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# Tomcat Clustering

— 2020/12/08 17:19



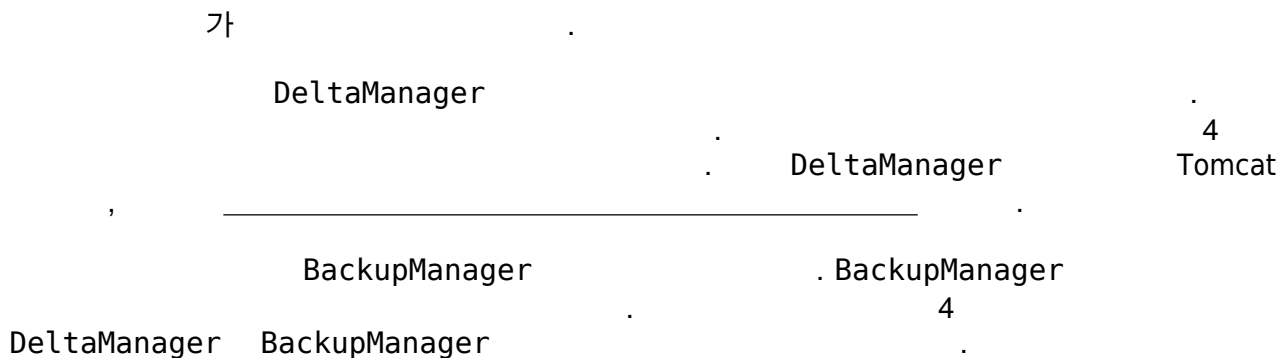
Tomcat 8.x  
Tomcat 7.x

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
- 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  
 Static Cluster Membership  
 IGMP Multicast TCP

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}"
  
```

```

        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
    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">
    <!--
        : Tomcat 9.0.17
        가
        <LocalMember>
        <Member>
    , Tomcat
        LocalMember
https://tomcat.apache.org/tomcat-9.0-doc/config/cluster-membership.html#Setting
    -->

```

```

        <!--
        <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                .                failback
                route>{                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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