

Apache Tomcat

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What is web application?

Applications accessed via web browsers is called as web application

Technologies used for developing web applications

- Java
- .Net
- Python
- PHP
- Node JS (MEAN)
- Ruby on rails
- HTML/CSS/Javascript
- Cold Fusion

What is the runtime for Web applications?

Web servers are the runtime for running web applications

- Apache (PHP/HTML)
- Nginx (PHP/HTML)
- Apache Tomcat (Java)
- IIS (.NET)
- Weblogic (Java)
- JBoss (Java)
- Sun glassfish (Java)
- Pramati Application Server (Java)
- Websphere (Java)



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Is a web server used for deploying java based web applications

Why do we use web servers?

Web servers come with built in features, like

- http/https implementations
- Multi threading capabilities, using thread we can handle multiple requests concurrently
- Application lifecycle management
- Etc..

App servers

Web server features + transaction management + Directory services + EJB containers etc..

- Webshphere
- Weblogic
- JBoss
- etc...

Installing Tomcat on linux machine

- Java is the dependency for tomcat to work
 - Installing java
 - sudo yum install java-1.8.0-openjdk-devel -y
- cd /opt
- Download tomcat sudo wget

http://www-us.apache.org/dist/tomcat/tomcat-8/v8.5.20/bin/apache-tomcat-8.5.20.tar.gz

- Untar the file
 - sudo tar -xf apache-tomcat-8.5.20.tar.gz
- Rename the file
 - sudo mv apache-tomcat-8.5.20 tomcat8
- Change the ownership of tomcat to ec2-user
 - sudo chown -R ec2-user:ec2-user tomcat8
- Starting tomcat server
 - \${TOMCAT_HOME}/bin/startup.sh Note: default port of tomcat is **8080**
- Stopping tomcat server \${TOMCAT_HOME}/bin/shutdown.sh



Deploying web application on the tomcat server

Deployment can be done in many ways

- Place the war file under \${TOMCAT_HOME}/webapps webapps folder is called as tomcat's deployment directory
- 2. Upload war file via tomcat manager application

Troubleshooting tomcat specific issues

Troubleshooting is done with help of tomcat log files \${TOMCAT_HOME}/logs

Tomcat manager application

Tomcat manager is the web application, using this we manage applications running on tomcat By default access is restricted to this application.

- Remove the restriction to manager application
 vi /opt/tomcat8/webapps/manager/META-INF/context.xml
 Remove the
 Remove the
- Add user to access tomcat manager application vi /opt/tomcat8/conf/tomcat-users.xml

```
<role rolename="manager-gui"/>
<role rolename="manager-script"/>
<user username="javahome" password="javahome" roles="manager-gui,manager-script"/>
```