

# Whole site: Host certificate update

## Introduction

Updating the host certificate in `/etc/grid-security` is not always sufficient: some services have a copy of this certificate which they started with. It is therefore necessary to update those copies and restart these services.

For an **automatic** update using the YAIM configuration tool:

- update host certificates under `/etc/grid-security` directory
- reconfigure the whole node using YAIM, not forgetting to use all services (node-types) that need to be mentioned as arguments of the command line.

For a **manual** configuration please follow the advices bellow:

- find all locations where you have put copies of the host cert & key files
- ensure the right ownership and permissions are maintained
- restart specific services

### List of known paths and ownerships for individual services:

- Copies of certificate should have the following permissions:
  - ◆ 644 for public key (hostcert.pem)
  - ◆ 600 for the private key (hostkey.pem)
- Generally you can easily find the location using `locate` unix command:

```
locate cert.pem
locate key.pem
```

This will help in case paths have changes between different versions of the same service or they are different between different services. For example you can find also: `tomcat-cert.pem` & `tomcat-key.pem`

Please find bellow details for specific services:

- **CREAM CE:**

```
# ll /etc/grid-security/*.pem
-rw-r--r-- 1 root    root 1428 Oct 22 10:19 /etc/grid-security/hostcert.pem
-r----- 1 root    root  887 Oct 22 10:19 /etc/grid-security/hostkey.pem
-rw-r--r-- 1 tomcat root 1428 Nov 12 16:01 /etc/grid-security/tomcat-cert.pem
-r----- 1 tomcat root  887 Nov 12 16:01 /etc/grid-security/tomcat-key.pem
```

- ◆ and, depending on the **glite** user home directory:

```
# ll /var/glite/.certs/*.pem
-rw-r--r-- 1 glite glite 1419 Dec 13 12:00 /var/glite/.certs/hostcert.pem
-r----- 1 glite glite  887 Dec  5 16:59 /var/glite/.certs/hostkey.pem
```

- ◆ OR

```
# ll /home/glite/.certs/*.pem
-rw-r--r-- 1 glite glite 1428 Dec 13 12:00 /home/glite/.certs/hostcert.pem
-r----- 1 glite glite  887 Nov 12 16:03 /home/glite/.certs/hostkey.pem
```

## Services to be restarted

### CREAM-CE

- tomcat5 for SL5
- tomcat6 for SL6
- globus-gridftp
- glite-lb-locallogger

### lcg-CE

- globus-gatekeeper
- globus-gridftp

### SE StoRM

- storm-backend, storm-frontend, storm-checksum
- globus-gridftp

### SE DPM

- dpm, dpmcopyd, dpm-gsiftp, dpm-httpd, dpnsdaemon
- srmv1, srmv2, srmv2.2
- globus-gridftp

### VOMS

- tomcat5
- voms

### WMS

- gLite

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