

OSG 0.8.0 UPGRADE EXPERIENCES

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OSG SITE ADMINISTRATORS MEETING

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Introduction

- Upgrade from 0.6.0 to 0.8.0 quite painless
- Took only about an hour
- Most defaults kept, only minor bug in configure-osg.sh script
- <https://twiki.grid.iu.edu/twiki/bin/view/ReleaseDocumentation>

Installation of 0.8.0

```
cd /ibrix/app/gridapp/pacman-3.21
source setup.sh
cd -

mkdir /state/partition1/apps/osg-0.8.0
cd /state/partition1/apps/osg-0.8.0
export VDT_LOCATION=/state/partition1/apps/osg-0.8.0
export OLD_VDT_LOCATION=/state/partition1/apps/osg-0.6.0

export VDTSETUP_CONDOR_LOCATION=/opt/condor
export VDTSETUP_CONDOR_CONFIG=/opt/condor/etc/condor_config

pacman -trust-all-caches -get OSG:ce
pacman -get OSG:Globus-Condor-Setup
```

Configuration of 0.8.0

```
source setup.sh

# Add to globus/etc/globus-job-manager.conf:
    -globus-tcp-port-range 63001,65000
# Add to globus/etc/globus-user-env.sh:
    export GLOBUS_TCP_PORT_RANGE="63001,65000"
    export GLOBUS_TCP_SOURCE_RANGE="63001,65000"
# Add to globus/etc/globus-user-env.csh:
    setenv GLOBUS_TCP_PORT_RANGE "63001,65000"
    setenv GLOBUS_TCP_SOURCE_RANGE "63001,65000"

$VDT_LOCATION/vdt/setup/setup-cert-request
q
echo gmf_local /state/partition1/apps/osg/edg/etc/
grid-mapfile-local >> edg/etc/edg-mkgridmap.conf
```

Shutdown of 0.6.0

```
# in a different shell:
```

```
----
```

```
cd /state/partition1/apps/osg-0.6.0
```

```
. setup.sh
```

```
vdt-control --off
```

```
----
```

```
rm /etc/grid-security; ln -s /state/partition1/apps/osg-0.6.0/
```

```
globus/grid-security /etc/grid-security-osg-0.6.0
```

```
mkdir /etc/grid-security
```

```
cp -p /etc/grid-security-osg-0.6.0/hostcert.pem /etc/grid-security/
```

```
osg-0.6.0/hostkey.pem /etc/grid-security-osg-0.6.0/containercert
```

```
/etc/grid-security-osg-0.6.0/containerkey.pem /etc/grid-security/
```

```
osg-0.6.0/grid-mapfile /etc/grid-security/
```

```
cp -a ../osg-0.6.0/globus/etc/http globus/etc/
```

Configuration of 0.8.0 (cont.)

```
rm /state/partition1/apps/osg
ln -s osg-0.8.0 /state/partition1/apps/osg

mv /etc/grid-security globus
ln -s /state/partition1/apps/osg/globus/grid-security /etc
ln -s ../etc/http globus/grid-security
export EDITOR=emacs
visudo

-----
Runas_Alias GLOBUSUSERS = ALL, !root
daemon ALL=(GLOBUSUSERS) \
    NOPASSWD: /state/partition1/apps/osg-0.8.0/globus/libexec/globus-gridmap-and-execute \
    -g /etc/grid-security/grid-mapfile \
    /state/partition1/apps/osg-0.8.0/globus/libexec/globus-job-manager-script.pl *
daemon ALL=(GLOBUSUSERS) \
    NOPASSWD: /state/partition1/apps/osg-0.8.0/globus/libexec/globus-gridmap-and-execute \
    -g /etc/grid-security/grid-mapfile \
    /state/partition1/apps/osg-0.8.0/globus/libexec/globus-gram-local-proxy-tool *
-----
```

Startup of 0.8.0

```
vdt-control --on
cd monitoring/
./configure-osg.sh
```

```
# accept all 0.6.0 defaults except the following:
```

```
=====
```

```
Would you like to use the WS-GRAM service [n] (y/n): y
```

```
Would you like to use the CA certificate updater service [n] (y/n): y
```

```
How many SubClusters are available for this cluster? (i.e. 1-20) [1]
```

```
What is a unique name for this Subcluster? [tier2-01.occhep.ou.edu]
```

```
What is the Vendor of the processor? (i.e. Intel, AMD) [GenuineIntel]
```

```
What is the Model of the processor? [ Intel(R) Xeon(R) CPU E5345 @ 2.33GHz]
```

```
What is the Clockspeed of the processor? [2327]
```

```
How many physical CPUs in each node? [8]
```

```
How many logical CPUs in each node? [8]
```

```
How much RAM is in each node (in MB)? [16414]
```

```
Is there Inbound connectivity to these nodes? (i.e. TRUE, FALSE) [FALSE]
```

```
Is there Outbound connectivity to these nodes? (i.e. TRUE, FALSE) [TRUE]
```

```
How many nodes in this subcluster? [1] 32
```

```
Please enter SE where gsiftp is running: [UNDEFINED] tier2-02.occhep.ou.edu
```

```
Please enter the Access Path on tier2-02.occhep.ou.edu: [UNDEFINED] /ibrix/data/griddata
```

```
=====
```

Startup of 0.8.0 (cont.)

```
cd -  
vdt-control --off  
$VDT_LOCATION/monitoring/site-status on  
vdt-control --on
```


Bugs

- Only one encountered
- Typo in `$VDT_LOCATION/monitoring/configure-osg.sh`:

```
if [ -e "$OLD_VDT_LOCATION/monitoring/osg-local-job-environment.conf"
    cp $OLD_VDT_LOCATION/monitoring/osg-local-job-environment.conf
$VDT_LOCATION/monitoring/osg-local-job-environment.conf
fi
```