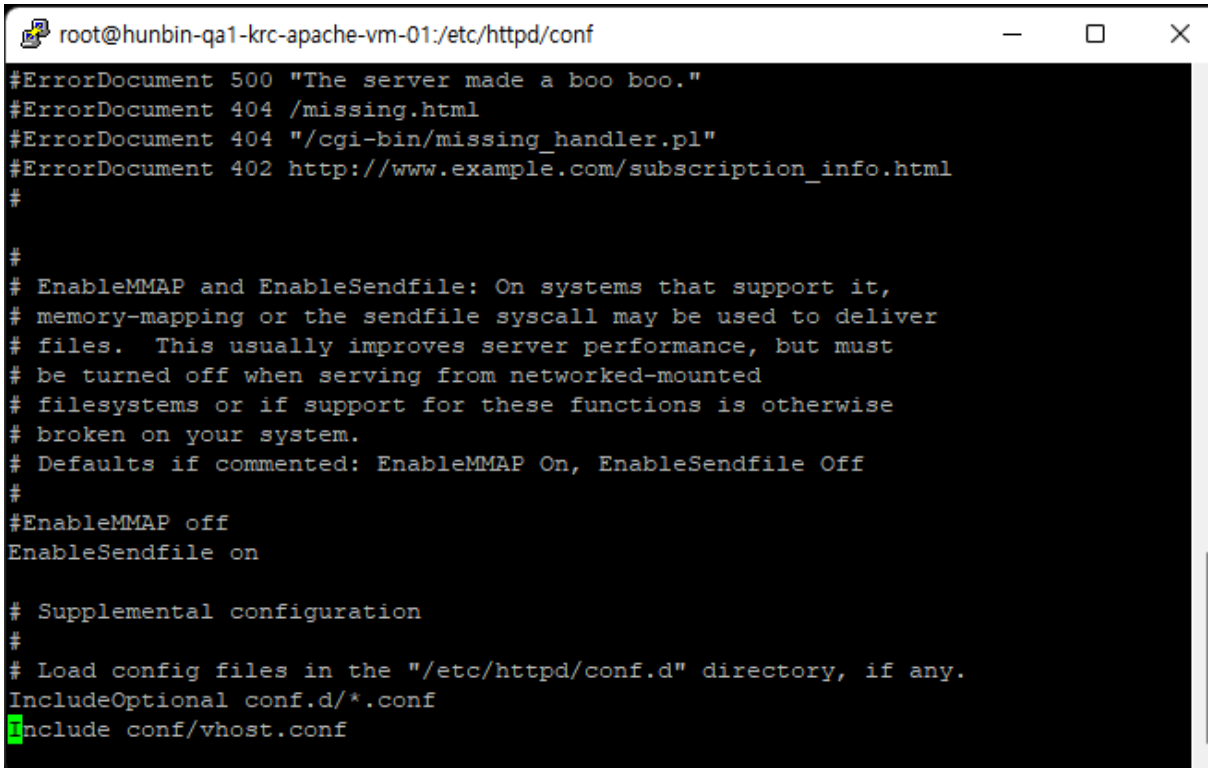
Apache BalancerMember

Apache로 WAS(Tomcat, Jboss)를 분기 시켜주는 목적

Apache 설치 후

환경설정 파일 httpd.conf 설정



Apache 환경이 VM마다 매우 다르다. binary, yum install 마다 다름

httpd.conf도 환경마다 다름

Yum install

```
Include conf/vhost.conf   #삽입
```

Binary install

```
# Virtual hosts
Include conf/extra/httpd-vhosts.conf   #주석 해제

#binary install의 경우 proxy 모듈을 주석해제 시켜야한다.
```

vhost.conf 경로

Yum install

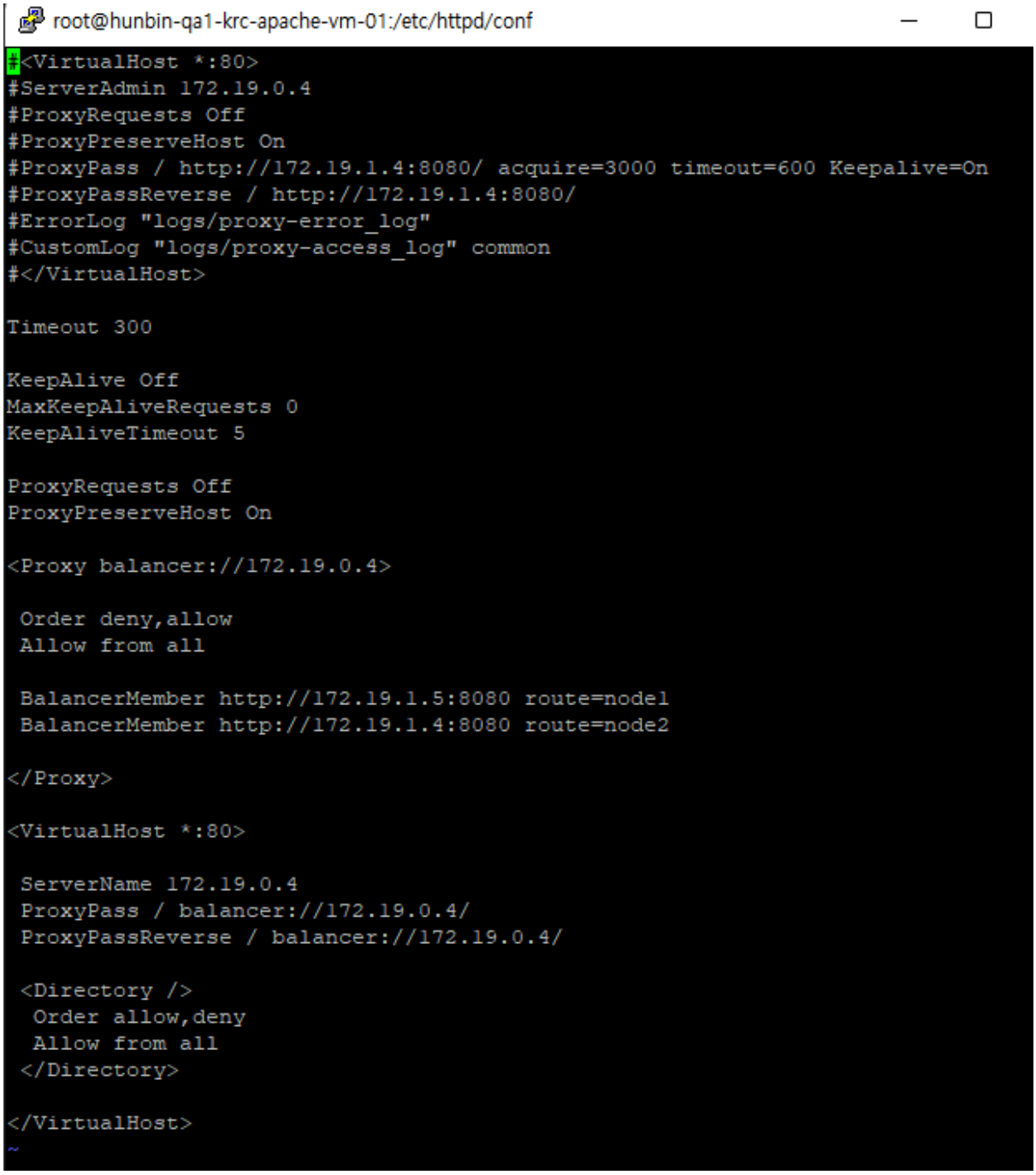
```
cd /etc/httpd/conf
vi vhost.conf       #새로 만들기
```

Binary install

```
cd /opt/apache/conf/extra
vi httpd-vhosts.conf        #vhosts.conf 파일이 생성 되어 있다
```

vhost.conf

yum install




```
Timeout 300

KeepAlive Off
MaxKeepAliveRequests 0
KeepAliveTimeout 5

ProxyRequests Off
ProxyPreserveHost On

<Proxy balancer://172.19.0.4>

 Order deny,allow
```

```
 Allow from all

 BalancerMember http://172.19.1.5:8080 route=node1
 BalancerMember http://172.19.1.4:8080 route=node2

</Proxy>

<VirtualHost *:80>

 ServerName 172.19.0.4
 ProxyPass / balancer://172.19.0.4/
 ProxyPassReverse / balancer://172.19.0.4/

 <Directory />
  Order allow,deny
  Allow from all
 </Directory>

</VirtualHost>
```

Binary install

```
# Virtual Hosts
#
# Required modules: mod_log_config

# If you want to maintain multiple domains/hostnames on your
# machine you can setup VirtualHost containers for them. Most configurations
# use only name-based virtual hosts so the server doesn't need to worry about
# IP addresses. This is indicated by the asterisks in the directives below.
#
# Please see the documentation at
# <URL:http://httpd.apache.org/docs/2.4/vhosts/>
# for further details before you try to setup virtual hosts.
#
# You may use the command line option '-S' to verify your virtual host
# configuration.

#
# VirtualHost example:
# Almost any Apache directive may go into a VirtualHost container.
# The first VirtualHost section is used for all requests that do not
# match a ServerName or ServerAlias in any <VirtualHost> block.
#
Timeout 300

KeepAlive Off
MaxKeepAliveRequests 0
KeepAliveTimeout 5

ProxyRequests Off
ProxyPreserveHost On

<Proxy balancer://192.168.56.118>

 Order deny,allow
 Allow from all

 BalancerMember http://192.168.56.118:8080 route=node1
 BalancerMember http://192.168.56.123:8080 route=node2

</Proxy>

<VirtualHost *:80>

 ServerName 192.168.56.118
 ProxyPass / balancer://192.168.56.118/
 ProxyPassReverse / balancer://192.168.56.118/

 <Directory />
  Order allow,deny
  Allow from all
 </Directory>

</VirtualHost>
~
"httpd-vhosts.conf" 53L, 1328C
```

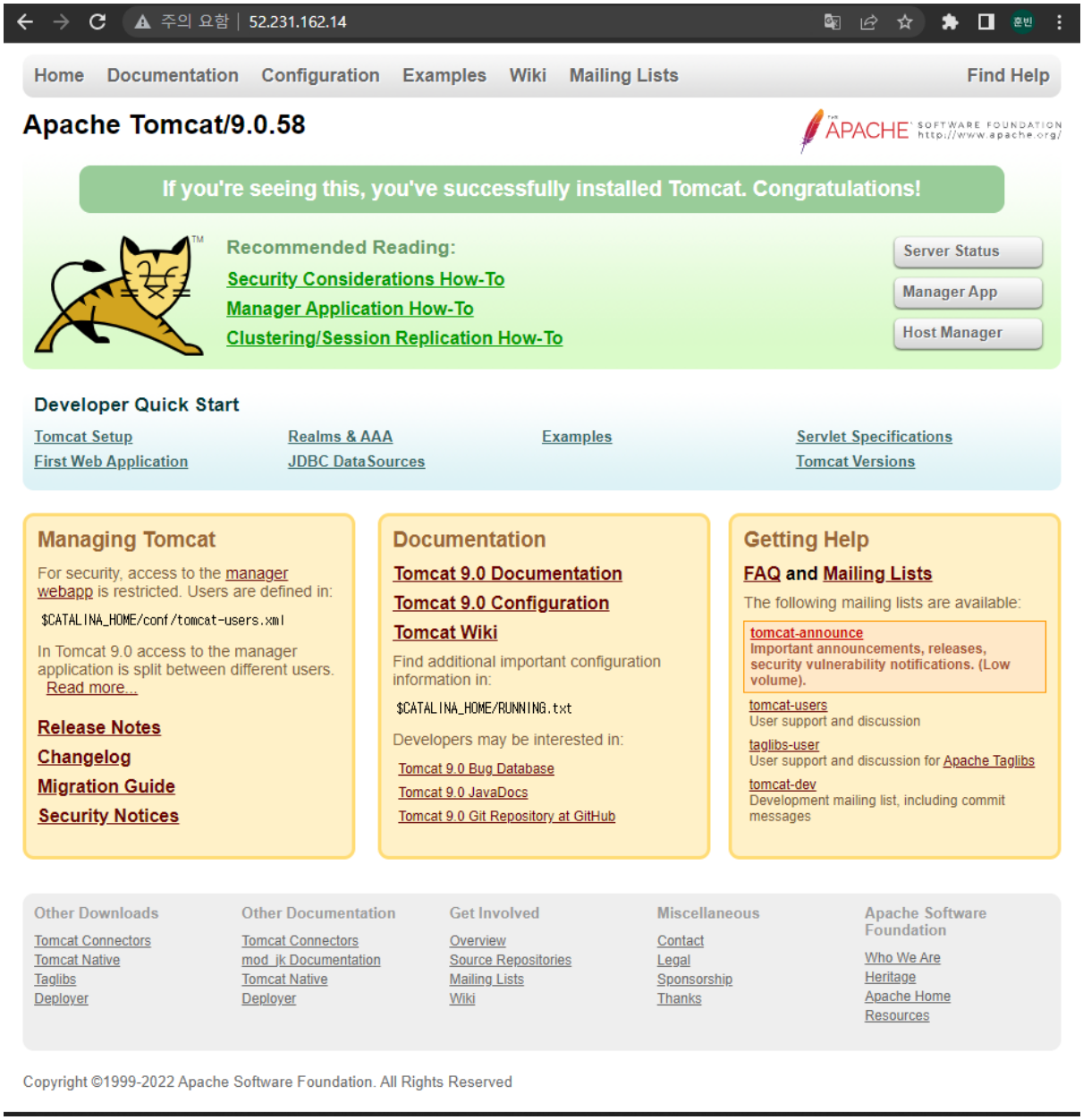
```
Timeout 300
```

```
KeepAlive Off
MaxKeepAliveRequests 0
KeepAliveTimeout 5

ProxyRequests Off
ProxyPreserveHost On

<Proxy balancer://192.168.56.118>

 Order deny,allow
 Allow from all

 BalancerMember http://192.168.56.118:8080 route=node1
 BalancerMember http://192.168.56.123:8080 route=node2

</Proxy>

<VirtualHost *:80>

 ServerName 192.168.56.118
 ProxyPass / balancer://192.168.56.118/
 ProxyPassReverse / balancer://192.168.56.118/

 <Directory />
  Order allow,deny
  Allow from all
 </Directory>

</VirtualHost>
```

Apache 재기동

```
#Yum install
systemctl restart httpd
#Binary install
cd /opt/apache/bin
./apachectl start
```

Apache IP로 접속하면



80번 포트로 Tomcat 화면이 나온다

한쪽 Tomcat이 down되더라도 Tomcat 이중화 셋팅을 해놨기에 그대로 나오는 것을 볼수 있다.

apache 1대에

BalancerMember http://192.168.56.118:8080
BalancerMember http://192.168.56.123:8080

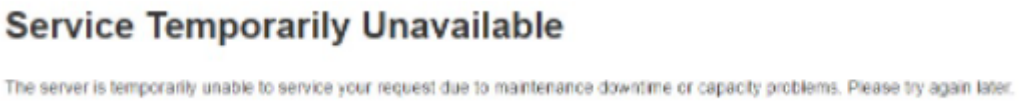
Tomcat 2대 구성하기

#Yum 설치는 Azure Cloud 환경에서 Test

#Binary 설치는 Local VM 환경에서 Test

#TroubleShooting

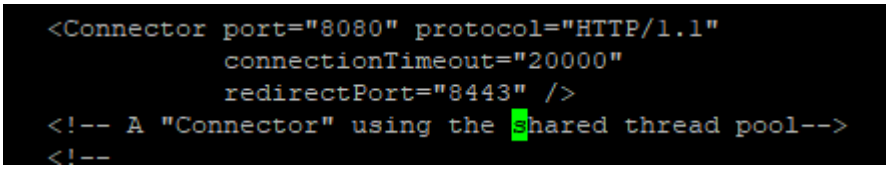
503 Error



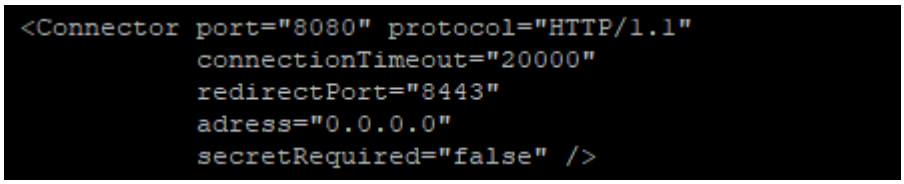
처음 연동하고 503 Error가 발생하였습니다.

Tomcat의 server.xml 파일 옵션을 수정

수정 전



수정 후




```
#수정 전
<Connector port="8080" protocol="HTTP/1.1"
               connectionTimeout="20000"
               redirectPort="8443" />
#수정 후
<Connector port="8080" protocol="HTTP/1.1"
               connectionTimeout="20000"
               redirectPort="8443"
               adress="0.0.0.0"
               secretRequired="false" />
#추가 사항
adress=”0.0.0.0”, secretRequired="false"    #삽입
```