GCSO's Transition Plan for switching VOMS/VOMS-Admin Servers from DOEGrids to Digicerts certificates

Purpose:

The host and http certificates currently used by VOMS and VOMS-Admin servers are issued by DOEGrids CA. These certs expire on March 21' 2014 and since DOEGrids CA has gone away (for good?), we need to configure these servers to use host certificates issued by Digicert CA. This plan goes over how we propose to make this transition in a way "least" disruptive to users of these services.

Other Goals:

Besides the main goal of switching these services to use certificates issued by Digicert CA, we also want to accomplish following:

- Setup development and pre-production environments that mimic production environment as much as possible
- Achieve complete (~99%) automation w.r.t installation/configuration of the software (via puppet)
- Transition the LVS servers which serve these and other production services from fg5x0/fg6x0 to fermigrid15/16
- Modify the 'fermilab' VOMS server to use voms26_fermilab instead of voms_fermilab as its database. This is more of a cosmetic change, to make the naming conventions for databases same for all VOs (voms26_[VO])

Note: To avoid too many changes at the same time, this transition * does not* involve upgrade of the VOMS Admin software.

To accomplish the goals mentioned above, a lot of groundwork had to be done:

1. Infrastructure Setup

Setup	Service Names	VOMS/VOMS-Admin	MySQL	LVS	Comment
Development	fgdevvoms.fnal.gov fgdevvoms.opensciencegrid.org fgintmysql.fnal.gov	fgt5x1 fgt6x1	fgt5x4	fgt5x0 fgt6x0	Soon to go away and be replaced by VMs in FermiCloud
Integration or Pre-Production	fgintvoms.fnal.gov fgintvoms.opensciencegrid.org cloudmysql.fnal.gov	cloudvoms1 cloudvoms2	cloudmysql1 cloudmysql2	cloudlvs cloudlvs2	Static VMs in FermiCloud
Production	voms.fnal.gov voms.opensciencegrid.org fg-mysql.fnal.gov	fg5x3 , fg6x3 voms1, voms2	fg5x4 fg6x4	fg5x0/fg6x0 fermigrid15 fermigrid16	KVM VMs on baremetals

Green stays, Blue will come, Red Goes Away (eventually..)

Setup the OS on nodes themselves (all SL6):

Development server nodes were installed via virt-manager (RITM0055723)
Integration server nodes were launched as static VMs in FermiCloud (RITM0083144)
Production server nodes (voms1/voms2) were installed via cobbler (RITM0075810)

2. Get Digicert CA issued host certificates

(https://cdcvs.fnal.gov/redmine/projects/grid_and_cloud_computing_operations/wiki/DigiCert_Certificate_Request_Procedure)

- fgdevvoms.fnal.gov
- fgt5x1.fnal.gov
- fgt6x1.fnal.gov
- fgdevvoms.opensciencegrid.org

- fgintvoms.fnal.gov
- cloudvoms1.fnal.gov
- cloudvoms2.fnal.gov

- fgintvoms.opensciencegrid.org
- cloudvoms1.opensciencegrid.org
- cloudvoms2.opensciencegrid.org

- voms.fnal.gov
- voms1.fnal.gov
- voms2.fnal.gov

- voms.opensciencegrid.org
- voms1.opensciencegrid.org
- voms2.opensciencegrid.org

3. DNS Mapping Request for opensciencegrid.org domain

For each of the opensciencegrid.org domain hostnames to work, we had to:

- Submit a node registration request via miscomp for a hostname that I like to call 'dummy' hostname. This is because we need not request keytabs/certs for this host, all we need is an ipaddress. (cloudvoms3, voms1osg, voms2osg, cloudvoms1osg, cloudvoms2osg)
- Submit ticket with GOC to create a DNS mapping for this ipaddress -> hostname (but with osg domain). Sample ticket for reference is: https://ticket.grid.iu.edu/goc/19229
- Once this is processed, create a Service Desk ticket with our Networking group to add a reverse DNS lookup entry (so this ip address gets mapped to osg domain hostname instead of fnal domain based hostname). Sample request is RITM0086189

4. Mimic Production environment on Development/Integration Testbed

It is best to keep the VOMS/VOMS-Admin Development and Pre-production deployments as close to Production one as possible. To achieve this, we did following

- MySQL databases for various VOs on fgt5x4/cloudmysql1/cloudmysql2 were synced with their corresponding production databases on fg5x4
- Ensure they were all SL6 64bit
- Ensure they all run same version of VOMS / VOMS-Admin

  VOMS-Admin
  voms-admin-server-2.6.1-11.osg.el6.noarch
  voms-admin-client-2.0.16-2.osg.el6.x86_64

  VOMS
  voms-2.0.8-1.9.osg.el6.x86_64
  voms-server-2.0.8-1.9.osg.el6.x86_64

5. Writing Puppet classes

For this, we referenced the puppet classes used by CERN https://github.com/HEP-Puppet/puppet-voms and modified them to our highly customized setup here. It took a while to get this right, as we wanted to automate almost everything related to installation/configuration of these services! There were several rounds of changes, deployment on development/integration testbeds until we reached stage where we were ready to deploy these on new production instances.

What came out of this work:

voms-development.pp
voms-integration.pp
voms-production.pp
fermilab_vo_specifics_new.pp
config.pp
admin.pp
server-new.pp
service.pp

Note: The certs used by VOMS/VOMS-Admin servers are staged in puppet SVN repository

6. Understanding helper scripts

/root/voms-loader/load-fermilab-voms.sh
/root/voms-sync/voms-sync.sh
/opt/voms/expiration_update.sh

7. Co-ordination with GOC

Since these servers are used by OSG users/sites, we had to co-ordinate with GOC about our transition plans. For this, following email was sent to GOC, AFTER

- It was reviewed by GCSO
- Functionality of new VOMS servers voms1/voms2 was tested
- Had OK from GCSO

Contents of this email:

Fermilab VOMS server which hosts following VOs is being transitioned to use Digicert based certificates.

- *cdf*
- *des*
- *dzero*
- *fermilab*
- *i2u2*
- *ilc*
- *lbne*
- *lqcd*

- *lsst*
- *mcdrd*
- *nanohub*
- *nees*
- *osg*
- *vlab*

As part of our transition plan, we are decommissioning the existing server voms.fnal.gov and have replaced its functionality with 2 new VOMS servers (voms1.fnal.gov and voms2.fnal.gov) with Digicert certificates.

They have passed our internal testing and are ready to be used by wider user community.

For this, we request following:

*(1) *addition* of following lines at the end of *vomses* file that is part of *vo-client* package*

"cdf" "voms1.fnal.gov" "15020" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov" "cdf"

"cdf" "voms2.fnal.gov" "15020" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov" "cdf"

"fermilab" "voms1.fnal.gov" "15001" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov" "fermilab"

"fermilab" "voms2.fnal.gov" "15001" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov" "fermilab"

"dzero" "voms1.fnal.gov" "15002" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov" "dzero"

"dzero" "voms2.fnal.gov" "15002" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov" "dzero"

"des" "voms1.fnal.gov" "15017" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov" "des"

"des" "voms2.fnal.gov" "15017" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov" "des"

"nanohub" "voms1.fnal.gov" "15022" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov" "nanohub"

"nanohub" "voms2.fnal.gov" "15022" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov" "nanohub"

"i2u2" "voms1.fnal.gov" "15026" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov" "i2u2"

"i2u2" "voms2.fnal.gov" "15026" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov" "i2u2"

"ilc" "voms1.fnal.gov" "15023" "/DC=com/DC=DigiCert-Grid/O=Open Science

Grid/OU=Services/CN=voms1.fnal.gov" "ilc"

"ilc" "voms2.fnal.gov" "15023" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov" "ilc"

"nees" "voms1.fnal.gov" "15030" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov" "nees"

"nees" "voms2.fnal.gov" "15030" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov" "nees"

"lbne" "voms1.fnal.gov" "15029" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov" "lbne"

"lbne" "voms2.fnal.gov" "15029" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov" "lbne"

"lsst" "voms1.fnal.gov" "15003" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov" "lsst"

"lsst" "voms2.fnal.gov" "15003" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov" "lsst"

"mcdrd" "voms1.fnal.gov" "15004" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov" "mcdrd"

"mcdrd" "voms2.fnal.gov" "15004" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov" "mcdrd"

"lqcd" "voms1.fnal.gov" "15024" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov" "lqcd"

"lqcd" "voms2.fnal.gov" "15024" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov" "lqcd"

"osg" "voms1.opensciencegrid.org" "15027" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.opensciencegrid.org" "osg"

"osg" "voms2.opensciencegrid.org" "15027" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.opensciencegrid.org" "osg"

*(2) *deletion* of all lines in the *vomses* file that point to *voms.fnal.gov* and *voms.opensciencegrid.org**

*(3) For each VO (except OSG) we host, *addition* of 2 new .lsc files (voms1.fnal.gov.lsc and voms2.fnal.gov.lsc).*

For OSG VO, these would be voms1.opensciencegrid.org.lsc and voms2.opensciencegrid.org.lsc

Location of these files is:

/etc/grid-security/vomsdir/[VO]/voms1.fnal.gov.lsc
/etc/grid-security/vomsdir/[VO]/voms2.fnal.gov.lsc

/etc/grid-security/vomsdir/osg/voms1.opensciencegrid.org.lsc
/etc/grid-security/vomsdir/osg/voms2.opensciencegrid.org.lsc

(replace [VO] above with name of the VO)

Content of these files:

[root@fnpcsrv564 fermilab]# cat voms1.fnal.gov.lsc
/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov
/DC=com/DC=DigiCert-Grid/O=DigiCert Grid/CN=DigiCert Grid CA-1
[root@fnpcsrv564 fermilab]#

[root@fnpcsrv564 fermilab]# cat voms2.fnal.gov.lsc
/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov
/DC=com/DC=DigiCert-Grid/O=DigiCert Grid/CN=DigiCert Grid CA-1
[root@fnpcsrv564 fermilab]#

[root@fnpcsrv564 fermilab]# cat voms1.opensciencegrid.org.lsc
/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.opensciencegrid.org
/DC=com/DC=DigiCert-Grid/O=DigiCert Grid/CN=DigiCert Grid CA-1
[root@fnpcsrv564 fermilab]#

[root@fnpcsrv564 fermilab]# cat voms2.opensciencegrid.org.lsc
/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.opensciencegrid.org
/DC=com/DC=DigiCert-Grid/O=DigiCert Grid/CN=DigiCert Grid CA-1
[root@fnpcsrv564 fermilab]#

*(4) *deletion* of lsc files (for VOs we host) named voms.fnal.gov.lsc and voms.opensciencegrid.org.lsc*

Let us know if we need to provide any more information about this request.

Post this request, GOC followed up with us on whether any changes were required to the gums.template and edg-mkgridmap.conf configuration file and the answer to that was NO --- since both of these use the admin interface and this transition does not involve any change to the service name used by admin interfaces for the VOs we support. It remains voms.fnal.gov and voms.opensciencegrid.org

The JIRA ticket that tracked this work is https://jira.opensciencegrid.org/browse/SOFTWARE-1372

8. Co-ordination with FermiGrid Users and Liaisons

Since FermiGrid users use these servers, we had to notify them and various experiment liaisons about these transition plans. For this, following email was sent to them via service desk communication request, AFTER

- It was reviewed by GCSO
- Functionality of new VOMS servers voms1/voms2 was tested
- Had OK from GCSO
- Updated vo-client package was released by OSG Software team

Below mentioned changes concern you, ONLY IF

You are an admin who manages job submission (voms-proxy generation) client node for grid users

OR

You are a user who has his/her own client/job submission node setup

In other words, if you do not manage any job submission (voms proxy generation) node currently , you don't need to do anything and can consider this informational only.

What Are We Doing

Fermilab VOMS server which hosts following VOs is being transitioned to use Digicert based certificates.

- *cdf*
- *des*
- *dzero*
- *fermilab*
- *i2u2*
- *ilc*
- *lbne*
- *lqcd*
- *lsst*
- *mcdrd*
- *nanohub*
- *nees*
- *osg*
- *vlab*

As part of our transition plan, we are decommissioning the existing server voms.fnal.gov and have replaced its functionality with 2 new VOMS servers (voms1.fnal.gov and voms2.fnal.gov) with Digicert certificates.

They have passed our internal testing and are ready to be used by wider user community.

For this, GOC has released a new vo-client package [name-version] with following changes to it.

Please update this package

OR
Do these changes manually

*(1) *add* following lines at the end of *vomses* file*

"cdf" "voms1.fnal.gov" "15020" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov" "cdf"

"cdf" "voms2.fnal.gov" "15020" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov" "cdf"

"fermilab" "voms1.fnal.gov" "15001" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov" "fermilab"

"fermilab" "voms2.fnal.gov" "15001" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov" "fermilab"

"dzero" "voms1.fnal.gov" "15002" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov" "dzero"

"dzero" "voms2.fnal.gov" "15002" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov" "dzero"

"des" "voms1.fnal.gov" "15017" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov" "des"

"des" "voms2.fnal.gov" "15017" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov" "des"

"nanohub" "voms1.fnal.gov" "15022" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov" "nanohub"

"nanohub" "voms2.fnal.gov" "15022" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov" "nanohub"

"i2u2" "voms1.fnal.gov" "15026" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov" "i2u2"

"i2u2" "voms2.fnal.gov" "15026" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov" "i2u2"

"ilc" "voms1.fnal.gov" "15023" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov" "ilc"

"ilc" "voms2.fnal.gov" "15023" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov" "ilc"

"nees" "voms1.fnal.gov" "15030" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov" "nees"

"nees" "voms2.fnal.gov" "15030" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov" "nees"

"lbne" "voms1.fnal.gov" "15029" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov" "lbne"

"lbne" "voms2.fnal.gov" "15029" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov" "lbne"

"lsst" "voms1.fnal.gov" "15003" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov" "lsst"

"lsst" "voms2.fnal.gov" "15003" "/DC=com/DC=DigiCert-Grid/O=Open Science

Grid/OU=Services/CN=voms2.fnal.gov" "lsst"

"mcdrd" "voms1.fnal.gov" "15004" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov" "mcdrd"

"mcdrd" "voms2.fnal.gov" "15004" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov" "mcdrd"

"lqcd" "voms1.fnal.gov" "15024" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov" "lqcd"

"lqcd" "voms2.fnal.gov" "15024" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov" "lqcd"

"osg" "voms1.opensciencegrid.org" "15027" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.opensciencegrid.org" "osg"

"osg" "voms2.opensciencegrid.org" "15027" "/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.opensciencegrid.org" "osg"

*(2) *delete* all lines in the *vomses* file that point to *voms.fnal.gov* and *voms.opensciencegrid.org**

*(3) For each VO (except OSG) we host, *add* 2 new .lsc files (voms1.fnal.gov.lsc and voms2.fnal.gov.lsc).*

For OSG VO, these would be voms1.opensciencegrid.org.lsc and voms2.opensciencegrid.org.lsc

Location of these files is:

/etc/grid-security/vomsdir/[VO]/voms1.fnal.gov.lsc
/etc/grid-security/vomsdir/[VO]/voms2.fnal.gov.lsc
/etc/grid-security/vomsdir/osg/voms1.opensciencegrid.org.lsc
/etc/grid-security/vomsdir/osg/voms2.opensciencegrid.org.lsc

(replace [VO] above with name of the VO)

Content of these files:

[root@fnpcsrv564 fermilab]# cat voms1.fnal.gov.lsc
/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.fnal.gov
/DC=com/DC=DigiCert-Grid/O=DigiCert Grid/CN=DigiCert Grid CA-1
[root@fnpcsrv564 fermilab]#

[root@fnpcsrv564 fermilab]# cat voms2.fnal.gov.lsc
/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.fnal.gov
/DC=com/DC=DigiCert-Grid/O=DigiCert Grid/CN=DigiCert Grid CA-1
[root@fnpcsrv564 fermilab]#

[root@fnpcsrv564 fermilab]# cat voms1.opensciencegrid.org.lsc
/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms1.opensciencegrid.org
/DC=com/DC=DigiCert-Grid/O=DigiCert Grid/CN=DigiCert Grid CA-1

[root@fnpcsrv564 fermilab]#

[root@fnpcsrv564 fermilab]# cat voms2.opensciencegrid.org.lsc
/DC=com/DC=DigiCert-Grid/O=Open Science Grid/OU=Services/CN=voms2.opensciencegrid.org
/DC=com/DC=DigiCert-Grid/O=DigiCert Grid/CN=DigiCert Grid CA-1
[root@fnpcsrv564 fermilab]#

*(4) *delete* of lsc files (for VOs we host) named voms.fnal.gov.lsc and voms.opensciencegrid.org.lsc*

Let us know if we need to provide any more information about this request.
Email fermigrid-help@fnal.gov if you have any questions about making the above changes/additions to your grid setup.

9. Testcases/Pre-production deployment Checklist

   You can never do enough testing, but here is a minimal checklist of things that should be OK before deploying the servers in production

   - VOMS server functionality needs to be tested by generating voms-credentials using *voms-proxy-init* (against base VO, Group, Role etc.). For this, thing to keep in mind is having a vomses file that points to new servers
     voms-proxy-init –voms [VO]:/[VO] -vomses <location of vomses file>

   - VOMS Admin interface (for all VOs) show be tested by going to
     https://voms1.fnal.gov:8443
     https://voms2.fnal.gov:8443

   - Confirm Software plugged in to it works
     Gratia and GUMS come to mind. Since we are not changing the service names for Admin interface, this is not needed.

   - Compare VOMS, VOMS-Admin and Trustmanager configuration files with their counterparts on fg5x3/fg6x3 for any custom settings that may be missing.

   - Compare VOMS, VOMS-Admin and Trustmanager logrotate files with their counterparts on fg5x3/fg6x3 for any custom settings that may be missing.

   - Confirm replication for cms, ilc, auger is running OK on Dev/ITB instances. To be run on voms1, but not until we have disabled it on fg5x3.

   - Confirm load-fermilab-voms script is running OK on Dev/ITB instances. To be run on voms1, but not until we have disabled it on fg5x3.

   - Any custom kernel/system/network settings on fg5x3/fg6x3 that may be missing on voms1/voms2.

   - Check latest VOMS install/upgrade guide on OSG twiki for any new special settings
     https://twiki.grid.iu.edu/bin/view/Documentation/Release3/InstallVoms
   - Confirm auto-yum updates are disables for **java jdk tomcat voms voms-admin**

- All tests run as part of Service Monitoring should be OK (for atleast a week before deploying in production)

10. Update of VOMS/VOMS-Admin server DNs in VO Cards at EGI Portal
We thought we needed VO Admin access to update the VOMS server DNs for VOs used by EGI and so we filed https://ggus.eu/ws/ticket_info.php?ticket=100851. What came out of it is that no change is necessary; the DN gets pulled out of VOMS server certificate automatically.

Groundwork is done :)

Actual Transition

- Post CHG000000007287 that is scheduled for Monday (02/03/2014) , following things related to VOMS Migration will happen

  - The production database for fermilab VOMS server will be switched from *voms_fermilab* to *voms26_fermilab* (sync of these databases will happen as part of the change).

  - The voms-sync script will run as a cron on *voms1* instead of *fg5x3*.

  - The load-fermilab-voms script will run as cron on *voms1* instead of *fg5x3*.

  - VOMS-Admin interface (voms.opensciencegrid.org:8443 for OSG and voms.fnal.gov:8443 for all non-OSG VOs) will run off of voms1/voms2 instead of fg5x3/fg6x3.

  - VOMS server will still run off of fg5x3/fg6x3 and serve voms-proxy-init requests like it has been doing so far.

  - However, if someone updates their vo-client package (once it is released) or modifies their vomses/lsc files manually to contact VOMS servers on voms1/voms2, these will serve the voms-proxy-init requests.

  - We will be tracking activity in voms/voms-admin logs on both fg5x3/fg6x3 and voms1/voms2

- On March 4' 2014

  We modify LVS configuration for fermigrid15/16 to replace fg5x3/fg6x3 with voms1/voms2 (and their ips ofcourse)

  Note to **future me:**
  Even though there will probably be **no** voms-proxy-init requests coming in against service ips voms.fnal.gov and voms.opensciencegrid.org (because **vomses** file will have entries pointing to voms1/voms2 directly), we are still keeping voms1/voms2 behind these service IPs in LVS configuration for *Legacy* sake.

- As we head towards March 21' 2014 (when the DOEGrids certs expire)

  We will keep track of voms-proxy-init requests issued against fg5x3/fg6x3 and inform these users about these servers going away and asking them to update their vo-client package.

- After March 21' 2014:

DOEGrids goes away!
Technically, we do not have to do anything now, since we have already done what needed to be done.

Not related directly to transition, but needs to be done

- Need to clean up voms puppet svn module (after fg5x3/fg6x3 are decommissioned)
- Change location of helper scripts from /root to /opt/gcso/voms
- Customize test suite for voms/voms admin for our use

https://twiki.cern.ch/twiki/pub/EMI/TestReportForTask18702/voms-admin-testsuite.tar.gz