

Need for a Build Tool

On an average, a developer spends a substantial amount of time doing the following jobs...

- ➤ Compiling the code
- ➤ Packaging the binaries
- > Deploying the binaries to the test server
- > Testing the changes
- Copying the code from one location to another

Ant - Build Files

 Ant's build file, called build.xml should reside in the base directory of the project.

NOTE: There should be no blank line(s) or whitespace(s) before the xml declaration.

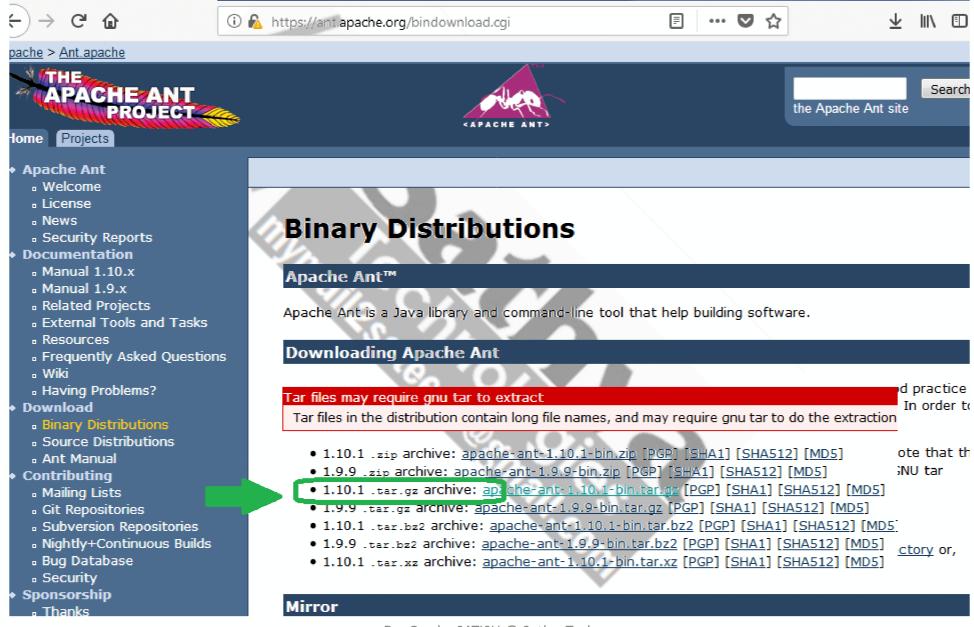
XML element **project** attributes:

Attributes	Description
name	The Name of the project. (Optional)
default	The default target for the build script. A project may contain any number of targets. This attribute specifies which target should be considered as the default. (Mandatory)
basedir	The base directory (or) the root folder for the project. (Optional)

Apache Ant Installation on Ubuntu

- #apt-get update
- #apt-get install openjdk-7-jdk -y
- #apt-get install tomcat7 -y
- #apt-get install git-core -y
- #apt-get install ant -y
- #ant -version

Distribution Installation



Distribution Installation

```
#vi ~/.profile (or) #vi ~/.bashrc
export JAVA_HOME="/opt/jdk1.8.0_151"
export PATH=$JAVA_HOME/bin:$PATH
```

export CATALINA_HOME="/opt/apache-tomcat-9.0.2" export PATH=\$CATALINA_HOME/bin:\$PATH

export M2_HOME="/opt/apache-maven-3.5.2" export PATH=\$M2_HOME/bin:\$PATH

export ANT_HOME="/opt/apache-ant-1.10.1"
export PATH=\$ANT_HOME/bin:\$PATH
source .profile

Building a Project

Download a Project:

```
#git clone
  https://github.com/sathyadevops/antproj.git
#cd antproj
#vi build.xml
#ant (it generates .war file in /dist dir)
#cp ./dist/AntExample.war
  /var/lib/tomcat7/webapps/
#service tomcat7 restart
```

Open browser http://ip:8080/AntExample