## Linux2

#### Apache2 설치

http://progtrend.blogspot.com/2018/06/amazon-linux-2-apache-web-server.html

- 1. \$ sudo yum update
- 2. \$ sudo yum upgrade

Tomcat과 연동할 계획이라면 httpd-devel 패키지도 설치해 주도록 하자. httpd-devel 패키지는 Apache용 모듈을 빌드할 때 사용될 헤더파일들과 도구(apxs)를 설치해준다. Tomcat 연동을 위한 AJP13 프로토콜 연결을 위해서 mod\_jk 모듈을 많이 사용하는데 mod\_jk 모듈을 빌드하기 위해서 반드시 필요하므로 연동을 원한다면 반드시 설치해 주도록 하자.

- 3. \$ sudo yum install httpd
- 4. \$ sudo yum install httpd-devel

```
// Apache 시작
$ sudo service httpd start
// Apache 종료
$ sudo service httpd stop
// Apache 재시작
$ sudo service httpd restart
```

### WildFly 설치

https://linuxize.com/post/how-to-install-wildfly-on-centos-7/

- 1. [Install Java OpenJDK]
  - \$ sudo yum install java-1.8.0-openjdk-devel
- 2. [ Create a user ]
  - \$ sudo groupadd -r wildfly
  - \$ sudo useradd -r -g wildfly -d /opt/wildfly -s /sbin/nologin wildfly

- 3. [Install Wildfly]
  - \$ WILDFLY\_VERSION=16.0.0.Final
  - \$ wget https://download.jboss.org/wildfly/\$WILDFLY\_VERSION/wildfly-\$WILDFLY\_VERSION.tar.gz -P /tmp
  - \$ sudo tar xf /tmp/wildfly-\$WILDFLY\_VERSION.tar.gz -C /opt/
  - \$ sudo In -s /opt/wildfly-\$WILDFLY\_VERSION /opt/wildfly
  - \$ sudo chown -RH wildfly: /opt/wildfly
- 4. [Configure Systemd]
  - \$ sudo mkdir -p /etc/wildfly
  - \$ sudo cp /opt/wildfly/docs/contrib/scripts/systemd/wildfly.conf /etc/wildfly/
  - \$ sudo cp /opt/wildfly/docs/contrib/scripts/systemd/launch.sh /opt/wildfly/bin/
  - \$ sudo sh -c 'chmod +x /opt/wildfly/bin/\*.sh'
  - \$ sudo cp /opt/wildfly/docs/contrib/scripts/systemd/wildfly.service /etc/systemd/system/
  - \$ sudo systemctl daemon-reload
- 5. [Configure Wildfly authentication]
  - \$ sudo /opt/wildfly/bin/add-user.sh

```
Cec2-user@ip-172-31-23-245 ~]$ sudo /opt/wildfly/bin/add-user.sh

What type of user do you wish to add?

a) Management User (mgmt-users.properties)
b) Application User (application-users.properties)
(a): a

Enter the details of the new user to add.
Using realm 'ManagementRealm' as discovered from the existing property files.
Username : sunny
Password recommendations are listed below. To modify these restrictions edit the add-user.properties configuration file.

- The password should be different from the username
- The password should not be one of the following restricted values {root, admin, administrator}.
- The password should contain at least 8 characters, I alphabetic character(s), I digit(s), I non-all phanumeric symbol(s)
Password:
WFLYDMO099: Password should have at least 8 characters!
Are you sure you want to use the password entered yes/no? yes
Pe-enter Password:
What groups do you want this user to belong to? (Please enter a comma separated list, or leave blank for none)[]:
About to add user 'sunny' for realm 'ManagementRealm'
Is this correct yes/no? yes
Added user 'sunny' to file '/opt/wildfly-16.0.0.Final/standalone/configuration/mgmt-users.properties'
Added user 'sunny' to file '/opt/wildfly-16.0.0.Final/domain/configuration/mgmt-users.properties'
Added user 'sunny' with groups to file '/opt/wildfly-16.0.0.Final/standalone/configuration/mgmt-groups.properties'
Added user 'sunny' with groups to file '/opt/wildfly-16.0.0.Final/domain/configuration/mgmt-groups.properties'
Added user 'sunny' with groups to file '/opt/wildfly-16.0.0.Final/domain/configuration/mgmt-g
```

6. [8080 port 열기]

AWS 페이지에서 [보안그룹 - 인바인드 - 편집]

"사용자 지정 TCP"에서 8080 포트를 연다.

7. [ Adjust the Firewall ]

방화벽에서 8080 포트 접속 허용 [http://millky.com/@origoni/post/1128]

Search package

\$ sudo yum install firewall-config.noarch

\$ sudo firewall-cmd --permanent --zone=public --add-port=8080/tcp

\$ sudo firewall-cmd -reload

8. http://{IP주소}:8080



## Apache - Wildfly 연동

# https://jbh1024.tistory.com/11?category=561802

- 1. Tomcat-connector 설치 (wildfly와 상응하는 버전이 필요)
  - \$ wget <a href="http://apache.mirror.cdnetworks.com/tomcat/tomcat-connectors/jk/tomcat-connectors-1.2.46-src.tar.gz">http://apache.mirror.cdnetworks.com/tomcat/tomcat-connectors/jk/tomcat-connectors-jk/tomcat-connectors-1.2.46-src.tar.gz</a>
  - \$ tar xvzf tomcat-connectors-1.2.46-src.tar.gz
  - \$ cd tomcat-connectors-1.2.46-src/native
  - # ./configure --with-apxs=/usr/bin/apxs (뒷부분 경로는 apxs가 설치된 경로)
  - C compiler cannot create executables 에러 발생 시:\$ sudo yum install gcc
  - # make
  - # make install
- 2. httpd.conf 위치 확인
  - \$ sudo httpd -V | egrep "(HTTPD₩\_ROOT|SERVER₩\_CONFIG₩\_FILE)"
  - -D HTTPD\_ROOT="/etc/httpd"
  - -D SERVER CONFIG FILE="conf/httpd.conf"
- 3. httpd.conf 파일 수정
  - \$ sudo vim /etc/httpd/conf/httpd.conf
  - 파일 하단에 아래 박스의 내용 추가

#AJP13 Setting

LoadModule jk\_module /etc/httpd/modules/mod\_jk.so

JkWorkersFile /etc/httpd/conf/workers.properties

JkShmFile /var/run/mod\_jk.shm

JkLogFile /var/log/mod\_jk.log

JkLogLevel info

JkLogStampFormat "[%a %b %d %H:%M:%S %Y]"

JkMount /\* worker1

4. workers.properties 파일 수정

```
# Define 1 real worker using ajp13
worker.list=worker1
#worker.stat1.type=status
# Set properties for worker1 (ajp13)
worker.worker1.type=ajp13
worker.worker1.host=127.0.0.1
worker.worker1.port=8009
```

5. uriworkermap.properties 파일 수정

```
/*.do=worker1
/*.jsp=worker1
```

6. standalone.xml 파일 수정

\$ vim /opt/wildfly/standalone/configuration/standalone.xml

파일 내에서 특정 단어 찾는 법 : esc →:/{finding word}

<ajp-listener name="ajp" scheme="http" socket-binding="ajp"/> 한 줄 추가.

7. Apache, Wildfly 재시작 후 http://{IP주소}:80 을 통해 wildfly page가 보이는지 확인

