Configure Load Balancing in 2017x

1. Copy the 3DSpace tomcat folder from E:\DassaultSystemes\R2017x\3DSpace\win\_b64\code\tomcat\current (Server1)to E:\DassaultSystemes\R2017x\3DSpace\win\_b64\code\tomcat\current2 (Server2)
2. Modify server.xml of copied tomcat (Server2) as follows
   1. Change server port: <Server port="**9020**" shutdown="SHUTDOWN">
   2. Change the connector port: <Connector port="**9095**" protocol="HTTP/1.1"
   3. Change AJP connector port: <Connector port="**9021**" protocol="AJP/1.3" redirectPort="8443"/>
3. Enable jvmRoute in both Server1 and Server2
   1. Server1: <Engine name="Catalina" defaultHost="localhost" jvmRoute="jvm1">
   2. Server2: <Engine name="Catalina" defaultHost="localhost" jvmRoute="jvm2">
4. Modify httpd.conf file of Apache Haus (C:\Apache24\conf)
   1. Load following modules
      1. LoadModule proxy\_module modules/mod\_proxy.so
      2. LoadModule proxy\_balancer\_module modules/mod\_proxy\_balancer.so
      3. LoadModule proxy\_connect\_module modules/mod\_proxy\_connect.so
      4. LoadModule proxy\_http\_module modules/mod\_proxy\_http.so
      5. LoadModule headers\_module modules/mod\_headers.so
      6. LoadModule authz\_host\_module modules/mod\_authz\_host.so
      7. LoadModule access\_compat\_module modules/mod\_access\_compat.so
      8. LoadModule slotmem\_shm\_module modules/mod\_slotmem\_shm.so
      9. LoadModule lbmethod\_byrequests\_module modules/mod\_lbmethod\_byrequests.so
      10. LoadModule reqtimeout\_module modules/mod\_reqtimeout.so
5. Modify **3DSpace\_httpd\_fragment.conf** file and add following: (path: E:\DassaultSystemes\R2017x\3DSpace\win\_b64\templates)

Header add Set-Cookie "ROUTEID=.%{BALANCER\_WORKER\_ROUTE}e; path=/" env=BALANCER\_ROUTE\_CHANGED

<Proxy balancer://mycluster>

BalancerMember http://guru-win7vm.prorigo.com:9090/3dspace loadfactor=1 route=jvm1

BalancerMember http://guru-win7vm.prorigo.com:9095/3dspace loadfactor=1 route=jvm2

ProxySet stickysession=ROUTEID

</Proxy>

ProxyPass /3dspace balancer://mycluster

ProxyPassReverse /3dspace balancer://mycluster

* 1. Comment out existing 3dspace Propxy Pass

#ProxyPass /3dspace http://<MachineFQDN>:9090/3dspace

#ProxyPassReverse /3dspace http://<Machine FQDN>:9090/3dspace

1. Copy attached bat files CreateTomcatService2.bat and register\_service.bat to a single folder.



1. In CreateTomcatService2.bat, modify following:
   1. Provide Server2 tomcat directory name: if "%CAS%"=="true" set dirname=**current2**
   2. Set JAVA\_HOME to machines jre path
   3. Modify the service name: if "%CAS%"=="true" set PR\_DISPLAYNAME=3DEXPERIENCE %version% **3DSpace4 TomEE (**Service name should be different than Server1’s service name**)**
   4. Modify the service name : if "%CAS%"=="true" set PR\_DESCRIPTION=3DEXPERIENCE %version% **3DSpace4 TomEE**
2. In register\_service.bat, modify following:
   1. Set server parameter to the 3DSpace installation directory. (e.g. set server=E:\DassaultSystemes\R2017x\3DSpace)
   2. Set serviceNameTomEE variable to new service name. e.g. set serviceNameTomEE=3DSpaceTomEE4
3. Execute the register\_service.bat as a Administrator and verify that newly created service is running.
4. Restart Apache24 service.