**HPC DME 1.3.x to 1.4 Upgrade instructions**

Service User Account:

DEV: ncif-hpcdm-svc

UAT: ncif-hpcdm-svc

Production: ncifhpcdmsvcp

Build Params:

DEV: -Pdev

UAT: -Ppreprod

Production: -Pprod

VM/Hardware:

* 1. DEV: fr-s-hpcdm-gp-d.ncifcrf.gov
  2. UAT: fr-s-hpcdm-uat-p.ncifcrf.gov
  3. Production:
     1. API: fr-s-dmeapi-t-p.ncifcrf.gov
     2. Database: fr-s-dmedb-t-p.ncifcrf.gov
     3. iRODS: fr-s-hpcdm-irods-p.ncifcrf.gov
     4. Web UI: fr-s-hpcdm-web-p.ncifcrf.gov
  4. Production mirror
     1. API: fr-s-hpcdm-api-p.ncifcrf.gov
     2. Database: fr-s-hpcdm-db-p.ncifcrf.gov
  5. Database Backup: fr-s-hpcdm-gp-p

Release Pre-requisites:

1. Create database migration scripts
2. Create release branch in GIT repository

**Upgrade steps**

1. Stop Apache-tomcat

Go to /opt/apache-tomcat-8.0.42

./bin/Catalina stop

1. Stop Apache-ServiceMix

su <Service User account>

cd /opt/apache-servicemix-7.0.0/

./bin/stop

1. Checkout Source

cd /opt/HPC\_DME\_APIs/src/HPC\_DME\_APIs/src

git status – Make sure no untracked changes

git checkout releases/1.4.0

git reset --hard origin/releases/1.4.0

1. Database Migration:

su postgres

Take backup of current database:

pg\_dump ICAT > ICAT-<DateTime>.sql

Run following migration scripts:

psql -d ICAT -f /opt/HPC\_DME\_APIs/src/hpc-server/hpc-dao-impl/src/main/scripts/migration/release-1.4.0/hpc\_data\_download.sql

psql -d ICAT -f /opt/HPC\_DME\_APIs/src/hpc-server/hpc-dao-impl/src/main/scripts/migration/release-1.4.0/hpc\_data\_registration.sql

psql -d ICAT -f /opt/HPC\_DME\_APIs/src/hpc-server/hpc-dao-impl/src/main/scripts/migration/release-1.4.0/hpc\_data\_transfer\_type.sql

psql -d ICAT -f /opt/HPC\_DME\_APIs/src/hpc-server/hpc-dao-impl/src/main/scripts/migration/release-1.4.0/hpc\_user\_dev.sql

psql -d ICAT -f /opt/HPC\_DME\_APIs/src/hpc-server/hpc-dao-impl/src/main/scripts/migration/release-1.4.0/hpc\_data\_management\_configuration\_schema.sql

psql -d ICAT -f /opt/HPC\_DME\_APIs/src/hpc-server/hpc-dao-impl/src/main/scripts/migration/release-1.4.0/ hpc\_report\_views.sql

psql -d ICAT -f /opt/HPC\_DME\_APIs/src/hpc-server/hpc-dao-impl/src/main/scripts/migration/release-1.4.0/hpc\_data\_management\_configuration\_restore\_prod.sql

Login into database and verify tables/views

Exit from Postgres

**Run following commands on iRODS**

Login into iRODS VM.

sudo su

su irods

Open irods\_imeta.txt and execute each statement.

1. Build Source

su <Service User account>

cd /opt/HPC\_DME\_APIs/src/HPC\_DME\_APIs/src

mvn clean install -P<Env>

cd /opt/HPC\_DME\_APIs/src/HPC\_DME\_APIs/src /hpc-web

mvn clean install

1. Deploy API Server
   1. cp starthpcserver.sh starthpcserver.1.4.0.sh
   2. vi starthpcserver.1.4.0.sh
   3. Update release number
   4. ./starthpcserver.1.4.0.sh
   5. ./bin/stop
   6. ./starthpcserver.1.4.0.sh
   7. Verify the application through Curl or SOAPUI
2. Deploy Web Application

sudo su

cd /opt/apache-tomcat-8.0.42/webapps

rm -rf hpc-web-1.3.0

cp /opt/HPC\_DME\_APIs/src/hpc-web/target/hpc-web-1.4.0.war .

vi conf/server.xml

<Context path="" docBase="hpc-web-1.4.0" privileged="true"/>

./bin/catalina.sh start

./bin/catalina.sh stop

./bin/catalina.sh start