

Example: Personal Desktop signing

A signing request follow the exact same process flow as an authentication request. For more information, see [Example: Personal Desktop authentication](#).

Related information

- [Install Hermod](#)
- [Example: Personal Desktop authentication](#)

[Expand/Collapse All](#)

Prerequisites

▼ Prerequisites

- Installed Hermod, see [here](#).

Step-by-step instruction

▼ Create signing request in Hermod

1. Create a signing request in Hermod with the `POST /rest/command/sign` command. See example:

Example: Signing command

```
POST /rest/command/sign
{
  "commandHeader":{
    "lifespan":30,
    "timeout":30,
    "to":[
      "@tmp"
    ]
  },
  "signCommand":{
    "params":{
      "description":[
        {
          "content_encoding":"base64",
          "content_type":"text/plain",
          "data":"UGVyc29uYWw=",
          "description":"Signing request from",
          "key":"requester",
          "visible":true
        }
      ],
      "filter":{
        "op":"eq",
        "param":"key.type",
        "value":"RSA"
      },
      "format":"pkcs7",
      "mechanism":"CKM_SHA256_RSA_PKCS",
      "tbs":[
        {
          "content_encoding":"base64",
          "content_type":"text/plain",
          "data":"VHJhbnNmZXIgaWNTAwIFVTRCBmcm9tIENheWlhb29uYWwgdG8gSG9sZWJyb29rIEExOZC4=",
          "description":"Text to sign",
          "key":"tbs",
          "visible":true
        }
      ]
    }
  }
}
```

Example: Signing response

```
Response 200 OK
{
  "commandId": "688",
  "destinations": [
    {
      "to": "@tmp",
      "bid":
"11318956-2040-4360-941d-437e4ddd810c",
      "uri":
"com.nexusgroup.pluginout:///url=http%3a%2f%2fnexus-cod1
.ad.nexusgroup.com%3A20401%2fhermod%2Frest%2Fms%2F11318
956-2040-4360-941d-437e4ddd810c&token=0464297b-8406-4f9
4-a734-628d071069d8",
      "mid":
"14fc191a-a0a3-4ae3-929a-e37efafdb510",
      "location":
"http://nexus-cod1.ad.nexusgroup.com:20401/hermod/rest/
ms/11318956-2040-4360-941d-437e4ddd810c/14fc191a-a0a3-4
ae3-929a-e37efafdb510"
    }
  ],
  "commandType": "SIGN",
  "state": "IN_PROGRESS",
  "fqdn": "nexus-cod1.ad.nexusgroup.com"
}
```

Start Personal Desktop

1. Add the URI from the response as a link.

Example URI

```
com.nexusgroup.pluginout:///url=http%3a%2f%2fnexus-cod1.
ad.nexusgroup.com%3A20401%2fhermod%2Frest%2Fms%2F113189
56-2040-4360-941d-437e4ddd810c&token=0464297b-8406-4f94
-a734-628d071069d8
```

The protocol handler for personal desktop will open the pluginout dialog:

Sign

Server address: Secure `https://nexus-cod1.test.nexusgroup.com:20400`

Signing request from: Personal

To be signed

Text to sign: Transfer 500 USD from Cayman Island to Holebrook Ltd.

Certificate: Non Repudiation (Anders Wallbom)

PIN:

Sign Cancel Help

▼ Validate signing response

When the user has provided the smart card and entered the PIN then personal will sign the request and send the response to Hermod which sends the response to the application server in a callback.

1. Validate the response:

Example: Signing callback command

```
POST
https://my-registered-callbackserver/rest/callback/sign
```

Example: Signing callback response

```
Response 200 OK
{
  "responseHeader" : {
    "inReplyTo" :
    "https://nexus-cod1.test.nexusgroup.com:20400/hermod/rest/ms/1557ac95-5c1c-4dff-a9aa-f1176744f5a6/31a10af2-8fe5-4847-b4e5-5272bdaee07b",
    "status" : 200
  },
  "signResponse" : {
    "code" : 0,
```



```
lcnMgV2FsbGJvBTEsMCoGCSqGSIB3DQEJARYdYw5kzXJzLndhbGxib2
1AbmV4dXNncm91cC5jb20wggEhMA0GCSqGSIB3DQEBAQUAA4IBDgAwg
gEJAoIBAQCawqeX9BvG4Xj6myqHQ5+LKkAbAZsW5H+9WNuD+ByenS3H
jtzS6Ab0CkZBMNKAlpLIXiAAAd0V0WGGQ60BJ9rfiAcWiFivdNMLwo/r4
9NipvdmIgs51T3sBmqT/BvhHY+4j55VXYCKz0da9Jc1fEGFnM6wBEGj
mLgcMPRTp6mgsBJYNoWb4YO/Rt9KpdeD/Ds1X0olw/eGroMioRgAvvJ
ac3IN3TKJAeSfejN0yeUBOudeXcWGYf+K76Thzadw8DpLyMnkP580V0
mF7XCTGgxlGu2W/OFmHYMN9z2Av4ZVsUH95KsXzJlbBLZ4EOWpJSGv/
Do2mVY8dJn0d2F7f0m+PJAgIBAAOCAaowggGmMBEGAlUdDgQKBAhJaM
/A6anEczA7BgNVHREENDAYoDAGCisGAQQBgjcUAgOgIgwYw5kzXJzL
ndhbGxib21AYWQubmV4dXNncm91cC5jb20wEwYDVR0jBAwwCoA1SF3B
26nf72AwRwYIKWyBBQUHAQEEOzA5MDcGCCsGAQUFBzABhitodHRwOi8
vb2NzcC5oc3MubmV4dXNncm91cC5jb20vTmV4dXNhcm91cENBMA4GA1
UdDwEB/wQEAWIGQDCB5QYDVR0fBIHdMIHaMIHXoIHUoIHRhOGNBRhC
DovL29jc3AuaHNzLm5leHVzZ3JvdXAuY29tOjM4OS9DTj1OZlhlcyUy
MEdyb3VwJT1wQ0EsTz1OZlhlcyUyMEdyb3VwLEM9U0U/Y2VydG1maWN
hdGVScXZvY2F0aW9uTGlzdD9iYXNlP29iamVjdENsYXNzPUNSTERpc3
RyaWJldGlvb1BvaW50hj9odHRwOi8vd3d3Lmhzcy5uZlhlcyUyMEdyb3VwL
mNvbS9jcmxzL05leHVzJT1wR3JvdXA1MjBDQSUyMENSTC5jcmwvDQYJ
KozIhvcNAQELBQADggIBABYrtqo684kS2KywDnADytF18LOS+2kRw8V
bJxvnp95aEQ/uLSh/JChsnJhn0qBmaXLB/dLYJ7St6PckakoS4mEOJ4
myGH65WghZiMtvgsdxTndTJCRODBt+3cufzkTWLk+0G6r3UONmCgGGS
DJ5fxHZesNvDuDzk916ST7HahA8PY5de3/yNlOWTkzCprf6I15hj/sk
ozjw2oDYkzWwN5Pu2wKhDvcBskgdOkFwoAKTT9ab2E9xRHogvH5rCV
xgYrQ22qvyG6kcJMXOQKR5UN1m2bu25y6a0WpYvTnwb4Dq7p9+hH0rS
/aBrQ0iAQawr7oyFi6tJFulDnWXiIaxKgl6MvjSLqvnkUQ0QpTrkFPt
LBwjUPFaCIN+9rBcq9vexaDKQm0YXdMNGOiiQaqxxvg50hQBahGgFyF
L+2zgl3Ip0oAWjlys2Jrm07DOjYBKUrUe93BQSDX5CeeMSTTO0592ne
byeYAPy9ovgMd00CSWKWsEo1MPz60IP1EgzIkz4+Ca/4Nofxm/8BHyg
6kMhJ5eE9+NSor7k4tY9e3w41Cl/5GmXA+VcAIWslpwqYsqkQgAyELc
utk0WxbfBuyOoNtqsh07jqtYM+mlyVl0LvcVperqxx9y0eOuPTpkn+E
S1lywJgK5GsuLMZqrUmzjQTSctmWMDv3Qmfexb4msXRL"
}
}
},
"commandId" : "687",
"destinations" : [ {
  "to" : "@tmp",
  "bid" : "1557ac95-5c1c-4dff-a9aa-f1176744f5a6",
  "uri" :
"com.nexusgroup.pluginout:///url=https%3a%2f%2fnexus-cod
1.test.nexusgroup.com%3A20400%2fhermod%2Frest%2Fms%2F15
57ac95-5c1c-4dff-a9aa-f1176744f5a6&token=98dab581-6bf6-
4c9d-8c78-dac98f5b899f",
  "mid" : "31a10af2-8fe5-4847-b4e5-5272bdaee07b",
  "location" :
"https://nexus-cod1.test.nexusgroup.com:20400/hermod/re
st/ms/1557ac95-5c1c-4dff-a9aa-f1176744f5a6/31a10af2-8fe
5-4847-b4e5-5272bdaee07b"
} ],
"commandType" : "SIGN",
```

```
"state" : "COMPLETED",  
"fqdn" : "nexus-codl.test.nexusgroup.com"  
}
```