

# 231123 (Apache24, 설치 및 명령어)

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Cmd 관리자모드

httpd -k install /

httpd -k uninstall / 삭제. Webserver가 정상 구동하지 않을 경우에 한다

httpd -k start / 시작

httpd -k status / 구동중인지 아닌지 상태 확인

httpd -k stop 중지 / (파일에 변동이 생기면 / update 할 것이면 stop 먼저 해야 한다)

httpd -k restart / 재시작 (웹서버엿 직접 작업했을 때 stop안하고 그냥 restart해도 된다)

```

2022-03-14 오후 06:42 141,824 nghttp2.dll
2022-06-24 오후 05:00 544,256 openssl.exe
2021-08-24 오후 10:05 391,168 pcre.dll
2022-06-06 오후 05:41 336,384 pcre2-8.dll
2022-06-24 오후 05:14 77,312 rotatelog.exe
2022-06-24 오후 05:14 18,432 wintty.exe
2022-05-05 오후 04:45 89,088 zlib1.dll
31개 파일 9,584,104 바이트
3개 디렉터리 33,946,783,744 바이트 남음

c:\w\Apache24\bin>httpd -k install
Installing the 'Apache2.4' service
The 'Apache2.4' service is successfully installed.
Testing httpd.conf...
Errors reported here must be corrected before the service can be started.

c:\w\Apache24\bin>httpd -k install
[Thu Nov 23 11:08:46.019994 2023] [mpm_winnt:error] [pid 6332:tid 412] AH00433: Apache2.4: Service is already installed.

c:\w\Apache24\bin>httpd -k uninstall
Removing the 'Apache2.4' service
The 'Apache2.4' service has been removed successfully.

c:\w\Apache24\bin>httpd -k install
Installing the 'Apache2.4' service
The 'Apache2.4' service is successfully installed.
Testing httpd.conf...
Errors reported here must be corrected before the service can be started.

c:\w\Apache24\bin>httpd -k start

c:\w\Apache24\bin>httpd -k status
(OS 10048)각 소켓 주소(프로토콜/네트워크 주소/포트)는 하나만 사용할 수 있습니다. : AH00072: make_sock: could not bind t
o address [::]:80
(OS 10048)각 소켓 주소(프로토콜/네트워크 주소/포트)는 하나만 사용할 수 있습니다. : AH00072: make_sock: could not bind t
o address 0.0.0.0:80
AH00451: no listening sockets available, shutting down
AH00015: Unable to open logs

c:\w\Apache24\bin>httpd -k stop
The 'Apache2.4' service is stopping.
The 'Apache2.4' service has stopped.

c:\w\Apache24\bin>httpd -k start

c:\w\Apache24\bin>httpd -k status
(OS 10048)각 소켓 주소(프로토콜/네트워크 주소/포트)는 하나만 사용할 수 있습니다. : AH00072: make_sock: could not bind t
o address [::]:80
(OS 10048)각 소켓 주소(프로토콜/네트워크 주소/포트)는 하나만 사용할 수 있습니다. : AH00072: make_sock: could not bind t
o address 0.0.0.0:80
AH00451: no listening sockets available, shutting down
AH00015: Unable to open logs

c:\w\Apache24\bin>

```

C:\w\Apache24\htdocs

C드라이브-Apache24\htdocs 디렉토리에 원하는 html파일 넣으면

127.0.0.1 주소로 뜬다.

## 공식문서

- 29) Windows Service
- Installing services

## Apache Tomcat 9 (9.0.83) - Windows Service How-To

```
C:\>cd c:\wapache-tomcat-9.0\bin

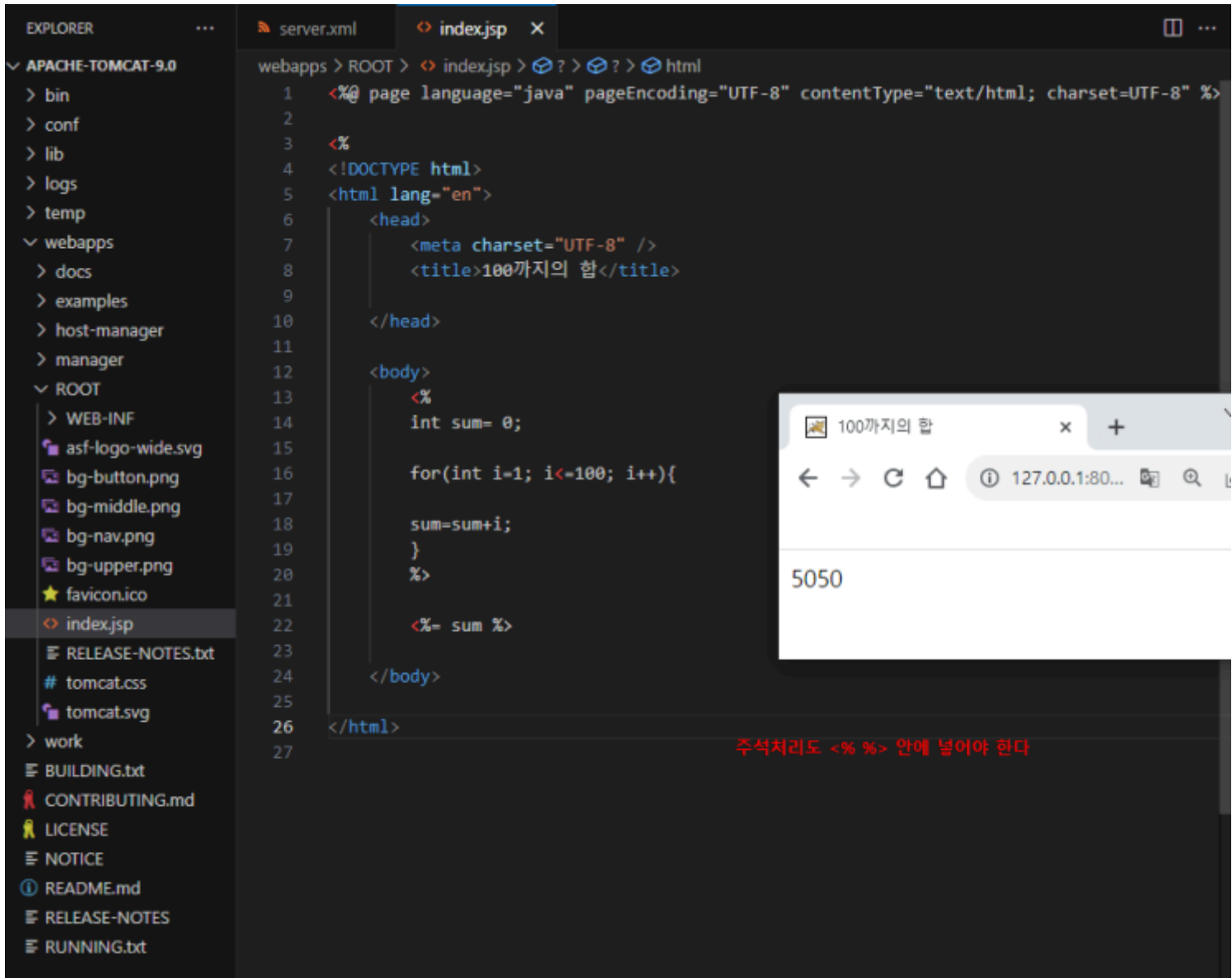
c:\wapache-tomcat-9.0\bin>service uninstall
Removing the service 'Tomcat9' ...
Using CATALINA_BASE:   "c:\wapache-tomcat-9.0"
The service 'Tomcat9' has been removed

c:\wapache-tomcat-9.0\bin>service install
Installing the service 'Tomcat9' ...
Using CATALINA_HOME:   "c:\wapache-tomcat-9.0"
Using CATALINA_BASE:   "c:\wapache-tomcat-9.0"
Using JAVA_HOME:       "C:\Program Files\Java\jdk-11"
Using JRE_HOME:        "C:\Program Files\Java\jdk-11"
Using JVM:              "C:\Program Files\Java\jdk-11\bin\server\jvm.dll"
The service 'Tomcat9' has been installed.

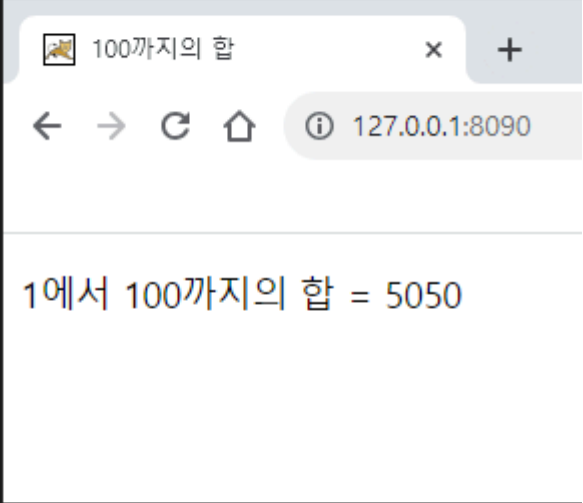
c:\wapache-tomcat-9.0\bin>startupt
Using CATALINA_BASE:   "c:\wapache-tomcat-9.0"
Using CATALINA_HOME:   "c:\wapache-tomcat-9.0"
Using CATALINA_TMPDIR: "c:\wapache-tomcat-9.0\tmp"
Using JRE_HOME:        "C:\Program Files\Java\jdk-11"
Using CLASSPATH:       "c:\wapache-tomcat-9.0\bin\bootstrap.jar;c:\wapache-tomcat-9.0\bin\tomcat-juli.jar"
Using CATALINA_OPTS:   ""
c:\wapache-tomcat-9.0\bin>
```

```
APACHE...  conf > server.xml
> bin
> conf
  > Catalina
    catalina.policy
    catalina.properties
    context.xml
    jaspic-providers.xml
    jaspic-providers.xsd
    logging.properties
    server.xml
    tomcat-users.xml
    tomcat-users.xsd
    web.xml
  > lib
  > logs
  > temp
  > webapps
  > work
  BUILDING.txt
  CONTRIBUTING.md
  LICENSE
  NOTICE
  README.md
  RELEASE-NOTES
  RUNNING.txt
56 <!--
57 <Executor name="tomcatThreadPool" namePrefix="catalina-exec-"
58     maxThreads="150" minSpareThreads="4"/>
59 -->
60
61
62 <!-- A "Connector" represents an endpoint by which requests are received
63      and responses are returned. Documentation at :
64      Java HTTP Connector: /docs/config/http.html
65      Java AJP  Connector: /docs/config/ajp.html
66      APR (HTTP/AJP) Connector: /docs/apr.html
67      Define a non-SSL/TLS HTTP/1.1 Connector on port 8080
68 -->
69 <Connector port="8090" protocol="HTTP/1.1"
70           connectionTimeout="20000" 20초동안 유지해라
71           redirectPort="8443"
72           maxParameterCount="1000" 질문의 개수는 1000개까지만
73           />
74 <!-- A "Connector" using the shared thread pool-->
75 <!--
76 <Connector executor="tomcatThreadPool"
77           port="8080" protocol="HTTP/1.1"
78           connectionTimeout="20000"
79           redirectPort="8443"
80           maxParameterCount="1000"
81           />
82 -->
83 <!-- Define an SSL/TLS HTTP/1.1 Connector on port 8443
84      This connector uses the NIO implementation. The default
85      SSL implementation will depend on the presence of the APR/native
```

tomcat 설치 후, oracle 설치했었는데,  
오늘 tomcat 127.0.0.1:8080 주소로 접속하니 tomcat이안뜨고 자꾸 로그인하라고 떴다.  
알고보니 oracle과 tomcat 둘다 포트번호 8080 사용해서 겹쳐서 오라클이 뜬 것.  
둘 중 하나를 port 번호를바꿔주면 된다.  
Apache-tomcat-9.0 - conf - server.xml - 69번째줄 "port=8090" 으로 바꿔주었다.



```
index.jsp x
webapps > ROOT > index.jsp > ? > html > body
1 <%@ page language="java" pageEncoding="UTF-8" contentType="text/html; charset=UTF-8"
2
3
4 <!DOCTYPE html>
5 <html lang="en">
6   <head>
7     <meta charset="UTF-8" />
8     <title>100까지의 합</title>
9
10  </head>
11
12  <body>
13    <%
14      int sum = 0;
15      for(int i = 1; i <= 100; i++){
16        sum = sum+i;
17      }
18    %>
19
20    <p> 1에서 100까지의 합 = <%= sum %> </p>
21  </body>
22
23 </html>
```



jsp는 tomcat만 사용한다

웹서버는 정적파일만 처리한다