

# *ICE*

## Installing ICE

Presentation on the 7<sup>th</sup> of May, 2008

Developed by *ICE* - Group, HIS Hochschul-Informations-System

HIS

## Creating Databases

```
CREATE DATABASE `ice`;  
CREATE DATABASE `sta`;
```

## Creating User

```
CREATE USER 'iceadmin'@'localhost' IDENTIFIED BY 'hannover_8';  
CREATE USER 'iceadmin'@'%' IDENTIFIED BY 'hannover_8';  
GRANT USAGE ON * . * TO 'iceadmin'@'localhost' ;  
GRANT USAGE ON * . * TO 'iceadmin'@'%' ;  
GRANT ALL PRIVILEGES ON ice.* TO iceadmin@'%';  
GRANT ALL PRIVILEGES ON ice.* TO iceadmin@localhost;  
GRANT ALL PRIVILEGES ON sta.* TO iceadmin@'%';  
GRANT ALL PRIVILEGES ON sta.* TO iceadmin@localhost;
```

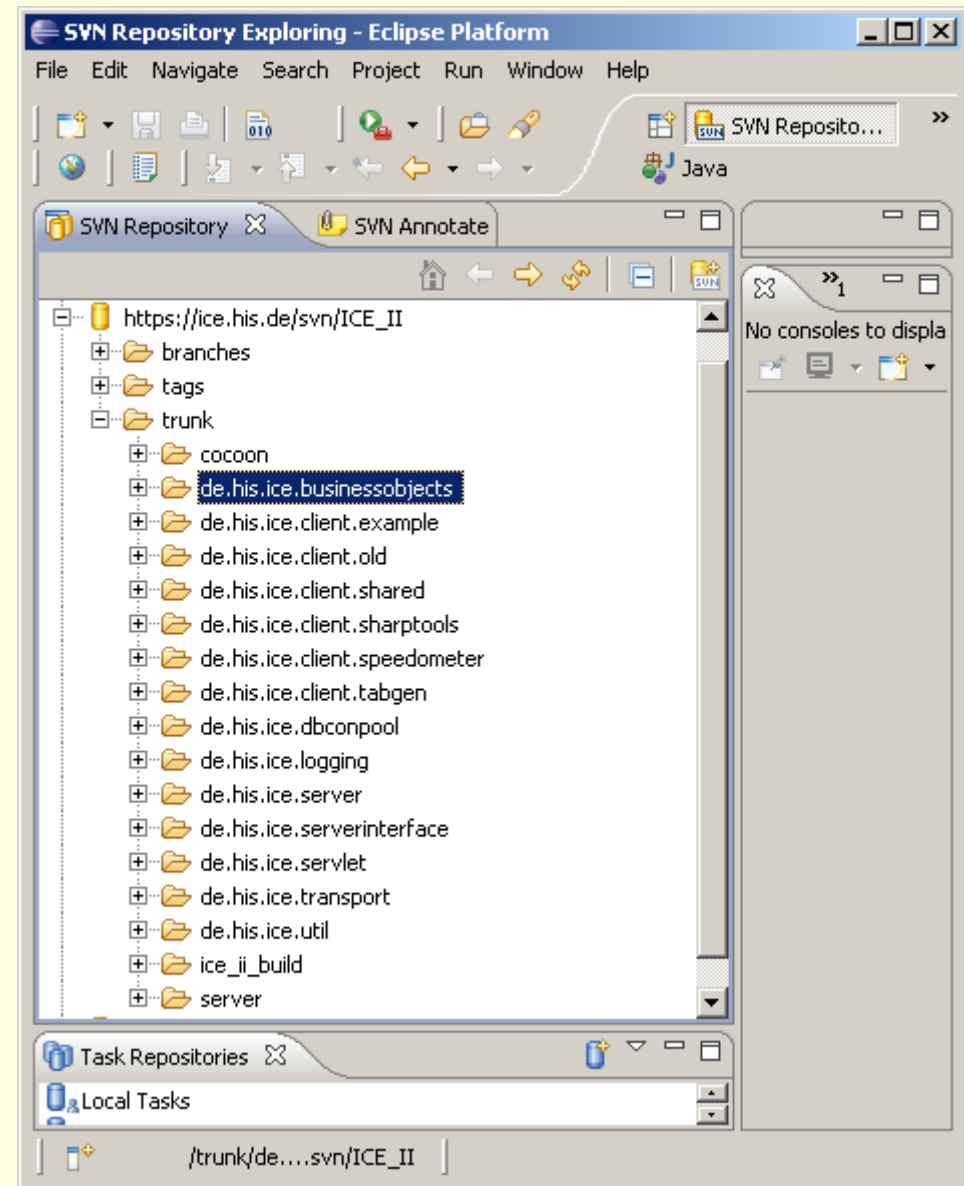
## Checking Out From Subversion

SVN Repository:

[https://ice.his.de/svn/ICE\\_II](https://ice.his.de/svn/ICE_II)

Directories in **trunk**:

- are separate Java projects
- are checked out individually



## Configuration Files in ice

### Client:

- de.his.ice.logging/src/de/his/ice/logging/log4j\_client.conf
- de.his.ice.transport/src/de/his/ice/transport/transport.conf
- de.his.ice.serverinterface/src/de/his/ice/serverinterface/serverinterface\_client.conf
- de.his.ice.client.tabgen/src/de/his/ice/client/tabgen/config/tabgen.conf
- de.his.ice.client.old/src/de/his/ice/client/old/config/client.conf
- Static Web-Pages in ice\_ii\_build/htdocs, in particular
  - JNLP-Files in ice\_ii\_build/htdocs/icewww/ice/ice\_tab/text
  - HTML-Files with applet call in ice\_ii\_build/htdocs/icewww/ice/ice\_tab/text

Since being packed in jar archives, which are signed while building `war` target, configuration files must be customized prior building!

## Configuration Files in ice

### Server (before compiling):

- de.his.ice.logging/src/de/his/ice/logging/log4j\_server.conf
- de.his.ice.serverinterface/src/de/his/ice/serverinterface/serverinterface\_server.conf
- server/src/config/ICETab.cfg
- server/src/config/STATab.cfg

### Databases (before compiling):

- ice\_ii\_build/META-INF/context.xml
- cocoon/META-INF/context.xml
- cocoon/WEB-INF/cocoon.xconf

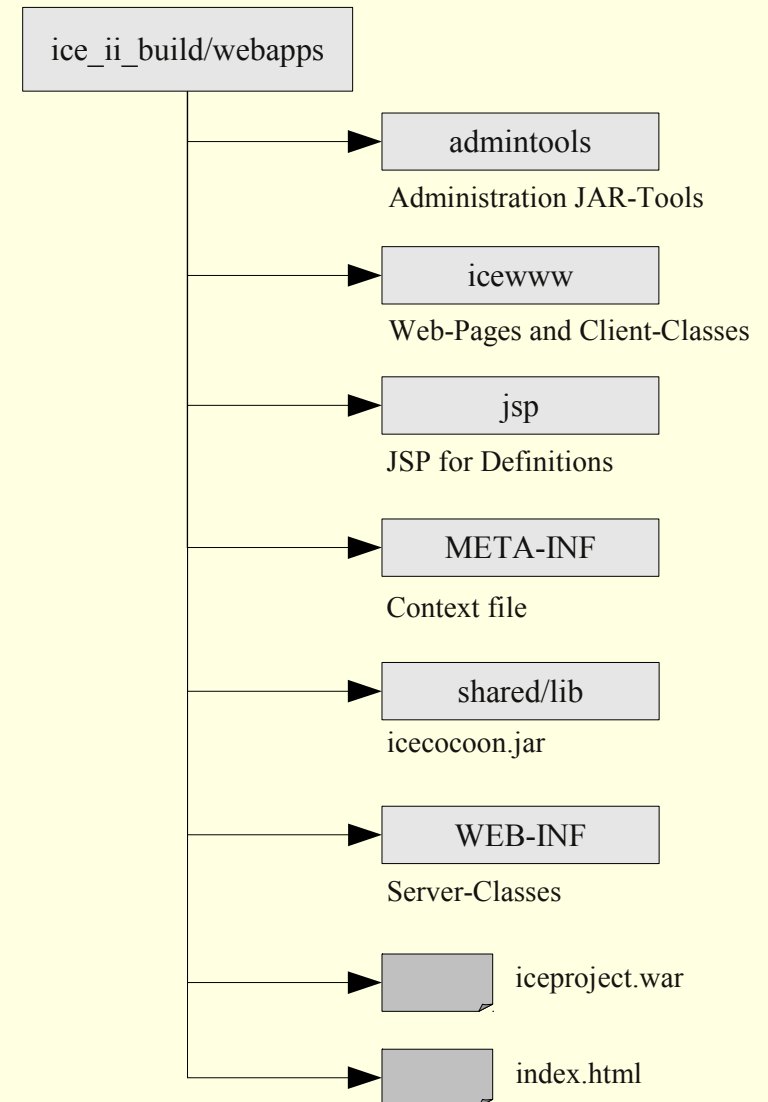
## Compiling and Building <iceproject>

Using Apache Ant Version 1.7:  
<http://ant.apache.org/>

- Change to directory `ice_ii_build`  
`cd /path/to/ice_ii_build`
- Build targets `clean` and `war`  
`ant clean,war`

Required missing libraries are downloaded  
via HTTP from remote server  
`ice.his.de`

Resulting classes are saved in directory  
`/path/to/ice_ii_build/webapps`



## Installing Web Application <iceproject>

- Shutdown Tomcat

```
$TOMCAT_HOME/bin/shutdown.sh
```

- Copy `iceproject.war` archive to the Tomcat webapps directory:

```
cp /path/to/ice_ii_build/webapps/iceproject.war $TOMCAT_HOME/webapps
```

- Copy jar archive `icecococon.jar` to `$TOMCAT_HOME/shared/lib`

```
cp /path/to/ice_ii_build/webapps/shared/lib/icecococon.jar  
$TOMCAT_HOME/shared/lib
```

- Activate `SingleSignOn Valve` to maintain user identity across all application in `$TOMCAT_HOME/conf/server.xml` config file:

```
<Valve className="org.apache.catalina.authenticator.SingleSignOn"/>
```

- Copy JDBC drivers to `$TOMCAT_HOME/common/lib`

- Start Tomcat

```
$TOMCAT_HOME/bin/startup.sh
```

## Creating Database Tables in <ice> Instance

using Java-Tool AdminTableHandler

- To run the tool change in console window to directory with ICE-Server classes:

```
cd %TOMCAT_HOME%/webapps/iceproject/WEB-INF/classes
```

- Customize config file `config/ICETab.cfg`

- Set classpath:

```
export CLASSPATH=./path/to/jdbcdriver:/path/to/log4jjar
```

- Create single tables:

```
java dbimport.AdminTableHandler CreateSingle ice iceadmin
```

- Create multiple tables:

```
java dbimport.AdminTableHandler CreateMultiple ice iceadmin
```

- Fill some database tables using script `scripts/filltables_ice_en.sql`:

```
mysql -u iceadmin -p ice <filltables_ice_en.sql
```

- Import data stock with test data using script `scripts/import_testdata_ice.sql`:

```
mysql -u iceadmin -p ice <import_testdata_ice.sql
```

## Creating Database Tables in <sta> Instance

using Java-Tool AdminTableHandler

- To run the tool change in console window to directory with ICE-Server classes:

```
cd %TOMCAT_HOME%/webapps/iceproject/WEB-INF/classes
```

- Customize config file `config/STATab.cfg`

- Set classpath:

```
export CLASSPATH=./path/to/jdbcdriver:/path/to/log4jjar
```

- Create single tables:

```
java dbimport.AdminTableHandler CreateSingle sta iceadmin
```

- Fill some database tables using script `scripts/filltables_sta_en.sql`:

```
mysql -u iceadmin -p sta <filltables_sta_en.sql
```

- Import test data using script `scripts/import_testdata_sta.sql`:

```
mysql -u iceadmin -p sta <import_testdata_sta.sql
```