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FTS web-service software rolling upgrade procedure

What is it?

This is the procedure for performing a rolling upgrade to the FTS web-service nodes.

The rolling upgrade assumes you have more than one FTS web-service and have a load-balanced production alias.

If you do not, the downtime is around 1 minute, depending on how fast you type. 🙂

When to use it?

When you want to upgrade the FTS web-service or change its configuration files without causing service downtime.

Procedure

We use in the example the two-node load-balanced cluster at CERN. The SMS controls are part of the CERN CC environment; substitute appropriately for your site.

Mark one of the nodes for maintenance and drop it from the alias

```
sms set maintenance other "FTS upgrade" fts103
```

Wait for the node to drop out of the load-balanced alias.

```
host prod-fts-ws.cern.ch
```

Upgrade the software / config files

Upgrade the web-application resource file RPM `glite-data-transfer-fts` and/or make the necessary YAIM configuration changes:

```
spma_wrapper.sh
```

[edit the YAIM configuration files]

Perform the FtsProcedureTomcatClean15 procedure to clean Tomcat.

Rerun the YAIM config tool:

```
/opt/glite/yaim/scripts/configure_node \
    /afs/cern.ch/project/gd/SC3/SC4/yaim/agents-split-between-fts101-and-fts102/site-info.def FTS
```

This will restart the web-service.

Re-enable the node

```
sms set production none "FTS upgrade done" fts103
```

Wait for the host to come back into the load-balanced alias before doing the other node:

`host prod-fts-ws.cern.ch`

Repeat for the other node

For CERN-PROD, this is `fts104`.

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