

Grid Computing

Práctica 1: gLite Security

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12.06.2012

- Ejecutar una UI.
- Instalar Certificados.
- Generar, chequear y destruir un proxy.

- Conectarnos a una UI remota:

```
ssh glite-tutor.ct.infn.it -p 4422  
user: buenosaires#  
passwd GridBUE#
```

- Entrar a la carpeta `.globus`

```
cd .globus
```

- Crear `userkey.pem` (IMPORT PASS = BUENOSAIRES)

```
openssl pkcs12 -nocerts -in CERT.p12 -out userkey.pem
```

- Crear `usercert.pem` (IMPORT PASS = BUENOSAIRES)

```
openssl pkcs12 -clcerts -nokeys -in CERT.p12 -out usercert.pem
```

- Cambiando los permisos

```
chmod 400 userkey.pem
```

```
chmod 644 usercert.pem
```

Chequeando los permisos

```
[franeijo@glite-tutor ~]$ ls -l .globus/  
total 16  
-rw-r--r-- 1 franeijo users 1572 May  1 01:37 usercert.pem  
-r----- 1 franeijo users 1923 May  1 01:37 userkey.pem
```

Chequeando nuestro certificado

```
[franeijo@glite-tutor ~]$ grid-cert-info
```

```
Certificate:
```

```
  Data:
```

```
    Version: 3 (0x2)
```

```
    Serial Number: 4552 (0x11c8)
```

```
    Signature Algorithm: sha1WithRSAEncryption
```

```
    Issuer: C=IT, O=GILDA, CN=GILDA CA
```

```
    Validity
```

```
      Not Before: Apr 30 08:32:59 2011 GMT
```

```
      Not After : Apr 29 08:32:59 2012 GMT
```

```
    Subject: C=IT, O=GILDA, OU=Personal Certificate,
```

```
    L=Universidad de Buenos Aires, CN=Juan Francisco Garcia Eijo
```

```
    Subject Public Key Info:
```

```
      Public Key Algorithm: rsaEncryption
```

```
      RSA Public Key: (2048 bit)
```

```
        Modulus (2048 bit):
```

```
        ....
```

```
        ....
```

```
        ....
```

Creando nuestro primer proxy

```
[franeijo@glite-tutor ~]$ voms-proxy-init --voms gilda
Enter GRID pass phrase:
Your identity: /C=IT/O=GILDA/OU=Personal Certificate/
L=Universidad de Buenos Aires/CN=Juan Francisco Garcia Eijo
Creating temporary proxy ..... Done
Contacting voms.ct.infn.it:15001 [/C=IT/O=INFN/OU=Host/L=Catania/
CN=voms.ct.infn.it] "gilda" Done
Creating proxy ..... Done
Your proxy is valid until Mon May  2 13:27:43 2011
```

Chequeando nuestro primer proxy

```
[franeijo@glite-tutor ~]$ voms-proxy-info --all
subject   : /C=IT/O=GILDA/OU=Personal Certificate/
L=Universidad de Buenos Aires/CN=Juan Francisco Garcia Eijo/CN=proxy
issuer    : /C=IT/O=GILDA/OU=Personal Certificate/
L=Universidad de Buenos Aires/CN=Juan Francisco Garcia Eijo
identity  : /C=IT/O=GILDA/OU=Personal Certificate/
L=Universidad de Buenos Aires/CN=Juan Francisco Garcia Eijo
type      : proxy
strength  : 1024 bits
path      : /tmp/x509up_u9683
timeleft  : 11:58:34
=== VO gilda extension information ===
VO        : gilda
subject   : /C=IT/O=GILDA/OU=Personal Certificate/
L=Universidad de Buenos Aires/CN=Juan Francisco Garcia Eijo
issuer    : /C=IT/O=INFN/OU=Host/L=Catania/CN=voms.ct.infn.it
attribute : /gilda/Role=NULL/Capability=NULL
timeleft  : 11:58:34
uri       : voms.ct.infn.it:15001
```


Destruyendo el proxy

```
[franeijo@glite-tutor ~]$ voms-proxy-destroy
```

Preguntas