

1. **Get AuthN Token**

curl -X POST \

'https://qaaccess.creditacceptance.com:8443/openam/json/authenticate?realm=cabiqa' \

-H 'Accept-Language: en-US,en;q=0.5' \

-H 'Content-Type: application/json' \

-H 'cache-control: no-cache' \

-H 'x-openam-password: Xiaobai23' \

-H 'x-openam-username: xlian'

1. **Translate AnthN Token to assertion by using API**

curl -X POST \

'https://qaaccess.creditacceptance.com:8443/openam/rest-sts/cabiqa/qaSTS?\_action=translate' \

-H 'Accept-Language: en-US,en;q=0.5' \

-H 'Content-Type: application/json' \

-H 'cache-control: no-cache' \

-d '{

"input\_token\_state": { "token\_type": "OPENAM", "session\_id": "AQIC5wM2LY4Sfcz2vY0p\_bc0zcGBaQOjG2rWzpFb\_LakSjI.\*AAJTSQACMDIAAlNLABQtOTIxNzEyMzQzMjU0MzQ4MTE5OAACUzEAAjA0\*" },

"output\_token\_state": { "token\_type": "SAML2", "subject\_confirmation": "BEARER", "service\_provider\_assertion\_consumer\_service\_url":

"cabi"

}

}'

1. **Add Response wrapper and encode it**

Paste assertion to simple code to generate response

**package** saml;

**import** java.util.Base64;

**public** **class** response {

**public** **static** **void** main(String[] args) {

String id = "s2b47209af9e4281f1cfe16fc5745260a6f9062fd1";

String ssoACS = "https://cabiqa.creditacceptance.com/saml2/sp/acs/post";

String IDPIssuer = "openam";

String api = "<saml:Assertion xmlns:saml=\\\"urn:oasis:names:tc:SAML:2.0:assertion\\\" ID=\\\"s2d512593610e9c5a679fb86266e7830d961433519\\\" IssueInstant=\\\"2019-04-30T18:36:16Z\\\" Version=\\\"2.0\\\">\\n<saml:Issuer>openam</saml:Issuer><ds:Signature xmlns:ds=\\\"http://www.w3.org/2000/09/xmldsig#\\\">\\n<ds:SignedInfo>\\n<ds:CanonicalizationMethod Algorithm=\\\"http://www.w3.org/2001/10/xml-exc-c14n#\\\"/>\\n<ds:SignatureMethod Algorithm=\\\"http://www.w3.org/2001/04/xmldsig-more#rsa-sha512\\\"/>\\n<ds:Reference URI=\\\"#s2d512593610e9c5a679fb86266e7830d961433519\\\">\\n<ds:Transforms>\\n<ds:Transform Algorithm=\\\"http://www.w3.org/2000/09/xmldsig#enveloped-signature\\\"/>\\n<ds:Transform Algorithm=\\\"http://www.w3.org/2001/10/xml-exc-c14n#\\\"/>\\n</ds:Transforms>\\n<ds:DigestMethod Algorithm=\\\"http://www.w3.org/2001/04/xmlenc#sha512\\\"/>\\n<ds:DigestValue>4quzXtkLSwsl1FrCWEBVWJlzJRJQIdDggAG8eaXFPswtTl2Vx2sIaTznzNx7JiNAw61VbnPd2tUT\\nJzHu9BQ08w==</ds:DigestValue>\\n</ds:Reference>\\n</ds:SignedInfo>\\n<ds:SignatureValue>\\nac7rbMTZ/4EfTYlQb7fwesAi2EQSfmQwZjUGlcjJdiL58YUffb5bT89rzPembAt5NE9MBvFAG8d0\\nsvcQQr2WR6NZ4ZdcJMFeYF40LSZS7+qlrZKx4Gcn5mNGsjRK6BGDanavrigAgGS98RmSYid1YK+M\\nDLs3bTq8Cih0LZCEemI=\\n</ds:SignatureValue>\\n<ds:KeyInfo>\\n<ds:X509Data>\\n<ds:X509Certificate>\\nMIICSjCCAbOgAwIBAgIEbt/YvzANBgkqhkiG9w0BAQsFADBYMQswCQYDVQQGEwJVUzELMAkGA1UE\\nCBMCTUkxEzARBgNVBAcTClNvdXRoZmllbGQxCzAJBgNVBAoTAkZSMQwwCgYDVQQLEwNDQUMxDDAK\\nBgNVBAMTA1hpbjAeFw0xODAxMTUxNjEwMDVaFw0yMDAxMTUxNjEwMDVaMFgxCzAJBgNVBAYTAlVT\\nMQswCQYDVQQIEwJNSTETMBEGA1UEBxMKU291dGhmaWVsZDELMAkGA1UEChMCRlIxDDAKBgNVBAsT\\nA0NBQzEMMAoGA1UEAxMDWGluMIGfMA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQCYxD9iYWrLYaEO\\nWr8NJMRDaL4/YqsWSuonJ0rkJkxpicpjEM6ui3L01NXi3WrmdITpNOrCB1aYE0pT9U1jkO1bKIsg\\nKyBi3HPcF/lUCvxrzEWGyW/vpUF6QS5KKJYxoMAja6dCkirEct8X9DLKu5q8Q9Q4TUDPWSAEG4zh\\n8IJ+owIDAQABoyEwHzAdBgNVHQ4EFgQUwLhIL0HDjGt4w5W+3ZE1RIXIggMwDQYJKoZIhvcNAQEL\\nBQADgYEAd6/QkKLq91N5qMUy7sMZHb1NR8LM3rE3diB2p54YpdoLbPe8kpDvDbz47kf4oua1KsVI\\nBfnhb4/YPCpOVOPPzBqg2WzMhvfiWsqTqhhrPJghjK8tINbVUD+wVNwCWfftQliqucwnw6vlBCQZ\\nbbEdBQNEDFDvvWd9ougyO84hQyU=\\n</ds:X509Certificate>\\n</ds:X509Data>\\n</ds:KeyInfo>\\n</ds:Signature><saml:Subject>\\n<saml:NameID Format=\\\"urn:oasis:names:tc:SAML:1.0:nameid-format:unspecified\\\">xlian</saml:NameID><saml:SubjectConfirmation Method=\\\"urn:oasis:names:tc:SAML:2.0:cm:bearer\\\">\\n<saml:SubjectConfirmationData NotOnOrAfter=\\\"2019-04-30T18:46:16Z\\\" Recipient=\\\"https://cabiqa.creditacceptance.com/saml2/sp/acs/post\\\"/></saml:SubjectConfirmation>\\n</saml:Subject><saml:Conditions NotBefore=\\\"2019-04-30T18:36:16Z\\\" NotOnOrAfter=\\\"2019-04-30T18:46:16Z\\\">\\n<saml:AudienceRestriction>\\n<saml:Audience>cabi</saml:Audience>\\n</saml:AudienceRestriction>\\n</saml:Conditions>\\n<saml:AuthnStatement AuthnInstant=\\\"2019-04-30T18:36:16Z\\\"><saml:AuthnContext><saml:AuthnContextClassRef>urn:oasis:names:tc:SAML:2.0:ac:classes:PreviousSession</saml:AuthnContextClassRef></saml:AuthnContext></saml:AuthnStatement><saml:AttributeStatement><saml:Attribute Name=\\\"AuthSource\\\"><saml:AttributeValue xmlns:xs=\\\"http://www.w3.org/2001/XMLSchema\\\" xmlns:xsi=\\\"http://www.w3.org/2001/XMLSchema-instance\\\" xsi:type=\\\"xs:string\\\">2</saml:AttributeValue></saml:Attribute><saml:Attribute Name=\\\"uid\\\"><saml:AttributeValue xmlns:xs=\\\"http://www.w3.org/2001/XMLSchema\\\" xmlns:xsi=\\\"http://www.w3.org/2001/XMLSchema-instance\\\" xsi:type=\\\"xs:string\\\">xlian</saml:AttributeValue></saml:Attribute></saml:AttributeStatement></saml:Assertion>";

api = api.replace("\\n","\n");

String assertion = api.replace("\\","");

String substr = "IssueInstant=\"";

String[] parts = assertion.split(substr);

String Issuetime = parts[1].substring(0,20);

//System.out.println(assertion);

String response2 ="<samlp:Response xmlns:samlp=\"urn:oasis:names:tc:SAML:2.0:protocol\" ID=\""+ id + "\" " + "Version=\"2.0\" IssueInstant=\"" +

Issuetime + "\" " + "Destination=\"" + ssoACS + "\"><saml:Issuer xmlns:saml=\"urn:oasis:names:tc:SAML:2.0:assertion\">"+ IDPIssuer +"</saml:Issuer><samlp:Status xmlns:samlp=\"urn:oasis:names:tc:SAML:2.0:protocol\">\r\n" +

"<samlp:StatusCode xmlns:samlp=\"urn:oasis:names:tc:SAML:2.0:protocol\" Value=\"urn:oasis:names:tc:SAML:2.0:status:Success\">\r\n" +

"</samlp:StatusCode>\r\n" +

"</samlp:Status>"+ assertion +"</samlp:Response>";

//System.out.print(response2);

**byte**[] encodedBytes = Base64.*getEncoder*().encode(response2.getBytes());

String encodedResponse = **new** String(encodedBytes);

System.***out***.println(encodedResponse);

}

}

1. **Post SAMLResponse back to APP ACS url**

curl -X POST \

https://cabiqa.creditacceptance.com/saml2/sp/acs/post \

-H 'Content-Type: application/x-www-form-urlencoded' \

-H 'cache-control: no-cache' \

-d SAMLResponse=PHNhbWxwOlJlc3BvbnNlIHhtbG5zOnNhbWxwPSJ1cm46b2FzaXM6bmFtZXM6dGM6U0FNTDoyLjA6cHJvdG9jb2wiIElEPSJzMmI0NzIwOWFmOWU0MjgxZjFjZmUxNmZjNTc0NTI2MGE2ZjkwNjJmZDEiIFZlcnNpb249IjIuMCIgSXNzdWVJbnN0YW50PSIyMDE5LTA0LTMwVDE4OjM2OjE2WiIgRGVzdGluYXRpb249Imh0dHBzOi8vY2FiaXFhLmNyZWRpdGFjY2VwdGFuY2UuY29tL3NhbWwyL3NwL2Fjcy9wb3N0Ij48c2FtbDpJc3N1ZXIgeG1sbnM6c2FtbD0idXJuOm9hc2lzOm5hbWVzOnRjOlNBTUw6Mi4wOmFzc2VydGlvbiI%2Bb3BlbmFtPC9zYW1sOklzc3Vlcj48c2FtbHA6U3RhdHVzIHhtbG5zOnNhbWxwPSJ1cm46b2FzaXM6bmFtZXM6dGM6U0FNTDoyLjA6cHJvdG9jb2wiPg0KPHNhbWxwOlN0YXR1c0NvZGUgeG1sbnM6c2FtbHA9InVybjpvYXNpczpuYW1lczp0YzpTQU1MOjIuMDpwcm90b2NvbCIgVmFsdWU9InVybjpvYXNpczpuYW1lczp0YzpTQU1MOjIuMDpzdGF0dXM6U3VjY2VzcyI%2BDQo8L3NhbWxwOlN0YXR1c0NvZGU%2BDQo8L3NhbWxwOlN0YXR1cz48c2FtbDpBc3NlcnRpb24geG1sbnM6c2FtbD0idXJuOm9hc2lzOm5hbWVzOnRjOlNBTUw6Mi4wOmFzc2VydGlvbiIgSUQ9InMyZDUxMjU5MzYxMGU5YzVhNjc5ZmI4NjI2NmU3ODMwZDk2MTQzMzUxOSIgSXNzdWVJbnN0YW50PSIyMDE5LTA0LTMwVDE4OjM2OjE2WiIgVmVyc2lvbj0iMi4wIj4KPHNhbWw6SXNzdWVyPm9wZW5hbTwvc2FtbDpJc3N1ZXI%2BPGRzOlNpZ25hdHVyZSB4bWxuczpkcz0iaHR0cDovL3d3dy53My5vcmcvMjAwMC8wOS94bWxkc2lnIyI%2BCjxkczpTaWduZWRJbmZvPgo8ZHM6Q2Fub25pY2FsaXphdGlvbk1ldGhvZCBBbGdvcml0aG09Imh0dHA6Ly93d3cudzMub3JnLzIwMDEvMTAveG1sLWV4Yy1jMTRuIyIvPgo8ZHM6U2lnbmF0dXJlTWV0aG9kIEFsZ29yaXRobT0iaHR0cDovL3d3dy53My5vcmcvMjAwMS8wNC94bWxkc2lnLW1vcmUjcnNhLXNoYTUxMiIvPgo8ZHM6UmVmZXJlbmNlIFVSST0iI3MyZDUxMjU5MzYxMGU5YzVhNjc5ZmI4NjI2NmU3ODMwZDk2MTQzMzUxOSI%2BCjxkczpUcmFuc2Zvcm1zPgo8ZHM6VHJhbnNmb3JtIEFsZ29yaXRobT0iaHR0cDovL3d3dy53My5vcmcvMjAwMC8wOS94bWxkc2lnI2VudmVsb3BlZC1zaWduYXR1cmUiLz4KPGRzOlRyYW5zZm9ybSBBbGdvcml0aG09Imh0dHA6Ly93d3cudzMub3JnLzIwMDEvMTAveG1sLWV4Yy1jMTRuIyIvPgo8L2RzOlRyYW5zZm9ybXM%2BCjxkczpEaWdlc3RNZXRob2QgQWxnb3JpdGhtPSJodHRwOi8vd3d3LnczLm9yZy8yMDAxLzA0L3htbGVuYyNzaGE1MTIiLz4KPGRzOkRpZ2VzdFZhbHVlPjRxdXpYdGtMU3dzbDFGckNXRUJWV0psekpSSlFJZERnZ0FHOGVhWEZQc3d0VGwyVngyc0lhVHpuek54N0ppTkF3NjFWYm5QZDJ0VVQKSnpIdTlCUTA4dz09PC9kczpEaWdlc3RWYWx1ZT4KPC9kczpSZWZlcmVuY2U%2BCjwvZHM6U2lnbmVkSW5mbz4KPGRzOlNpZ25hdHVyZVZhbHVlPgphYzdyYk1UWi80RWZUWWxRYjdmd2VzQWkyRVFTZm1Rd1pqVUdsY2pKZGlMNThZVWZmYjViVDg5cnpQZW1iQXQ1TkU5TUJ2RkFHOGQwCnN2Y1FRcjJXUjZOWjRaZGNKTUZlWUY0MExTWlM3K3FsclpLeDRHY241bU5Hc2pSSzZCR0RhbmF2cmlnQWdHUzk4Um1TWWlkMVlLK00KRExzM2JUcThDaWgwTFpDRWVtST0KPC9kczpTaWduYXR1cmVWYWx1ZT4KPGRzOktleUluZm8%%2BCjwvZHM6U2lnbmF0dXJlPjxzYW1sOlN1YmplY3Q%2BCjxzYW1sOk5hbWVJRCBGb3JtYXQ9InVybjpvYXNpczpuYW1lczp0YzpTQU1MOjEuMDpuYW1laWQtZm9ybWF0OnVuc3BlY2lmaWVkIj54bGlhbjwvc2FtbDpOYW1lSUQ%2BPHNhbWw6U3ViamVjdENvbmZpcm1hdGlvbiBNZXRob2Q9InVybjpvYXNpczpuYW1lczp0YzpTQU1MOjIuMDpjbTpiZWFyZXIiPgo8c2FtbDpTdWJqZWN0Q29uZmlybWF0aW9uRGF0YSBOb3RPbk9yQWZ0ZXI9IjIwMTktMDQtMzBUMTg6NDY6MTZaIiBSZWNpcGllbnQ9Imh0dHBzOi8vY2FiaXFhLmNyZWRpdGFjY2VwdGFuY2UuY29tL3NhbWwyL3NwL2Fjcy9wb3N0Ii8%2BPC9zYW1sOlN1YmplY3RDb25maXJtYXRpb24%2BCjwvc2FtbDpTdWJqZWN0PjxzYW1sOkNvbmRpdGlvbnMgTm90QmVmb3JlPSIyMDE5LTA0LTMwVDE4OjM2OjE2WiIgTm90T25PckFmdGVyPSIyMDE5LTA0LTMwVDE4OjQ2OjE2WiI%2BCjxzYW1sOkF1ZGllbmNlUmVzdHJpY3Rpb24%2BCjxzYW1sOkF1ZGllbmNlPmNhYmk8L3NhbWw6QXVkaWVuY2U%2BCjwvc2FtbDpBdWRpZW5jZVJlc3RyaWN0aW9uPgo8L3NhbWw6Q29uZGl0aW9ucz4KPHNhbWw6QXV0aG5TdGF0ZW1lbnQgQXV0aG5JbnN0YW50PSIyMDE5LTA0LTMwVDE4OjM2OjE2WiI%2BPHNhbWw6QXV0aG5Db250ZXh0PjxzYW1sOkF1dGhuQ29udGV4dENsYXNzUmVmPnVybjpvYXNpczpuYW1lczp0YzpTQU1MOjIuMDphYzpjbGFzc2VzOlByZXZpb3VzU2Vzc2lvbjwvc2FtbDpBdXRobkNvbnRleHRDbGFzc1JlZj48L3NhbWw6QXV0aG5Db250ZXh0Pjwvc2FtbDpBdXRoblN0YXRlbWVudD48c2FtbDpBdHRyaWJ1dGVTdGF0ZW1lbnQ%2BPHNhbWw6QXR0cmlidXRlIE5hbWU9IkF1dGhTb3VyY2UiPjxzYW1sOkF0dHJpYnV0ZVZhbHVlIHhtbG5zOnhzPSJodHRwOi8vd3d3LnczLm9yZy8yMDAxL1hNTFNjaGVtYSIgeG1sbnM6eHNpPSJodHRwOi8vd3d3LnczLm9yZy8yMDAxL1hNTFNjaGVtYS1pbnN0YW5jZSIgeHNpOnR5cGU9InhzOnN0cmluZyI%2BMjwvc2FtbDpBdHRyaWJ1dGVWYWx1ZT48L3NhbWw6QXR0cmlidXRlPjxzYW1sOkF0dHJpYnV0ZSBOYW1lPSJ1aWQiPjxzYW1sOkF0dHJpYnV0ZVZhbHVlIHhtbG5zOnhzPSJodHRwOi8vd3d3LnczLm9yZy8yMDAxL1hNTFNjaGVtYSIgeG1sbnM6eHNpPSJodHRwOi8vd3d3LnczLm9yZy8yMDAxL1hNTFNjaGVtYS1pbnN0YW5jZSIgeHNpOnR5cGU9InhzOnN0cmluZyI%2BeGxpYW48L3NhbWw6QXR0cmlidXRlVmFsdWU%2BPC9zYW1sOkF0dHJpYnV0ZT48L3NhbWw6QXR0cmlidXRlU3RhdGVtZW50Pjwvc2FtbDpBc3NlcnRpb24%2BPC9zYW1scDpSZXNwb25zZT4%3D%0A