

The OS was updated to Debian 11.2 on Jan 19th 2022

NorthStar did not run out of the box after the update. Necessary fixes:

Issue: enable ajp on Port 8019

in server.xml (/etc/tomcat9/server.xml)

```
<Connector protocol="AJP/1.3"
  address="0.0.0.0"
  secretRequired="false"
  port="8019"
  redirectPort="8443" />
```

restart tomcat9 and apache2

check that ajp is listening on port 8019:

```
netstat -tunlp | grep 0.0.0.0:8019
tcp        0      0 0.0.0.0:8019          0.0.0.0:*
LISTEN    65868      java
```

Pointing browser to <https://northstar.mpifr-bonn.mpg.de/> should now work (default tomcat start page)

Issue: enable astron login authentication module

in /etc/default/tomcat9 include the following line in the JAVA_OPTS directive

```
-Djava.security.auth.login.config=$CATALINA_BASE/conf/astron.login
```

```
cp /usr/share/tomcat8/lib/astron-loginmodule.jar /usr/share/tomcat9/lib/
cp /etc/tomcat9/astron.login /var/lib/tomcat9/conf
```

in /etc/tomcat9/server.xml change the default Engine:

```
<Engine name="Catalina" defaultHost="localhost">
  <Realm className="org.apache.catalina.realm.LockOutRealm">
    <Realm className="org.apache.catalina.realm.UserDatabaseRealm"
      resourceName="UserDatabase"/>
  </Realm>
  <Realm appName="AstronLogin"
    className="org.apache.catalina.realm.JAASRealm" debug="99"
    roleClassNames="nl.astron.security.loginmodule.AstronRolePrincipal"
    userClassNames="nl.astron.security.loginmodule.AstronPrincipal" />
  <Host name="localhost" appBase="webapps"
    unpackWARs="true" autoDeploy="true">
    <Valve className="org.apache.catalina.authenticator.SingleSignOn"
  />

  <Valve className="org.apache.catalina.valves.AccessLogValve"
```

```

directory="logs"
    prefix="localhost_access_log" suffix=".txt"
    pattern="%h %l %u %t &quot;%r&quot; %s %b" />

</Host>
</Engine>

```

Restart of tomcat9 should throw no errors

Issue: adapt context.xml

in /etc/tomcat9/context.xml enter

```

<JarScanner scanManifest="false"/>
<Resource auth="Container" name="mail/Session"
type="javax.mail.Session" mail.smtp.host="127.0.0.1" />
<!--<Resource auth="Container" name="mail/Session"
type="javax.mail.Session" mail.smtp.host="127.0.0.1"
testserver="localhost" testmail.to="hrothmann@web.de"/>-->
<Resource auth="Container" name="jdbc/useradministration"
type="javax.sql.DataSource" maxTotal="100" maxIdle="30"
maxWaitMillis="10000" username="northstar_user"
password="i6bgXTVBAtWhLSTEM5jLND1Hw4vPW37j"
driverClassName="com.mysql.jdbc.Driver" url="jdbc:mysql://127.0.0.1:3306/
useradministration"/>

```

in the <Context> area

restart tomcat9. It should start without errors

Issue: adapt catalina.properties

TBD:

Issue: copy webapps

```

rsync -av ../tomcat8/Catalina/localhost/* Catalina/localhost
chown :tomcat Catalina/localhost/*
cp /var/lib/tomcat8/webapps/*.war /var/lib/tomcat9/webapps/
cp /usr/share/tomcat8/lib/log4j.properties /usr/share/tomcat9/lib/
cp /usr/share/tomcat8/lib/commons-logging.jar /usr/share/tomcat9/lib/
cp /usr/share/tomcat8/lib.55/* /usr/share/tomcat9/lib/

```

restart tomcat9

Issue: install new version of mysql-connector/J

The old version of the mysql connector located in /usr/share/tomcat9/lib/ is too old.

Downloaded the latest version of .deb package; extracted the jar file and copied to /usr/share/tomcat9/lib/:

Issue: Make changes in files:

```
webapps/proposal/pages/help/northstar_help.jsp
webapps/proposal/pages/host/help/general_help.jsp
webapps/proposal/pages/applicants.jsp
webapps/proposal/pages/modules/effelsberg/help/
justification_instructions.jsp
```

Issue: cannot do any action on existing proposals

Proposals can be created but when saving and existing the existing proposals cannot be edited, deleted etc. On any action the following exception is thrown:

```
[2022-01-21 14:56:02] [crit] admin - https://northstar.mpifr-bonn.mpg.de/
proposal/processProposalList.do
[2022-01-21 14:56:02] [info] Unhandled exception: null
[2022-01-21 14:56:02] [info] StackTrace:
[2022-01-21 14:56:02] [info] class java.lang.NullPointerException
[2022-01-21 14:56:02] [info]
#011org.apache.commons.beanutils.PropertyUtilsBean.setIndexedProperty(PropertyUt
[2022-01-21 14:56:02] [info]
#011org.apache.commons.beanutils.BeanUtilsBean.setProperty(BeanUtilsBean.java:10
[2022-01-21 14:56:02] [info]
#011org.apache.commons.beanutils.BeanUtilsBean.populate(BeanUtilsBean.java:811)
[2022-01-21 14:56:02] [info]
#011org.apache.commons.beanutils.BeanUtils.populate(BeanUtils.java:298)
[2022-01-21 14:56:02] [info]
#011org.apache.struts.util.RequestUtils.populate(RequestUtils.java:493)
[2022-01-21 14:56:02] [info]
#011org.apache.struts.action.RequestProcessor.processPopulate(RequestProcessor.j
[2022-01-21 14:56:02] [info]
#011org.apache.struts.action.RequestProcessor.process(RequestProcessor.java:203)
[2022-01-21 14:56:02] [info]
#011org.apache.struts.action.ActionServlet.process(ActionServlet.java:1196)
[2022-01-21 14:56:02] [info]
#011eu.radionet.northstar.control.ActionServlet.superProcess(ActionServlet.java:
[2022-01-21 14:56:02] [info]
#011eu.radionet.northstar.control.ActionServlet.process(ActionServlet.java:112)
[2022-01-21 14:56:02] [info]
#011org.apache.struts.action.ActionServlet.doPost(ActionServlet.java:432)
[2022-01-21 14:56:02] [info]
#011javax.servlet.http.HttpServlet.service(HttpServlet.java:652)
```

Debugging: /root/northstar-web-lib/src/eu/radionet/northstar/control/proposal/list/ProcessProposalListAction.java