

Wikiprint Book

Title: ESGF Local Node Deployment Tutorial

Subject: TracMeteo - ESGFNodeFullAutoInstall

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```

```

Checking that you have root privs on spock.meteo.unican.es... [OK]
Checking requisites...

```

```
Using IP: 193.144.184.40
```

```
Stopping Globus Services for Data-Node... (GridFTP) stop_globus_services for datanode
```

```
Stopping globus-gridftp-server: OK
```

```
Stopping dashboard provider...
```

```
Shutting down ESGF Information Provider... [OK]
```

```
Shutting down : esgfnode Manager process not present. Attempting to wipe PIDFILE and LOCKFILE.
```

```
Tomcat (jsvc) process is running...
```

```
stop tomcat: /usr/local/tomcat/bin/jsvc -pidfile /var/run/tomcat-jsvc.pid -stop org.apache.catalina.startup.Bootstrap
(please wait)
```

```
5 Z tomcat      7111      1 0 80  0 -      0 do_exe  2017 ?          00:24:39 [jsvc] <defunct>
```

```
postmaster (pid 30159) is running...
```

```
Stopping postgresql service:          [ OK ]
```

```
Stopping httpd:                        [ OK ]
```

```
Running shutdown hooks...
```

```
Running Node Services...
```

```
node type: [ data ] (4)
```

```
Execute source /usr/local/bin/esg-purge.sh && esg-purge all
```

Installation from scratch using autoinstaller

The autoinstaller allows the installation of data only and data+idp+compute+index nodes. Any other combinations should be installed manually. See <https://github.com/ESGF/esgf-installer/wiki/ESGF-Installation-Using-Autoinstaller>.

As root (not sudo!):

```

cd /usr/local/bin
wget -O esg-bootstrap http://distrib-coffee.ipsl.jussieu.fr/pub/esgf/dist/esgf-installer/2.5/esg-bootstrap --no-check-cert
chmod 555 esg-bootstrap
./esg-bootstrap

```

Edit /usr/local/etc/esg-autoinstall.conf. It should look like:

```

#!/usr/bin/expect -f
# -*- mode:shell-script -*-
#
# Configuration file for the esg-autoinstall Expect script.

```

```

#
# If you are opening this file as 'esg-autoinstall.template', either
# from /usr/local/etc or from a Git repository, DO NOT MODIFY IT
# DIRECTLY. It must be copied to /usr/local/etc/esg-autoinstall.conf
# before it will be read.
#
# THIS FILE CONTAINS PASSWORDS -- ensure that when you copy it you set
# the permissions to 600 and the ownership to root, e.g.
#   chown root /usr/local/etc/esg-autoinstall.conf
#   chmod 600 /usr/local/etc/esg-autoinstall.conf
#
### Local Node Settings ###

# Set this to "data" or "data compute" for a data-only node
# Set this to "index" for an index-only node
set NODETYPE "index idp data compute"

# Optional install flags
# Possibilities include "--devel" or "--debug"
set INSTALLFLAGS ""

# Fully qualified domain name of the node
set FQDN "spock.meteo.unican.es"

# Shortname of the node
set SHORTNAME "unican test"

# Long descriptive name of the node
set LONGNAME "unican test"

# Admin password (alphanumeric-only)
set ADMINPASS "PASSWORD"

# IP address cleared for admin-restricted pages
set ADMINIP "0.0.0.0"

# Password for low-privilege publisher database account (alphanumeric-only)
set DBLOWPASS "PASSWORD"

# Globus Online username and password
# (you must have set up this account in advance)
# If your password contains URL special characters, installation may fail.
set GLOBUSUSER "YOUR-GLOBUS-USER"
set GLOBUSPASS "YOUR-GLOBUS-PASSWORD"

# Organization name
set ORGNAME "unican"

# Namespace (reverse FQDN, i.e. "gov.llnl")
set NAMESPACE "es.unican.meteo.spock"

# Peer Group (valid values are usually "esgf-test" and "esgf-prod")
set PEERGROUP "esgf-test"

# Default Peer (set this to empty for the default peergroup member, or to your own FQDN)
set DEFAULTPEER "spock.meteo.unican.es"

# Hostname of the node to publish to
set PUBLISHNODE "spock.meteo.unican.es"

```

```

# Use an external IDP Peer?
# (Unless you know you need to run your own, put y)
set EXTERNALIDP "n"

# FQDN of the external IDP Peer
set IDPPEER "spock.meteo.unican.es"

# E-mail address notifications will be sent as
set ADMINEMAIL "ezequiel.cimadevilla@unican.es"

# Default answer for installing Globus
# Should be be N for upgrade and Y for fresh install
set GLOBUS "y"

# Default answer for automatic peering
# Should be be N for upgrade and Y for fresh install
set AUTOMATICPEER "y"

set THREDDS "N"

### Special-use variables (you probably don't want to change these) ###

# Which install script to run
set ESGNODESCRIPT /usr/local/bin/esg-node

# Disable timeouts (the installer can take a long time)
set timeout -1

# Database connection string
# (form: [username]@[host]:[port]/[database])
# Note: all elements are mandatory, and the "postgresql://" header is
# automatically prepended by the esg-node script!
# Currently, the only allowed database name is "esgct"
## DO NOT CURRENTLY SET THIS TO ANYTHING BUT ""
#set DBSTRING "esg@localhost:5432/esgct"
set DBSTRING ""

# Is this an externally managed database?
# (if DBSTRING isn't pointed at localhost, the answer is yes)
# DO NOT CURRENTLY SET THIS TO YES
set DBEXTERNAL no

# Low-privilege database account (this may need to be "esgct")
set DBLOWUSER "esgct"

# PostgreSQL port number
# DO NOT CURRENTLY CHANGE THIS
set PGPORT 5432

# Force recreation of SOLR replica indexes
set SOLRREINDEX ""

```

Run esg-autoinstall

Known issues

If installation of slcs stucks when ansible is gathering facts, you need to add `gather_subset=!hardware` to `/etc/ansible/ansible.cfg`.