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- TCP StaticMembership** 4
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Tomcat Clustering

— 2020/12/08 17:19



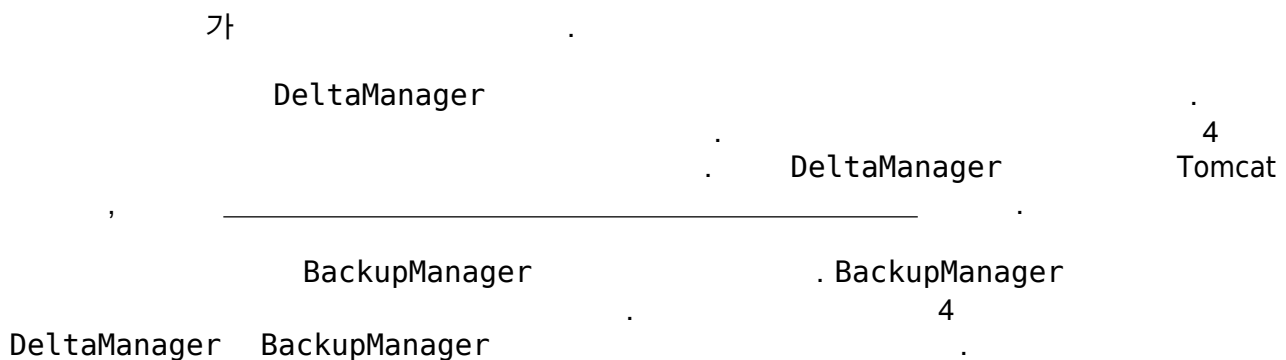
Tomcat 8.x
Tomcat 7.x

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

1. McastService Membership
2. TCPpingInterceptor
3. StaticMembershipInterceptor

TCP StaticMember

```

      <!-- channelSendOptions      6:      8:
8:      Receiver selectorTimeout 5000(5 )      -->
      <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
    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#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="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
          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

From:

<https://atl.kr/dokuwiki/> - **AllThatLinux!**

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