

Wikiprint Book

Title: Pre-requisites

Subject: TracMeteo - ESGFNodeInstallation

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Pre-requisites

TCP and UDP ports firewall configuration [[FootNote(...)]]

Corporate Firewall

Port	Direction	Type	Application	Description
80	in	tcp	Tomcat	Web server access
443	in	tcp	Tomcat	SSL - Secure Web Server Access.
5432	in	tcp	Postgres	Postgres Access. (not external: by default bound ONLY TO LOCAL INTERFACE)
2811	in	tcp	GridFTP	user-configured GridFTP Server control channel
(60000-61000)	in/out	tcp	GridFTP	user-configured GridFTP Server data channel (or as defined in the global variable GLOBUS_TCP_PORT_RANGE)
2812	in	tcp	GridFTP	BDM-configured GridFTP Server control channel. May run together with the user-configured one though not recommended - system resource intensive!
(60000-61000)	in/out	tcp	GridFTP	BDM-configured GridFTP Server data channel. May run together with the user-configured one though not recommended - system resource intensive!
7512	out	tcp	MyProxy	MyProxy client access to the certificate repository
8984	-	tcp	esgf-search (Tomcat)	local connection to the Solr master instance (not external!)
8983	in/out	tcp	esgf-search (Tomcat)	Connection to remotes Solr slave instance. Used in distributed search (shard).
80	out	tcp	esg-publisher	Local connection to THREDDS server (e.g., to check catalogs) and other nodes (node-manager)
443	out	tcp	esg-publisher	Local secure connection to THREDDS server (e.g., to restart the application) and to the idp

IPTables configuration

Add these rules to the IPTables configuration file, i.e. `/etc/sysconfig/iptables`

```
-A INPUT -m state --state NEW -m tcp -p tcp --dport 22 -j ACCEPT
-A INPUT -m state --state NEW -m tcp -p tcp --dport 80 -j ACCEPT
-A INPUT -m state --state NEW -m tcp -p tcp --dport 443 -j ACCEPT
-A INPUT -m state --state NEW -m tcp -p tcp --dport 2811 -j ACCEPT
-A INPUT -m state --state NEW -m tcp -p tcp --dport 2812 -j ACCEPT
-A INPUT -m state --state NEW -m tcp -p tcp --dport 8984 -j ACCEPT
-A INPUT -m state --state NEW -m tcp -p tcp --dport 8983 -j ACCEPT
-A INPUT -m state --state NEW -m tcp -p tcp --dport 60000:61000 -j ACCEPT
```

and restart IPTables services

```
$ services iptables restart
```

Add sourceforge RPM repo

Create the esgf user

Install RPM packages

Install the sourceforge RPM repository for the *ExtUtils* packages:

```
$ rpm -i -U -h http://dag.wieers.com/packages/rpmsforge-release/rpmsforge-release-0.3.6-1.el4.rf.x86_64.rpm
```

And now the ESGF required RPM packages

```
$ yum install autoconf automake bison file flex gcc gcc-c++ gettext-devel libtool libuuid-devel libxml2 libxml2-devel libx
```

Please make sure that the ntp package is installed.\$ yum install ntp