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Is there a way to hide the JBossWeb or Tomcat version in an error page?

⊘ **SOLUTION VERIFIED** - Updated March 1 2019 at 11:10 AM - English ▾ ()

Environment

- JBoss Enterprise Application Platform (EAP)
  - 4.x
  - 5.x
  - 6.x
  - 7.x
- JBoss Enterprise Web Server (EWS)
- Tomcat
  - 5.5.x
  - 6.x
  - 7.x
  - 8.x
  - 9.x

Issue

- The default Tomcat error handler displays the version details of the application server. Is there a way to hide this information from end users. It is possible that a remote attacker could use this information to mount further attacks.
- I need to remove the jbossweb version from default error page message. Is there an option to change the version string ?

- We have receive HTTP 401 response. How can we customise this error response? E.g. the response should not contain the jboss version.

- Can you globally in JBoss EAP 6 configure custom error pages for 404, etc? I know that you can do that per application in web.xml,but this means that each application has to have custom valve. This is not satisfaction.

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```
<error-page>
  <error-code>400</error-code>
  <location>/WEB-INF/errorpage/400.jsp</location>
</error-page>
```

Resolution

The version information is hard-coded in a jar bundled with JBoss EAP and Tomcat distributions. The available options to hide it are:

1. (Tomcat 7+ only) Configure the default `ErrorReportValve` to not include the error report and/or server information by adding a `Valve` element with the default `ErrorReportValve` class to the `Host` element in `$CATALINA_HOME/conf/server.xml` like:

   ```
   <Valve className="org.apache.catalina.valves.ErrorReportValve"
     showReport="false" showServerInfo="false" />
   ```

2. Configure and deploy custom error pages with the web-app to handle all the different error response codes. Please refer to How do I configure a custom error page in JBoss? (https://access.redhat.com/knowledge/solutions/18184) for details. If you need to hide the `ErrorReportValve` output for non-existent applications, then deploy a dummy `ROOT.war` that provides desired custom error pages as well.

3. Create and use a custom `ErrorReportValve` like the attached sample valve. Please refer to the following and `README.txt` inside the archive to try it. *Please note the attached valve itself is not officially supported by Red Hat.*

- How to build the sample `ErrorReportValve` :

   1. Edit the `build.properties` to suite your environment
   2. Run `ant jar` command to build and generate jar

- How to use the sample valve in EAP 4.x:

   1. Put generated `CustomErrorReportValve.jar` under `$JBOSS_HOME/server/$PROFILE/lib`
   2. Add `errorReportValveClass` attribute to `Host` element in `$JBOSS_HOME/server/$PROFILE/deploy/jboss-web.deployer/server.xml` like:

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```
<Host name="localhost"
    autoDeploy="false" deployOnStartup="false" deployXML="false"
        configClass="org.jboss.web.tomcat.security.config.JBossContextConfig"
        errorReportValveClass="com.redhat.jboss.support.CustomErrorReportValve" >
```

- How to use the sample valve in EAP 5.x:

  1. Put generated `CustomErrorReportValve.jar` under `$JBOSS_HOME/server/$PROFILE/lib`
  2. Add `errorReportValveClass` attribute to `Host` element in `$JBOSS_HOME/server/$PROFILE/deploy/jbossweb.sar/server.xml` like:

  ```
  <Host name="localhost"
        errorReportValveClass="com.redhat.jboss.support.CustomErrorReportValve" >
  ```

- How to use the sample valve in EAP 6.x:
  The `errorReportValveClass` setting cannot be overriden in EAP 6 as was done in prior EAP versions per JBWEB-248 (https://issues.jboss.org/browse/JBWEB-248) so a custom `ErrorReportValve` cannot properly be configured. While a custom `ErrorReportValve` can be added as a global valve or application layer valve, it does not disable or replace the default `ErrorReportValve`, resulting in multiple `ErrorReportValves` and potentially inconsistent behavior as each `ErrorReportValve` provides output. If you do use a custom `ErrorReportValve` on EAP 6, enable it in your application `WEB-INF/jboss-web.xml` and ensure the custom valve flushes the response writer when finished (the flush will commit the response, preventing any further output from the default `ErrorReportValve`):

  ```
          writer.write(sb.toString());
          writer.flush();
  ```

  Otherwise, please define custom error pages in each web application instead or use the another approaches explained in this article (https://access.redhat.com/solutions/1587503).

- JBoss EAP 7 uses `Undertow` which does not display the product / version information

- How to use the sample valve in Tomcat 5.x:

  1. Put generated `CustomErrorReportValve.jar` under `$CATALINA_HOME/server/lib`
  2. Add `errorReportValveClass` attribute to `Host` element in `$CATALINA_HOME/conf/server.xml` like:

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```
<Host name="localhost"  appBase="webapps"
       unpackWARs="true" autoDeploy="true"
       ...(snip)...
       errorReportValveClass="com.redhat.jboss.support.CustomErrorReportValve" >
```

- How to use the sample valve in Tomcat 6.x/7.x:

  1. Put generated `CustomErrorReportValve.jar` under `$CATALONA_HOME/lib`
  2. Add `errorReportValveClass` attribute to `Host` element in
     `$CATALINA_HOME/conf/server.xml` like:

```
<Host name="localhost"  appBase="webapps"
       unpackWARs="true" autoDeploy="true"
       ...(snip)...
       errorReportValveClass="com.redhat.jboss.support.CustomErrorReportValve" >
```

In sometimes, customer think the Error code and style in error page still have security risk, they just want the error page be blank, `customerrorreportvalve-eap4-blank.zip` , `customerrorreportvalve-eap5-blank.zip` and `customerrorreportvalve-eap6-blank.zip` for this.

For EAP 6.1+ `customerrorreportvalve-eap6-blank.zip` should be used.

Build and install to use the blank page just like above steps.

Attachments

- customerrorreportvalve-eap4.tar.gz (/node/26641/40/0/13246631)
- customerrorreportvalve-eap5.tar.gz (/node/26641/40/1/13246631)
- customerrorreportvalve-eap6.tar.gz (/node/26641/40/2/13246631)
- customerrorreportvalve-tomcat5.tar.gz (/node/26641/40/3/13246631)

- customerrorreportvalve-tomcat6.tar.gz (/node/26641/40/4/13246631)
- customerrorreportvalve-tomcat7.tar.gz (/node/26641/40/5/13246631)
- customerrorreportvalve-eap4-blank.zip (/node/26641/40/6/13246631)
- customerrorreportvalve-eap5-blank.zip (/node/26641/40/7/13246631)
- customerrorreportvalve-eap6-blank.zip (/node/26641/40/8/13246631)

Product(s)

Red Hat JBoss Enterprise Application Platform (/taxonomy/products/red-hat-jboss-enterprise-application-platform)

Red Hat JBoss SOA Platform (/taxonomy/products/red-hat-jboss-soa-platform)

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Component   httpd (/components/httpd)   jbossas (/components/jbossas)   tomcat5 (/components/tomcat5)

tomcat6 (/components/tomcat6)

Category   Learn more (/category/learn-more)

Tags   eap (/tags/eap)   jboss (/tags/jboss)   jbossweb (/tags/jbossweb)   jboss_eap (/tags/jboss_eap)

tomcat (/tags/tomcat)

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15 June 2012 8:07 AM (https://access.redhat.com/solutions/26641#comment-373833)

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COMMUNITY MEMBER

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28 August 2014 2:34 PM (https://access.redhat.com/solutions/26641#comment-809413)

Jamie Cruise (/user/3518783)

I noticed that this works fine (EAP 5.2) by copying the jar to the lib folder, but if I write my own class and try to use it with the main ear it does not work.

Is there any way to use a class included in the main application and not a separated jar in the lib folder?

Cheers

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29 August 2014 8:22 AM (https://access.redhat.com/solutions/26641#comment-809853)

Lami Akagwu (/user/7593)

Please open a support ticket https://access.redhat.com/support/cases/new/ and a member of the support team will respond to your query.

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12 December 2016 10:10 AM (https://access.redhat.com/solutions/26641#comment-1129031)

Alan Chan (/user/505573)

(/user/505573)have to click "customerrorreportvalve-tomcat5.tar.gz" to download (https://access.redhat.com/) customerrorreportvalve-eap6-blank.zip. Please correct the urls of attachments.

COMMUNITY MEMBER

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