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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
- DeltaManager 4
BackupManager
-

```
<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 가 .
IGMP가 가 .
IGMP Multicast TCP
Static Cluster Membership .



Tomcat 9.0.17 Membership
StaticMembershipService 가 가 .
StaticMember 2가 .

StaticMembershipService ()

StaticMembershipInterceptor (9.0.17 -)

1. McastService Membership .
2. TCPPingInterceptor - StaticMember .
3. StaticMembershipInterceptor

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                <LocalMember>
            가
            .
            <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
            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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