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# Tomcat Clustering

— 2020/12/08 17:19



Tomcat 8.x  
Tomcat 7.x

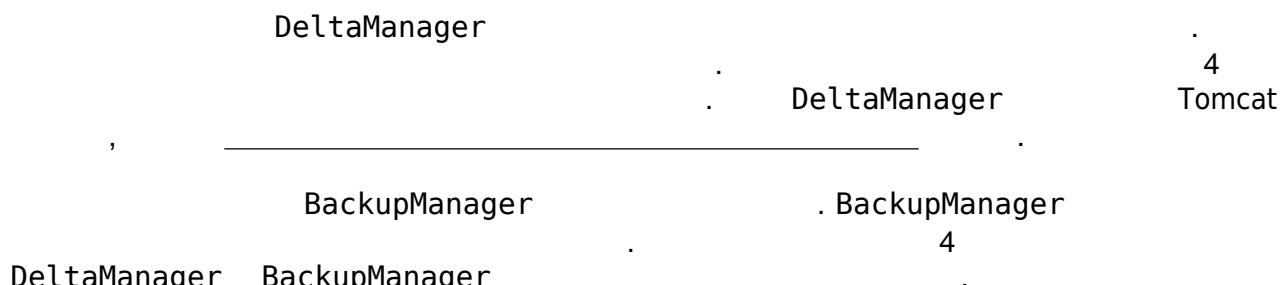
Tomcat Clustering

<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.ClusterSessionListener가
- DeltaManager 4 5  
BackupManager
- 

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

가

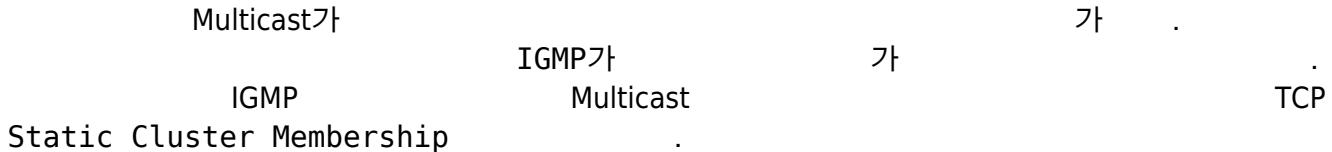


가

- 228.0.0.4

- 45564 ( )
- IP java.net.InetAddress.getLocalHost().getHostAddress() (127.0.0.1) 가
- TCP 4000-4100 가
- ClusterSessionListener
- TcpFailureDetector MessageDispatchInterceptor 가

## TCP StaticMembership



1. McastService Membership
2. TCPPingInterceptor
3. StaticMembershipInterceptor

TCP StaticMember

```

<!-- channelSendOptions 6: 8:
8:     Receiver selectorTimeout 5000(5 )
channelStartOptions      가

-->
<Cluster className="org.apache.catalina.ha.tcp.SimpleTcpCluster"
    channelSendOptions="6">

    <!-- 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}">

```



```

<!--
  <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="4000"
          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          .
      fallback
-->
  <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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