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# WAS

## Tomcat

server.xml connector false가 server 가 xpoweredBy="false" 가

```
<Connector port="8080" protocol="HTTP/1.1"
  connectionTimeout="20000"
  redirectPort="8443"
  server="bar"
  xpoweredBy="false"
/>
```

가 X-Powered-By 가 web.xml

 tomcat 6 가

```
<init-param>
  <param-name>xpoweredBy</param-name>
  <param-value>>false</param-value>
</init-param>
```

## JBoss EAP 6.x

- SERVER

SERVER org.apache.coyote.http11.Http11Protocol.SERVER Property 가

```
org.apache.coyote.http11.Http11Protocol.SERVER="foo"
```

```
<system-properties>  
  <property name="org.apache.coyote.http11.Http11Protocol.SERVER"  
value="foo"/>  
</system-properties>
```

- X-PoweredBy

X-PoweredBy JBoss

```
/subsystem=web/configuration=jsp-configuration/:write-attribute(name=x-  
powered-by,value=false)  
{  
  "outcome" => "success",  
  "response-headers" => {  
    "operation-requires-reload" => true,  
    "process-state" => "reload-required"  
  }  
}
```

가

```
<subsystem xmlns="urn:jboss:domain:web:1.1" default-virtual-server="default-  
host" native="false">  
  <configuration>  
    <jsp-configuration x-powered-by="false"/>  
  </configuration>  
  ...  
  ...  
</subsystem>
```

## JBoss EAP 7.x

- Server: JBoss-EAP/7 X-Powered-By: Undertow/1

CLI

```

/subsystem=undertow/server=default-server/host=default-host/filter-ref=x-
powered-by-header:remove
/subsystem=undertow/server=default-server/host=default-host/filter-
ref=server-header:remove

```

CLI

```

/subsystem=undertow/configuration=filter/response-header=server-
header:write-attribute(name=header-value,value=foo)
/subsystem=undertow/configuration=filter/response-header=x-powered-by-
header:write-attribute(name=header-value,value=bar)

```

- X-Powered-By: JSP/2.3

CLI

```

/subsystem=undertow/servlet-container=default/setting=jsp:write-
attribute(name=x-powered-by,value=false)

```

- <https://access.redhat.com/solutions/21075>
- <https://tomcat.apache.org/tomcat-8.0-doc/security-howto.html#Connectors>
- <https://access.redhat.com/solutions/2740891>

## Directory Listing

### Tomcat

- <https://tomcat.apache.org/tomcat-9.0-doc/default-servlet.html>

Tomcat 9			.	web.xml
	listings	false	.	

```

<servlet>
  <servlet-name>default</servlet-name>
  <servlet-class>
    org.apache.catalina.servlets.DefaultServlet
  </servlet-class>
  <init-param>
    <param-name>debug</param-name>
    <param-value>0</param-value>

```

```
</init-param>
<init-param>
  <param-name>listings</param-name>
  <param-value>>false</param-value>
</init-param>
<load-on-startup>1</load-on-startup>
</servlet>
```

## HTTP Method Limit

HTTP Method

### Tomcat

[web.xml](#)

```
<security-constraint>
  <web-resource-collection>
    <web-resource-name>Protected Context</web-resource-name>
    <url-pattern>/*</url-pattern>
    <http-method>PUT</http-method>
    <http-method>DELETE</http-method>
    <http-method>HEAD</http-method>
    <http-method>TRACE</http-method>
    <http-method>OPTIONS</http-method>
  </web-resource-collection>
  <auth-constraint />
</security-constraint>
```

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