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Tomcat Clustering



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.ClusterSessionListener가

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

가

DeltaManager

DeltaManager

4
Tomcat

BackupManager

BackupManager

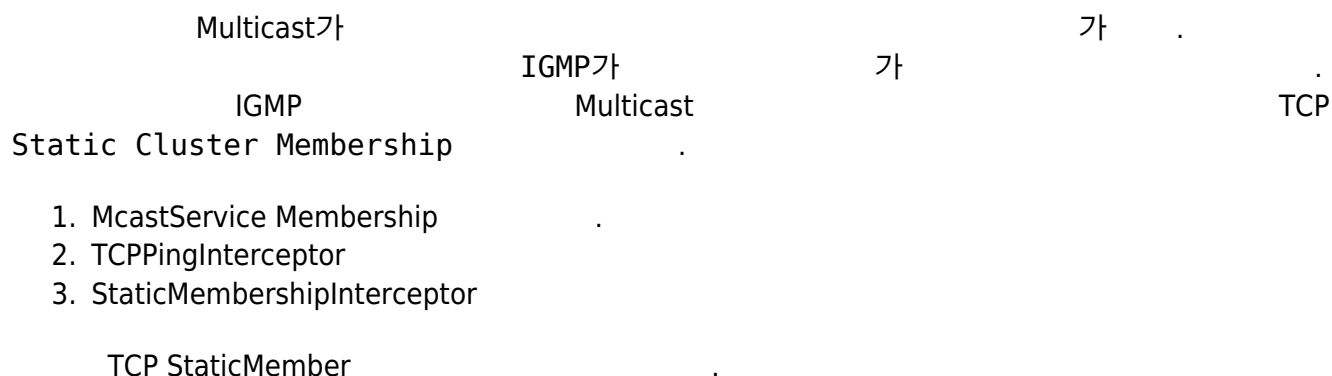
4

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



```

<!-- 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">
        <!--                -->
                <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                .
                                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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