

# TP1 : Prise en main de l'environnement JEE dans Apache Tomcat

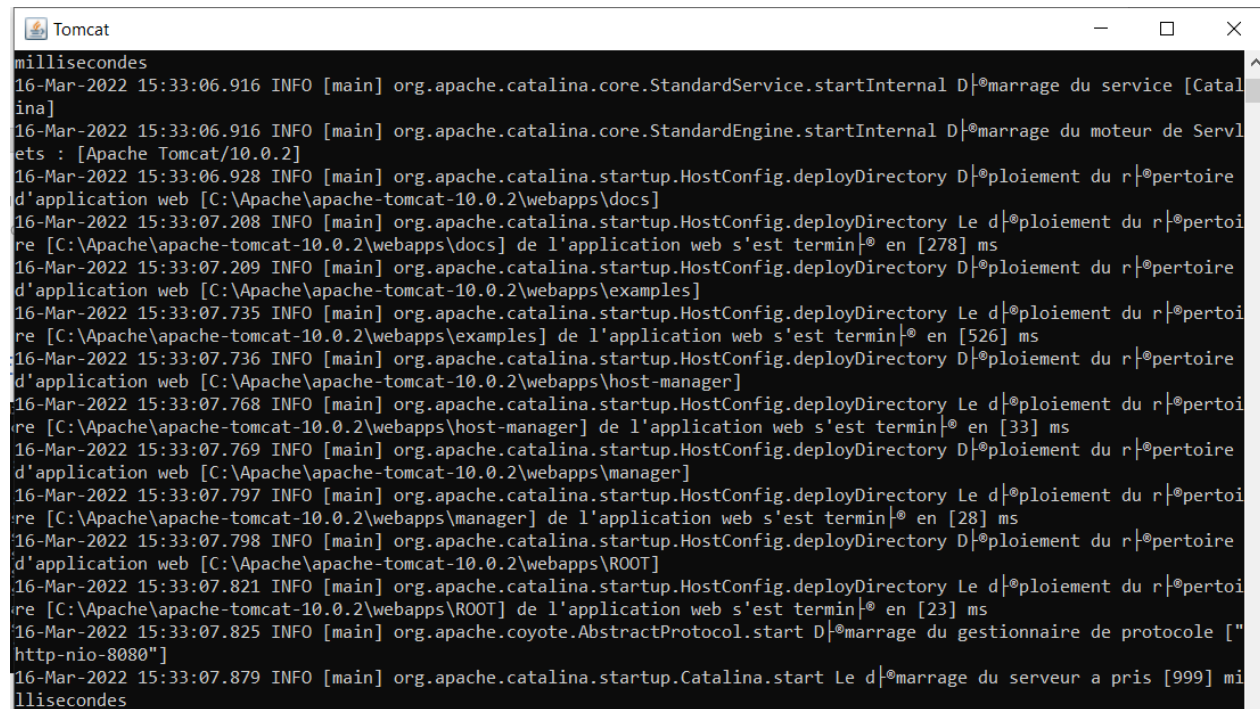
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## Exercice 1 :

- Lancement Tomcat

```
C:\Users\lenovo>cd C:\Apache\apache-tomcat-10.0.10\bin

C:\Apache\apache-tomcat-10.0.10\bin>startup.bat
Using CATALINA_BASE:   "C:\Apache\apache-tomcat-10.0.10"
Using CATALINA_HOME:   "C:\Apache\apache-tomcat-10.0.10"
Using CATALINA_TMPDIR: "C:\Apache\apache-tomcat-10.0.10\temp"
Using JRE_HOME:        "C:\Program Files\Java\jdk-17.0.1"
Using CLASSPATH:       "C:\Apache\apache-tomcat-10.0.10\bin\bootstrap.jar;C:\Apache\apache-tomcat-10.0.10\bin\tomcat-juli.jar"
Using CATALINA_OPTS:   ""
```



The screenshot shows a window titled "Tomcat" displaying the startup log. The log contains the following entries:

```
millisecondes
16-Mar-2022 15:33:06.916 INFO [main] org.apache.catalina.core.StandardService.startInternal D:\marrage du service [Catalina]
16-Mar-2022 15:33:06.916 INFO [main] org.apache.catalina.core.StandardEngine.startInternal D:\marrage du moteur de Servlets : [Apache Tomcat/10.0.2]
16-Mar-2022 15:33:06.928 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory D:\ploiement du r\pertoire d'application web [C:\Apache\apache-tomcat-10.0.2\webapps\docs]
16-Mar-2022 15:33:07.208 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Le d\ploiement du r\pertoire [C:\Apache\apache-tomcat-10.0.2\webapps\docs] de l'application web s'est termin\ en [278] ms
16-Mar-2022 15:33:07.209 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory D\ploiement du r\pertoire d'application web [C:\Apache\apache-tomcat-10.0.2\webapps\examples]
16-Mar-2022 15:33:07.735 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Le d\ploiement du r\pertoire [C:\Apache\apache-tomcat-10.0.2\webapps\examples] de l'application web s'est termin\ en [526] ms
16-Mar-2022 15:33:07.736 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory D\ploiement du r\pertoire d'application web [C:\Apache\apache-tomcat-10.0.2\webapps\host-manager]
16-Mar-2022 15:33:07.768 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Le d\ploiement du r\pertoire [C:\Apache\apache-tomcat-10.0.2\webapps\host-manager] de l'application web s'est termin\ en [33] ms
16-Mar-2022 15:33:07.769 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory D\ploiement du r\pertoire d'application web [C:\Apache\apache-tomcat-10.0.2\webapps\manager]
16-Mar-2022 15:33:07.797 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Le d\ploiement du r\pertoire [C:\Apache\apache-tomcat-10.0.2\webapps\manager] de l'application web s'est termin\ en [28] ms
16-Mar-2022 15:33:07.798 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory D\ploiement du r\pertoire d'application web [C:\Apache\apache-tomcat-10.0.2\webapps\ROOT]
16-Mar-2022 15:33:07.821 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Le d\ploiement du r\pertoire [C:\Apache\apache-tomcat-10.0.2\webapps\ROOT] de l'application web s'est termin\ en [23] ms
16-Mar-2022 15:33:07.825 INFO [main] org.apache.coyote.AbstractProtocol.start D\marrage du gestionnaire de protocole ["http-nio-8080"]
16-Mar-2022 15:33:07.879 INFO [main] org.apache.catalina.startup.Catalina.start Le d\marrage du serveur a pris [999] millisecondes
```

- Le fichier Server.xml

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```
-->
<!-- Note: A "Server" is not itself a "Container", so you may not
      define subcomponents such as "Valves" at this level.
      Documentation at /docs/config/server.html
-->
<Server port="8005" shutdown="SHUTDOWN">
  <Listener className="org.apache.catalina.startup.VersionLoggerListener" />
  <!-- Security listener. Documentation at /docs/config/listeners.html
  <Listener className="org.apache.catalina.security.SecurityListener" />
  -->
  <!-- APR library loader. Documentation at /docs/apr.html -->
  <Listener className="org.apache.catalina.core.AprLifecycleListener" SSLEngine="on" />
  <!-- Prevent memory leaks due to use of particular java/javax APIs-->
  <Listener className="org.apache.catalina.core.JreMemoryLeakPreventionListener" />
  <Listener className="org.apache.catalina.mbeans.GlobalResourcesLifecycleListener" />
  <Listener className="org.apache.catalina.core.ThreadLocalLeakPreventionListener" />
```

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- o La balise principale

```
<Server port="8005" shutdown="SHUTDOWN">
```

- o Les balises filles et le nombre de leurs apparitions

Listner, GlobalNamingResources, Resource, Service, Engine, Engine, Realm, Host.

- o La balise connector et ces attributs

```
<Connector executor="tomcatThreadPool"
            port="8080" protocol="HTTP/1.1"
            connectionTimeout="20000"
            redirectPort="8443" />
-->
```

---

- Le fichier tomcat-users.xml

## Apache Tomcat/10.0.10



If you're seeing this, you've successfully installed Tomcat. Congratulations!



### Recommended Reading:

[Security Considerations How-To](#)

[Manager Application How-To](#)

[Clustering/Session Replication How-To](#)

[Server Status](#)

[Manager App](#)

[Host Manager](#)

### Developer Quick Start

[Tomcat Setup](#)

[First Web Application](#)

[Realms & AAA](#)

[JDBC DataSources](#)

[Examples](#)

[Servlet Specifications](#)

[Tomcat Versions](#)

## Exercice 2 :

1-la Servlet ci-dessus qui renvoie un tableau de 10 cases par 10

```
protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
    // TODO Auto-generated method stub
    response.setContentType("text/html");
    PrintWriter out = response.getWriter();
    out.println("<table border='1'>");
    for(int i=0;i<11;i++)
    {
        out.println("<tr>");
        for(int j=0;j<11;j++)
        {
            out.println("<td>"+M("i+", "+j+")+"</td>");
        }
        out.println("<tr>");
    }
    out.println("</table>");
}
```



```
protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOEx
// TODO Auto-generated method stub
response.setContentType("application/vnd.ms-excel");
response.setHeader("Content-Disposition", "attachement;filename=MaServlet.xls");|
PrintWriter out = response.getWriter();
out.println("<table border='1'>");
for(int i=0;i<11;i++)
{
    out.println("<tr>");
    for(int j=0;j<11;j++)
    {
        out.println("<td>"+M(i+j)+"</td>");
    }
    out.println("<tr>");
}
out.println("</table>");
}
```

---

## Exercice 3 :

