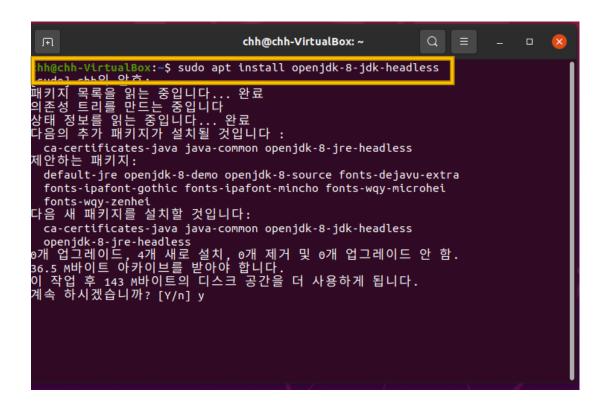
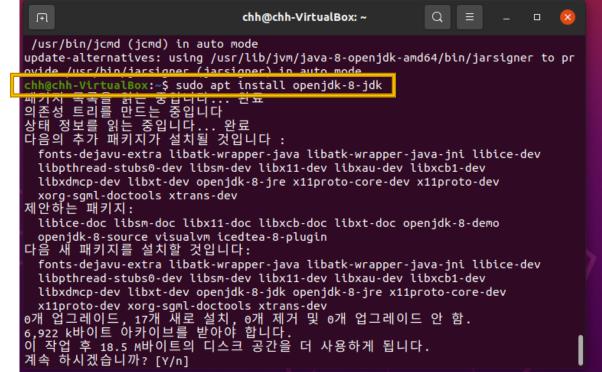
< 리눅스 서버 - WAS 구축 >

1) 자바(버전8) 설치





2. tomcat9 설치 & 서비스 상태

```
chh@chh-VirtualBox:~$ sudo apt install tomcat9

파키지 목록을 읽는 중입니다... 완료
의존성 트리를 만드는 중입니다
상태 정보를 읽는 중입니다... 완료
다음의 추가 패키지가 설치될 것입니다 :
libapr1 libeclipse-jdt-core-java libtcnative-1 libtomcat9-java
tomcat9-common
제안하는 패키지:
tomcat9-admin tomcat9-docs tomcat9-examples tomcat9-user
다음 새 패키지를 설치할 것입니다:
libapr1 libeclipse-jdt-core-java libtcnative-1 libtomcat9-java tomcat9
tomcat9-common
o개 업그레이드, 6개 새로 설치, 0개 제거 및 0개 업그레이드 안 함.
12.4 써바이트 아카이브를 받아야 합니다.
이 작업 후 14.9 써바이트의 디스크 공간을 더 사용하게 됩니다.
계속 하시겠습니까? [Y/n]
```

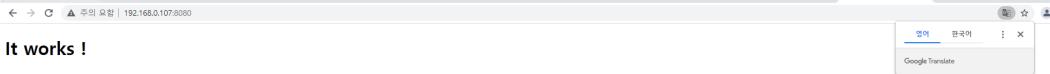
```
chh@chh-VirtualBox: ~
 chh@chh-VirtualBox:~$ sudo service tomcat9 status
 tomcat9.service - Apache Tomcat 9 Web Application Server
     Loaded: loaded (/lib/systemd/system/tomcat9.service; enabled; vendor prese>
     Active: active (running) since Fri 2021-10-01 15:09:23 KST; 38s ago
       Doce doc/index.html
   Main PID: 6324 (java)
      Tasks: 28 (limit: 2312)
     Memory: 73.0M
     CGroup: /system.slice/tomcat9.service
             └─6324 /usr/lib/jvm/java-8-openjdk-amd64/bin/java -Djava.util.logg>
10월 01 15:09:25 chh-VirtualBox tomcat9[6324]: OpenSSL successfully initialized
10월 01 15:09:25 chh-VirtualBox tomcat9[6324]: Initializing ProtocolHandler ["h>
10월 01 15:09:26 chh-VirtualBox tomcat9[6324]: Server initialization in [1,929]>
10월 01 15:09:26 chh-VirtualBox tomcat9[6324]: Starting service [Catalina]
10월 01 15:09:26 chh-VirtualBox tomcat9[6324]: Starting Servlet engine: [Apache
10월 01 15:09:26 chh-VirtualBox tomcat9[6324]: Deploying web application direct>
10월 01 15:09:27 chh-VirtualBox tomcat9[6324]: At least one JAR was scanned for
10월 01 15:09:27 chh-VirtualBox tomcat9[6324]: Deployment of web application di
10월 01 15:09:27 chh-VirtualBox tomcat9[6324]: Starting ProtocolHandler ["http->
10월 01 15:09:27 chh-VirtualBox tomcat9[6324]: Server startup in [1,802] millis>
 CCHES 1-20/20 (END)
[1]+ 멈춤
                           sudo service tomcat9 status
```

3. Tomcat.xml 수정

```
<Realm className="org.apache.catalina.realm.UserDatabaseRealm"</pre>
         resourceName="UserDatabase"/>
</Realm>
<Host name="localhost" appBase="webapps"</pre>
      unpackWARs="true" autoDepLoy="true">
  <!-- SingleSignOn valve, share authentication between web applications
       Documentation at: /docs/config/valve.html -->
<!--
  <Valve className="org.apache.catalina.authenticator.SingleSignOn" />
-->
  <!-- Access log processes all example.
       Documentation at: /docs/config/valve.html
       Note: The pattern used is equivalent to using pattern="common" -->
  <Valve className="org.apache.catalina.valves.AccessLogValve" directory="logs"</pre>
         prefix="localhost access log" suffix=".txt"
         pattern="%h %l %u %t "%r" %s %b" />
```

appBase="/home/chh/www" 로 수정

3. Tomcat 시작페이지 > (server IP 주소 입력)



If you're seeing this page via a web browser, it means you've setup Tomcat successfully. Congratulations!

This is the default Tomcat home page. It can be found on the local filesystem at: /var/lib/tomcat9/webapps/R00T/index.html

Tomcat veterans might be pleased to learn that this system instance of Tomcat is installed with CATALINA_HOME in /usr/share/tomcat9 and CATALINA_BASE in /var/lib/tomcat9, following the rules from /usr/share/doc/tomcat9-common/RUNNING.txt.gz.

You might consider installing the following packages, if you haven't already done so:

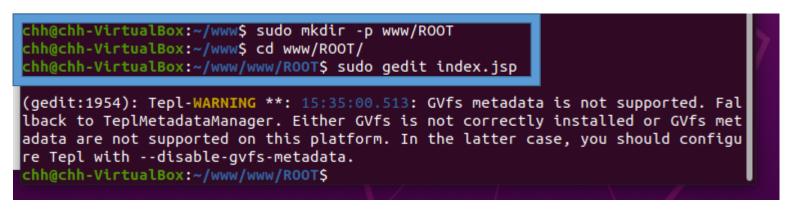
tomcat9-docs: This package installs a web application that allows to browse the Tomcat 9 documentation locally. Once installed, you can access it by clicking here.

tomcat9-examples: This package installs a web application that allows to access the Tomcat 9 Servlet and JSP examples. Once installed, you can access it by clicking here.

tomcat9-admin: This package installs two web applications that can help managing this Tomcat instance. Once installed, you can access the manager webapp and the host-manager webapp.

NOTE: For security reasons, using the manager webapp is restricted to users with role "manager-gui". The host-manager webapp is restricted to users with role "admin-gui". Users are defined in /etc/tomcat9/tomcat-users.xml.

4. Index 페이지를 이용한 WAS 정상 동작 확인





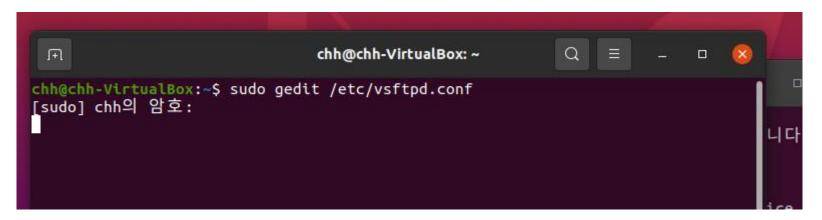
터미널에서 ftp 설치 및 확인

```
Chh@chh-VirtualBox:~ Q = - □ ★

Chh@chh-VirtualBox:~$ sudo apt install vsftpd

[sudo] chh의 암호:
패키지 목록을 읽는 중입니다... 완료
의존성 트리를 만드는 중입니다
상태 정보를 읽는 중입니다... 완료
다음 새 패키지를 설치할 것입니다:
vsftpd
6개 업그레이드, 1개 새로 설치, 6개 제거 및 6개 업그레이드 안 함.
115 k바이트 아카이브를 받아야 합니다.
이 작업 후 338 k바이트의 디스크 공간을 더 사용하게 됩니다.
받기:1 http://kr.archive.ubuntu.com/ubuntu focal/main amd64 vsftpd amd64 3.0.3-1
2 [115 kB]
내려바기 115 k바이트 소요시가 1초 (92 4 k바이트/초)
```

ftp 설정 변경

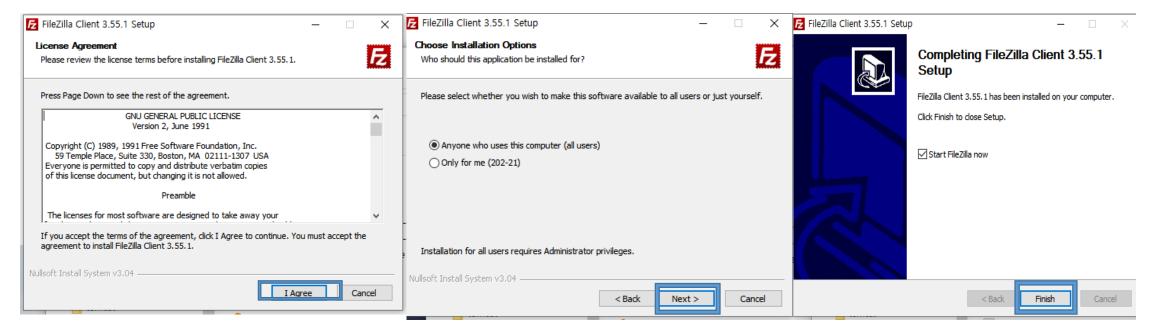


31 & 35 라인 주석 해제

```
27 # Uncomment this to allow local users to log in.
28 local enable=YES
29 #
30 # Uncomment this to enable any form of FTP write command.
31 write enable=YES
32 #
33 # Default umask for local users is 077. You may wish to change this to 022,
34 # if your users expect that (022 is used by most other ftpd's)
35 local umask=022
36 #
37 # Uncomment this to allow the anonymous FTP user to upload files. This only
38 # has an effect if the above global write enable is activated. Also, you will
39 # obviously need to create a directory writable by the FTP user.
40 #anon upload enable=YES
41 #
42 # Uncomment this if you want the anonymous FTP user to be able to create
13 # new directories
```

파일질라 다운로드





파일 > 사이트 관리자 'New Site' 클릭 > 호스트 : server IP 주소 > 사용자 & 비밀번호 (계정 사용자 / 비밀번호 입력) 접속 성공

