

Table of Contents

How To Set Up a Domain Service Registry.....	1
Installing the DSR.....	1
Configure the DSR.....	1
Test the DSR.....	2
Install the service publisher.....	2
Configure the service publisher.....	2
Test the service publisher.....	3
Troubleshooting.....	3
General Tips.....	3
emird crashes on starting.....	3

How To Set Up a Domain Service Registry

These instructions explain how to setup a Domain Service Registry (DSR) for a site. As a prerequisite, any SL6 host, either real or virtual is required with a valid host certificate. Note that Mongo needs 2GB of space in the file system.

Installing the DSR

Install the EMI release package.

```
yum install yum-priorities yum-protectbase  
rpm -Uvh http://emisoft.web.cern.ch/emisoft/dist/EMI/2/sl6/x86_64/base/emi-release-2.0.0-1.sl6.noarch.rpm
```

Install the EMI Registry package.

```
wget https://github.com/downloads/eu-emi/emiregistry/emi-emir-1.2.0-0.sl6.noarch.rpm  
yum localinstall emi-emir-1.2.0-0.sl6.noarch.rpm
```

Install the trust anchors.

```
wget http://repository.egi.eu/sw/production/cas/1/current/repo-files/EGI-trustanchors.repo -O /etc/yum.repos.d/emi.repo  
yum install lcg-CA
```

Configure the DSR

Edit the file `/etc/emi/emir/emir.config` and set the address for the DSR.

```
emir.address=https://dsr.example.com:9126
```

Set the registry parent attribute to be the following.

```
emir.parentAddress=https://zam052v04.zam.kfa-juelich.de:54321
```

Enable the anonymous port for querying.

```
emir.address.anonymousPort=9127
```

Configure the trust store

```
emir.security.truststore.type=directory  
emir.security.truststore.directoryEncoding=PEM  
emir.security.truststore.directoryLocations.main=/etc/grid-security/certificates/*.pem
```

Configure host certificate location

```
emir.security.credential.path=/etc/grid-security/hostcert.pem  
emir.security.credential.format=PEM  
emir.security.credential.keyPath=/etc/grid-security/hostkey.pem
```

Set the mongo DB name

```
emir.mongodb.dbName=emiregistrysecure
```

Edit the DN of the host certificate to the file `/etc/emi/emir/emir.acl`

```
CN=dsr.example.com,OU=computers,DC=example,DC=com :: serviceowner
```

Start the services

```
service mongod start
service emi-emir start
```

Test the DSR

Check that the DSR is running

```
http://dsr.example.com:9127/ping
```

Install the service publisher

Install the emir service publisher.

```
rpm -Uvh https://github.com/downloads/eu-emi/emir-serp/emir-serp-1.2.1-0.el6.noarch.rpm
```

Install the service translator.

```
rpm -Uvh http://kojipkgs.fedoraproject.org//packages/ginfo/0.2.4/1.el6/noarch/ginfo-0.2.4-1.el6.n
```

Configure the service publisher

Edit the file /etc/emi/emir-serp/emir-serp.ini and set the url for yor DSR.

```
url = https://dsr.example.com:9126
```

Set the credential file locations

```
cert = /etc/grid-security/hostcert.pem
key = /etc/grid-security/hostkey.pem
cadir = /etc/grid-security/certificates
```

Uncomment advancedServiceWithWatchDir section and the set the json_dir_location.

```
[serviceFromWatchDir]
json_dir_location = /var/cache/emir/services
```

Create the json directory.

```
mkdir -p /var/cache/emir/services
```

Create a hourly cron job to run the following command, where bdii.example.com is the host name of a site BDII.

```
ginfo --host bdii.example.com --emi > /var/cache/emir/services/example
```

Run the above command manually to avoid waiting for the cron job to run.

Start the service

```
service emir-serp start
```

Test the service publisher

Check the expected services are published

`http://dsr.example.com:9127/services`

Troubleshooting

General Tips

Check the following log files.

```
/var/log/emi/emir/emir.log  
/var/log/emi/emir-serp/emir-serp.log
```

emird crashes on starting

Check that the example file is valid.

This topic: EMI > DSR

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