

dCache and macaroons

Anupam Ashish, on behalf of the dCache team

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Go To Browser

<https://prometheus.desy.de/>

Can't upload files without authentication

```
curl -L -T \  
~/Downloads/mountain.jpg \  
https://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	Current
			Dload	Upload	Total	Spent	Left	Speed
0	0	0	0	0	--:--:--	--:--:--	--:--:--	0
100	366k	100	366k	0	424k	0	--:--:--	1239k

Delete with X509

```
curl -s -E /tmp/x509up_u501 \
```

```
-X DELETE \
```

```
https://prometheus.desy.de/Users/anupam/Private/mountain.jpg
```



Get an unrestricted macaroon

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