**Apache HTTPD Configuration on RHEL 8.10**

Install Apache HTTPD using package manager   
-> sudo dnf install httpd (version should be v2.4.37)

Change the User and Group ownership of HTTPD by

nano /etc/httpd/conf/httpd.conf

Change the below mentioned variables to new variable

User apache -> jbossusr

Group apache -> jbossusr

Make the service autostart across reboots

-> sudo systemctl enable --now httpd

* Configure mod\_jk / Tomcat connector on RHEL 8.10

Switch to root user

cd ~

sudo dnf install httpd-devel gcc gcc-c++ make libtool

mkdir mod\_jk && cd mod\_jk

wget <https://dlcdn.apache.org/tomcat/tomcat-connectors/jk/tomcat-connectors-1.2.50-src.tar.gz>

tar -xvf tomcat-connectors-1.2.50-src.tar.gz && cd tomcat-connectors-1.2.50-src/native

./configure --with-apxs=/usr/sbin/apxs or ./configure --with-apxs=/bin/apxs

make [if error occurs execute below command]

sudo dnf install redhat-rpm-config

libtool --finish /usr/lib64/httpd/modules

make install

cp /root/mod\_jk/tomcat-connectors-1.2.50-src/native/apache-2.0/mod\_jk.so /etc/httpd/modules/

* Configure other required packages

LoadModule jk\_module modules/mod\_jk.so

JkWorkersFile conf/workers.properties

JkLogFile logs/mod\_jk.log

JkLogLevel info

JkMount /\* balancer

#JkMount /status stat

RewriteEngine On

RewriteCond %{REQUEST\_METHOD} ^(TRACE|TRACK)

RewriteRule .\* - [F]

TraceEnable Off

FileETag none

<Location /server-status>

SetHandler server-status

Order deny,allow

Deny from all

Allow from 127.0.0.1 202.87.54.7

</Location>

Header set X-XSS-Protection "1; mode=block"

LoadModule headers\_module modules/mod\_headers.so

LoadModule ssl\_module modules/mod\_ssl.so

LoadModule headers\_module modules/mod\_headers.so

<IfModule mod\_headers.c>

Header set Cache-Control "no-store, no-cache, must-revalidate, max-age=0"

Header append Cache-Control "post-check=0, pre-check=0"

Header set Pragma "no-cache"

</IfModule>

# Include instana tracing module config

#Include /etc/httpd/conf/instana\_tracing.conf

#<IfModule ssl\_module>

#SSLRandomSeed startup builtin

#SSLRandomSeed connect builtin

#</IfModule>

ServerSignature Off

ServerTokens Prod

Header unset Server

#SecServerSignature "Custom"

#<IfModule security2\_module>

# SecRuleEngine On

# SecRequestBodyAccess On

# SecResponseBodyAccess Off

# SecResponseBodyMimeType text/plain text/html text/xml

# SecResponseBodyLimit 524288

# SecRequestBodyLimit 13107200

# SecRequestBodyNoFilesLimit 131072

# SecRequestBodyInMemoryLimit 131072

# #SecRule REMOTE\_ADDR "^127\.0\.0\.1$" phase:1,nolog,allow,ctl:ruleEngine=Off

# Include conf.d/mod\_security.conf

#</IfModule>

<IfModule mod\_header.c>

Header unser Server

Header ser Server "Custom"

</IfModule>

Remember to change SELinux status to either permissive or disabled state by

sudo nano /etc/selinux/config

Reboot now

Configuring AJP on tomcat

Edit the server.xml file on conf/server.xml

<Connector protocol="AJP/1.3"

maxThreads="300"

address="0.0.0.0"

port="8009"

redirectPort="8443" secretRequired="false"/>

<Engine name="Catalina" defaultHost="localhost" jvmRoute="tomcat1">

Configuring HTTPS on Apache HTTPD

sudo dnf install mod\_ssl

sudo nano /etc/httpd/conf.d/ssl.conf

Listen 8444

<VirtualHost \_default\_:8444>

JkMount /\* glosuat\_balancer

ErrorLog logs/ssl\_error\_log

TransferLog logs/ssl\_access\_log

LogLevel warn

SSLEngine on

SSLCertificateFile /etc/pki/tls/certs/server.crt

SSLCertificateKeyFile /etc/pki/tls/private/server.key

</VirtualHost>

For mod\_security

sudo dnf install mod\_security