42c2ce24fcdd0e75d1726fa5
Untagged: springmv:latest
Deleted: sha256:c34c124d54a1247e0594fa1fb66e9c9b1f16620900760a5e618a72901eea72c
Deleted: sha256:1cd852b2f38f3fc69d085487fe8edb039af3f77dc3a949f9c031583039d84419
Deleted: sha256:1e6a3f04edba111c2b138a752fb45d7324bcb99e0794a05220ea8f3384ef659
Untagged: konduruvijaykumar/docker-java-helloworld:latest
Untagged: konduruvijaykumar/docker-java-helloworld@sha256:d5be4d12cefdb8c789d14a65c6e8ff32b3e7ba60effd6c7364caee49d40f8b7
Untagged: docker-java-helloworld:1.0
Untagged: java-helloworld:latest
Deleted: sha256:9e0094f37fea53595b0773b8e8f01ea499a10de2644263f53521caa43d6b9da6
Deleted: sha256:2697aa6ebb775979f5e473c18c43eca86325e5a4aab634183878197188e938
Deleted: sha256:102d4f9831e35cc6b38c26653bd4fded9c5815a49a67d6dbc0d115e3089b610b
Deleted: sha256:a185c1edfa21856a4c0431b03b925e715229f72557c883034c9bc0f3df09e9fa04
Deleted: sha256:0080b742f9ab2a96b03bc0d5fc8aaadf3ae79e0ec3a38afe27949f1b680eb5f4
Deleted: sha256:4414c88e9ada78860802d76a19fa22ef23f4c269e11a3a84a83d1d749c8253
Deleted: sha256:e31fdaceac13fc356849e3e8558fa14fb0e842267c41bd0e9359e4955d5b6
Deleted: sha256:1417b6d49a3b273b2a95dad00e7780246c8f74ea968670ca1c36d66269e93
Deleted: sha256:550000ed0dd0eb1ff6f4936262a53ac9cbae0a4fa3a3762703448c5a38b888d
Deleted: sha256:ff81024be9f5era0d0da4bf1154cd1ae893678369336447bc1673ae072e7f7a
Untagged: openjdk:8-jre
Untagged: openjdk@sha256:444f7f4a22159fdf891ba6326523bc2b0c11c1d0c12826c2cb21468e5fb5294
Deleted: sha256:b8c7ab8d3be166d37e53fb7ffa6cacf4249a01b3b9fb022f5c2a0f6347
Untagged: alpine:latest
Untagged: alpine@sha256:58e1a1bb75db1b5a24a462d5e2915277ea0e0438c3f105138f97eb53149673c4
Deleted: sha256:4415e363882fb554ee830889c68a33b3585503892cc718a4698e91ef2a526
Untagged: hello-world:latest
Untagged: hello-world@sha256:c5515758d4c5e1e838e9cd307f6c6a0d620b5e07e6f927b07d05f6d12a1ac8d7
Deleted: sha256:48b5124b2768db2b917edcb640435044a97967015485e812545546cbed5cf0233

```

```

MINGW64:/c/Users/krishna krishna@vijayk-PC MINGW64 ~
Untagged: java-helloworld:latest
Deleted: sha256:9e0094f37fea53595b0773b8e8f01ea499a10de2644263f53521caa43d6b9da6
Deleted: sha256:2697aa6ebb775979f5e473c18c43eca86325e5a4aab634183878197188e938
Deleted: sha256:102d4f9831e35cc6b38c26653bd4fded9c5815a49a67d6dbc0d115e3089b610b
Deleted: sha256:a185c1edfa21856a4c0431b03b925e715229f72557c883034c9bc0f3df09e9fa04
Deleted: sha256:0080b742f9ab2a96b03bc0d5fc8aaadf3ae79e0ec3a38afe27949f1b680eb5f4
Deleted: sha256:4414c88e9ada78860802d76a19fa22ef23f4c269e11a3a84a83d1d749c8253
Deleted: sha256:e31fdaceac13fc356849e3e8558fa14fb0e842267c41bd0e9359e4955d5b6
Deleted: sha256:1417b6d49a3b273b2a95dad00e7780246c8f74ea968670ca1c36d66269e93
Deleted: sha256:550000ed0dd0eb1ff6f4936262a53ac9cbae0a4fa3a3762703448c5a38b888d
Deleted: sha256:ff81024be9f5era0d0da4bf1154cd1ae893678369336447bc1673ae072e7f7a
Untagged: openjdk:8-jre
Untagged: openjdk@sha256:444f7f4a22159fdf891ba6326523bc2b0c11c1d0c12826c2cb21468e5fb5294
Deleted: sha256:b8c7ab8d3be166d37e53fb7ffa6cacf4249a01b3b9fb022f5c2a0f6347
Untagged: alpine:latest
Untagged: alpine@sha256:58e1a1bb75db1b5a24a462d5e2915277ea0e0438c3f105138f97eb53149673c4
Deleted: sha256:4415e363882fb554ee830889c68a33b3585503892cc718a4698e91ef2a526
Untagged: hello-world:latest
Untagged: hello-world@sha256:c5515758d4c5e1e838e9cd307f6c6a0d620b5e07e6f927b07d05f6d12a1ac8d7
Deleted: sha256:48b5124b2768db2b917edcb640435044a97967015485e812545546cbed5cf0233
Untagged: kitematic/hello-world:nginx:latest
Untagged: kitematic/hello-world-nginx@sha256:ec0ca6bcd03491678a4c988b4f2432716e2e92b995ac606e080c7a54b52b87066
Deleted: sha256:03b4557ad7b98859a39aee048c4e00a64d4e81cfab25fd7dfa94e61ac7c1947
Error response from daemon: No such image: 9e0094f37fea:latest
Error response from daemon: No such image: 9e0094f37fea:latest
krishna@vijayk-PC MINGW64 ~
$ docker images
time="2017-05-19T05:36:42+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
REPOSITORY          TAG           IMAGE ID            CREATED             SIZE
krishna@vijayk-PC MINGW64 ~
$ -

```

Either pull image locally and run it or can run directly with the repo name and tag, which will pull if image not found locally.

```
krishna@vijayk-PC MINGW64 ~
$ docker run konduruvijaykumar/docker-java-helloworld:1.0
time="2017-05-19T05:45:14+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Unable to find image 'konduruvijaykumar/docker-java-helloworld:1.0' locally
1.0: Pulling from konduruvijaykumar/docker-java-helloworld
d5f59435c037: Already exists
4304ad94ce8b: Already exists
23540bf564a7: Already exists
1ee89aa6a63ca: Already exists
a61fffcad3b: Already exists
07a87ca1b255: Already exists
7d39b597024: Already exists
9904e88c402e: Already exists
Digest: sha256:01cb4a747f22a0df29ca6274538a2531a87d790cf84411440948523c1eb0b54b
Status: Downloaded newer image for konduruvijaykumar/docker-Java-helloworld:1.0
Hello! Welcome to Docker World - Version 1

krishna@vijayk-PC MINGW64 ~
$
```

```
krishna@vijayk-PC MINGW64 ~
$ docker run konduruvijaykumar/docker-java-helloworld:1.0
time="2017-05-19T05:45:14+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Unable to find image 'konduruvijaykumar/docker-java-helloworld:1.0' locally
1.0: Pulling from konduruvijaykumar/docker-java-helloworld
d5f59435c037: Already exists
4304ad94ce8b: Already exists
23540bf564a7: Already exists
1ee89aa6a63ca: Already exists
a61fffcad3b: Already exists
07a87ca1b255: Already exists
7d39b597024: Already exists
9904e88c402e: Already exists
Digest: sha256:01cb4a747f22a0df29ca6274538a2531a87d790cf84411440948523c1eb0b54b
Status: Downloaded newer image for konduruvijaykumar/docker-Java-helloworld:1.0
Hello! Welcome to Docker World

krishna@vijayk-PC MINGW64 ~
$ docker run konduruvijaykumar/docker-java-helloworld
time="2017-05-19T05:46:14+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
Unable to find image 'konduruvijaykumar/docker-java-helloworld:latest' locally
latest: Pulling from konduruvijaykumar/docker-java-helloworld
d5f59435c037: Already exists
4304ad94ce8b: Already exists
23540bf564a7: Already exists
1ee89aa6a63ca: Already exists
a61fffcad3b: Already exists
07a87ca1b255: Already exists
7d39b597024: Already exists
ef626da044c: Already exists
Digest: sha256:d5be4d12cefdb8c78f9d14a65c6e8ff32b3e7ba60effd6c7364cae49d40f8b7
Status: Downloaded newer image for konduruvijaykumar/docker-Java-helloworld:latest
Hello! Welcome to Docker World

krishna@vijayk-PC MINGW64 ~
$ docker images
time="2017-05-19T05:46:39+05:30" level=info msg="Unable to use system certificate pool: crypto/x509: system root pool is not available on Windows"
REPOSITORY          TAG           IMAGE ID            CREATED          SIZE
konduruvijaykumar/docker-java-helloworld   1.0            8dac2c801767b   38 minutes ago   310 MB
konduruvijaykumar/docker-java-helloworld   latest         9e0094f37fea    4 weeks ago     310 MB

krishna@vijayk-PC MINGW64 ~
$
```