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JBoss EAP 7 TCP clustering

요즘은 UDP multicast가 가능하더라도 데이터 통신이 차단되는 경우가 있다. 이런경우 TCP로 연결하면 해결된다. 하지만 TCP로 변경하기에 앞서 `web.xml` 내에 `<distributable/>` 설정이 제대로 되어있는지 먼저 확인부터 하도록 한다.

- 세션 클러스터링 할때 확인해야할 사항

TCPPING

- JBoss EAP 7.2.x

JBOSS-CLI 명령어를 통한 설정방법

```
# Delete previous settings
/subsystem=jgroups/channel=ee:write-attribute(name=stack,value=udp)
/subsystem=jgroups/stack=tcpping:remove
/socket-binding-group=standard-sockets/remote-destination-outbound-socket-binding=jgroups-host-b:remove
/socket-binding-group=standard-sockets/remote-destination-outbound-socket-binding=jgroups-host-a:remove

# Define the socket bindings
# 이부분에 클러스터로 묶어줄 멤버를 정의한다. port-offset에 유의하여 늘어난만큼 적용해줘야 한다. (기본값 7600)
/socket-binding-group=standard-sockets/remote-destination-outbound-socket-binding=jgroups-host-a:add(host=10.61.151.153,port=7600)
/socket-binding-group=standard-sockets/remote-destination-outbound-socket-binding=jgroups-host-b:add(host=10.61.151.154,port=7600)

batch
# Add the tcpping stack
/subsystem=jgroups/stack=tcpping:add
/subsystem=jgroups/stack=tcpping/transport=TCP:add(socket-binding=jgroups-tcp)
# 위에서 정의한 클러스터 멤버 이름을 입력한다.
/subsystem=jgroups/stack=tcpping/protocol=TCPPING:add(socket-bindings=[jgroups-host-a,jgroups-host-b])
/subsystem=jgroups/stack=tcpping/protocol=MERGE3:add
/subsystem=jgroups/stack=tcpping/protocol=FD_SOCK:add
/subsystem=jgroups/stack=tcpping/protocol=FD_ALL:add
/subsystem=jgroups/stack=tcpping/protocol=VERIFY_SUSPECT:add
/subsystem=jgroups/stack=tcpping/protocol=pbcast.NAKACK2:add
/subsystem=jgroups/stack=tcpping/protocol=UNICAST3:add
/subsystem=jgroups/stack=tcpping/protocol=pbcast.STABLE:add
/subsystem=jgroups/stack=tcpping/protocol=pbcast.GMS:add
/subsystem=jgroups/stack=tcpping/protocol=MFC:add
```

```
/subsystem=jgroups/stack=tcpping/protocol=FRAG2:add
# Set tcpping as the stack for the ee channel
/subsystem=jgroups/channel=ee:write-attribute(name=stack,value=tcpping)
run-batch
reload
```

XML 파일내의 정의 내용 JBoss EAP 7.0 버전과 7.2 버전이 약간 다르므로 공식문서를 참고바람.

```
                <stack name="tcpping">
                    <transport type="TCP" socket-binding="jgroups-tcp"/>
                    <socket-discovery-protocol type="TCPPING" socket-
bindings="jgroups-host-a jgroups-host-b"/>
                    <protocol type="MERGE3"/>
                    <protocol type="FD_SOCK"/>
                    <protocol type="FD_ALL"/>
                    <protocol type="VERIFY_SUSPECT"/>
                    <protocol type="pbcast.NAKACK2"/>
                    <protocol type="UNICAST3"/>
                    <protocol type="pbcast.STABLE"/>
                    <protocol type="pbcast.GMS"/>
                    <protocol type="MFC"/>
                    <protocol type="FRAG2"/>
                </stack>
...

        <outbound-socket-binding name="jgroups-host-a">
            <remote-destination host="10.61.151.153" port="7700"/> <!--
port-offset 에 의해 추가된 만큼 반영되어야 함 -->
        </outbound-socket-binding>
        <outbound-socket-binding name="jgroups-host-b">
            <remote-destination host="10.61.151.154" port="7700"/> <!--
port-offset 에 의해 추가된 만큼 반영되어야 함 -->
        </outbound-socket-binding>
    </socket-binding-group>
```

참조링크

- https://access.redhat.com/solutions/3021711
- https://access.redhat.com/documentation/en-us/red_hat_jboss_enterprise_application_platform/7.0/html/configuration_guide/configuring_high_availability#configure_tcpping_stack

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