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CMS WebDAV protocol: Installation and Testing

Installation (for admins)

WebDAV is supported by different storage systems. Please follow links to get instructions for WebDAV installation according to your storage system:

- **XRootD** [\geq v4.10.0] CMS WebDAV/TPC setup instructions
- **dCache** [\geq v5.2] WLCG DOMA WebDAV/TPC config instructions
- **DPM** [\geq v1.14] WLCG DOMA WebDAV/TPC config information, WLCG DPM upgrade task force
- **EOS** [\geq v4.6.8] WebDAV/TPC config instructions [↗](#)
- **StoRM** [\geq v1.3.1] WebDAV/TPC installation and configuration instructions [↗](#)
- **ECHO** (and probably other CEPH based storage) [xrootd \geq v5.1]

Once installed and configured, you can test by yourself the new endpoint with the following instructions.

Testing (for admins)

In the following we list 7 commands that should be used to progressively test the capabilities of a WebDAV endpoint.

N.B. in all cases `--cacert` and `-E` should point to a file with an X509 proxy with cms attribute. Also, please make sure you have read/write permissions on the endpoint and path you are attempting to use

1. Testing that the endpoint supports https access

1.1 Write

```
curl -v -L --capath /etc/grid-security/certificates/ -H 'X-No-Delegate:true' -H 'Credential: none'
```

1.2 Read

```
curl -v -L --capath /etc/grid-security/certificates/ -H 'X-No-Delegate:true' -H 'Credential: none'
```

1.3 Third Party Copy (TPC)

```
curl -v -L --capath /etc/grid-security/certificates/ -H X-No-Delegate:true -H Credential: none'
```

2. Testing that the endpoint supports tokens

2.1 Request and decode a Token

```
curl -L --capath /etc/grid-security/certificates/ -H X-No-Delegate:true -H Credential: none'
```

Depending on the token format returned you can use one of the following tools to decode the token:

Scitokens are composed of 3 strings separated by dots. To decode paste the token in the `encoded` box in the following link: <https://demo.scitokens.org/> [↗](#)

Example of a scitoken:

```
eyJhbGciOiJIaZiI1NiJ9.eyJhdWQiOiJodHRwczpcL1wvMC4wLjAuMDo4NDQzIiwic3ViIjoiajoiREM9Y2gsREM9Y2VybixPVT1Pc
```

Macaroons are a single string to decode paste the macaroon in the [Verify - Input macaroon](#) section of the following link: <http://macaroons.io/>

```
MDAxOGxvY2F0aW9uIFQyX1VTX1VDU0QKMDAzNGlkZW50aWZpZXIgcNzUyOGE3OGUtZWm1MC00NGU4LThjYjQtNmM3YTZlNzEzEzZ
```

2.2 Write with a token

```
curl -v -L --capath /etc/grid-security/certificates/ -H X-No-Delegate:true -H Credential: none
```

2.3 Read with a token

```
curl -L --capath /etc/grid-security/certificates/ -H X-No-Delegate:true -H Credential: none
```

2.4 Third Party Transfer with a token

```
curl -v -L --capath /etc/grid-security/certificates/ -H X-No-Delegate:true -H Credential: none
```

References

1. Set Rucio from Gitlab

<https://github.com/dmwm/CMSRucio/blob/master/docker/CMSRucioClient/scripts/setRucioFromGitlab>

1. Diego Davila's fork: https://github.com/ddavila0/CMSRucio/tree/add_webDAV

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