

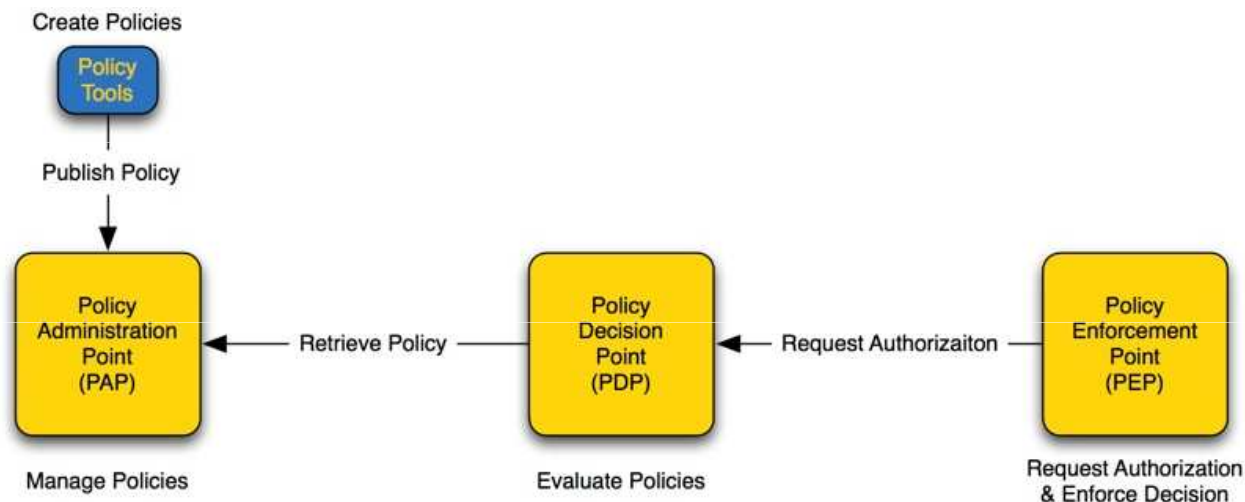


Argus: Installation et Configuration

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Installation d'Argus

- ▶ Maintenir et appliquer des politiques d'autorisation
- ▶ ARGUS comprend 3 éléments:
 - ▶ Policy Administration Point (**PAP**)
 - ▶ Policy Decision Point (**PDP**)
 - ▶ Policy Enforcement Point (**PEP**)



Installation d'Argus

- ▶ Scientific Linux 5.4 (64 bits)
- ▶ Pré-requis:
 - ▶ Demander un certificat pour le serveur Argus
 - ▶ Java version ≥ 5 :

```
# yum install jdk
```
 - ▶ LCG-CA
<http://grid-deployment.web.cern.ch/grid-deployment/glite/repos/3.1/lcg-CA.repo>

```
# yum install lcg-CA
```
 - ▶ Mise à jour des CRL
 - ▶ Problème `fetch-crl` ne vient pas avec `lcg-CA` mais vient avec les autres repository `glite-*`

```
# /usr/sbin/fetch-crl --loc /etc/grid-security/certificates  
--out /etc/grid-security/certificates
```

Installation de **PAP**

```
# mkdir /opt/argus
# cd /opt/argus
# wget http://etics-repository.cern.ch:8080/repository/download/registered/org.glite/org.glite.authz.pap-service/1.0.5/noarch/glite-authz-pap-1.0.5-2.tar.gz
# tar -zxvf glite-authz-pap-1.0.5-2.tar.gz
```

▶ Environnement

```
# export PAP_HOME=/opt/argus/pap/
# export PATH=$PATH:/opt/argus/pap/bin/
```


Installation de **PDP**

```
# cd /opt/argus
# wget http://etics-repository.cern.ch:8080/repository/download/registered/org.glite/org.glite.authz.pdp/1.0.3/noarch/glite-authz-pdp-1.0.3-1.tar.gz
# tar -zxvf glite-authz-pdp-1.0.3-1.tar.gz
```

► Environnement

```
# export PDP_HOME=/opt/argus/pdp/
# export PATH=$PATH:/opt/argus/pdp/bin/
```

Configuration de **PDP**

▶ /opt/argus/pepd/conf/pdp.ini

```
[SERVICE]
```

```
entityId = http://monargus.in2p3.fr/
```

```
hostname = monargus.in2p3.fr
```

```
[POLICY]
```

```
paps = http://monargus.in2p3.fr:8150/pap/services/ProvisioningService
```

```
[SECURITY]
```

```
servicePrivateKey = /etc/grid-security/hostkey.pem
```

```
serviceCertificate = /etc/grid-security/hostcert.pem
```

```
trustInfoDir = /etc/grid-security/certificates
```

▶ Fichiers de log: /opt/argus/pdp/log/process.log

Installation de **PEPD**

```
# cd /opt/argus
# wget http://etics-repository.cern.ch:8080/repository/download/registered/org.glite/org.glite.authz.pep-daemon/1.0.3/noarch/glite-authz-pepd-1.0.3-1.tar.gz
# tar -zxvf glite-authz-pepd-1.0.3-1.tar.gz
```

► Environnement

```
# export PEDP_HOME=/opt/argus/pedp/
# export PATH=$PATH:/opt/argus/pedp/bin/
```


Configuration de **PEDP**

▶ /opt/argus/pepd/conf/pedp.ini

```
[SERVICE]
```

```
entityID = http://monargus.in2p3.fr/
```

```
hostname = monargus.in2p3.fr
```

```
[PDP]
```

```
pdps = http://monargus.in2p3.fr:8152/authz
```

```
[SECURITY]
```

```
servicePrivateKey = /etc/grid-security/hostkey.pem
```

```
serviceCertificate = /etc/grid-security/hostcert.pem
```

```
trustInfoDir = /etc/grid-security/certificates
```

Configuration

- ▶ Ports utilisés :

- ▶ **PAP**

- ▶ 8150 en écoute du **PDP**
 - ▶ 8151 Administration uniquement sur la machine

- ▶ **PDP**

- ▶ 8152 en écoute du **PEPD**
 - ▶ 8153 Administration uniquement sur la machine

- ▶ **PEPD**

- ▶ 8154 en écoute des clients (VWN, CE ?)
 - ▶ 8155 Administration uniquement sur la machine

Démarrage des services

```
/opt/argus/pap/bin/pap-standalone [ start | stop | status ]  
/opt/argus/pdp/bin/pdpctl.sh      [ start | stop | status ]  
/opt/argus/pepd/bin/pepdctl.sh    [ start | stop | status ]
```

▶ **Note:**

Il faut toujours démarrer **PAP** avant **PDP** sinon **PDP** risque de ne pas trouver les politiques de sécurité définie dans **PAP**.

▶ **Attention:**

Les commandes sont asynchrones.

Elles redonnent la main tout de suite mais le service peut mettre du temps à se mettre réellement en place !

Tests avec PEP-CLI

- ▶ **Lien:** <https://twiki.cern.ch/twiki/bin/view/EGEE/AuthZPEPCCLI>

- ▶ **Installation:**

```
wget http://etics-repository.cern.ch:8080/repository/download/registered/org.glite/org.glite.authz.pep-c/1.3.0/sl5\_x86\_64\_gcc412/glite-authz-pep-c-1.3.0-1.tar.gz
```

```
wget http://etics-repository.cern.ch:8080/repository/download/registered/org.glite/org.glite.authz.pep-c-cli/1.3.0/sl5\_x86\_64\_gcc412/glite-authz-pep-c-cli-1.3.0-1.tar.gz
```

- ▶ **Utilisation:**

```
/opt/glite/bin/pepcli -pepd <PEP>  
    --subjectid <Subject>  
    --actionid <Action>
```

- ▶ **Message d'erreur si un service n'a pas complètement démarré**

```
pepcli:ERROR: failed to authorize XACML request: [I I]: authorize:  
processing error: PEPd[https://monargus.in2p3.fr:8154/authz]:  
sending XACML request failed: curl[7]: couldn't connect to server.
```

Installation WN glEXEC + Argus

Liens :

http://glite.web.cern.ch/glite/packages/R3.2/s15_x86_64/deployment/glite-GLEXEC_wn/glite-GLEXEC_wn.asp
<https://twiki.cern.ch/twiki/bin/view/EGEE/AuthZPEPgLEXECInstall>

Yum :

http://grid-deployment.web.cern.ch/grid-deployment/glite/repos/3.2/glite-GLEXEC_wn.repo

Avec Yaim:

```
# /opt/glite/yaim/bin/yaim -c -s /opt/glite/yaim/config/site-info.def -n glite-WN  
# /opt/glite/yaim/bin/yaim -c -s /opt/glite/yaim/config/site-info.def -n glite-GLEXEC_wn
```

Pour utiliser Argus avec glEXEC il manque les RPMs suivants:

```
glite-security-lcmaps-plugins-c-pep-0.0.7-1.s15.x86_64.rpm  
glite-authz-pep-c-1.2.0-1.s15.x86_64.rpm
```

Reste à valider...

Remarques

- ▶ **CREAM-CE**

- ▶ Pas encore intégré avec Argus

- ▶ **Seulement WN glexec + Argus pour le moment.**

- ▶ Reste à le tester...

- ▶ **Pour le moment on a toujours ce message... :**

```
# /opt/glite/bin/pepcli --pepd http://monargus.in2p3.fr:8154/authz
  --subjectid "/O=GRID-FR/C=FR/O=CNRS/OU=LPC/CN=Emmanuel Medernach"
  --resourceid monargus.in2p3.fr --actionid all
```

```
Decision: Indeterminate
```

```
Status: urn:oasis:names:tc:xacml:1.0:status:processing-error
```

Conclusion

▶ Liens:

▶ Argus:

<https://twiki.cern.ch/twiki/bin/view/EGEE/AuthorizationFramework>

▶ Glexec avec Argus:

▶ http://glite.web.cern.ch/glite/packages/R3.2/sl5_x86_64/deployment/glite-GLEXEC_wn/glite-GLEXEC_wn.asp

▶ Mailing Listes

▶ project-egEE-authz-service@cern.ch

▶ argus-support@cern.ch