# Tomcat Interview Qns & Ans

**1) What are the prerequisites to install Apache Tomcat?**

**A)**

* Minimum 256MB of RAM, maximum 512MB
* Minimum disk space of 250MB, maximum 500MB
* Java installation (OpenJDK 8 x64 bit)
* Java path set
* Apache Tomcat ZIP or TAR file
* File permissions

**2) How to create a user in Tomcat?**

* Go to: CATALINA\_HOME/conf/tomcat-users.xml
* Modify the file to include a user entry like:
* <user username="admin" password="yourpassword" roles="manager-gui,admin-gui"/>

**3) What are the default tomcat port numbers and where we can change port numbers?**

A) Default tomcat port number is 8080

Default tomcat server shutdown port is 8005

Default tomcat connector port no is 8009

-> Under catalina\_home/config directory we can find server.xml and we can change port number in server.xml file.

**4) What is the important xml file in tomcat and where it is located?**

A) Server.xml is the important configuration file which holds port number, ip address, virtual host, context path, etc.,

location: /catalina\_home>/config directory

**5) How to deploy an application in tomcat?**

A) -> In tomcat there are three types of deployment:

1) Stage mode

2) non stage mode

3) Extended stage mode

-> We can deploy application in 5 different ways

1) By using tomcat manager

2) WAR deployment

3) unpacked deployment

4) Tomcat deployer

-> Copy war file to the <catalina\_home>/web apps directory and restart your server.

-> In Apache tomcat we can deploy only web applications.

-> We can deploy WAR application by using manager application also, browse the location of the WAR file and select deploy the application it'll get deployed under web apps directory of <catalina\_home>

**6) What is the log file that will update at the time of deployment?**

A) We can check the application is deployed or not under catalina logs (catalina.<timestamp>.log) we get a message deploying web application under webapps (under webapps) under war file name.

**7) How to configure tomcat with oracle?**

A) 1) Copy Oracle jar file ojdbc14.jar (or) ojdbc6.jar into the lib directory of tomcat server.

2) Modify the parameters in the server.xml file with your corresponding values. The parameters are:

a) Driver class name

b) Type = java.sql.datasource

c) Url = jdbc:oracle:thin:@hostname:1521:database name

d) username = username and password = password of DB server

e) Define the JNDI name in the application web.xml file under the parameter resource

- reference name and resource type, make sure that the application is referencing to the JNDI name which is defined in application web.xml file.

**8) How to configure Apache webserver with Apache tomcat by using mod-jk?**

A) 1) Identify the Mod-jk.so is available under module directory of apache web server if it is not available, download and copy to the modules directory of apache webserver.

2) Create a file with the name of (workers.properties) under apache/conf directory and we have to define the parameters

worker. Machine = host, (ajp connector port number)

worker. Machine = Host, (ajp connector host name)

worker. Machine = type (ajp connector)

Worker Machine: l.b.factor

Worker Machine: local\_worker

Worker Machine: sticky\_session

Worker Root Type:

Worker Root: Balanced\_worker

Worker Root: Local\_worker

3) Configure mod-jk.so module and workers.properties in httpd.conf file by adding parameters

load module JK\_module modules/mod-jk.so

JK workers file conf/workers.properties

and restart the web server.

**9. What is the difference b/w catalina home and catalina base?**

A) Catalina home:- Represents root and tomcat installation.

# c:\Program files\apache-tomcat-9.0.10 = catalina.home

**catalina.home**

├── bin

├── lib └── enclosed

**Catalina base:-** Represents the root of a runtime configuration of a specific tomcat instances.

- If we have multiple tomcat instances on one machine, catalina base is used:

catalina base

├── bin

├── conf

├── lib

├── log

├── webapps

├── work

└── temp

-> Catalina home is required and catalina base is optional.

-> Catalina home represents the root of your tomcat installation.

**10. What type of applications we can deploy in Apache tomcat?**

A) -> In Apache tomcat we can deploy only web applications.

-> .war files can be deployed in tomcat.

**11. What are different log files in Apache tomcat?**

A) -> Console log

-> catalina.one log, wrapper.log, tomcatX - stdout.log, tomcatX - stderr.log

-> Java logs

-> Catalina.[date].log, localhost.[date].log

-> Access log

-> localhost - access.log.[date].log

**12. How to configure a cluster in tomcat?**

A) Step 1:- Install Tomcat instances and Apache httpd

Step 2:- Download and install mod\_jk

Step 3:- Configure mod\_jk

Step 4:- Configure the cluster workers

Step 5:- Configure your tomcat workers

Step 5(a):- Configure your tomcat workers - Enabling session replication

Step 5(b):- Configure your clusters.

**13) How to configure SSL in Apache tomcat:-**

1) Create a keystore file by using a command

-> keytool -genkey -alias krishna -keyalg RSA -keysize 2048 -keystore abc.keystore -keypass test123 -validity 365

2) Create a certificate request by using a command

-> keytool -certreq -alias krishna -keysize 2048 -file certreq.csr -keystore abc.keystore

3) Import a certificate by using a command

-> keytool -import -alias krishna -trustcacerts -file cert.cer -keystore abc.keystore

4) Take a backup of server.xml and add https port number 8443, protocol = enabled = true, parameter name = "socketFactory" value = "org.apache.tomcat.net.ssl.socketFactory" />

<parameter name = "keystore" value = "path of keystore" />

and restart the server.