

Start Tomcat /Apache

/etc/init.d/apache2 start

/etc/init.d/tomcat start

Tomcat manager /admin

<http://134.104.27.210:8180> aufrufen, dann den links folgen

Tomcat/Java Configuration

/etc/default/tomcat5.5

ASTRON LOGIN JAAS Configuration

in /etc/default/tomcat5.5 add

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

to the JAVA_OPTS line

Copy astron.login to /usr/share/tomcat5.5/conf.

These instructions override the instructions found on the northstar wiki page regarding astron.login. Especially don't change java.security as that file will be overwritten on java updates.

SSL-MYSQL Connection

Connection to the database server must be realized over SSL. Because of problems that newer mysql-connectors (which are required to support ssl) have caused with NorthStar we use stunnel to make the ssl connection.

1) install package stunnel

2) edit /etc/stunnel/stunnel.conf

```
sslVersion = all
chroot = /var/lib/stunnel4/
setuid = stunnel4
setgid = stunnel4
pid = /stunnel4.pid
CAfile = /etc/ssl/certs/ca-certificates.crt
socket = l:TCP_NODELAY=1
socket = r:TCP_NODELAY=1
debug = 3
;output = /var/log/stunnel4/stunnel.log
client = yes
[mysqls]
accept = localhost:3306
connect = mysql2.mpifr-bonn.mpg.de:3307
```

3) enable stunnel on boot

edit /etc/default/stunnel4 and set:

```
ENABLED=1
```

then run

```
update-rc.d stunnel4 defaults
```

JAAS Realm

NorthStar verwendet ein eigenes Authentifizierungs- und Authorisierungsmodul basierend auf JAAS. Zum Aktivieren muss dieses Modul im Context der Webapplikation bekannt gemacht werden. Dazu muss die folgende Zeile in alle Webapplikations-Module (useradministration, proposal, ...) eingetragen werden:

```
<Realm appName="AstronLogin" className="org.apache.catalina.realm.JAASRealm" debug="99"
roleClassNames="nl.astron.security.loginmodule.AstronRolePrincipal"
userClassNames="nl.astron.security.loginmodule.AstronPrincipal" />
```

Die Context Dateien liegen unter: /usr/share/tomcat5.5/conf/Catalina/localhost

Java Security Problems

Wenn beim Starten von Tomcat "access denied" messages kommen, kann man testweise die Benutzung des Java Security Managers abstellen. Dazu /etc/default/tomcat55 editieren und

```
TOMCAT5_SECURITY=no
```

eintragen.

Konkret braucht Jasper einige Access Permissions. Diese müssen in /usr/lib/jvm/java-6-sun-1.6.0.26/jre/lib/security/java.policy eingetragen werden:

```
permission java.lang.RuntimePermission "accessClassInPackage.org.apache.jasper.runtime";
permission java.lang.RuntimePermission "accessClassInPackage.org.apache.jasper.runtime.*";
permission java.util.PropertyPermission
"org.apache.jasper.runtime.BodyContentImpl.LIMIT_BUFFER", "read";
```

Fixes

relative path error in useraccount.jsp

pages/admin/useraccount/useraccount.jsp change

```
<jsp:include page="../../layout/box_header_no_top.jsp" />
```

to

```
<jsp:include page="/pages/layout/box_header_no_top.jsp" />
```

same for:

help/northstar_help.jsp

host/help/general_help.jsp

modules/effelsberg/help/justification_instructions.jsp

modules/effelsberg/help/proposal_help.jsp

missing struts-template.xml

When starting up tomcat there is an error reported about missing struts-template.tld

remove reference to struts-template.tld in web.xml

(/usr/share/tomcat5.5/webapps/useradministration/WEB-INF/web.xml)

Beanutils

With the newest (squeeze) version of beanutils the following error occurs:

```
2012-02-07 09:28:02,966 FATAL eu.radionet.northstar.control.ActionServlet:152 - admin -
http://jb10:8180/proposal/processProposalList.do
Unhandled exception: No bean specified
StackTrace:
class java.lang.IllegalArgumentException
```

Solve: Copy beanutils from old northstar server (V 1.7) to tomcats shared/lib directory

Struts / Invalid CancelException

The following error occurs:

```
class org.apache.struts.action.InvalidCancelException
```

Reason: (probably)

<http://wiki.apache.org/struts/Struts...71c568309643e4>

Solve: copy struts.jar from old northstar server to shared/lib director

Repository

commons-transactions is required (not part of debian squeeze, downloaded from apache and installed in tomcats shared/lib folder)

second level caching (using ehcache) must be enabled for the repository webapp. Edit

```
/var/lib/tomcat5.5/webapps/repository/WEB-INF/classes/conf/northstar/northstar-
repository.cfg.xml
```

add:

```
<property
name="hibernate.cache.provider_class">org.hibernate.cache.EhCacheProvider</property>

<property name="hibernate.cache.use_second_level_cache">true</property>
```

ehcache

with debian squeeze version of ehcache the northstar application throws the following error:

```
class net.sf.ehcache.CacheException
  net.sf.ehcache.config.ConfigurationFactory.parseConfiguration(Unknown Source)
  net.sf.ehcache.config.ConfigurationFactory.parseConfiguration(Unknown Source)
  net.sf.ehcache.CacheManager.parseConfiguration(Unknown Source)
  net.sf.ehcache.CacheManager.init(Unknown Source)
  net.sf.ehcache.CacheManager.<init>(Unknown Source)
  org.hibernate.cache.EhCacheProvider.start(EhCacheProvider.java:131)
```

Solve: use old ehcache.jar (from previous northstar installation)