

JBoss with WebSocket	3
.....	3
WebSocket	3
MOD_CLUSTER가 WEBSOCKET	3
MOD_PROXY_BALANCER가 WEBSOCKET	3
JBoss 6.4 HTTP Connector NIO	5
NIO Websocket	5
.....	5
Websocket	5

JBoss with WebSocket

Red Hat JBoss (EAP)

- 4.x
- 5.x
- 6.x
- 7.x

WebSocket

- EAP 7.0
 - [JBoss EAP \(Enterprise Application Platform\) 7](#)
- EAP 6.4.x
 - WebSocket NIO HTTP Connector
 - CDI EE6 EE7 [JBoss EAP](#)
 - 6.4.0 - § 2.1

- EAP 6.4 :
 - WebSockets EAP 6.3
 - [EAP 6.3](#)

MOD_CLUSTER가 WEBSOCKET

`mod_cluster`

MOD_PROXY_BALANCER가 WEBSOCKET

`mod_proxy_wstunnel` Apache
JBoss Web Server 3.0 Apache HTTPD

1) `httpd.conf`

```
LoadModule lbmethod_byrequests_module modules/mod_lbmethod_byrequests.so
LoadModule proxy_module modules/mod_proxy.so
LoadModule proxy_wstunnel_module modules/mod_proxy_wstunnel.so
LoadModule proxy_balancer_module modules/mod_proxy_balancer.so
```

2) \$HTTPD_HOME/conf.d/mod_proxy_wstunnel.conf .

```
<VirtualHost *:80>
ServerAdmin webmaster@localhost
ServerName localhost
ServerAlias localhost

RewriteEngine On
RewriteCond %{HTTP:Connection} upgrade [NC]
RewriteCond %{HTTP:Upgrade} websocket [NC]
RewriteRule /app(.*) ws://localhost:8080/app$1 [P,L]

ProxyPass /app http://localhost:8080/app
ProxyPassReverse /app http://localhost:8080/app

<Proxy *>
    Order deny,allow
    Allow from all
</Proxy>
</VirtualHost>
```

3) \$HTTPD_HOME/conf.d/mod_proxy_wstunnel.conf .

```
<VirtualHost *:80>
ServerAdmin webmaster@localhost
ServerName localhost
ServerAlias localhost

    <Proxy balancer://wscluster>
        BalancerMember ws://127.0.0.1:8080 route=node1
        BalancerMember ws://127.0.0.1:8180 route=node2
        ProxySet stickysession=JSESSIONID|jsessionid
    </Proxy>

    <Proxy balancer://httpcluster>
        BalancerMember http://127.0.0.1:8080 route=node1
        BalancerMember http://127.0.0.1:8180 route=node2
        ProxySet stickysession=JSESSIONID|jsessionid
    </Proxy>

RewriteEngine On
RewriteCond %{HTTP:Connection} upgrade [NC]
RewriteCond %{HTTP:Upgrade} websocket [NC]
```

```
RewriteRule /app(.*) balancer://wscluster/jboss-websocket-hello$1 [P,L]

ProxyPass /app balancer://httpcluster/app
ProxyPassReverse /app balancer://httpcluster/app
</VirtualHost>
```

JBoss 6.4 HTTP Connector NIO

JBoss CLI

```
[standalone@node11:9999 /] /subsystem=web/connector=http/:write-
attribute(name=protocol,value=org.apache.coyote.http11.Http11NioProtocol)
{
    "outcome" => "success",
    "response-headers" => {
        "operation-requires-reload" => true,
        "process-state" => "reload-required"
    }
}
[standalone@node11:9999 /] reload
```

NIO WebSocket

- https://access.redhat.com/documentation/en-US/JBoss_Enterprise_Application_Platform/6.3/html/Development_Guide/Create_a_Websocket_Application.html
- https://access.redhat.com/documentation/en-US/JBoss_Enterprise_Application_Platform/6.4/html/Development_Guide/Create_a_Websocket_Application.html
- https://access.redhat.com/documentation/en-us/red_hat_jboss_enterprise_application_platform/7.0/html/development_guide/creating_websocket_applications

- <https://access.redhat.com/solutions/47442>
- <https://access.redhat.com/solutions/1585003>
- <https://access.redhat.com/solutions/2198371>
 - jboss-websocket-hello.war_.zip

Websocket

- <https://access.redhat.com/articles/2026253>

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