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Tomcat Clustering

— 2020/12/08 17:19



Tomcat 8.x
Tomcat 7.x

Tomcat Clustering

<https://tomcat.apache.org/tomcat-9.0-doc/cluster-howto.html>

- web.xml `<distributable/>`
- Session attributes `java.io.Serializable`
`sessionAttributeFilter`
- DeltaManager
`org.apache.catalina.ha.session.ClusterSessionListener`가

```
<Cluster className="org.apache.catalina.ha.tcp.SimpleTcpCluster"/>
```

가

DeltaManager

DeltaManager

4
Tomcat

BackupManager

BackupManager

4

DeltaManager BackupManager

가

- 228.0.0.4
- 45564 ()
- IP `java.net.InetAddress.getLocalHost().getHostAddress()`
 (127.0.0.1)
- TCP 4000-4100 가

- ClusterSessionListener .
- TcpFailureDetector MessageDispatchInterceptor 가 .

TCP StaticMembership

Multicast가 .

IGMP가 Multicast TCP .

Static Cluster Membership .

1. McastService Membership .
2. TCPPingInterceptor
3. StaticMembershipInterceptor

TCP StaticMember .

```
<!-- channelSendOptions 6: 8: -->
<Cluster className="org.apache.catalina.ha.tcp.SimpleTcpCluster"
        channelSendOptions="6" channelStartOptions="3">

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

    <!-- Backup Manager
    <Manager className="org.apache.catalina.ha.session.BackupManager"
            expireSessionsOnShutdown="false"
            notifyListenersOnReplication="true"
            mapSendOptions="6"/>
    -->

    <Channel
className="org.apache.catalina.tribes.group.GroupChannel">

        <!-- Multicast Member -->
        <!--
        <Membership
className="org.apache.catalina.tribes.membership.McastService"
            address="${tomcat.cluster.member.address}"
            port="${tomcat.cluster.member.port}"
            frequency="500"
            dropTime="3000"/>
        -->

        <Receiver
className="org.apache.catalina.tribes.transport.nio.NioReceiver"
            address="${tomcat.cluster.receiver.address}"
            port="${tomcat.cluster.receiver.port}"
```

```

        selectorTimeout="100"
        maxThreads="6"/>

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

        <!--
                가                가
        ping                .
                가                가
                가                .
                TcpFailureDetector                . -->
        <Interceptor
className="org.apache.catalina.tribes.group.interceptors.TcpPingInterceptor"
/>
        <!--                가                -
->
        <Interceptor
className="org.apache.catalina.tribes.group.interceptors.TcpFailureDetector"
/>
        <Interceptor
className="org.apache.catalina.tribes.group.interceptors.MessageDispatchInte
rceptor"/>
        <Interceptor
className="org.apache.catalina.tribes.group.interceptors.ThroughputIntercept
or"/>

        <!-- StaticMember
        . -->
        <Interceptor
className="org.apache.catalina.tribes.group.interceptors.StaticMembershipInt
erceptor">
        <!--
                9.0.17                LocalMember                Member                .
https://tomcat.apache.org/tomcat-9.0-doc/config/cluster-membership.html#Sett
ing
                -->
        <LocalMember
className="org.apache.catalina.tribes.membership.StaticMember"
                domain="staging-cluster"
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="5001"
                securePort="-1"
                host="tomcat2"
                domain="staging-cluster"

```

```

        uniqueId="{1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,2}"/>
    </Interceptor>

</Channel>

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

    <!-- route          jvmRoute          .          failback
          route가          jvmRoute          failback
-->
    <Valve
className="org.apache.catalina.ha.session.JvmRouteBinderValve"/>

<!--                                     <Host

    <Deployer
className="org.apache.catalina.ha.deploy.FarmWarDeployer"
        tempDir="/tmp/war-temp/"
        deployDir="/tmp/war-deploy/"
        watchDir="/tmp/war-listen/"
        watchEnabled="false"/>
    -->

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

```

- <https://tomcat.apache.org/tomcat-9.0-doc/cluster-howto.html>
- <https://indienote.tistory.com/401>
- tomcatcluster_0.pdf

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