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```
<?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"
        server="${tomcat.connector.server}"
        maxPostSize="${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"
    />

-->
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    <!-- 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"

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        redirectPort="8443"
        maxParameterCount="1000"
    />
-->
<Connector address="${tomcat.address.ajp}" port="${tomcat.port.ajp}"
protocol="AJP/1.3"
    allowTrace="false"
    server="${tomcat.connector.server}"
    maxPostSize="${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">
<Membership
className="org.apache.catalina.tribes.membership.McastService"
    address="${tomcat.cluster.member.address}"
    port="${tomcat.cluster.member.port}"
    frequency="500"
```

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        dropTime="3000"
      />
    <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>
    <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="" />
    <Valve
className="org.apache.catalina.ha.session.JvmRouteBinderValve"/>

    <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="true"
```

```
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 &quot;%r&quot; %s %b" />

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

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