dCache and macaroons

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dCache Workshop 2017 at Umeå, Sweden
2017-05-29
Go To Browser

https://prometheus.desy.de/
Can’t upload files without authentication

curl -L -T \\n~/Downloads/mountain.jpg \\nhttps://prometheus.desy.de/Users/anupam/Private/

HTTP/1.1 401 UNAUTHORIZED
Upload with X509

curl -E /tmp/x509up_u501 \
-L -T ~/Downloads/mountain.jpg \
https://prometheus.desy.de/Users/anupam/Private/

% Total  % Received  % Xferd  Average Speed   Time    Time  Time    Time     Current
Dload  Upload  Total   Spent    Left  Speed
0      0       0       0       0      0  --:--:--  --:--:--  --:--:--  --:--:--  0
100 366k  100 366k    0    0   424k      0  --:--:--  --:--:--  --:--:--  --:--:--  1239k
Delete with X509

curl -s -E /tmp/x509up_u501 \n-X DELETE \nhttps://prometheus.desy.de/Users/anupam/Private/mountain.jpg
Get an unrestricted macaroon

curl -E /tmp/x509up_u501 \\n> -X POST https://prometheus.desy.de/ \\n> -H "Content-Type: application/macaroon-request"

{
  "macaroon": "MDAwZmxvY2F0aW",
  "uri": {
    "targetWithMacaroon": "https://prometheus.desy.de/?authz=MDAwZmxvY2F0aW",
    "baseWithMacaroon": "https://prometheus.desy.de/?authz=MDAwZmxvY2F0aW",
    "target": "https://prometheus.desy.de/",
    "base": "https://prometheus.desy.de/"
  }
}

http://macaroons.io
Delete the file

curl -H "Authorization: Bearer "$MACAROON\n-X DELETE
https://prometheus.desy.de/Users/anupam/Private/mountain.jpg
Check if file exists

curl -H "Authorization: Bearer "$MACAROON \
-L https://prometheus.desy.de/Users/anupam/Private/mountain.jpg -v \
-o /dev/null
Get a macaroon with caveats

curl -E /tmp/x509up_u501 \
-X POST https://prometheus.desy.de/Users/anupam/Private/ \
-H "Content-Type: application/macaroon-request" \
-d '{ "caveats": [ "activity:DOWNLOAD,LIST,READ_METADATA" ], "validity": "PT5M"}'
Get a macaroon with caveats

curl -H "Authorization: Bearer "$MACAROON\n-L -T ~/Downloads/mountain.jpg \nhttps://prometheus.desy.de/Users/anupam/Private/