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Integrate Maven with jenkins:

High level steps:

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* setup maven on jenkins server
* setup environemnt variables
* JAVA\_HOME, M2, M2\_HOME
* Install maven plugin
* configure maven and java

**Installation procedure on linux:**

Ref : https://maven.apache.org/install.html

**Download maven:**

<https://maven.apache.org/download.cgi>

apache-maven-3.9.6-bin.tar.gz - copy link address

cd /opt

wget https://dlcdn.apache.org/maven/maven-3/3.9.6/binaries/apache-maven-3.9.6-bin.tar.gz

tar -xvzf apache-maven-3.9.6-bin.tar.gz

mv apache-maven-3.9.6-bin.tar.gz maven

cd maven/bin

./mvn -v

**To set environment variable**

update variables in bash\_profile

vi .bash\_profile or vi .bashrc

M2\_HOME=/opt/maven

M2=/opt/maven/bin

JAVA\_HOME=/usr/lib/jvm/java-17-amazon-corretto.x86\_64

PATH=$PATH:$HOME/bin:$JAVA\_HOME:$M2\_HOME:$M2

logout and login to reflect or source .bash\_profile

mvn -v

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INSTALL PLUGIN:

Open Jenkins url and install maven plugin

manage jenkins -> plugins-> available plugin -> maven integration plugin

mange jenkins -> tool configuration -> configure java and maven

configure java:

JAVA\_HOME: /usr/lib/jvm/java-1.17.0-openjdk-amd64

configure maven:

MAVEN\_HOME: /opt/maven

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**Create Jenkins job**

Go to jenkins-> new item -> maven project -> update description-> source code management -> select git-> update url-> branch specifier- main ->

-> build -> pom.xml -> goals and options -> clean install -> apply and save -> build now

check the war file created /var/lib/jenkins/project/webapp/target/webapp.rar

Building war: /var/lib/jenkins/workspace/firstmavenproject/webapp/target/webapp.war

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