Glassfish

https://icatproject.org/installation/glassfish/

```
ll ~/install-demo/glassfish
cd ~/pf ; unzip ~/install-demo/glassfish/glassfish-4.0.zip
type asadmin
cd ~/install-demo/glassfish
./setup-glassfish.py
./setup-glassfish.py domain1 60%
cd ~/pf/glassfish4/glassfish/domains/domain1/config; ll
keytool -export -keystore keystore.jks -file cert.der -storepass changeit
-alias s1as
openssl x509 -in cert.der -inform der -out cert.pem
openssl x509 -in cert.pem -text -noout
cd ~/install-demo/glassfish
cp *.jar ~/pf/glassfish4/glassfish/domains/domain1/lib/ext
asadmin restart-domain
```

authn.simple

https://repo.icatproject.org/site/authn/simple/1.1.0/installation.html

```
cd ~/install-demo; ll
unzip ~/Downloads/authn.simple-1.1.0-distro.zip
cd authn.simple
./setup install -v
# Make secure false
emacs authn_simple-setup.properties
./setup install -v
# user.list = fred fisher
# user.fred.password =  fred
# user.fisher.password =
# mechanism = simple
emacs authn_simple.properties &
mkpasswd -5
./setup install -v
./setup install -v
asadmin list-applications
```

icat.server

```
mysql -uicat -p
    show grants;
    drop database icat;
    create database icat character set = utf8;
    use icat
    show tables;
cd ~/install-demo/icat.server; ll
less icat-setup.properties | grep -v db.pass
```

```
less icat.properties
./setup install -v
mysql -uicat -p icat -e "show tables"
asadmin list-applications
testicat http://localhost:8080 simple username fisher password fisher
```

icat.client

```
cd ~/install-demo/icat.client
pydoc icat
./setup install -v
pydoc icat
python <<EOF
from icat import *
icat = ICAT("http://localhost:8080")
session = icat.login("simple",{"username":"fisher", "password":"fisher"})
session.importMetaData(open("icat.port","rb"))
r = session.search("SELECT f.name, f.fullName, f.createId FROM Facility f")
print r
EOF
head -15 icat.port
mysql -uicat -p icat -e "SELECT * FROM FACILITY"
```

ids.storage_file

```
cd ~/install-demo/ids.storage_file; ll
# :n
less *.properties
./setup install -v
```

Ids.server

More later on configuration
```
cd ~/install-demo/ids.server; ll
./setup install -v
# :n
less *.properties
mkdir -p ~/pf/glassfish4/glassfish/domains/domain1/data/ids/cache
./setup install -v
wget http://localhost:8080/ids/ping -O - -q
```

ids.client

```
cd ~/install-demo/ids.client
./setup install -v
python
    from icat import *
    icat = ICAT("http://localhost:8080")
    session = icat.login("simple",{"username":"fisher", "password":"fisher"})
```

```
session.search("SELECT ds.id FROM Dataset ds")
session.search("SELECT dft.id FROM DatafileFormat dft")
sid = session.sessionId
from ids import *
cl = IdsClient("http://localhost:8080")
f = open("../icat.client/LICENSE.txt")
help (cl.put)
cl.put(sid, f,"LIC.txt",1, 1, "Small")
f.close()
session.search("SELECT df.name, df.description FROM Datafile df")
```

Topcat

More later on configuration from Jody
```
cd ~/install-demo/topcat; ll
mysql -uicat -p
    drop database topcat;
    create database topcat character set = utf8;
./setup install -v
```
http://localhost:8080/topcat/ping
http://localhost:8080