



**FREE eBook**

# LEARNING openshift

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**#openshift**

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# About

You can share this PDF with anyone you feel could benefit from it, downloaded the latest version from: [openshift](#)

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# Chapter 1: Getting started with openshift

## Remarks

This section provides an overview of what openshift is, and why a developer might want to use it.

It should also mention any large subjects within openshift, and link out to the related topics. Since the Documentation for openshift is new, you may need to create initial versions of those related topics.

## Examples

### Getting started with an all-in-one container

To install openshift follow installation steps on <https://install.openshift.com>

### Getting started with Minishift

This is similar to [Docker-machine](#) or [minikube](#) which are used to learn Docker and Kubernetes. It will run a virtual machine containing everything you need to test openshift-origin.

Here is the documentation from openshift-origin and how to install it on any OS [here](#)

I'll write doc for Debian-like OS with virtualbox driver since I did it on my laptop but it's kind of a copy/paste from openshift website

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## Install Virtualbox

```
# apt-get install linux-headers-$(uname -r|sed 's,[^-]*-[^-]*-,,') virtualbox
```

---

## Enable and start virtualbox

```
# systemctl enable virtualbox && \  
systemctl start virtualbox
```

Running `systemctl status virtualbox` should show you an enabled & active service.

---

## Download minishift & install binary

You can find all minishift releases [here](#) in case this one doesn't exist anymore when you try the `wget`

```
# mkdir $HOME/minishift && \  
  wget -O $HOME/minishift/minishift.tar.gz  
https://github.com/minishift/minishift/releases/download/v1.0.0/minishift-1.0.0-linux-  
amd64.tgz && \  
  tar -xf $HOME/minishift/minishift.tar.gz -C $HOME/minishift
```

## Add minishift command to \$PATH

```
# echo "export PATH=\$PATH:$HOME/minishift" >> $HOME/.bashrc && \  
source $HOME/.bashrc
```

---

## Run minishift

`minishift --help` show all available options

```
# minishift start --vm-driver=virtualbox
```

Now you should have an openshift up and running

---

## Export openshift client command to \$PATH

This command should be installed when you run `minishift start` if it is not present on the system. Add it to `$PATH` for more comfort:

```
# echo "export PATH=\$PATH:$(find $HOME/.minishift -name oc -type f)" >> $HOME/.bashrc && \  
source $HOME/.bashrc
```

---

## Login to minishift

Note: You'll have to accept unsecured ssl certificates

To connect with bash client :

```
# oc login -u system:admin https://$(minishift ip):8443
```

To connect with your default browser (login with developer:developer):

```
# minishift console
```

*Finally your Openshift-origin-standalone for test/dev purposes is ready and accessible.*

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## Some more things you maybe need to know

- When you are done and want to recover some RAM run `minishift stop`
- If you want to destroy the all VM containing openshift, run `minishift delete`
- To see your Openshift master logs, run `minishift logs`
- To run a shell into the VM containing Openshift, run `minishift ssh`
- If you are new to openshift and want to try a deployment, check the following [doc](#)

Read [Getting started with openshift online](https://riptutorial.com/openshift/topic/4895/getting-started-with-openshift): <https://riptutorial.com/openshift/topic/4895/getting-started-with-openshift>

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# Credits

| S. No | Chapters                       | Contributors  |
|-------|--------------------------------|---|
| 1     | Getting started with openshift | <a href="#">brennan</a> , <a href="#">Community</a> , <a href="#">sphinks</a> , <a href="#">wilsonW</a> , <a href="#">wtrocki</a> |