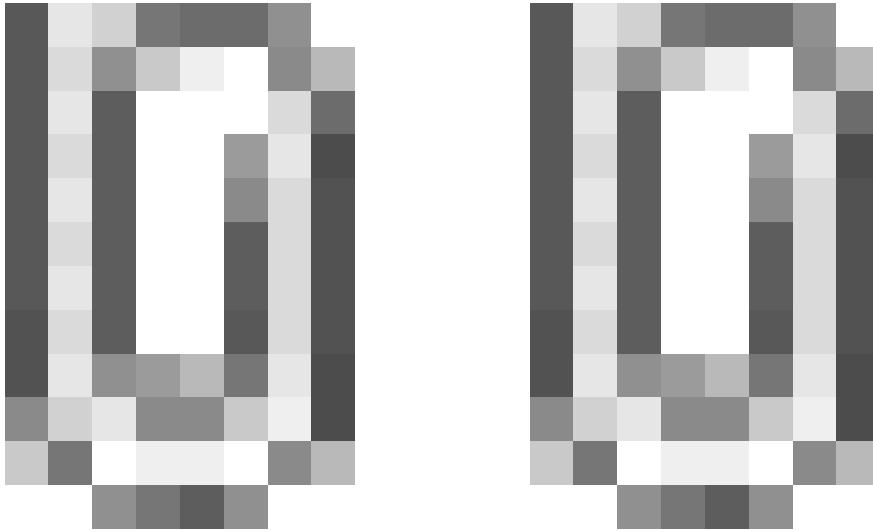


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What is esgf-getCredentials?

A tool to retrieve user credentials from ESGF. It have one graphic interface and another command line interface.



Getting started

Pre-requisites

JDK or OpenJDK 6 and upper versions

Download

Download the jar -> [getESGFCredentials-0.1.jar](#) 476.4 KB new

[Other versions..](#)

Command line UI Guide

1. Command line help

```
$ java -jar getESGFCredentials-0.0.2.jar --help
esgf-getcredentials.

Usage:
esgf-getcredentials
esgf-getcredentials (-o <openid> | --openid <openid>) [options]
esgf-getcredentials (-h | --help)
esgf-getcredentials --version
Options:
-o <openid> --openid <openid>  OpenID endpoint from where myproxy information can be gathered.
-p --password <password>      OpenID passphrase.
--output <path>                Path of folder where the retrieved certificates will be stored[default: /home/terryk/.esgf]
-w --writeall                   Generate all credentials files. The files generated are the same files generated with openid
-b --bootstrap                  To bootstrapping certificates in myproxy service.
--credentials                   Write user certificate and private key in pem format.
--cacertspem                    Write trust CA certificates in pem format.
--cacertsjks                     Write trust CA certificates in JKS keystore format.
--cacerts                        Write trust CA certificates in a folder.
--keystorejks                    Write JKS keystore file. This keystore contains certificate, certificate chain and private key.
--keystorejceks                  Write JCEKS keystore file. This keystore contains certificate, certificate chain and private key.
```

```
-d --debug           Turn debugging info on.
-h --help           Show this screen.
--version           Show version.
```

1. ESGF WGET Script case

```
java -jar getESGFCredentials-0.0.2.jar -o <openid> -p <password> --credentials --cacerts --cacertsjks
```

1. ESGF WGET Script case (GNU TLS)

```
java -jar getESGFCredentials-0.0.2.jar -o <openid> -p <password> --credentials --cacertspem --cacertsjks
```

1. ToolsUI case

```
java -jar getESGFCredentials-0.0.2.jar -o <openid> -p <password> --keystorejks --cacertsjks
```

1. Aria2 case

```
java -jar getESGFCredentials-0.0.2.jar -o <openid> -p <password> --credentials --cacertspem
```

1. ESGFToolsUI case

```
java -jar getESGFCredentials-0.0.2.jar -o <openid> -p <password> --credentials
```

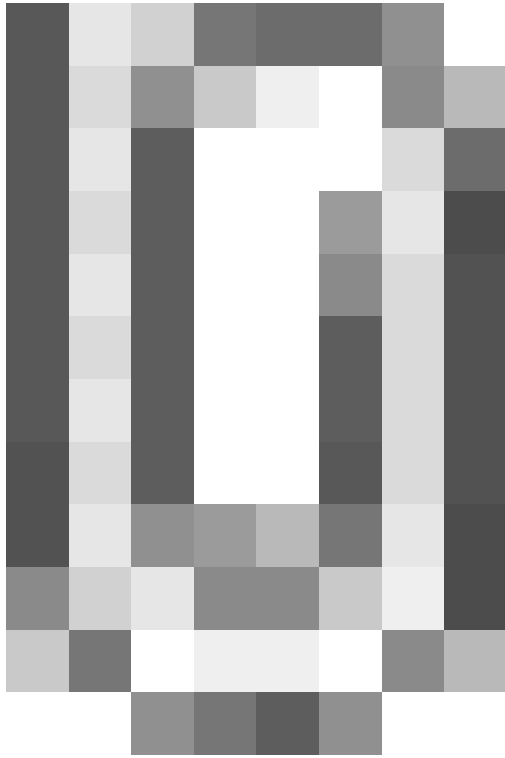
1. NETCDF DAP case

```
java -jar getESGFCredentials-0.0.2.jar -o <openid> -p <password> --credentials --cacerts --cacertspem --output <path>
```

Graphic UI Guide

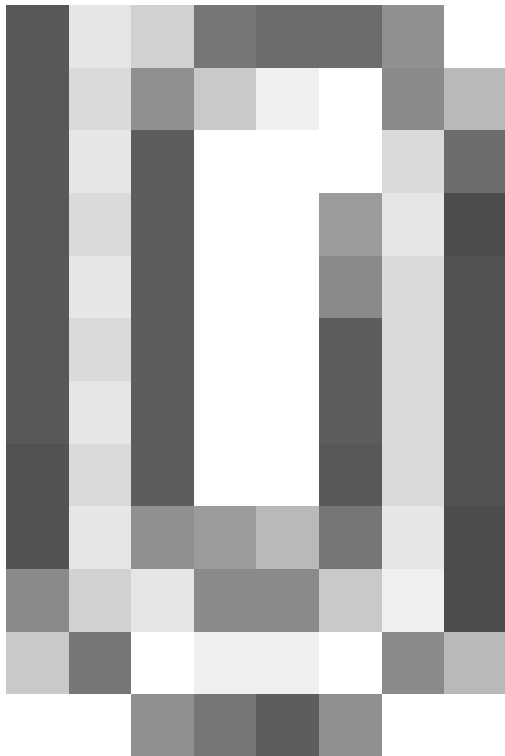
- In Windows:
 - Open getESGFCredentials-0.0.2.jar
- In Linux
 - In shell:

```
java -jar getESGFCredentials-0.0.2.jar
```

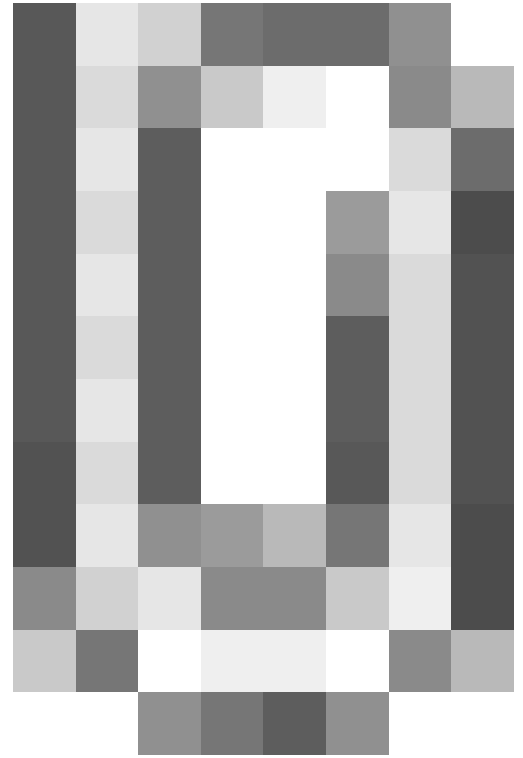
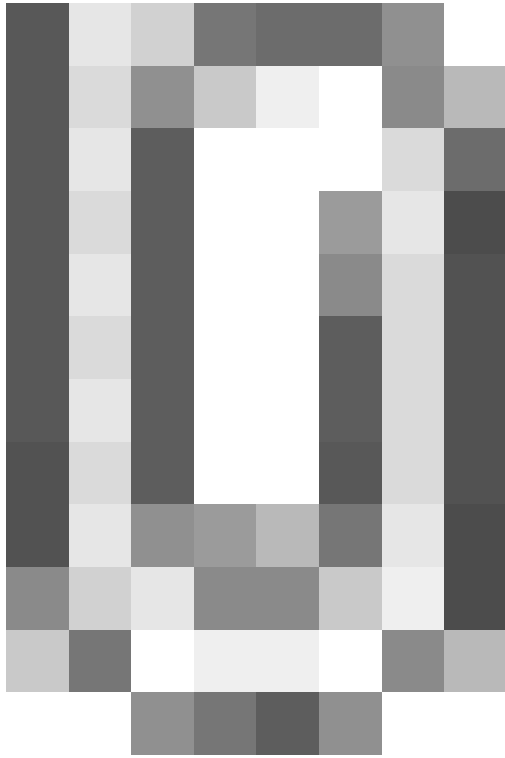


Setting user

You can select your IdP provider in the top drop-down list



If your IdP provider isn't in the list of providers. Select "Custom OpenID URL", with this option the GUI interface change to be able write OpenID URL's [BR?](#)



Setting output files

You can select in "Generate" section what output files will be generated in the output folder.

credentials.pem	It's a pem file that contains the x509 user certificate and the RSA private key
keystore (JKS type)	It's a keystore in format JKS which is build with x509 certificates, RSA keys and CA's certificates
keystore (JCEKS type)	It's a keystore in format JCEKS which is build with x509 certificates, RSA keys and CA's certificates
esgf-truststore	It's a keystore in format JKS which is build with CA's certificates
certificates	It's a directory with CA's certificate files and policy files
ca-certs.pem	It's a pem file with all CA's certificates

Advanced options

1. You can `bootstrap` the certificates. For that, select the check box "bootstrap certificates" in "Select Lib" section
1. You can change the output folder. The default is `$USER_HOME/.esg`



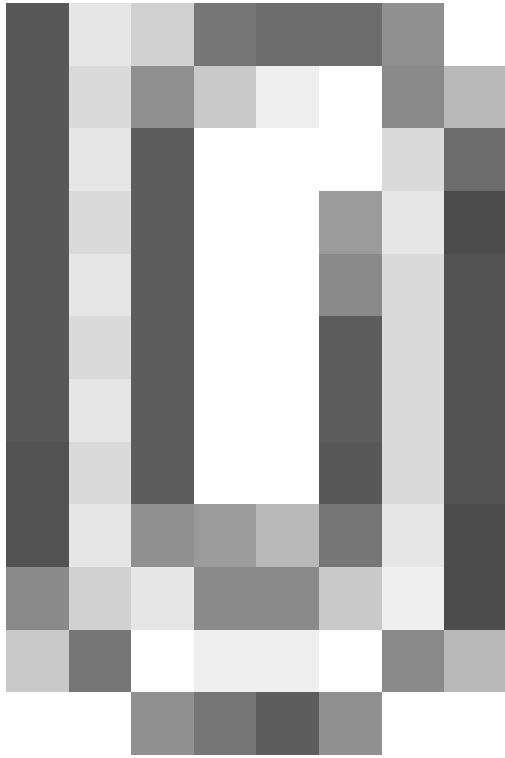
1. You can download a multilib myproxy version to select it in the "Select Lib" section

- MyProxyLogon lib v1.0
- MyProxy lib v2.0.6

MultiLib jar -> [getESGFCredentialsMultLib-0.1.jar](#) 2.3 MB new

Retrieve credentials

Click on "retrieve credentials" button. If all goes well a success message is shown. However, if some error happens then the error is showed in the box bellow



Developers Guide

Github

[?https://github.com/SantanderMetGroup/esgf-getcredentials](https://github.com/SantanderMetGroup/esgf-getcredentials)

Architecture