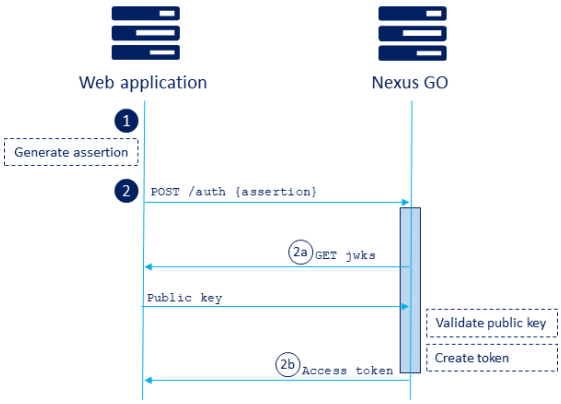
Authenticate to the PDF Signing API

To do any signing operation through the PDF Signing API, you first need to require an access token. This access token is then used to authenticate yourself.

The client generates its own assertion by signing a JSON web token (JWT) that includes the Client ID. Nexus GO validates the assertion cryptographically with the public key specified in the setup, see Set up PDF Signing API in Nexus GO.



Authentication step-by-step

1. Generate an assertion. See below for more information.
2. The web application sends an authentication request to Nexus GO, including an assertion.
    a. Nexus GO fetches the public key of the client and validates the assertion.
    b. Nexus GO creates and returns an access token.
    The access token must then be included in any other API operation, to authenticate the user.

Assertion

The assertion must be in the format of a signed JWT, including the client ID that was used to set up Nexus GO PDF Signing. See Set up PDF Signing API in Nexus GO.

Use these properties:

Properties	Values
sub	Client ID, get this from the configuration in the Nexus GO portal.
kid	Name of the signing key. The matching public key must be available in the JWKS endpoint. See Set up PDF Signing API in Nexus GO.
aud	https://go.nexusgroup.com
iss	Client issuer, can be any value.
iat	Issued at: The time at which the assertion was issued.
exp	Expiration time: The time at which the assertion expires.

Related information

- Set up PDF Signing API in Nexus GO

Links

- JWT standard: RFC 7519

Here is an example of an assertion:

Example: Assertion

```
{
  "typ": "JWT",
  "alg": "RS256",
  "kid": "ClientKeyRsa/53b562fc488e41e086a80aec9f352927"
}
{
  "iss": "https://client.example.com",
  "sub": "dbb442aa-56ca-4082-98e5-9211466f76db",
  "aud": "https://go.nexusgroup.com",
  "iat": 1529912520,
  "exp": 1529916120
}
```

Code example

To get the access token, use the method **`POST /auth`**.

Example: Require access token

```
POST /auth
{
  "assertion":
"eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsImtpZCI6IkNsaWVudEtleVJzYS81M2I1N
jJmYzQ4OGU0MWUwODZhODBhZWM5ZjM1MjkyNyJ9.
eyJpc3MiOiJodHRwczovL2RlbW8ta2V5dmF1bHQtY2xpZW50LmdvLm5leHVzZ3JvdXAuY2
9tIiwic3ViIjoiOWMzY2JmZDQtZjVjNi00MzE5LWI4YjYtNjk2ZTI3YjQ2NjRkIiwiYXVk
IjoibmV4dXNnbyIsImlhdCI6MTUyODM4MTM2MCwiZXhwIjoxNTI4Mzg0NjYwfQ==.
WH+I6L2TL3+wOb/3ximDaPA5Z4cdWW+kNW+HdBexllJ39
/2ugKiMSHFOcnQ1eJ2sognal9Arf2raqtpFpGJYrLkcFyADwdjkF3PctK7kiP03+H8iQh9
vpgpSQXc9T0n9oKbsjrKxdOhxbUPFFcJa43v9UEUDoEcWDGxl0gykKUivFZvm5eaWT+p+x
h+b+pI22uYE1Qb3wBqCARm93vZJ6RD0lmJpR5jv+cftWP94Ig3Ti1l+XBxey817FpCGW7k
vA8SEfK08tAziho4WsGMcJMj50+UUsxW47Wjmq6NXmAiBkFYMqdecEOBDIEVOy8gNcnqrT
1WH7N4/uYXNVoEW9Q=="
}
```

Response:


```
{
        "access_token": "eyJhbGciOiJSUzI1NiJ9.
eyJzdWIiOiI5YzNjYmZkNC1mNWM2LTQzMTktYjhiNi02OTZlMjdiNDY2NGQiLCJ1c2VySW
5mbyI6IntcInVzZXJJZFwiOlwiOWMzY2JmZDQtZjVjNi00MzE5LWI4YjYtNjk2ZTI3YjQ2
NjRkXCIsXCJhY2NvdW50SWRcIjozODMsXCJhY2NvdW50SW5mb3NcIjpbe1wibmFtZVwiOl
wiU21va2UgVGVzdCBJbmNcIixcImFjY291bnRJZFwiOjM4MyxcInNlcnZpY2VJbmZvc1wi
Olt7XCJzZXJ2aWNlU3Vic2NyaXB0aW9uc1wiOlt7XCJzdWJzY3JpcHRpb25cIjpcIkJ1c2
luZXNzXCJ9XSxcInJvbGVzXCI6W1wiQWRtaW5pc3RyYXRvclwiXSxcIm5hbWVcIjpcIkVu
dGVycHJpc2VTaWduaW5nXCJ9XSxcImF2YWlsYWJsZU1ldGhvZHNcIjpbXX1dLFwiaXNUZW
1wVXNlclwiOmZhbHNlfSIsImF1dGhlbnRpY2F0aW9uTWV0aG9kIjoiY2xpZW50Y2VydCIs
InNlcnZpY2UiOiJFbnRlcnByaXNlU2lnbmluZyIsInJvbGVzIjpbIkFkbWluaXN0cmF0b3
IiXSwiaXNzIjoiYXV0aHNlcnZpY2UiLCJzY29wZXMiOlsiSUQiXSwib25lVGltZVNjb3Bl
cyI6W10sImV4cCI6MTUyODM4Njg0MywiaWF0IjoxNTI4MzgzMjQzLCJqdGkiOiIzZmU5OW
JhYi1hNjkzLTRiZTUtYTMxZS03ODA4OTNhZThhNWMifQ.
Rm3qbeqQawLvnykj1Bt2m0EvpnezJclTI2yJ7nGNiXQYr5azLKzXlWeJZWGr_kzWuq-
EBX0_HqbRaFh5QaNltAiLbWB1pBS3KPa6rwp8c8e1qdyxLcha3eNW29TK77JVdn3LpBVnu
qbOB26dX4_GZhlRVE6NiC79_Heee_fc_8c",
        "expires_in": 3600
}
```