https://linoxide.com/linux-how-to/install-bamboo-centos-7/

Bamboo is a continuous integration and deployment server. It provides an automated and reliable build/test process for software source-codes. It is an efficient way to manage the build that have different requirements. The build and test processes are triggered automatically on completion of the code. It provides sophisticated methodology for the Software development teams as:

a) An automated building and testing of software source-code  
b) Providing updates on successful and failed builds  
c) Reporting tools for statistical Analysis  
d) Build information

**System Requirements for the installation**

**Hardware Considerations:**

1. The Software only supports 64 bit derived hardware platforms.
2. The CPU/RAM depends upon the complexity of the plans. For a minimum installation setup I recommend atleast 4 core CPU and 2GB RAM
3. 20GB storage is the minimum requirement for the installation

**Software Considerations:**

1. Bamboo requires a full Java Development Kit (JDK) platform to be installed on the server. It's purely a Java application and run on any platforms provided all the Java requirements are satisfied.
2. It is a Web application, hence needs an application server. Tomcat is the application server used for this.
3. It supports almost all popular relational database servers like PostgreSQL, MySQL, Oracle, MicroSoft SQL server etc

In this article, I'm providing the guidelines for the installation of this Web Application on a CentOS 7 server. Let's walk through the installation steps.

**1. Check the supported platforms**

As mentioned above, you can check and confirm the availability of the system requirements including the hardware and software considerations.

**2. Check the Java version**

This application requires the JDK 1.8 version to be installed on the server. If you've not installed this. Then make sure you download and install this exact JDK version as required.

[root@server1 kernels]#yum install java-1.8.0-openjdk

[root@server1 kernels]# echo $JAVA\_HOME

[root@server1 kernels]# java -version

openjdk version "1.8.0\_91"

OpenJDK Runtime Environment (build 1.8.0\_91-b14)

OpenJDK 64-Bit Server VM (build 25.91-b14, mixed mode)

**2. Install PostgreSQL**

Bamboo installation choose PostgreSQL database by default. Install this if you plan to use this database server for this application. You can even use other external databases like MySQL, but you need to connect the application to this external database in that case. JDBC driver for PostgreSQL is bundled with the Bamboo installation. But for any other external application we need to configure Bamboo JDBC connection to the external database. I've chosen to use PostgreSQL as my database server. I've run this command to install this.

root@server1 ~]# yum install postgresql

**3. Creating the application user and managing installation/application folders.**

It is always recommended to run an application as its dedicated user rather than as root. I created a user to run this application and also created an application data and installation folder prior to the installation. I changed the ownerships of the folders to the dedicated bamboo user created.

root@server1 kernels]# useradd --create-home -c "Bamboo role account" bamboo

[root@server1 bamboo]# mkdir -p /opt/atlassian/bamboo

[root@server1 bamboo]# chown bamboo: /opt/atlassian/bamboo

[root@server1 bamboo]# ls -ld /opt/atlassian/bamboo

drwxr-xr-x 2 bamboo bamboo 4096 Apr 26 05:26 /opt/atlassian/bamboo

Now you can switch to the bamboo user and download the Bamboo installation packages from their website and extract that in the installation folder.

root@server1 bamboo]# su - bamboo

[bamboo@server1 ~]$ cd /opt/atlassian/bamboo

[bamboo@server1 bamboo]$

[bamboo@server1 tmp]$ wget https://www.atlassian.com/software/bamboo/downloads/binary/atlassian-bamboo-5.10.3.tar.gz

[bamboo@server1 tmp]$ cd -

/opt/atlassian/bamboo

[bamboo@server1 bamboo]$

[bamboo@server1 bamboo]$ tar -xvf /tmp/atlassian-bamboo-5.10.3.tar.gz

Create a symlink to a directory current for the ease of managing the files.

[bamboo@server1 bamboo]$ ln -s atlassian-bamboo-5.10.3 current

[bamboo@server1 bamboo]$ ll

total 4

drwxr-xr-x 13 bamboo bamboo 4096 Mar 14 14:47 atlassian-bamboo-5.10.3

lrwxrwxrwx 1 bamboo bamboo 23 Apr 26 05:30 current -> atlassian-bamboo-5.10.3

Now create and modify the application-data folder location in the Bamboo configuration files.

[root@server1 bamboo]# mkdir -p /var/atlassian/application/bamboo

[root@server1 var]# chown bamboo: /var/atlassian/application/bamboo/

[bamboo@server1 bamboo]$ cat current/atlassian-bamboo/WEB-INF/classes/bamboo-init.properties

## You can specify your bamboo.home property here or in your system environment variables.

#bamboo.home=C:/bamboo/bamboo-home

bamboo.home=/var/atlassian/application/bamboo

It is recommended to keep different folder locations for the installation and storage of this application.

**4. Start Bamboo**

Now you switch to the bamboo user and move to your installation folder. Run the startup script from the installation folder.

bamboo@server1 current]$ pwd

/opt/atlassian/bamboo/current

[bamboo@server1 current]$ bin/start-bamboo.sh

**To run Bamboo in the foreground, start the server with start-bamboo.sh -fg**

**Server startup logs are located in /home/bamboo/current/logs/catalina.out**

**Bamboo Server Edition**

**Version : 5.10.3**