

How to build Bigtop-trunk

This is the documentation on installing the Bigtop compile Toolchain on current git trunk.

For documentation of the Bigtop-1.0 Version see [How to build Bigtop-1.0](#)

For documentation of the Bigtop-1.1 Version see [How to build Bigtop-1.1](#)

Clone Bigtop repo

You can do it either from

- official Apache Bigtop repo

Clone the repo

```
git clone https://gitbox.apache.org/repos/asf/bigtop.git
```

- or from Github mirror (see <https://github.com/apache/bigtop>)

Not Recommended: Setting up development environment from scratch:

Not recommended any more, suitable only if you plan to compile from a plain linux distribution

First, install a suitable puppet version (relative to bigtop root)

```
# ./bigtop_toolchain/bin/puppetize.sh
```

next is installing the toolchain by a puppet call.

```
# puppet apply --modulepath=`pwd`:/etc/puppet/modules -e "include bigtop_toolchain::installer"
```

(You may need to add "--parser future" for puppet 3.x or adjust the modulepath for the correct location of standard puppet modules)

Alternatively, if you already have sudo and a java runtime installed, you can bootstrap the environment using the provided Gradle wrapper script

```
# ./gradlew toolchain
```

Optional: Setting up bigtop/puppet docker images:

Only necessary if you want to rebuild the bigtop/puppet docker images, used as a base for bigtop/slaves.

```
# cd docker/bigtop-puppet/$BUILD_ENVIRONMENTS; ./build.sh
```

This is done by the CI Job:

<https://ci.bigtop.apache.org/view/Docker/job/Docker-Puppet/>

Optional: Setting up bigtop/slaves docker images:

Only necessary if you want to rebuild the bigtop/slaves docker images, used by the compile processes

```
# ./gradlew -POS=$BUILD_ENVIRONMENTS bigtop-slaves
```

This is done by the CI Job:

<https://ci.bigtop.apache.org/view/Docker/job/Docker-Toolchain-Trunk/>

Recommended: Using pre-built Docker images

For current trunk (git master) the tags for bigtop/slaves are available:

- trunk-centos-6
- trunk-centos-7
- trunk-fedora-25
- trunk-opensuse-42.1
- trunk-ubuntu-16.04
- trunk-debian-8

The full image list is on [Bigtop Docker Hub](#)

The Dockerfiles to regenerate them are located in `./docker/bigtop-slaves`.

Building bigtop-jsvc:

```
# ./gradlew bigtop-jsvc-pkg-ind
```

Building spark:

```
# ./gradlew spark-pkg-ind
```

You can find all valid gradle target using:

```
# ./gradlew tasks
```

For more details, refer to [Quickstart Guide: Bigtop Integration Test Framework 2.0](#)