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Tomcat 9 버전용 conf/server.xml

Clustering 기동 환경

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
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  limitations under the License.
-->
<!-- Note:  A "Server" is not itself a "Container", so you may not
     define subcomponents such as "Valves" at this level.
     Documentation at /docs/config/server.html
 -->
<Server address="${tomcat.address.management}"
port="${tomcat.port.management}" shutdown="SHUTDOWN">
  <Listener className="org.apache.catalina.startup.VersionLoggerListener" />
  <!-- Security listener. Documentation at /docs/config/listeners.html
  <Listener className="org.apache.catalina.security.SecurityListener" />
  -->
  <!-- APR connector and OpenSSL support using Tomcat Native -->
  <Listener className="org.apache.catalina.core.AprLifecycleListener" />
  <!-- OpenSSL support using FFM API from Java 22 -->
  <!-- <Listener
className="org.apache.catalina.core.OpenSSLLifecycleListener" /> -->
  <!-- Prevent memory leaks due to use of particular java/javax APIs-->
  <Listener
className="org.apache.catalina.core.JreMemoryLeakPreventionListener" />
  <Listener
className="org.apache.catalina.mbeans.GlobalResourcesLifecycleListener" />
  <Listener
className="org.apache.catalina.core.ThreadLocalLeakPreventionListener" />

  <!-- Global JNDI resources
       Documentation at /docs/jndi-resources-howto.html
```

```
  -->
  <GlobalNamingResources>
    <!-- Editable user database that can also be used by
         UserDatabaseRealm to authenticate users
    -->
    <Resource name="UserDatabase" auth="Container"
              type="org.apache.catalina.UserDatabase"
              description="User database that can be updated and saved"
              factory="org.apache.catalina.users.MemoryUserDatabaseFactory"
              pathname="conf/tomcat-users.xml" />
  </GlobalNamingResources>

  <!-- A "Service" is a collection of one or more "Connectors" that share
       a single "Container" Note:  A "Service" is not itself a "Container",
       so you may not define subcomponents such as "Valves" at this level.
       Documentation at /docs/config/service.html
   -->
  <Service name="Catalina">

    <!--The connectors can use a shared executor, you can define one or more
named thread pools-->
    <!--
    <Executor name="tomcatThreadPool" namePrefix="catalina-exec-"
        maxThreads="150" minSpareThreads="4"/>
    -->


    <!-- A "Connector" represents an endpoint by which requests are received
         and responses are returned. Documentation at :
         Java HTTP Connector: /docs/config/http.html
         Java AJP  Connector: /docs/config/ajp.html
         APR (HTTP/AJP) Connector: /docs/apr.html
         Define a non-SSL/TLS HTTP/1.1 Connector on port 8080
    -->
    <Connector address="${tomcat.address.http}" port="${tomcat.port.http}"
protocol="HTTP/1.1"
               connectionTimeout="20000"
               allowTrace="false"
               maxPostSize="${tomcat.connector.maxPostSize}"
               maxThreads="${tomcat.connector.maxThreads}"
               maxParameterCount="1000"
               redirectPort="${tomcat.port.https}"
               URIEncoding="${tomcat.connector.URIEncoding}"
          useBodyEncodingForURI="true"
          />
    <!-- A "Connector" using the shared thread pool-->
    <!--
    <Connector executor="tomcatThreadPool"
               port="8080" protocol="HTTP/1.1"
               connectionTimeout="20000"
               redirectPort="8443"
```

```
               maxParameterCount="1000"
               />
    -->
    <!-- Define an SSL/TLS HTTP/1.1 Connector on port 8443
         This connector uses the NIO implementation. The default
         SSLImplementation will depend on the presence of the APR/native
         library and the useOpenSSL attribute of the AprLifecycleListener.
         Either JSSE or OpenSSL style configuration may be used regardless
of
         the SSLImplementation selected. JSSE style configuration is used
below.
    -->
    <!--
    <Connector port="8443"
protocol="org.apache.coyote.http11.Http11NioProtocol"
               maxThreads="150" SSLEnabled="true"
               maxParameterCount="1000"
               >
        <SSLHostConfig>
            <Certificate certificateKeystoreFile="conf/localhost-rsa.jks"
                         certificateKeystorePassword="changeit" type="RSA"
/>
        </SSLHostConfig>
    </Connector>
    -->
    <!-- Define an SSL/TLS HTTP/1.1 Connector on port 8443 with HTTP/2
         This connector uses the APR/native implementation which always uses
         OpenSSL for TLS.
         Either JSSE or OpenSSL style configuration may be used. OpenSSL
style
         configuration is used below.
    -->
    <!--
    <Connector port="8443"
protocol="org.apache.coyote.http11.Http11AprProtocol"
               maxThreads="150" SSLEnabled="true"
               maxParameterCount="1000"
               >
        <UpgradeProtocol className="org.apache.coyote.http2.Http2Protocol"
/>
        <SSLHostConfig>
            <Certificate certificateKeyFile="conf/localhost-rsa-key.pem"
                         certificateFile="conf/localhost-rsa-cert.pem"
                         certificateChainFile="conf/localhost-rsa-chain.pem"
                         type="RSA" />
        </SSLHostConfig>
    </Connector>
    -->

    <!-- Define an AJP 1.3 Connector on port 8009 -->
    <!--
```

```
    <Connector protocol="AJP/1.3"
               address="::1"
               port="8009"
               redirectPort="8443"
               maxParameterCount="1000"
               />
    -->
    <Connector address="${tomcat.address.ajp}" port="${tomcat.port.ajp}"
protocol="AJP/1.3"
               allowTrace="false"
               maxPostSize="${tomcat.connector.maxPostSize}"
               maxThreads="${tomcat.connector.maxThreads}"
               maxParameterCount="1000"
               redirectPort="${tomcat.port.https}"
               URIEncoding="${tomcat.connector.URIEncoding}"
               secretRequired="false"
          useBodyEncodingForURI="true"
          />

    <!-- An Engine represents the entry point (within Catalina) that
processes
         every request.  The Engine implementation for Tomcat stand alone
         analyzes the HTTP headers included with the request, and passes
them
         on to the appropriate Host (virtual host).
         Documentation at /docs/config/engine.html -->

    <!-- You should set jvmRoute to support load-balancing via AJP ie :
    <Engine name="Catalina" defaultHost="localhost" jvmRoute="jvm1">
    -->
    <Engine name="Catalina" defaultHost="localhost"
jvmRoute="${tomcat.engine.jvmRoute}">

      <!--For clustering, please take a look at documentation at:
          /docs/cluster-howto.html  (simple how to)
          /docs/config/cluster.html (reference documentation) -->
      <!--
      <Cluster className="org.apache.catalina.ha.tcp.SimpleTcpCluster"/>
      -->
      <Cluster className="org.apache.catalina.ha.tcp.SimpleTcpCluster"
               channelSendOptions="6">

        <Manager className="org.apache.catalina.ha.session.DeltaManager"
                 expireSessionsOnShutdown="false"
                 notifyListenersOnReplication="true"/>

        <Channel className="org.apache.catalina.tribes.group.GroupChannel">
          <!-- multicast membership -->
          <!--
      <Membership
className="org.apache.catalina.tribes.membership.McastService"
```

```
                      address="${tomcat.cluster.member.address}"
                      port="${tomcat.cluster.member.port}"
                      frequency="500"
              dropTime="3000"
              />
          -->
          <Membership
className="org.apache.catalina.tribes.membership.StaticMembershipService">
            <Member
className="org.apache.catalina.tribes.membership.StaticMember"
                    port="5011"
                    host="10.33.0.51"
                    uniqueId="{1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,1}"/>
            <Member
className="org.apache.catalina.tribes.membership.StaticMember"
                    port="5011"
                    host="10.33.0.52"
                    uniqueId="{1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,2}"/>
          </Membership>

      <Receiver
className="org.apache.catalina.tribes.transport.nio.NioReceiver"
            address="${tomcat.cluster.receiver.address}"
            port="${tomcat.cluster.receiver.port}"
                    autoBind="100"
            selectorTimeout="5000"
            maxThreads="6"
            />

          <Sender
className="org.apache.catalina.tribes.transport.ReplicationTransmitter">
            <Transport
className="org.apache.catalina.tribes.transport.nio.PooledParallelSender"/>
          </Sender>

          <!-- if use StaticMembership enable TcpPingInterceptor -->
          <Interceptor
className="org.apache.catalina.tribes.group.interceptors.TcpPingInterceptor"
/>
          <Interceptor
className="org.apache.catalina.tribes.group.interceptors.TcpFailureDetector"
/>
          <Interceptor
className="org.apache.catalina.tribes.group.interceptors.MessageDispatchInte
rceptor"/>
        </Channel>

        <Valve className="org.apache.catalina.ha.tcp.ReplicationValve"
filter=".*\.gif|.*\.js|.*\.jpeg|.*\.jpg|.*\.png|.*\.htm|.*\.html|.*\.css|.*\
.txt"/>
        <Valve
```

```
className="org.apache.catalina.ha.session.JvmRouteBinderValve"/>

        <!-- war 자동 배포기능은 가급적 사용하지 않도록 한다. -->
        <!--
        <Deployer className="org.apache.catalina.ha.deploy.FarmWarDeployer"
                  tempDir="/tmp/war-temp/"
                  deployDir="/tmp/war-deploy/"
                  watchDir="/tmp/war-listen/"
                  watchEnabled="false"/>
        -->

        <ClusterListener
className="org.apache.catalina.ha.session.ClusterSessionListener"/>
      </Cluster>

      <!-- Use the LockOutRealm to prevent attempts to guess user passwords
           via a brute-force attack -->
      <Realm className="org.apache.catalina.realm.LockOutRealm">
        <!-- This Realm uses the UserDatabase configured in the global JNDI
             resources under the key "UserDatabase".  Any edits
             that are performed against this UserDatabase are immediately
             available for use by the Realm.  -->
        <Realm className="org.apache.catalina.realm.UserDatabaseRealm"
               resourceName="UserDatabase"/>
      </Realm>

      <Host name="localhost" unpackWARs="true" autoDeploy="false"
createDirs="true"
            appBase="${tomcat.engine.localhost.appBase}"
            workDir="${tomcat.engine.localhost.workDir}">

        <!-- SingleSignOn valve, share authentication between web
applications
             Documentation at: /docs/config/valve.html -->
        <!--
        <Valve className="org.apache.catalina.authenticator.SingleSignOn" />
        -->

        <!-- Access log processes all example.
             Documentation at: /docs/config/valve.html
             Note: The pattern used is equivalent to using pattern="common"
-->
        <Valve className="org.apache.catalina.valves.AccessLogValve"
directory="logs"
               prefix="localhost_access_log" suffix=".txt"
               pattern="%h %l %u %t &amp;quot;%r&amp;quot; %s %b" />

      </Host>
    </Engine>
  </Service>
</Server>
```

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