

# Eksempler på TLS test applikationer

Siden giver eksempler på hvordan du kan benytte certifikater på Datafordeleren.



Siden indeholder ældre eksempler, som ikke er opdateret til de nye OCES3 certifikater.

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## Sideinformation

|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
| Oprindelig kilde | WorkZone - 1442-0424                                                              |
| Forfatter        | KMD                                                                               |
| Oprettet         | Mar 18, 2019                                                                      |
| Version          | 1.0                                                                               |
| Ændret           | Feb 27, 2024                                                                      |
| Sidehistorik     | <ul style="list-style-type: none"><li>• <a href="#">Se sidehistorik</a></li></ul> |

## .NET

### Client auth SSL

Eksemplet er oprettet for at vise Direct SSL klient certifikat autorisation på Datafordeleren.

#### Fremgangsmåde

- Kopier et FOCES eller VOCES service user keystore til /App\_Data/ folder
- Skab en reference til filen og din adgangskode, mens du kører DataDistributor . Switchboard.Authorization.CertTest.exe
- Skift url'en til den tjeneste på Datafordeleren, som du ønsker at benytte

Status code: OK

Response Content-Type: application/json; charset=UTF8

#### Eksempel på output

```
{
  "datafordelerOpdateringstid": "2016-10-07T19:27:59.802+02:00",
  "adgangsadressebetegnelse": "Spaden C 2, Høje Taastrup, 2630 Taastrup",
  "afstemningsområde": {
    "id": "1566156",
    "afstemningsområdenummer": "06",
    "navn": "Gadehaveskolen"
  },
  "forretningshændelse": "3",
  "forretningsområde": "54.15.10.07",
  "forretningsproces": "0",
  "geoDanmarkBygning": "1005307686",
  "husnummerretning": "POINT(0.946085358827545 -0.32391741819815)",
  "husnummertekst": "2",
  "id_lokalId": "0a3f507d-1a3d-32b8-e044-0003ba298018",
  "id_namespace": "http://data.gov.dk/dar/husnummer",
  "jordstykke": "402274",
  "kommuneinddeling": {
    "id": "389114",
    "kommunekode": "0169",
    "navn": "Høje Taastrup"
  }
},
```

```

"menighedsrådsafstemningsområde": {
  "id": "1700977",
  "mrafstemningsområdenummer": "1",
  "navn": "Høje Taastrup"
},
"registreringFra": "2016-07-08T17:10:50+02:00",
"registreringsaktør": "DAR",
"sogneinddeling": {
  "id": "107659",
  "sognekode": "7152",
  "navn": "Høje Taastrup"
},
"status": "3",
"vejmidte": "1006309113",
"virkningFra": "2016-09-16T12:34:43+02:00",
"virkningsaktør": "Konvertering2017",
"navngivenVej": {
  "datafordelerOpdateringstid": "2016-10-07T20:23:50.386+02:
00",
  "administreresAfKommune": "0169",
  "forretningshændelse": "0",
  "forretningsområde": "54.15.10.06",
  "forretningsproces": "0",
  "id_lokalId": "55595d06-fac1-4a07-b7e8-7365fe9428cc",
  "id_namespace": "http://data.gov.dk/dar/navngivenvej",
  "registreringFra": "2016-07-08T17:10:50+02:00",
  "registreringsaktør": "DAR",
  "status": "3",
  "udtaltVejnavn": "Spaden C",
  "vejadresseringsnavn": "Spaden C",
  "vejnavn": "Spaden C",
  "vejnavnebeliggenhed_oprindelse_kilde": "Ekstern",
  "vejnavnebeliggenhed_oprindelse_nøjagtighedsklasse": "B",
  "vejnavnebeliggenhed_oprindelse_registrering": "2016-09-
01T18:20:58.068+02:00",
  "vejnavnebeliggenhed_oprindelse_tekniskStandard": "N0",
  "vejnavnebeliggenhed_vejnavneområde": "POLYGON((706160.12
6172245.95,706186.79 6172080.73,706152.796674
6172075.24276,706126.126674 6172240.46276,706160.12 6172245.95))",
  "virkningFra": "1900-01-01T13:00:00+01:00",
  "virkningsaktør": "Konvertering2017SDFE",
  "navngivenVejKommunedelList": [
    {
      "id_lokalId": "a07f8a98-6f7e-11e6-a528-063320a53a26",
      "navngivenVejKommunedel": {
        "datafordelerOpdateringstid": "2016-10-07T20:24:18.076
+02:00",
        "forretningshændelse": "1",
        "forretningsområde": "54.15.10.06",
        "forretningsproces": "0",
        "id_lokalId": "a07f8a98-6f7e-11e6-a528-063320a53a26",
        "id_namespace": "http://data.gov.dk/dar
/navngivenvejkommunedel",
        "kommune": "0169",
        "navngivenVej": "55595d06-fac1-4a07-b7e8-7365fe9428cc",
        "registreringFra": "2016-07-08T17:10:50+02:00",
        "registreringsaktør": "DAR",
        "status": "3",
        "vejkode": "7428",
        "virkningFra": "1900-01-01T13:00:00+01:00",
        "virkningsaktør": "Konvertering2017SDFE"
      }
    }
  ]
},
"adgangspunkt": {
  "datafordelerOpdateringstid": "2016-10-07T17:45:04.681+02:
00",
  "oprindelse_kilde": "Ekstern",
  "oprindelse_nøjagtighedsklasse": "A",
  "oprindelse_registrering": "2014-11-28T13:14:48.957+01:00",
  "oprindelse_tekniskStandard": "TK",
  "position": "POINT(706176.77 6172114.13)"
},
"vejpunkt": {
  "datafordelerOpdateringstid": "2016-10-07T19:07:13.562+02:
00",
  "oprindelse_kilde": "Ekstern",
  "oprindelse_nøjagtighedsklasse": "B",
  "oprindelse_registrering": "2016-09-01T18:22:45.177+02:00",

```

```

        "oprindelse_tekniskStandard": "V2",
        "position": "POINT(706163.08 6172175.47)"
    },
    "supplerendeBynavn": {
        "datafordelerOpdateringstid": "2016-10-07T20:28:02.261+02:
00",
        "forretningshændelse": "5",
        "forretningsområde": "54.15.10.25",
        "forretningsproces": "0",
        "id_lokalId": "a684854a-3f14-438e-a763-9841ee1f12ad",
        "id_namespace": "http://data.gov.dk/dar/supplerendebynavn",
        "navn": "Høje Taastrup",
        "registreringFra": "2016-07-08T17:10:50+02:00",
        "registreringsaktør": "DAR",
        "status": "3",
        "supplerendeBynavn": "1647901",
        "virkningFra": "1753-01-01T01:00:00+01:00",
        "virkningsaktør": "Konvertering2017"
    }
}
}

```

## Zip-fil med eksempel

[dotnet\\_client auth SSL.zip](#)

## SAML2 token auth

Eksemplet er oprettet for at vise SAML2 token autorisation på Datafordeleren.

Fremgangsmåde

- Kopier et FOCES eller VOCES service user keystore til /App\_Data/ folder
- Skab en reference til filen og din adgangskode i Script.bat filen
- Skift url'en til den tjeneste på Datafordeleren, som du ønsker at benytte, i Script.bat filen
- Kør Script.bat filen og tjek resultatet i result.txt

### Eksempel på output

```

BEGIN
Acquire saml with certificate auth token attempt
Configured certificatepath: C:\somedir\AppData\FOCES_gyldig.p12
Elapsed time in miliseconds: 769
SAML token:
PEFzc2VydGlvbiBJRD0iX2UzYzMyYTU2LTVkMzEtNDM1ZC05NTdkLTE1YzA5NTcyYzY
2MyIgsXNzdWVJbnN0YW50PSIyMDE5LTExLTU5VDEyOjE2OjQxLjAyMVoiIFZlcnNpb2
49IjIuMCigeG1sbnM9InVybjpvYXNpczpuYW1lc3p0YzptQU1M0jIuMDphc3NlcnRpb
24iPjxJc3N1ZXI+aHR0cHM6Ly9zYW1sLnFhdWEta21kLmNsb3VkYXBwLm5ldC9hZGZz
L3NlcnZpY2VzL3RydXN0PC9Jc3N1ZXI+PGRzO1NpZ25hdHVyZSB4bWxuczkpcz0iaHR
0cDovL3d3dy53My5vcmcvMjAwMC8wOS94bWxkc2lnIyI+PGRzO1NpZ25lZEluZm8+PG
RzOkNhbm9uawNhbgG1YXRpb25NZXRpb2QgQWxnb3JpdGhtPSJodHRwOi8vd3d3LnczL
m9yZy8yMDAxLzEwL3htbC1leGMyYzE0biMiIC8+PGRzO1NpZ25hdHVyZU1ldGhvZCBB
bGdvcml0aG09Imh0dHA6Ly93d3cudzMub3JnLzIwMDEvMDQveG1sZHNpZy1tb3JlI3J
zYS1zaGEyNTYiIC8+PGRzO1JlZmVvZW5jZSBVUkk9IiNfZTNjZmFhNTYtNWQzMS00Mz
VklTk1N2QtMTVjMDk1NzJjNjYzIj48ZHM6VHJhbnNmb3Jtcz48ZHM6VHJhbnNmb3JtI
EFsZ29yaXRobT0iaHR0cDovL3d3dy53My5vcmcvMjAwMC8wOS94bWxkc2lnI2VudmVs
b3BlZC1zaWduYXR1cmUiIC8+PGRzO1RyYW5zZm9yYyBBbGdvcml0aG09Imh0dHA6Ly9
3d3cudzMub3JnLzIwMDEvMTAveG1sLWV4Yy1jMTRuIyIgLz48L2RzO1RyYW5zZm9yYy
M+PGRzOkRpZ2VzdE1ldGhvZCBBbGdvcml0aG09Imh0dHA6Ly93d3cudzMub3JnLzIwM
DEvMDQveG1sZHNpZy1tb3JlI3JzYS1zaGEyNTYiIC8+PGRzO1RyYW5zZm9yYyBBbGdvc
m10aG09Imh0dHA6Ly93d3cudzMub3JnLzIwMDEvMTAveG1sLWV4Yy1jMTRuIyIgLz48
L2RzO1RyYW5zZm9yYyBBbGdvcml0aG09Imh0dHA6Ly93d3cudzMub3JnLzIwMDEvMTA
veG1sLWV4Yy1jMTRuIyIgLz48L2RzO1RyYW5zZm9yYyBBbGdvcml0aG09Imh0dHA6Ly
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9yYyBBbGdvcml0aG09Imh0dHA6Ly93d3cudzMub3JnLzIwMDEvMTAveG1sLWV4Yy1jMT
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0dHA6Ly93d3cudzMub3JnLzIwMDEvMTAveG1sLWV4Yy1jMTRuIyIgLz48L2RzO1RyYW5z
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MTRuIyIgLz48L2RzO1RyYW5zZm9yYyBBbGdvcml0aG09Imh0dHA6Ly93d3cudzMub3JnL
zIwMDEvMTAveG1sLWV4Yy1jMTRuIyIgLz48L2RzO1RyYW5zZm9yYyBBbGdvcml0aG09I
mh0dHA6Ly93d3cudzMub3JnLzIwMDEvMTAveG1sLWV4Yy1jMTRuIyIgLz48L2RzO1RyY
W5zZm9yYyBBbGdvcml0aG09Imh0dHA6Ly93d3cudzMub3JnLzIwMDEvMTAveG1sLWV4Y
y1jMTRuIyIgLz48L2RzO1RyYW5zZm9yYyBBbGdvcml0aG09Imh0dHA6Ly93d3cudzMub
3JnLzIwMDEvMTAveG1sLWV4Yy1jMTRuIyIgLz48L2RzO1RyYW5zZm9yYyBBbGdvcml0a
G09Imh0dHA6Ly93d3cudzMub3JnLzIwMDEvMTAveG1sLWV4Yy1jMTRuIyIgLz48L2RzO
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WV4Yy1jMTRuIyIgLz48L2RzO1RyYW5zZm9yYyBBbGdvcml0aG09Imh0dHA6Ly93d3cud
zMub3JnLzIwMDEvMTAveG1sLWV4Yy1jMTRuIyIgLz48L2RzO1RyYW5zZm9yYyBBbGdvc
ml0aG09Imh0dHA6Ly93d3cudzMub3JnLzIwMDEvMTAveG1sLWV4Yy1jMTRuIyIgLz48L
2RzO1RyYW5zZm9yYyBBbGdvcml0aG09Imh0dHA6Ly93d3cudzMub3JnLzIwMDEvMTAve
G1sLWV4Yy1jMTRuIyIgLz48L2RzO1RyYW5zZm9yYyBBbGdvcml0aG09Imh0dHA6Ly93d
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Gdvcml0aG09Imh0dHA6Ly93d3cudzMub3JnLzIwMDEvMTAveG1sLWV4Yy1jMTRuIyIgL
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y93d3cudzMub3JnLzIwMDEvMTAveG1sLWV4Yy1jMTRuIyIgLz48L2RzO1RyYW5zZm9yYy
BBbGdvcml0aG09Imh0dHA6Ly93d3cudzMub3JnLzIwMDEvMTAveG1sLWV4Yy1jMTRuIy
IgLz48L2RzO1RyYW5zZm9yYyBBbGdvcml0aG09Imh0dHA6Ly93d3cudzMub3JnLzIwMD
E1UGNhbnNmb3Jtcz48ZHM6VHJhbnNmb3JtI

```

```
WkycnV5d1dLwTK0vUcLTlAyenNxVgHCv1VCMHVXays5ZDcvcZGxYwE9GwLNza0x0d0lZ
V0xYOC80ZUdxSXVtME5BWCswZEt1MGxVMU8wWDVl3Z1Z099xGvNPt08L2Rz01NpZ25
hdHvyZVzhbHv1PjxLZX1JbmZvIHhtbG5zPSJ0dHRw0i8vd3D3LnczLm9yZy8yMDAwLw
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XpdQ0JQdwdBd0lCQwdJRvdsDwJ0VEFOQmdrcWhraUc5dzBCQVZfZkFEQk1NUXN3Q1FZ
RFZRUudFd0pFU3pFU01CQudBMVVFQ2d3S1ZGS1ZVMVF5tKRBNE1TVXdJd1lEVlFRREr
CeFVVbFZUvKRJME1E2d4VM26ZEdwddGRHVnpkQ0JZV0VsSkfLTkJNQjJRYFRFNE1ESX
hOREExtTWNMU0xb1HEVZ1XURJE5EQqTfNak16TjFvd226RUwNQWtHbQ7FVRUJoJUNSR
XN4SURBZUJnTlZCQW9NRjB0TlJDQkJMMU1nThK4Z1ExWlNPakkyT1RfE56UTFNVTR3
SUFZRFZRUUZFeGxEmxJNk1qWTVNVEUzTkrVdFJrBdEVPAm4T0RJMU5qVXdNQ29HQTF
VRUF32dpSRVF1UkdWmMk1ERXVRV1JtY3lB1bpuVnVhM1JwYj1e1elkyVnlkR2xtYvd0aG
RDA3htbGRzawJc1j48Zhm6Wdu0URhdGe+PGRz01g1MD1DZJ0awZpY7F0ZT5NSU1HR
1E0ZHVCcTrwRTVCdFB2Yk1JRdZFNGLiMFRZTk1ZRTREM2VSWXNRnlkTml1YXBsL05S
Q1N4MXlNMUpTck11YThmOU9CNkfJr0NRsKerWVUXMzYvc1VJYisvamM3Qm45ZjnuU0N
iZTNBR1QvZnhx3FVVnQ4VkrRZRHJRFBqeU54MXBmM09kUw5VzGxrD1Z1ZwZTNBXRZ
UwK0k1UXV0NGEzAhUbLJGQkJpS0l62b2Tr1Evb1l2wVp6YnQzRwk0S5W1NHPbjhtD
k0M5RVZJnQnpZL1ZSHbvd1Y5C6G1022huV1lWm5uS0NyxYBHWmszanN1Z1ZVE9jN3JC
YytDR1Bhb1R6VXNlcZn4Nis1Tx1rMgDFVXp1nVhoUEPMU2xRRmtqWmpsdys3dmM0c3h
Eaw95bXRRKR1ESnFwdWR0duTs0XQ9rxeZ23Vm9qVUxyZEKvDdBZ01CQVfHamdnTE1NSU
1URBRT0JnTlZIUThCQW4RUJJBZTUNBN2d3M1pJ0Ndc0dBuVVGQndFQk1JR0tNSUdIT
DE3R0ND0cdBUVVQnpqBmqhmq9k5FJ3T2k4dz1YtTnpjQZV6ZVhOMfPMXTBawE4WtWpJ
dwrISjFjM1F5tKRBNExtTnZiUz15w1h0d2IynWtaWE13UndZSut3WUJCUVVITUFLR08
yaDbKSEZ2Htk5buxTrnBZUzV6ZVhOMfPMXTBawE4WtWpJdwrISjFjM1F5tKRBNExtTn
ZiUz16ZEH0MfPMXTBawE4WtWpJdFkyRXVZM1Z5TU1JQk1BWURWUjBnQk1JQkZ6Q0NBu
k132ZdFUEJnHMJCWNBVqW1IMFVRVSUdZ1FDUT1I0U1DQEdDQ3JGQVfVRK1J3SU3GaU5
ZEhSd09pOHZkM2QzTG5SewRYTjBna1F3T0M1amIymHZjbvZ3YjN0cGRHOX1LVNCEvF
ZSut3WUJCUVVIIQwdJd2d1d3DEQ1L1GUKdGdVNVUXdbd01CQV3xQnEwUmhia2xFSuH5bG
MZuWdZM1Z5EufsbwVdGhkhrZ5DUdaev1LTQmtavZv1NMCRFFtjFasE4w1d5bSGN5Q
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aUJFWvc1S1JDQjBawE4WsdUObGnuUnBabwxqWvHsbGn5Qm1jbt10SUhSb2FYTWdRMEV
nWvhKbEL1hbhpjM1ZSwkNCMWjUmXjaUJQU1VRZ01TNHPMall1TVY0MEXqRXVnEkV6TV
R9pU1pNDBMall1TkM0eUxQ0JyQjVlE1IwZkJJR2tNSDUtYVQZ08Q2TVoaamZrEHsD
09pOHZM0pZTG50NNMwUmxiwFJsYzNReUp1ntBz1L6ZERJME1Z5ZVMj1tDN0NNmWz
UmxiwFJsYzNReU1qRXVZM0pZTudDZ1hxQnNmRm93V0RfTE1Ba0dBMVVFQmhnQ1JfC3h
FakFRQmd0VKJbb01DV1JTVLZ0VU1qUXdPREVstUNNR0EXvUVBd3djvKZKV1UXUX10RE
E0SUZ0NWmQmxiwFJsYzNRZ1dGaEPtU0JEUVRFt01Bd0dBMVVFQXd3R1EXsk1Na113S
HdZRFZSMGpCQmd3Rm9BVEZ20JSQm1c3zBPw1ZcDh6tK1BR0FbM0HdIUVE1V1E1V
TJCWJvUGT1B6d0Wymx0TKrLQZkRHYnF1dWdhDUQ21h6bz1JQZBSU1RHOxdR14Wm94MZV
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FWL3Rmek1ETURRaDJVThp5anRUyZVCRJ1dHfCCDE40DVKSjVLK091Tm1o0Gt0RwoyV
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  Access-Control-Allow-Origin: *
  Cache-Control: private
  Date: Fri, 29 Nov 2019 12:16:41 GMT
  Server: datafordeler.dk
  X-Powered-By: datafordeler.dk
  Content-Type: application/json; charset=UTF-8
}
Elapsed time in milliseconds: 550
```

## Zip-fil med eksempel

dotnet SAML2 token auth.zip

# Java

## Client auth SSL

Eksemplet er oprettet for at vise Direct SSL klient certifikat autorisation på Datafordeleren.

Den originale SSL autorisationskode er uarbejdet af Pavan Solapure: <https://github.com/pavansolapure/opencodez-samples/tree/master/2-way-ssl-authentication/ssl-client/src/main/java/com/opencodez>

Dette eksempel er skabt ved at benytte Spring tool suite 4.3.2

## Fremgangsmåde

- Kopier et FOCES eller VOCES service user keystore til /etc/ folder
- Skab en reference til filen og din adgangskode i `SslClientApplication.java` filen
- Skift url'en til den tjeneste på Datafordeleren, som du ønsker at benytte i `HttpClient.java`
- Kør `ClientSSLTest.java` class, som en Spring Boot app eller Java application

```

Eksempler på output

  \ \ / _ _ ' _ _ _ ( _ ) _ _ _ _ \ \ \ \ \
 ( ( ) \ _ | ' _ | ' _ | | ' _ \ _ | \ \ \ \ \
 \ \ _ _ | | _ | | | | | | | ( _ | ) ) ) )
 ' | _ _ | _ _ | | _ | | _ | | \ _ | / / / /
 =====|_|=====|_|_/_/_/_/

:: Spring Boot ::                (v2.1.8.RELEASE)

2019-11-29 13:39:16.508 INFO 1276 --- [main] d.k.c.
datafordeler.tests.ClientSSLTest : Starting ClientSSLTest on
yyyyy with PID 1276 (C:
\repos\java\Workspace1\DatafordelerClientCertExample\target\test-
classes started by xxxxx in C:
\repos\java\Workspace1\DatafordelerClientCertExample)
2019-11-29 13:39:16.510 INFO 1276 --- [main] d.k.c.
datafordeler.tests.ClientSSLTest : No active profile set,
falling back to default profiles: default
2019-11-29 13:39:17.240 INFO 1276 --- [main] d.k.c.
datafordeler.tests.ClientSSLTest : Started ClientSSLTest in
1.212 seconds (JVM running for 1.682)
[{"datafordelerOpdateringstid":"2016-10-07T19:27:59.802000+02:00"},"
adgangsadressebetegnelse":"Spaden C 2, Høje Taastrup, 2630

```

```

      \ \ / _ _ ' _ _ _ ( _ ) _ _ _ \ \ \ \ \
( ( ) \ _ _ | ' _ | ' _ | ' _ \ \ _ \ \ \ \
\ \ / _ _ | _ | | | | | | ( _ | | ) ) ) )
  ' _ | _ | _ _ | _ | | _ | _ \ _ _ / / / /
=====|_|=====|_|_/ / / / /
:: Spring Boot ::                (v2.1.8.RELEASE)

```

```
2019-11-29 13:39:16.508 INFO 1276 --- [main] d.k.c.
datafordeler.tests.ClientSSLTest : Starting ClientSSLTest on
yyyyy with PID 1276 (C:
\repos\java\Workspace1\DatafordelerClientCertExample\target\test-
classes started by xxxxx in C:
\repos\java\Workspace1\DatafordelerClientCertExample)
2019-11-29 13:39:16.510 INFO 1276 --- [main] d.k.c.
datafordeler.tests.ClientSSLTest : No active profile set,
falling back to default profiles: default
2019-11-29 13:39:17.240 INFO 1276 --- [main] d.k.c.
datafordeler.tests.ClientSSLTest : Started ClientSSLTest in
1.212 seconds (JVM running for 1.682)
[{"datafordelerOpdateringstid":"2016-10-07T19:27:59.802000+02:00",
"adgangsadressebetegnelse":"Spaden C 2, Høje Taastrup, 2630
```

```
Taastrup","afstemningsområde":{"id":"1566156","afstemningsområdenummer":"06","navn":"Gadehaveskolen"},"forretningsshændelse":"3","forretningsområde":"54.15.10.07","forretningsproces":"0","geoDanmarkBygning":"1005307686","husnummerretning":"POINT(0.946085358827545 -0.32391741819815)","husnummertekst":"2","id_lokalId":"0a3f507d-1a3d-32b8-e044-0003ba298018","id_namespace":"http://data.gov.dk/dar/husnummer","jordstykke":"402274","kommuneinddeling":{"id":"389114","kommunekode":"0169","navn":"Høje Taastrup"},"menighedsrådsafstemningsområde":{"id":"1700977","mrafstemningsområdenummer":"1","navn":"Høje Taastrup"},"registreringFra":"2016-07-08T17:10:50.000000+02:00","registreringsaktør":"DAR","sogneinddeling":{"id":"107659","sognekode":"7152","navn":"Høje Taastrup"},"status":"3","vejmidte":"1006309113","virkningFra":"2016-09-16T12:34:43.000000+02:00","virkningsaktør":"Konvertering2017","navngivenVej":{"datafordelerOpdateringstid":"2016-10-07T20:23:50.386000+02:00","administreresAfKommune":"0169","forretningshændelse":"0","forretningsområde":"54.15.10.06","forretningsproces":"0","id_lokalId":"55595d06-fac1-4a07-b7e8-7365fe9428cc","id_namespace":"http://data.gov.dk/dar/navngivenvej","registreringFra":"2016-07-08T17:10:50.000000+02:00","registreringsaktør":"DAR","status":"3","udtaltVejnavn":"Spaden C","vejadresseringsnavn":"Spaden C","vejnavn":"Spaden C","vejnavnebeliggenhed_oprindelse_kilde":"Ekstern","vejnavnebeliggenhed_oprindelse_nøjagtighedsklasse":"B","vejnavnebeliggenhed_oprindelse_registrering":"2016-09-01T18:20:58.068000+02:00","vejnavnebeliggenhed_oprindelse_tekniskStandard":"N0","vejnavnebeliggenhed_vejnavneområde":"POLYGON((706160.126172245.95,706186.79 6172080.73,706152.796674 6172075.24276,706126.126674 6172240.46276,706160.12 6172245.95))"},"virkningFra":"1900-01-01T13:00:00.000000+01:00","virkningsaktør":"Konvertering2017SDFE","navngivenVejKommunedelList":[{"id_lokalId":"a07f8a98-6f7e-11e6-a528-063320a53a26","navngivenVejKommunedel":{"datafordelerOpdateringstid":"2016-10-07T20:24:18.076000+02:00","forretningshændelse":"1","forretningsområde":"54.15.10.06","forretningsproces":"0","id_lokalId":"a07f8a98-6f7e-11e6-a528-063320a53a26","id_namespace":"http://data.gov.dk/dar/navngivenvejkommunedel","kommune":"0169","navngivenVej":"55595d06-fac1-4a07-b7e8-7365fe9428cc","registreringFra":"2016-07-08T17:10:50.000000+02:00","registreringsaktør":"DAR","status":"3","vejkode":"7428","virkningFra":"1900-01-01T13:00:00.000000+01:00","virkningsaktør":"Konvertering2017SDFE"}}],"adgangspunkt":{"datafordelerOpdateringstid":"2016-10-07T17:45:04.681000+02:00","oprindelse_kilde":"Ekstern","oprindelse_nøjagtighedsklasse":"A","oprindelse_registrering":"2014-11-28T13:14:48.957000+01:00","oprindelse_tekniskStandard":"TK","position":"POINT(706176.77 6172114.13)"},"vejpunkt":{"datafordelerOpdateringstid":"2016-10-07T19:07:13.562000+02:00","oprindelse_kilde":"Ekstern","oprindelse_nøjagtighedsklasse":"B","oprindelse_registrering":"2016-09-01T18:22:45.177000+02:00","oprindelse_tekniskStandard":"V2","position":"POINT(706163.08 6172175.47)"},"supplerendeBynavn":{"datafordelerOpdateringstid":"2016-10-07T20:28:02.261000+02:00","forretningshændelse":"5","forretningsområde":"54.15.10.25","forretningsproces":"0","id_lokalId":"a684854a-3f14-438e-a763-9841ee1f12ad","id_namespace":"http://data.gov.dk/dar/supplerendebynavn","navn":"Høje Taastrup","registreringFra":"2016-07-08T17:10:50.000000+02:00","registreringsaktør":"DAR","status":"3","supplerendeBynavn":"1647901","virkningFra":"1753-01-01T00:50:00.000000+00:50","virkningsaktør":"Konvertering2017"}}}
```

## Zip-fil med eksempel

[java\\_client auth SSL.zip](#)

## Ubuntu 19

### Client auth SSL

Eksemplet er opprettet for at vise Direct SSL klient sertifikat autorisation på Datafordeleren.

Bemærk, at hvis dit FOCES eller VOCES certifikat er udstedt af en anden OCES certifikatkæde, skal du importere disse certifikater i PEM format og have dem installeret, som beskrevet i nedenstående.

Tjek om du har de korrekte certifikater på `/etc/ssl/certs/`

## Fremgangsmåde

- Placer de følgende PEM certifikater i /etc/ssl/certs/

DigiCert\_SHA2\_Secure\_Server\_CA.pem  
TRUST2408\_OCES\_Primary\_CA.pem  
TRUST2408\_OCES\_CA\_III.pem  
TRUST2408\_OCES\_CA\_IV.pem  
TRUST2408\_OCES\_CA\_V.pem

- Kør `sudo c_rehash` for at tilføje certifikaterne til systemet.
- Kør `openssl s_client -connect datafordeler.dk:443 -cert pub.pem -key priv.key`

Tjek følgende

Er pub.pem (FOCES certifikatet i PEM-format) placeret i den korrekte folder?  
Er priv.key (den private nøgle for FOCES certifikatet i PEM-format) placeret i den korrekte folder?  
Er output er uden fejl og stemmer det overens med nedenstående eksempel?

[illegible]

- Hent data ved at `kørecurl -v --capath /etc/ssl/certs/ --cert pub.pem --key priv.key "https://certservices.datafordeler.dk/DKskaermkort/topo_skaermkort_graa/1.0.0/WMTS?SERVICE=WMTS&REQUEST=GetCapabilities" -o output.xml`

Tjek følgende

Er pub.pem (FOCES certifikatet i PEM-format) placeret i den korrekte folder?  
Er priv.key (den private nøgle for FOCES certifikatet i PEM-format) placeret i den korrekte folder?  
Er output i xml uden fejl og stemmer det overens med nedenstående eksempel?

#### Eksempel på output

```
<?xml version="1.0" encoding="UTF-8"?>

-<Capabilities version="1.0.0" xsi:schemaLocation="http://www.
opengis.net/wmts/1.0 http://schemas.opengis.net/wmts/1.0
/wmtsGetCapabilities_response.xsd" xmlns:gml="http://www.opengis.
net/gml" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xlink="http://www.w3.org/1999/xlink" xmlns:ows="http://www.
opengis.net/ows/1.1" xmlns="http://www.opengis.net/wmts/1.0">

-<ows:ServiceIdentification>

<ows:ServiceType>OGC WMTS</ows:ServiceType>

<ows:ServiceTypeVersion>1.0.0</ows:ServiceTypeVersion>

</ows:ServiceIdentification>

-<ows:ServiceProvider>

-<ows:ServiceContact>

<ows:ContactInfo/>

</ows:ServiceContact>

</ows:ServiceProvider>

-<ows:OperationsMetadata>

-<ows:Operation name="GetCapabilities">

-<ows:DCP>

-<ows:HTTP>

-<ows:Get xlink:href="https://services.datafordeler.dk/DKskaermkort
/topo_skaermkort_graa/1.0.0/Wmts?">

-<ows:Constraint name="GetEncoding">

-<ows:AllowedValues>

<ows:Value>KVP</ows:Value>

</ows:AllowedValues>

</ows:Constraint>

</ows:Get>

</ows:HTTP>

</ows:DCP>

</ows:Operation>

-<ows:Operation name="GetTile">
```

```
-<ows:DCP>

-<ows:HTTP>

-<ows:Get xlink:href="https://services.datafordeler.dk/DKskaermkort
/topo_skaermkort_graa/1.0.0/Wmts?">

-<ows:Constraint name="GetEncoding">

-<ows:AllowedValues>
<ows:Value>KVP</ows:Value>
</ows:AllowedValues>
</ows:Constraint>
</ows:Get>
</ows:HTTP>
</ows:DCP>
</ows:Operation>
</ows:OperationsMetadata>

-<Contents>

-<Layer>
<ows:Title>topo_skaermkort_graa</ows:Title>

-<ows:WGS84BoundingBox>
<ows:LowerCorner>2.478420 53.015000</ows:LowerCorner>
<ows:UpperCorner>17.557800 58.640300</ows:UpperCorner>
</ows:WGS84BoundingBox>
<ows:Identifier>topo_skaermkort_graa</ows:Identifier>

-<Style isDefault="true">
<ows:Identifier>default</ows:Identifier>
</Style>
<Format>image/png</Format>

-<TileMatrixSetLink>
<TileMatrixSet>View1</TileMatrixSet>

-<TileMatrixSetLimits>

-<TileMatrixLimits>
<TileMatrix>View1:0</TileMatrix>
<MinTileRow>0</MinTileRow>
<MaxTileRow>1</MaxTileRow>
<MinTileCol>0</MinTileCol>
<MaxTileCol>2</MaxTileCol>
```

```
</TileMatrixLimits>

-<TileMatrixLimits>

<TileMatrix>View1:1</TileMatrix>

<MinTileRow>0</MinTileRow>

<MaxTileRow>2</MaxTileRow>

<MinTileCol>0</MinTileCol>

<MaxTileCol>4</MaxTileCol>

</TileMatrixLimits>

-<TileMatrixLimits>

<TileMatrix>View1:2</TileMatrix>

<MinTileRow>0</MinTileRow>

<MaxTileRow>5</MaxTileRow>

<MinTileCol>0</MinTileCol>

<MaxTileCol>8</MaxTileCol>

</TileMatrixLimits>

-<TileMatrixLimits>

<TileMatrix>View1:3</TileMatrix>

<MinTileRow>0</MinTileRow>

<MaxTileRow>11</MaxTileRow>

<MinTileCol>0</MinTileCol>

<MaxTileCol>16</MaxTileCol>

</TileMatrixLimits>

-<TileMatrixLimits>

<TileMatrix>View1:4</TileMatrix>

<MinTileRow>0</MinTileRow>

<MaxTileRow>22</MaxTileRow>

<MinTileCol>0</MinTileCol>

<MaxTileCol>33</MaxTileCol>

</TileMatrixLimits>

-<TileMatrixLimits>

<TileMatrix>View1:5</TileMatrix>

<MinTileRow>0</MinTileRow>

<MaxTileRow>45</MaxTileRow>

<MinTileCol>0</MinTileCol>

<MaxTileCol>67</MaxTileCol>

</TileMatrixLimits>

-<TileMatrixLimits>
```

```
<TileMatrix>View1:6</TileMatrix>

<MinTileRow>0</MinTileRow>

<MaxTileRow>91</MaxTileRow>

<MinTileCol>0</MinTileCol>

<MaxTileCol>134</MaxTileCol>

</TileMatrixLimits>

-<TileMatrixLimits>

<TileMatrix>View1:7</TileMatrix>

<MinTileRow>0</MinTileRow>

<MaxTileRow>183</MaxTileRow>

<MinTileCol>0</MinTileCol>

<MaxTileCol>268</MaxTileCol>

</TileMatrixLimits>

-<TileMatrixLimits>

<TileMatrix>View1:8</TileMatrix>

<MinTileRow>0</MinTileRow>

<MaxTileRow>366</MaxTileRow>

<MinTileCol>0</MinTileCol>

<MaxTileCol>537</MaxTileCol>

</TileMatrixLimits>

-<TileMatrixLimits>

<TileMatrix>View1:9</TileMatrix>

<MinTileRow>0</MinTileRow>

<MaxTileRow>732</MaxTileRow>

<MinTileCol>0</MinTileCol>

<MaxTileCol>1074</MaxTileCol>

</TileMatrixLimits>

-<TileMatrixLimits>

<TileMatrix>View1:10</TileMatrix>

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<MaxTileRow>1464</MaxTileRow>

<MinTileCol>0</MinTileCol>

<MaxTileCol>2148</MaxTileCol>

</TileMatrixLimits>

-<TileMatrixLimits>

<TileMatrix>View1:11</TileMatrix>

<MinTileRow>0</MinTileRow>
```

```
<MaxTileRow>2929</MaxTileRow>

<MinTileCol>0</MinTileCol>

<MaxTileCol>4296</MaxTileCol>

</TileMatrixLimits>

-<TileMatrixLimits>

<TileMatrix>View1:12</TileMatrix>

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<MaxTileCol>8593</MaxTileCol>

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-<TileMatrixLimits>

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<MinTileCol>0</MinTileCol>

<MaxTileCol>17187</MaxTileCol>

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-<TileMatrixLimits>

<TileMatrix>View1:14</TileMatrix>

<MinTileRow>0</MinTileRow>

<MaxTileRow>23437</MaxTileRow>

<MinTileCol>0</MinTileCol>

<MaxTileCol>34374</MaxTileCol>

</TileMatrixLimits>

-<TileMatrixLimits>

<TileMatrix>View1:15</TileMatrix>

<MinTileRow>0</MinTileRow>

<MaxTileRow>46874</MaxTileRow>

<MinTileCol>0</MinTileCol>

<MaxTileCol>68749</MaxTileCol>

</TileMatrixLimits>

</TileMatrixSetLimits>

</TileMatrixSetLink>

<ResourceURL template="https://services.datafordeler.dk
/DKskaermkort/topo_skaermkort_graa/1.0.0/Wmts/topo_skaermkort_graa
/default/{TileMatrixSet}/{TileMatrix}/{TileRow}/{TileCol}.png"
resourceType="tile" format="image/png"/>

</Layer>
```

```
-<TileMatrixSet>

<ows:Identifier>View1</ows:Identifier>

-<ows:BoundingBox crs="urn:ogc:def:crs:EPSG:6.3:25832">

<ows:LowerCorner>120000.000000 5900000.000000</ows:LowerCorner>

<ows:UpperCorner>1000000.000000 6500000.000000</ows:UpperCorner>

</ows:BoundingBox>

<ows:SupportedCRS>urn:ogc:def:crs:EPSG:6.3:25832</ows:SupportedCRS>

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<ows:Identifier>0</ows:Identifier>

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<TopLeftCorner>120000.000000 6500000.000000</TopLeftCorner>

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</TileMatrix>

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</TileMatrix>

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</TileMatrix>

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```
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</TileMatrix>

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-<TileMatrix>
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<MatrixHeight>367</MatrixHeight>
</TileMatrix>

-<TileMatrix>
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</TileMatrix>

-<TileMatrix>
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</TileMatrix>

-<TileMatrix>
<ows:Identifier>11</ows:Identifier>
<ScaleDenominator>2857.14285714285733774886</ScaleDenominator>
<TopLeftCorner>120000.000000 6500000.000000</TopLeftCorner>
<TileWidth>256</TileWidth>
<TileHeight>256</TileHeight>
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```

```
</TileMatrix>

-<TileMatrix>

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<MatrixWidth>8594</MatrixWidth>

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</TileMatrix>

-<TileMatrix>

<ows:Identifier>13</ows:Identifier>

<ScaleDenominator>714.28571428571433443722</ScaleDenominator>

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</TileMatrix>

-<TileMatrix>

<ows:Identifier>14</ows:Identifier>

<ScaleDenominator>357.14285714285716721861</ScaleDenominator>

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<TileHeight>256</TileHeight>

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</TileMatrix>

-<TileMatrix>

<ows:Identifier>15</ows:Identifier>

<ScaleDenominator>178.57142857142858360930</ScaleDenominator>

<TopLeftCorner>120000.000000 6500000.000000</TopLeftCorner>

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<TileHeight>256</TileHeight>

<MatrixWidth>68750</MatrixWidth>

<MatrixHeight>46875</MatrixHeight>

</TileMatrix>

</TileMatrixSet>
```

```
</Contents>  
</Capabilities>
```

output.xml

## Zip-fil med eksempel

linux\_client\_auth SSL\_20200611.zip

---