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# **Assessment**

# **Application Server**

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**1.What is the difference between an Application Server and a Web Server?**

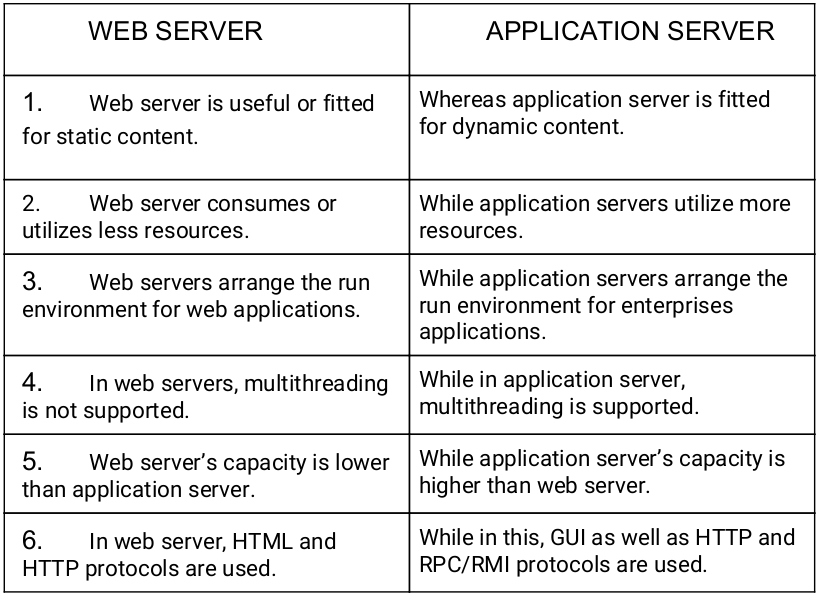
There is not much difference between Application server and web server, one is used to serve HTTP request and other is used to store business logic.

Basically, web server are used before application server, the reasons are

Security: Our business logic is stored in the application server, we want to hide it.

SSL offloading: We don’t have to manage multiple SSL certificate, hence we only configure HTTPS on web server.

Web servers are faster and lightweight and hence are used to serve static content.



2. **What is Catalina?**

Catalina in Tomcat's servlet container. Catalina implements Sun Microsystems' specifications for servlet and JavaServer Pages (JSP)

A servlet is a server-side component written in Java programming language that receives requests from clients and sends responses back.

3. **Describe tomcat directory structure.**

/bin : Contains Start/Stop scripts for tomcat for both windows and linux operating system. Also consists of JAR files with classes required to control the tomcat server.

/conf : Contains main configuration files (web.xml and server.xml).

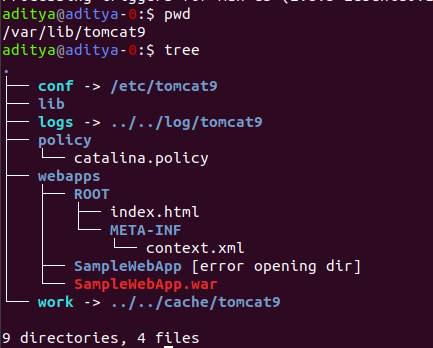
/lib : Contains the Tomcat Java Archive (jar) files, shared across all Tomcat components.

/logs : Contains tomcat log files.

/temp: Temporary file storage.

/webapps : Deployment staging directory, where you place your WAR file.

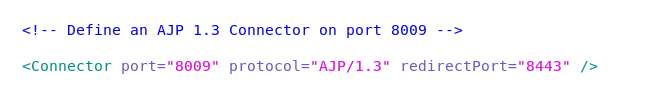
/work : Tomcat`s working directory where Tomcat places all servlets that are generated from JSPs.

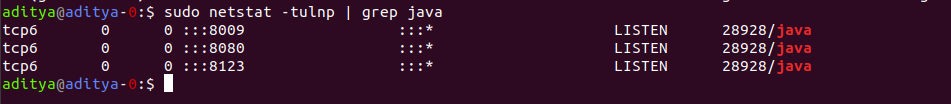


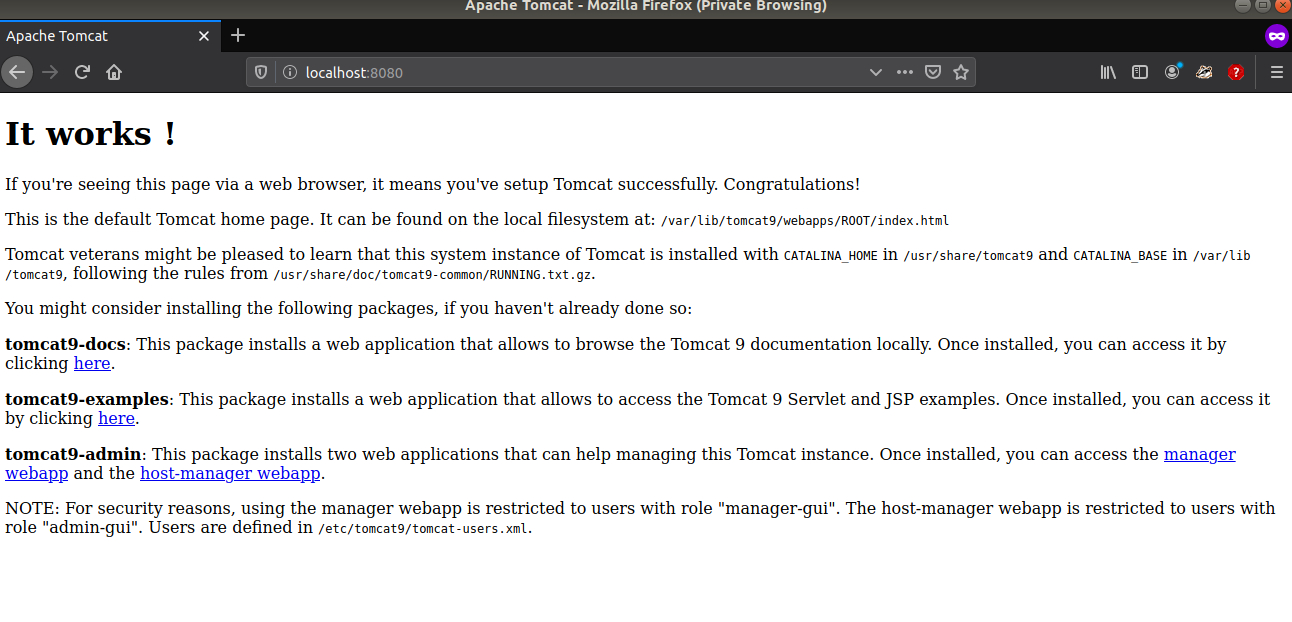
4.**Connect any sample.war to MySQL running on localhost.**

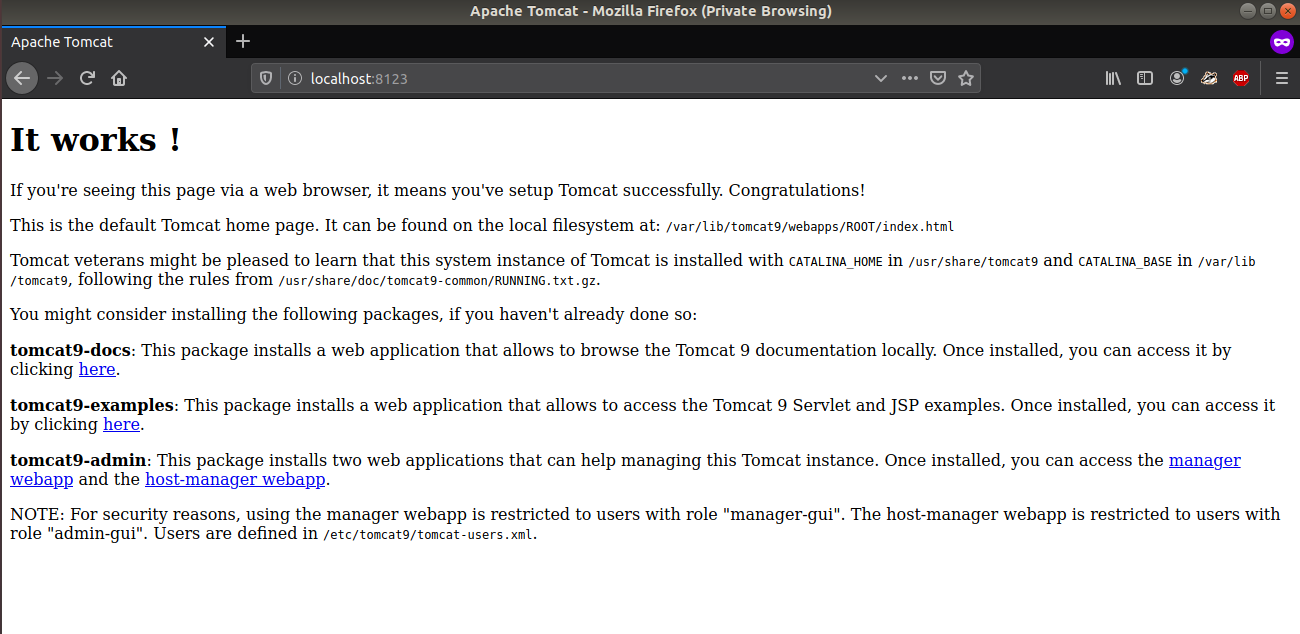
5.**Run multiple services on different ports with different connectors (AJP/HTTP) on same tomcat installation.**

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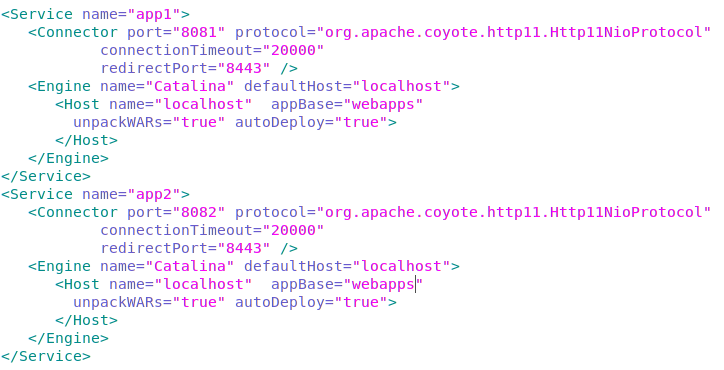
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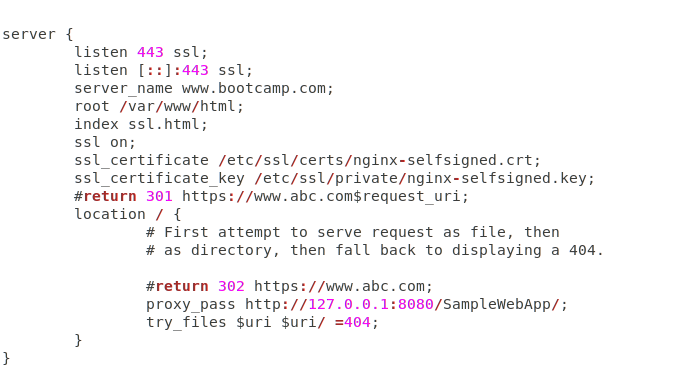
Method 2:

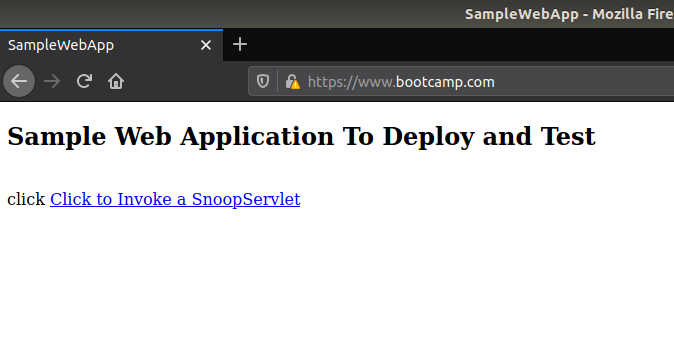
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**Use nginx as reverse proxy for tomcat application.**

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**Setup self signed certificate on that nginx for bootcamp.com.**





**What is the difference between proxy\_pass & proxy\_pass reverse?**

In forward proxy client identity is hidden when they request(ex. VPN)

In reverse proxy server identity is hidden, (ex. Client will hit nginx and it will serve content from tomcat)