**EFS**

**Server Configuration**

**Apache WebServer**

**Installation Path**

*/forms/apache24*

**Load Modules in** */forms/apache24/conf/httpd.conf*

*LoadModule ssl\_module modules/mod\_ssl.so*

*LoadModule proxy\_module modules/mod\_proxy.so*

*LoadModule jk\_module modules/mod\_jk.so*

**SelfSigned Certificates location**

*/forms/apache24/ssl*

**Configure SSL Virtual Hosts with SSL and JK configuration**

*File: /forms/apache24/conf/extra/httpd-ssl.conf*

**PROD**

*<VirtualHost \_default\_:443>*

*ErrorLog "/forms/logs/error\_log"*

*TransferLog "/forms/logs/access\_log"*

*SSLEngine on*

*SSLCertificateFile "/forms/apache24/ssl/prodefs.crt"*

*SSLCertificateKeyFile "/forms/apache24/ssl/prodefs.key"*

*JkMount /efs-prod01/\* tomcat-load-balancer*

*</VirtualHost>*

Configure workers.properties for tomcat loadbalancing

*Location: /forms/apache24/conf/workers.properties*

*worker.list=tomcat-load-balancer*

*worker.tomcat1.port=18009*

*worker.tomcat1.host=100.95.21.16*

*worker.tomcat1.type=ajp13*

*worker.tomcat1.lbfactor=5*

*worker.tomcat1.socket\_keepalive=true*

*worker.tomcat1.connect\_timeout=600*

*worker.tomcat1.ping\_mode=C*

*worker.tomcat1.ping\_timeout=10000*

*worker.tomcat1.connection\_ping\_interval=1*

*worker.tomcat2.port=18009*

*worker.tomcat2.host=100.95.21.17*

*worker.tomcat2.type=ajp13*

*worker.tomcat2.lbfactor=5*

*worker.tomcat2.socket\_keepalive=true*

*worker.tomcat2.connect\_timeout=600*

*worker.tomcat2.ping\_mode=C*

*worker.tomcat2.ping\_timeout=10000*

*worker.tomcat2.connection\_ping\_interval=1*

*worker.tomcat-load-balancer.type=lb*

*worker.tomcat-load-balancer.balance\_workers=tomcat1,tomcat2*

*worker.tomcat-load-balancer.sticky\_session=True*

*# Load balancing method can be [R]equest, [S]ession, [T]raffic, or [B]usiness*

*worker.tomcat-load-balancer.method=R*

Enter the below line in /forms/apache24/conf/httpd.conf

JkWorkersFile /forms/apache24/conf/workers.properties

**Apache Tomcat Application Server**

**Installation Location**

*/forms/tomcat8*

**JNDI entries**

**Server.xml**

*<GlobalNamingResources>*

*<Environment name="active.env" value="****prod****" type="java.lang.String" override="false"/>*

*</GlobalNamingResources>*

**Web.xml**

*<resource-env-ref>*

*<resource-env-ref-name>efsActiveEnv</resource-env-ref-name>*

*<resource-env-ref-type>java.lang.String</resource-env-ref-type>*

*</resource-env-ref>*

**Content.xml**

*<ResourceLink name="efsActiveEnv" global="active.env" type="java.lang.String"/>*

**Modify default ports**

Change default AJP and redirectPort for AJP connector also update connection and keepalive Timeout options.

**File: Server.xml**

<Connector port="**18009**" protocol="AJP/1.3" **connectionTimeout="30000" keepAliveTimeout="10000"** redirectPort="**18443**" />

**Change HTTP and HTTPS ports**

<Connector port="**18080**" protocol="HTTP/1.1"

connectionTimeout="20000"

redirectPort="**18443**" />

**Enable jvmRoute for loadbalancing via AJP**

<Engine name="Catalina" defaultHost="localhost" **jvmRoute="jvm1">**

**Updating CSE Online property files**

*Path: /usr/WebSphere/AppServer\_85/profiles/AppServer/config/cseProperties*

**Update ENV.CSEArchitecture.properties** with the below lines

##################################################################

# EFS Web-Service REST API Configuration Properties #

##################################################################

# These properties define the files to use for form and form set definitions.

# Separate file names with commas.

form-set-definitions-files=FormSetDefinitions.xml

form-definitions-files=FormDefinitions.xml

#EFS Form Set Definition Url

efs.formsetdefinition.url=https://100.95.20.60/efs-prod01/efs/getFormSetDefinitions

#EFS Form Definition Url

efs.formdefinition.url=https://100.95.20.60/efs-prod01/efs/getFormDefinitions

#Source of form configuration cache source - CSE or EFS (For CSE value is cse, for EFS value is efs)

form.config.cache.source=efs

***File: PROD01.PrintingArchitecture.properties***

#properties for efiling document max size

forms.efileprinting.maxdocumentsizebytes=10000000

**Update SelfService property file**

##################################################################

# EFS Web-Service REST API Configuration Properties #

##################################################################

# These properties define the files to use for form and form set definitions.

# Separate file names with commas.

form-set-definitions-files=FormSetDefinitions.xml

form-definitions-files=FormDefinitions.xml

#EFS Form Set Definition Url

efs.formsetdefinition.url=https://100.95.20.60/efs-prod01/efs/getFormSetDefinitions

#EFS Form Definition Url

efs.formdefinition.url=https://100.95.20.60/efs-prod01/efs/getFormDefinitions

#Source of form configuration cache source - CSE or EFS (For CSE value is cse, for EFS value is efs)

form.config.cache.source=cse

**Import EFS certs on all CSE Online and SelfService appservers**

Online: ch1p26a cg1p26a cg1p28a cg1p29a ch1p27a cg1p34a cg1p35a ch1p32a

SelfService: cg1p32a ch1p28a

Run the below commands as wasadmin

**Take a back up copy of cacerts file before importing any certs**

*#cp -p /usr/WebSphere/AppServer\_85/java\_1.7.1\_32/jre/lib/security/cacerts /usr/WebSphere/AppServer\_85/java\_1.7.1\_32/jre/lib/security/cacerts-<date>*

**Import certs to java cacerts**

*/usr/WebSphere/AppServer\_85/java\_1.7.1\_32/jre/bin/keytool -import -file /tmp/prodefs.crt -keystore /usr/WebSphere/AppServer\_85/java\_1.7.1\_32/jre/lib/security/cacerts -storepass changeit -alias prodefs*