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Solution Guide

Integrating Oracle Access Manager with Citrix NetScaler as SAML IDP

This guide focuses on defining the process for deploying Oracle Access Manager as an IdP, with NetScaler acting as the SAML IDP.

Citrix NetScaler is a world-class product with the proven ability to load balance, accelerate, optimize, and secure enterprise applications.

NetScaler's SAML integration capabilities allow NetScaler to act as a SAML IDP (Identity Provider), enabling Oracle Fusion Middleware users to log on to their enterprise Oracle applications through NetScaler, removing the need to log on with Oracle Access Manager and avoiding having to configure an additional authentication source.

Introduction

This solution allows the integration of Oracle Access Manager with NetScaler. This guide focuses on enabling OAM single sign on with Citrix NetScaler acting as a SAML IDP, allowing Oracle Fusion Middleware applications to authenticate users with NetScaler AAA credentials.

Oracle Access Management provides traditional access management capabilities along with some advanced identity management capabilities such as adaptive authentication, federated single-sign on (SSO), risk analysis, and fine-grained authorization which can also be extended to mobile clients and mobile applications. OAM is an integral part of the authentication and authorization framework that facilitates access to the Oracle enterprise software suite.

Configuration

Successful integration of a NetScaler appliance with OAM requires an appliance running NetScaler software release 11.0 or later, with an Enterprise or Platinum license.

NetScaler features to be enabled

The following feature must be enabled to use single sign-on with OAM:

Authentication, authorization and auditing (AAA)

The AAA feature controls NetScaler authentication, authorization, and auditing policies. These policies include definition and management of various authentication schemas. NetScaler supports a wide range of authentication protocols.

Solution Description

Enabling SSO for OAM with NetScaler has two parts: configuring the OAM portal and configuring the NetScaler appliance. OAM should be configured to use NetScaler as a third party SAML IDP (Identity Provider). The NetScaler is configured as a SAML IDP by creating the AAA Virtual Server that will host the SAML IDP policy, along with the authentication (LDAP in our example) policy used to authenticate users for issuing the SAML token.

The following instructions assume that you have already created the appropriate external and/or internal DNS entries to route authentication requests to a NetScaler-monitored IP address, and that an SSL certificate has already been created and installed on the appliance for the SSL/HTTPS communication. This document also assumes that user accounts and the required user directories have been created and configured on OAM.

Before proceeding, you will require the certificate that OAM will use to verify the SAML assertion from NetScaler. To get the verification certificate from the NetScaler appliance, follow these steps:

- Log on to your NetScaler appliance, and then select the Configuration tab..
- Select Traffic Management > SSL
- On the right, under Tools, select Manage Certificates / Keys/ CSR's

Dashboard Configuration	Reporting	Documentation
+ System	NetScaler > Traffic Management > SSL	
+ AppExpert		
Traffic Management Load Balancing Context Switching Context Switching Cache Redirection DNS	Getting Started Server Certificate Wizard Client Certificate Wizard Intermediate-CA Certificate Wizard Root-CA Certificate Wizard CRL Management	SSL Certificates Create Certificate Signing Request (CSR) Create Certificate Create and Install a Server Test Certificate
+ 55L + Optimization + Security + NetScaler Gateway Share Uniformed Features	SSL Keys Create RSA Key Create DSA Key	Tools Create Diffle-Hellman (DH) key Import PKCSH2 Sectors SH2 Manage Certificates / Keys / CSRs Start SRL certificates / Keys / CSRs Start SRL certificates / Keys / CSRs Start SRL certificates / Keys / CSRs
Integrate with Citrix Products	Policy Manager SSL Policy Manager	Settings Change advanced SSL settings

From the Manage Certificates window, browse to the certificate you will be using for your AAA Virtual Server. Select the certificate and choose the Download button. Save the certificate to a location of your choice.

Part 1: Configure OAM

To configure OAM, log on to your OAM account with administrator credentials, and then do the following:

- 1. On the main configuration page, click the Federation button in the top right corner of the screen.
- On the Federation page, in the Federation section, click the Service Provider Management link. (In the OAM console, the Identity Provider Management section manages SPs (Service providers) bound to OAM, and the Service Provider Management section manages IDPs (Identity Providers) bound to OAM).

	Application Security	Federation
Launch Pad		
	f	
Federation 🕂 🕶	Social Identity	Acce
Identity Federation with Identity and Service partners	This component is disabled.	This
Identity Provider Management Service Provider Management	Enable Mobile and Social	Enabl

3. On the Service Provider Administration screen, click the Create Identity Provider Partner button.

ORACLE"	Access Manag	ement		Application Secu	rity 🔥 Federation	Mobile Security	of Configurat
Launch Pad Service Prov	ider Administ ×						[
Federation >							
Service Provider	Administratio	n					
You are using Oracle Access	Manager as a Feder	ation Service Provider	. Use the follow	ing screens to manage you	ur partnerships with exte	ernal Identity Provider Part	ners.
Identity Provider Partners	Identity Provider At	tribute Profiles					
Use the search tool to find Provider Partner button.	your Identity Provider	Partner or register a r	new one using t	he Create Identity		+ Create Identity F	Provider Partner
Search						L	
Partner Name		Provider ID					
Status	v	Protocol	٣				
Description							
							Search Reset
A							

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4. On the configuration screen, set the parameters listed under the following screen shot.

NSSAML_SP Service Provider Partner	Duplicate	Save
🖌 General		
Name NSSAML_SP	☑ Enable Partner	
Signing Certificate		
* Load Signing Certificate	Choose File No file chosen	
Signing Certificate	N=oamauth.ctxns.net, O=Citrix, L=Bangalore,	
Subject ST=	⊧Karnataka, C=IN	
Load Encryption Certificate	Choose File No file chosen	
✓ Mapping Options User Mapping		
User Identity Store	OIDIdentityStore •	
User Search Base DN		
Map assertion Name	ID to User ID Store attribute	
* Map assertion Name to User ID Store attribu	mail	
In the Signing Certificate section: Load signing Certificate: Browse to the s	igning certificate that is specified as the Service Provider (SP) certific	cate

on the NetScaler appliance.

Load Encryption Certificate: Add a certificate to be used to encrypt the assertions sent (Optional)

Select the appropriate User Identity Store in the User Mapping Section, and select Map assertion Name ID to User ID Store attribute.

Post this configuration, bind this profile to the Authentication Scheme and module created for the Oracle FMW application that is integrated with OAM.

Extracting the OAM SP certificate for NetScaler

To extract the OAM SP certificate, navigate to http://public-oam-host:public-oam-port/oamfed/sp/metadata (http://10.105.157.147:14100/oamfed/sp/metadata in our setup), and then download the metadata XML file. In the file, look for the X.509 certificate tag, and copy the contents of the tag into a Notepad file. Add BEGIN and END certificate tags at the beginning and end of the file as shown below.

----BEGIN CERTIFICATE-----

MIIGkjCCBXqgAwIBAgIQR9a7ev1iPafwDCfR62ZJFzANBgkqhkiG9w0BAQsFADB3MQswC EwJVUzEdMBsGA1UEChMUU31tYW50ZWMgQ29ycG9yYXRpb24xHzAdBgNVBAsTF1N5bWFud dXN0IE51dHdvcmsxKDAmBgNVBAMTH1N5bWFudGVjIENsYXNzIDMgRVYgU1NMIENBIC0gR MTUwNTIxMDAwMDAwWhcNMTYwNTI2MjM10TU5WjCCARYxEzARBgsrBgEEAYI3PAIBAxMCV BgsrBgEEAYI3PAIBAgwIRGVsYXdhcmUxHTAbBgNVBA8TFFByaXZhdGUgT3JnYW5pemF0a DgYDVQQFEwczNzQwMDgwMQswCQYDVQQGEwJVUzEOMAwGA1UEEQwFOTMxMTcxEzARBgNVB bG1mb3JuaWExDzANBgNVBAcMBkdvbGV0YTEeMBwGA1UECQwVNzQxNCBIb2xsaXN0ZXIg0 MRowGAYDVQQKDBFDaXRyaXggT25saW51IExMQzETMBEGA1UECwwKT3B1cmF0aW9uczEfM AwwWbG9naW4uY210cm14b25saW51LmNvbTCCASIwDQYJKoZIhvcNAQEBBQADggEPADCCA AJkJYeVQ8/Xdue4xYIC1yYpiSx56A6Ae1M+ZPYXvmBtdqQQba9NfVwTbrsjyM7dSqQsGE 8qoJsV9nZ0UAh4SSLcaNCCqDpX7HgPnw10EZ6JdgjhvFjZj+ZQqEkpYFfE+SX9awhQLHA k+Xh7t/my05m/tiKeA+3escTmEoCjQxPwKD4wScAqCDJG+a4kCb/kIzuRN2iyakRPpYo0 TbkA4ZA19Dgw6SxDWXX+rw8C9KmFqsfB21GNBkMUT0XAfsNVjM0zTN1Bhm61a/mjYcou5 YbMmbjBOPK/boDwxaHL+bJTepGT1VWHHEAuozR0CAwEAAaOCAncwggJzMCEGA1UdEQQaM Z21uLmNpdHJpeG9ubG1uZS5jb20wCQYDVR0TBAIwADAOBgNVHQ8BAf8EBAMCBaAwHQYDV FAYIKwYBBQUHAwEGCCsGAQUFBwMCMGYGA1UdIARfMF0wWwYLYIZIAYb4RQEHFwYwTDAjB BQcCARYXaHR0cHM6Ly9kLnN5bWNiLmNvbS9jcHMwJQYIKwYBBQUHAgIwGRoXaHR0cHM6L bWNiLmNvbS9ycGEwHwYDVR0jBBgwFoAUAVmr5906C1mmZGPWzyAHV9WR52owKwYDVR0fB oB6gHIYaaHR0cDovL3NyLnN5bWNiLmNvbS9zci5jcmwwVwYIKwYBBQUHAQEESzBJMB8GC BzABhhNodHRwOi8vc3Iuc31tY2QuY29tMCYGCCsGAQUFBzAChhpodHRwOi8vc3Iuc31tY L3NyLmNydDCCAQMGCisGAQQB1nkCBAIEgfQEgfEA7wB2AKS5CZC0GFgUh7sTosxncAo8N uON3zQ7IDdwQAAABTXaGNUYAAAQDAEcwRQIhALV1UQuevDa2R6k1jKyc+0L8we+duH+xm ngz+AiBvBEkAWCyG8HIW5gy6NXpkoBAnE0xXQxsioZ5ahFWD5QB1AFYUBpov18Ls0/Xhv drm8mRFcw0+UmFXWidDdAAABTXaGNiUAAAQDAEYwRAIgRWbCvZsC7Q2KR1pQ9TTkG6U6d fXjDDTm+l1wCIEX1vDWwado+3xrjNeIS/hFXPSyfJw+E3hG38pW1a+akMA0GCSqGSIb3D A4IBAQCoPX1KzVtsd/0LEZNcP9G4ZC8C6RXmYZpxpz/906pRIt0+/qA1oyh8kpi5WI1aG KaHeTc7vnRnlz2tIuB7MVLNf8ikoy5zkWqf164v1jciZkCW7BE3DXUxoEOT5Y/rm/9+yy V30AbE02AKnhHE02uiZYD4y6rrvdf1E8ogFJhtAp51p6m/zYgWC4w+w7kbZ+/XoFIjZ8X VZktM9rNPshZY5406iuRt0BgFmU/kC8qtw3/UIYYsdZ1QWc9Shho5X79yXN1HKB80HRz0 pRWzAYY5vdU3m8Erv8KUTa0DPyibFRzmnnOyoRgjU7Oa ----END CERTIFICATE-----

To make sure the certificate can be added in NetScaler, place an Enter character after every 64th character.

Add the certificate to the NetScaler appliance in the Traffic Management > SSL > Manage Certificates section.

Part 2: Configure the NetScaler Appliance

The following configuration is required on the NetScaler appliance for it to be supported as a SAML identity provider for OAM:

- LDAP authentication policy and server for domain authentication
- SSL certificate with external and internal DNS configured for the FQDN presented by the certificate (Wildcard certificates are supported.)
- SAML IDP policy and profile
- AAA virtual server

This guide covers the configuration described above. The SSL certificate and DNS configurations should be in place prior to setup.

Configuring LDAP domain authentication

For domain users to be able to log on to the NetScaler appliance by using their corporate email addresses, you must configure an LDAP authentication server and policy on the appliance and bind it to your AAA VIP address. (Use of an existing LDAP configuration is also supported)

- 1. In the NetScaler configuration utility, in the navigation pane, select Security > AAA Application Traffic > Policies > Authentication > Basic Policies > LDAP.
- To create a new LDAP policy: On the Policies tab click Add, and then enter GTM_LDAP_SSO_Policy as the name. In the Server field, click the '+' icon to add a new server. The Authentication LDAP Server window appears.
 - In the Name field, enter OAM_LDAP_SSO_Server.
 - Select the bullet for Server IP. Enter the IP address of one of your Active Directory domain controllers. (You can also point to a virtual server IP for the purpose of redundancy if you are load balancing domain controllers)
 - Specify the port that the NetScaler will use to communicate with the domain controller. Use 389 for LDAP or 636 for Secure LDAP (LDAPS).

Server Name Server IP IP Address* 192 . 168 . 1 . 15 IPv6 Security Type* PLAINTEXT	Server Type* AD Time-out (seconds) 3 Authentication
Port* 389	

- Under Connection Settings, enter the base domain name for the domain in which the user accounts reside within the Active Directory (AD) for which you want to allow authentication. The example below uses cn=Users,dc=ctxns,dc=net.
- 4. In the Administrator Bind DN field, add a domain account (using an email address for ease of configuration) that has rights to browse the AD tree. A service account is advisable, so that there will be no issues with logins if the account that is configured has a password expiration.
- 5. Check the box for Bind DN Password and enter the password twice.

Connection Settings	
Base DN (location of users)	BindDN Password
cn=Users,dc=ctxns,dc=net	Administrator Password
Administrator Bind DN	
cn=administrator,cn=users,dc=ctxns,	Confirm Administrator Password
	Retrieve Attributes

- 6. Under Other Settings: Enter samaccountname as the Server Logon Name Attribute.
- 7. In the SSO Name Attribute field, enter UserPrincipalName. Enable the User Required and Referrals options. Leave the other settings as they are.

Other Settings		
Server Logon Name Attribute		Default Authentication Group
<< New >> *		
samaccountname		User Required
Search Filter		 Referrals
		Maximum Referral Level
		1
Group Attribute	G	Referral DNS Lookup
memberOf •		A-REC •
Sub Attribute Name		Validate LDAP Server Certificate
<< New >> *		LDAP Host Name
CN		
SSO Name Attribute		
<< New >>		
UserPrincipalName		

8. Click on More at the bottom of the screen, then add mail as Attribute 1 in the Attribute Fields section. Leave Nested Group Extraction in the Disabled state (we are not going to be using this option for this deployment)

Nested Group Extraction	
Tenabled Te	Group Name Identifier* << New >> Group Search Attribute* << New >> Group Search Sub-Attribute •
Attribute Fields	
Attribute 1 mail	Attribute 9

- 9. Click the Create button to complete the LDAP server settings.
- 10. For the LDAP Policy Configuration, select the newly created LDAP server from the Server drop-down list, and in the Expression field type ns_true.

Expression* Operators Saved Policy Expressions 	✓ Frequently Used Expressions
ns_True	
Create	

Configure the SAML IDP Policy and Profile

For your users to receive the SAML token for logging on to OAM, you must configure a SAML IDP policy and profile, and bind them to the AAA virtual server to which the users send their credentials. Use the following procedure:

- 1. Open the NetScaler Configuration Utility and navigate to Security > AAA Application Traffic > Policies > Authentication > Basic Policies > SAML IDP
- 2. On the Policies Tab, select the Add button.
- 3. In the Create Authentication SAML IDP Policy Window, provide a name for your policy (for example OAM_ SSO_Policy).
- 4. To the right of the Action field, click the '+' icon to add a new action or profile.
- 5. Provide a name (for example, OAM_SSO_Profile).
- 6. In the Assertion Consumer Service URL field, enter the URL obtained earlier during OAM configuration (http://<FQDN of the OAM server> :<port hosting IDM/OAM server>/oam/fed>) (The example URL in the test environment is http://idmlb.ctxns.net:14100/oam/fed)
- 7. In the SP Certificate Name, provide the name for the certificate that was downloaded from OAM and added to the NetScaler. In case you haven't, you may do so here by clicking on the + button and providing the certificate file and requisite information.
- 8. In the IDP Certificate Name field, browse to the certificate installed on the NetScaler that will be used to secure your AAA authentication Virtual Server.
- 9. In the Issuer Name field enter https://<AAA vserver FQDN>/saml/login
- 10. Set the Encryption Algorithm to AES256
- 11. Set the Service Provider ID field to the value set for the Provider ID field in OAM IDP configuration.
- 12. Set both the Signature and Digest algorithms to SHA-1.
- 13. Set the SAML Binding to POST.

- 14. Click on More, then put http://idmlb.ctxns.net:14100/oam/fed. in the Audience field. (change as appropriate for your environment)
- 15. Set the Skew Time to an appropriate value. This is the time difference that will be tolerated between the NetScaler appliance and the OAM server for the validity of the SAML assertion.
- 16. Set the Name ID Format to Unspecified, and put HTTP.REQ.USER.ATTRIBUTE(1) in the Name ID Expression field. This directs NetScaler to provide the mail attribute attribute that was defined earlier during LDAP configuration as the user ID for OAM.
- 17. Click Create to complete the SAML IDP profile configuration and return to the SAML IDP Policy creation window.
- 18. In the Expression field, add the following expression: HTTP.REQ.HEADER("Referer").CONTAINS("oam")
- 19. Click Create to complete the SAML IDP Configuration.

To Configure your AAA Virtual Server

An employee trying to log in to OAM is redirected to a NetScaler AAA virtual server that validates the employee's corporate credentials. This virtual server listens on port 443, which requires an SSL certificate. External and/or internal DNS resolution of the virtual server's IP address (which is on the NetScaler appliance) is also required. The following steps require a preexisting virtual server to be in place. In addition, they assume that DNS name resolution is already in place, and that the SSL certificate is already installed on your NetScaler appliance.

- 1. In the NetScaler Configuration tab navigate to Security > AAA Application Traffic > Virtual Servers and click the Add button.
- 2. In the Authentication Virtual Server window, enter the virtual server's name and IP address. (av1 and 10.105.157.62 in this example)
- 3. Scroll down and make sure that the Authentication and State check boxes are selected.
- 4. Click Continue.
- 5. In the Certificates section, select No Server Certificate.
- 6. In the Server Cert Key window, click Bind.
- 7. Under SSL Certificates, choose your AAA SSL Certificate and select Insert. (Note This is NOT the OAM SP certificate.)
- 8. Click Save, then click Continue.
- 9. Click Continue again to bypass the Advanced Policy creation option, instead opting to add a Basic Authentication Policy by selecting the '+' icon on the right side of the window.
- 10. From the Choose Type window, select Choose Policy from the drop-down list, select LDAP, leaving Primary as the type, and select Continue.
- 11. Select Bind and from within the Policies window select the OAM_LDAP_SSO_Policy created earlier.
- 12. Click OK to return to the Authentication Virtual Server screen.
- 13. Under Basic Authentication Policies click the '+' icon on the right to add a second Basic Policy.
- 14. From the Choose Policy drop-down list, select SAMLIDP, leave Primary as the type, and click Continue.
- 15. Under Policies select Bind, select your OAM_SSO_Policy, and click Insert and OK.
- 16. Click Continue and Done.

After completing the AAA configuration above, this is how the Basic Settings screen of the AAA vserver will look:

10.105.157.62 443

. ...

Validate the configuration

Point your browser to http://idmlb.ctxns.net:14100/oam/fed. You should be redirected to the NetScaler AAA logon form. Log in with user credentials that are valid for the NetScaler environment you just configured. Your OAM profile should appear.

Troubleshooting

To help with troubleshooting, here is the list of entries that should be in the ns.log file (located at /var/log on the NetScaler appliance) generated by a successful SAML login. Note that some of the entries such as encrypted hash values will vary.

Jan 24 21:59:49 <local0.debug> 10.105.157.60 01/24/2016:21:59:49 GMT 0-PPE-0 : default AAATM Message 4097 0 : "SAMLIDP: ParseAuthnReq: signature method seen is 4" Jan 24 21:59:49 <local0.debug> 10.105.157.60 01/24/2016:21:59:49 GMT 0-PPE-0 : default AAATM Message 4098 0 : "SAMLIDP: ParseAuthnReq: digest method seen is SHA1" Jan 24 21:59:49 <local0.debug> 10.105.157.60 01/24/2016:21:59:49 GMT 0-PPE-0 : default AAATM Message 4099 0 : "SAML verify digest: digest algorithm SHA1, input for digest: <samlp:AuthnRequest xmlns:samlp="urn:oasis:names:tc:SAML:2. 0:protocol" AssertionConsumerServiceURL="https://ctxnstest-dev-ed.my.oamtest. com?so=00D280000017RJa" Destination="https://nssaml.abc.com/saml/login" ID=" 2 CAAAAVMF2dNRME8wMjgwMDAwMDA0Qzk3AAAAxmsWAke7ouLln-jaXRvQESM03 sXxdORaoCaR-GabpLrqsZjb eoAsZKfpXgnuLPpb8uRkVWNvhAa2ni2xVF7AQ1kij21CA6 JNaLgtvPIAV6jh-WMUIl-rje3Pq ___dW0nFqRzs196yv766q7aa5bvd02rdqvTpQz38jWz-oOnsnQh5sa7L9EyhHhDpAUrl1VXbyPnmZFlUakABTLWClT qXZyN3J3xhSaYnLc7-YiBD8VrsehWUyP0dp7Qoeu5RVkwQ" IssueInstant="2016-01-24T22:01:15.269Z" ProtocolBinding="urn:oasis:names:tc:SAML :2.0:bindings:HTTP-POST" Version="2.0"><saml:Issuer xmlns:saml="urn:oasis:names :tc:SAML:2.0:assertion">https://ctxnstest-dev-ed.my.oamtest.com</saml:Issuer></ samlp:AuthnRequest>" Jan 24 21:59:49 <local0.debug> 10.105.157.60 01/24/2016:21:59:49 GMT 0-PPE-0 : default AAATM Message 4100 0 : "SAML signature validation: algorithm is RSA-SHA1 input buffer is: <ds:SignedInfo xmlns:ds="http://www.w3.org/2000/09/xmldsig#"> <ds:CanonicalizationMethod Algorithm="http://www.w3.org/2001/10/xml-exc-</pre> cl4n#"></ds:CanonicalizationMethod> <ds:SignatureMethod Algorithm="http://www. w3.org/2000/09/xmldsig#rsa-shal"></ds:SignatureMethod> <ds:Reference URI="# 2 CAAAAVMF2dNRME8wMjqwMDAwMDA0Qzk3AAAAxmsWAke7ouLln-jaXRvQESM03 sXxdORaoCaR-GabpLrqsZjb eoAsZKfpXgnuLPpb8uRkVWNvhAa2ni2xVF7AQ1kij21CA6 JNaLgtvPIAV6jh-WMUIl-rje3Pq ___dW0nFqRzs196yv766q7aa5bvd02rdqvTpQz38jWz-oOnsnQh5sa7L9EyhHhDpAUrl1VXbyPnmZFlUakABTLWClT qXZyN3J3xhSaYnLc7-YiBD8VrsehWUyP0dp7Qoeu5RVkwQ"> <ds:Transforms> <ds:Transform Algorithm="http://www.w3.org/2000/09/</pre> xmldsig#enveloped-signature"></ds:Transform> <ds:Transform Algorithm="http:// www.w3.org/2001/10/xml-exc-c14n#"><ec:InclusiveNamespaces xmlns:ec="http://www. w3.org/2001/10/xml-exc-c14n#" PrefixList="ds saml samlp"></ec:InclusiveNa Jan 24 21:59:50 <local0.debug> 10.105.157.60 01/24/2016:21:59:50 GMT 0-PPE-0 : default SSLLOG SSL HANDSHAKE SUCCESS 4101 0 : SPCBId 936 - ClientIP 116.202.102.156 - ClientPort 60823 - VserverServiceIP 10.105.157.62 - VserverServicePort 443 - ClientVersion TLSv1.0 - CipherSuite "AES-256-CBC-SHA TLSv1 Non-Export 256-bit" - Session Reuse

Jan 24 22:00:05 <local0.info> 10.105.157.60 01/24/2016:22:00:05 GMT 0-PPE-0 : default AAA Message 4106 0 : "In update _aaa _ cntr: Succeeded policy for user u3test = ldap2"

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Solution Guide
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Jan 24 22:00:05 <local0.debug> 10.105.157.60 01/24/2016:22:00:05 GMT 0-PPE-0 : default AAATM Message 4107 0 : "extracted SSOusername: U3Test@CTXNS.net for user u3test" Jan 24 22:00:05 <local0.debug> 10.105.157.60 01/24/2016:22:00:05 GMT 0-PPE-0 : default SSLVPN Message 4108 0 : "sslvpn_extract_attributes_from_resp: attributes copied so far are U3Test@ctxns.com " Jan 24 22:00:05 <local0.debug> 10.105.157.60 01/24/2016:22:00:05 GMT 0-PPE-0 : default SSLVPN Message 4109 0 : "sslvpn _ extract _ attributes _ from _ resp: total len copied 21, mask 0x1 " Jan 24 22:00:05 <local0.debug> 10.105.157.60 01/24/2016:22:00:05 GMT 0-PPE-0 : default AAATM Message 4110 0 : "SAMLIDP: Checking whether current flow is SAML IdP flow, input U0ZEQ19TU09fUHJvZmlsZQBJRD1fMkNBQUFBVk1GMmROUk1FO-HdNamd3TURBd01EQTBRemszQUFBQXhtc1dBa2U3b3VMbG4tamFYUnZRRVNNMDNfc1h4ZE9SY-W9DYVJHYWJwTHJxc1pqY191b0FzWktmcFhnbnVMUHBiOHVSa1ZXTnZoQWEybmkyeFZGN0FRMWtpajIxQ0E2X0pOYUxndHZQSUFWNmpoV01VSWwtcmplM1BxX19kVzBuRnFSenNsOTZ5djc2NnE3YWE1Yn-ZkMDJyZHF2VHBRejM4ald6LW9PbnNuUWq1c2E3TDlFeWhIaERwQVVybDFWWGJ5UG5tWkZsVWFrQU-JUTFdDbFRfcVhaeU4zSjN4aFNhWW5MYzctWW1CRDhWcnNlaFdVeVAwZHA3UW91dTVSVmt3USZiaW5k-PXBvc3QmLw==" Jan 24 22:00:05 <local0.info> 10.105.157.60 01/24/2016:22:00:05 GMT 0-PPE-0 : default AAA EXTRACTED GROUPS 4111 0 : Extracted groups "LyncDL,TestDL-LYnc" Jan 24 22:00:05 <local0.info> 10.105.157.60 01/24/2016:22:00:05 GMT 0-PPE-0 : default AAATM LOGIN 4112 0 : Context u3test@116.202.102.156 - SessionId: 28- User u3test - Client ip 116.202.102.156 - Nat ip "Mapped Ip" - Vserver 10.105.157.62:443 - Browser type "Mozilla/5.0 (Windows NT 10.0; WOW64; Trident/7.0; rv:11.0) like Gecko" - Group(s) "N/A" Jan 24 22:00:05 <local0.debug> 10.105.157.60 01/24/2016:22:00:05 GMT 0-PPE-0 : default AAATM Message 4113 0 : "SAMLIDP: Checking whether current flow is SAML IdP flow, input U0ZEQ19TU09fUHJvZmlsZQBJRD1fMkNBQUFBVk1GMmROUk1FO-HdNamd3TURBd01EQTBRemszQUFBQXhtc1dBa2U3b3VMbG4tamFYUnZRRVNNMDNfc1h4ZE9SY-W9DYVJHYWJwTHJxc1pqY191b0FzWktmcFhnbnVMUHBiOHVSa1ZXTnZoQWEybmkyeFZGN0FRMWtpajIxQ0E2X0pOYUxndHZQSUFWNmpoV01VSWwtcmplM1BxX19kVzBuRnFSenNsOTZ5djc2NnE3YWE1Yn-ZkMDJyZHF2VHBRejM4ald6LW9PbnNuUWq1c2E3TD1FeWhIaERwQVVybDFWWGJ5UG5tWkZsVWFrQU-JUTFdDbFRfcVhaeU4zSjN4aFNhWW5MYzctWWlCRDhWcnNlaFdVeVAwZHA3UW9ldTVSVmt3USZiaW5k-PXBvc3QmLw==" Jan 24 22:00:05 <local0.debug> 10.105.157.60 01/24/2016:22:00:05 GMT 0-PPE-0 : default SSLVPN Message 4114 0 : "UnifiedGateway: SSOID update skipped due to StepUp or LoginOnce OFF, user: u3test" Jan 24 22:00:05 <local0.debug> 10.105.157.60 01/24/2016:22:00:05 GMT 0-PPE-0 : default AAATM Message 4115 0 : "SAML: SendAssertion: Response tag is <samlp:Response xmlns:samlp="urn:oasis:names:tc:SAML:2.0:protocol" Destination="https://ctxnstest-dev-ed.my.oamtest.com?so=00D280000017RJa" ID=" c270d0f96123132442d36933c567946d" IssueInstant="2016-01-24T22:00:05Z"

Version="2.0"><saml:Issuer xmlns:saml="urn:oasis:names:tc:SAML:2.0:assertion" Fo
rmat="urn:oasis:names:tc:SAML:2.0:nameid-format:entity">https://nssaml.abc.com/
saml/login</saml:Issuer><samlp:Status><samlp:StatusCode Value="urn:oasis:names:t
c:SAML:2.0:status:Success"></samlp:StatusCode></samlp:Status>"

Jan 24 22:00:05 <local0.debug> 10.105.157.60 01/24/2016:22:00:05 GMT 0-PPE-0 : default AAATM Message 4116 0 : "SAML: SendAssertion: Assertion tag is <saml:Assertion xmlns:saml="urn:oasis:names:tc:SAML:2.0:a ssertion" ID=" c270d0f96123132442d36933c567946" IssueInstant="2016-01-24T22:00:05Z" Version="2.0"><saml:Issuer Format="urn:oasis:names:tc:SAML: 2.0:nameid-format:entity">https://nssaml.abc.com/saml/login</saml:Issuer ><saml:Subject><saml:NameID Format="urn:oasis:names:tc:SAML:1.1:nameidformat:unspecified">U3Test@ctxns.com</saml:NameID><saml:SubjectConfirmati</pre> on Method="urn:oasis:names:tc:SAML:2.0:cm:bearer"><saml:SubjectConfirmat ionData NotOnOrAfter="2016-01-24T22:15:05Z" Recipient="https://ctxnstestdev-ed.my.oamtest.com?so=00D280000017RJa"></saml:SubjectConfirmationData></ saml:SubjectConfirmation></saml:Subject><saml:Conditions NotBefore="2016-01-24T21:45:05Z" NotOnOrAfter="2016-01-24T22:15:05Z"><saml:AudienceRestrictio n><saml:Audience>https://ctxnstest-dev-ed.my.oamtest.com</saml:Audience></ saml:AudienceRestriction></saml:Condition</pre> Jan 24 22:00:05 <local0.debug> 10.105.157.60 01/24/2016:22:00:05 GMT 0-PPE-0 : default AAATM Message 4117 0 : "SAML: SendAssertion, Digest Method SHA1, SignedInfo used for digest is <ds:SignedInfo xmlns:ds="http://www. w3.org/2000/09/xmldsig#"><ds:CanonicalizationMethod Algorithm="http://www. w3.org/2001/10/xml-exc-c14n#"></ds:CanonicalizationMethod><ds:SignatureMeth od Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-sha1"></ds:SignatureMetho d><ds:Reference URI="# c270d0f96123132442d36933c567946"><ds:Transforms><ds:T ransform Algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-signature"></ ds:Transform><ds:Transform Algorithm="http://www.w3.org/2001/10/xml-exccl4n#"></ds:Transform></ds:Transforms><ds:DigestMethod Algorithm="http://www. w3.org/2000/09/xmldsig#sha1"></ds:DigestMethod><ds:DigestValue>LrFDqlqJA/29P9jWE1 MXnbynS48=</ds:DigestValue></ds:Reference></ds:SignedInfo>" Jan 24 22:00:05 <local0.debug> 10.105.157.60 01/24/2016:22:00:05 GMT 0-PPE-0 : default AAATM Message 4118 0 : "SAML: SendAssertion, Signature element is <ds:Signature xmlns:ds="http://www.w3.org/2000/09/xmldsig#"><ds:SignedInfo xmlns:ds="http://www.w3.org/2000/09/xmldsig#"><ds:CanonicalizationMethod Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"></ds:CanonicalizationMethod> <ds:SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-shal"></ds:SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-shal"></ds:SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-shal"></ds:SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-shal"></ds:SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-shal"></ds:SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-shal"></ds:SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-shal"></ds:SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-shal"></ds:SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-shal"></ds:SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-shal"</ds:SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-shal"</p> ignatureMethod><ds:Reference URI="# c270d0f96123132442d36933c567946"><ds:Transf orms><ds:Transform Algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-signature"></ds:Transform><ds:Transform Algorithm="http://www.w3.org/2001/10/xml-excc14n#"></ds:Transform></ds:Transforms><ds:DigestMethod Algorithm="http://www. w3.org/2000/09/xmldsig#sha1"></ds:DigestMethod><ds:DigestValue>LrFDglgJA/29P9jWE1 MXnbynS48=</ds:DigestValue></ds:Reference></ds:SignedInfo><ds:SignatureValue>HU1 oBZCHXn7L2/qKT2LzwD13QvlONjsapEBkXlQNbwG83VC61UdTnDFWmn+9RP5QmZt60TvbfCaVx2vVuM zDFi82oO9Rvw3N4TQjnSlFatg3JKDHuOEUfi4pBxJr

Conclusion

NetScaler provides a secure and seamless experience with OAM by enabling single sign-on to OAM accounts, avoiding the need for users to remember multiple passwords and user IDs, while reducing the administrative overhead involved in maintaining these deployments.

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