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Related Information

Introduction

The Security Assertion Markup Language (SAML) interaction between Cisco Identity Service (IdS) and Active Directory Federation Services (AD FS) via a browser is the core of Single-Sign on (SSO) log in flow. This document will help you in debugging issues related to configurations in Cisco IdS and AD FS, along with the recommended action to resolve them.

Cisco IdS Deployment Models

Product Deployment

UCCX Co-resident

PCCE Co-resident with CUIC (Cisco Unified Intelligence Center) and LD (Live Data)

UCCE Co-resident with CUIC and LD for 2k deployments.

Standalone for 4k and 12k deployments.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Cisco Unified Contact Center Express (UCCX) Release 11.5 or Cisco Unified Contact Center Enterprise Release 11.5 or Packaged Contact Center Enterprise (PCCE) Release 11.5 as applicable.
- Microsoft Active Directory AD installed on Windows Server
- IdP (Identity Provider) Active Directory Federation Service (AD FS) Version 2.0/3.0

Components Used

This document is not restricted to specific software and hardware versions.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Background Information

After the trust relationship is established between Cisco IdS and AD FS (see here for details, common for UCCX and UCCE), the administrator is expected to run Test SSO Set up in the Settings page of Identity Service Management to ensure that the configuration between Cisco IdS and AD FS works fine. If the test fails, use the appropriate applications and suggestions given in this guide to resolve the issue.

Applications and logs that can be handy in debugging

Application/Log	p Details	Where to find the tool
Cisco IdS log	Cisco IdS logger will log any error that happened in Cisco IdS.	Use RTMT to get Cisco IdS logs. For information on how to use RTMT set Guide to Use RTMT Please note that the RTMT name is Cisco Identity Service. In order to the logs, navigate to Cisco Identity Service > log
Fedlet Logs	Fedlet logs will give more details about any SAML errors that happens in Cisco IdS	Use RTMT to get Fedlet logs. The location for Fedlet log is same the Cisco IdS logs. The fedlet logs start with the prefix fedlet-
Cisco IdS API metrics	API metrics can be used to look into and validate any errors that Cisco IdS APIs may have returned	Use RTMT to get API metrics. Please note that the RTMT name is

and number of requests that are processed by Cisco idS	Cisco Identity Service	
	This will appear under a separate	
	folder metrics . Please note that	
	saml_metrics.csv and	
	authorize_metrics.csv are the	
	relevant metrics for this document.	
	In AD FS machine, navigate to Eve	
Allows users to view the event logs in the system. Any error in AD FS while processing the SAML request/sending the SAML response will be logged here.	Viewer >Applications and Service	
	Logs >AdDFS 2.0 > Admin	
	In Windows 2008, launch Event Vie	
	from Control Panel > Performance	
	and Maintenance > Administrativ	
	Tools	
	In Windows 2012, launch it from	
	Control Panel\System and Security\Administrative Tools.	
	documentation to see where to find	
	Event Viewer.	
		These are some suggested SAML
·	viewers that you can use for looking	
	the SAML request and response 1. Fiddler How to use fiddler with	
	AD FSFiddler Chrome Plugin	
11119 010/0951 90011/911011 19 7517 195101 101 1115		
analysis of SAML Request/Response.	2. SAML Tracer - Firefox	
	Allows users to view the event logs in the system. Any error in AD FS while processing the SAML request/sending the SAML response will be logged here. A SAML Viewer will help in looking at the SAML Request and Response that are sent from/to Cisco IdS.	

Flow Diagram with Debugging options

The various steps for SSO authentication is shown in the image along with and debugging artifacts at each step in case of a failure in that step.

This table gives the details on how to identify failures at each step of SSO in the browser. The different tools and how can they help in debugging is specified as well.

Processing displayed by AD FS server instead while the request is processed.

	, ,	•	
Step	How to identify the failure in the Browser	Tools/Log	Configurations to look at
AuthCode Request Processing by Cisco IdS	Cisco IdS, which indicates that the	authcode request is validated and processed.	Client Registration
SAML Request Initiation by Cisco IdS	redirected to AD FS, and an error page/message will be shown by	Cisco IdS logs- Indicates whether there is an exception or not while the request is initiated. Cisco IdS API metrics - Indicates the number of requests	Cisco IdS in NOT_CONFIGURED state.
SAML Request	Any failure to process this request will result in an error page being displayed by AD ES server instead	processed and failed. Event Viewer in AD FS- Indicates the errors which occur while the request is processed.	Relying Party Trust Configuration in IdP

SAML Browser Plugin - Helps to see the SAML request which is by AD FS of the login page. sent to the AD FS. Sending Any failure to send the response Event Viewer in AD FS -SAML results in an error page being Indicates the errors which occur displayed by AD FS server after the Response while the request is processed. by AD FS valid credentials are submitted.

 Relying Party Trust Configuration in IdP Form

> Authentication setting in AD FS.

SAML Response processing by Cisco IdS

Cisco IdS will show a 500 error with see the SAML response sent by the error reason and a quick check AD FS to identify what is wrong. page.

Event Viewer in AD FS -Indicates the error if AD FS sends a SAML response without a successful status code. SAML Browser Plugin - Helps to Cisco IdS log - Indicates the error/exception occurred during the processing. Cisco IdS API metrics - Indicates the number of requests processed and failed.

 Claim Rules Configuration

 Message and Assertion Signing

Authcode Request Processing by Cisco IdS

The starting point of SSO login, as far as the Cisco IdS is concerned, is the request for an authorization code from an SSO enabled application. The API request validation is done to check if it is a request from a registered client. A successful validation results in the browser being redirected to the SAML endpoint of Cisco IdS. Any failure in the request validation results in an error page/JSON (JavaScript Object Notation) being sent back from Cisco IdS.

Common Errors Encountered during this Process

1. Client Registration Not Done

Problem Summary

Login request fails with 401 error on the browser.

Browser:

401 error with this message: {"error":"invalid_client", "error_description":"Invalid ClientId."

Cisco IdS Log:

2016-09-02 00:16:58.604 IST(+0530) [IdSEndPoints-51] WARN com.cisco.ccbu.ids IdSConfig: fb308a80050b2021f974f48a72ef9518a5e7ca69 does not exist 2016-09-02 00:16:58.604 IST(+0 Error Message ERROR com.cisco.ccbu.ids IdSOAuthEndPoint.java:45 - Exception processing auth request. org.apache.oltu.oauth2.common.exception.OAuthProblemException: invalid client, Invalid org.apache.oltu.oauth2.common.exception.OAuthProblemException.error(OAuthProblemException.error) com.cisco.ccbu.ids.auth.validator.IdsAuthorizeValidator.validateRequestParams(IdsAuthorizeValidator.validateRequestParams) com.cisco.ccbu.ids.auth.validator.IdSAuthorizeValidator.validateRequiredParameters(IdSAuthorizeValidator.validateRequiredParameters(IdSAuthorizeValidator.validateRequiredParameters) at org.apache.oltu.oauth2.as.request.OAuthRequest.validate(OAuthRequest.java:63)

Possible Cause

The client registration with Cisco IdS is not complete.

Recommended Navigate to Cisco IdS Management console and confirm if the client is registered success the clients before proceeding with SSO. Action

2. User Accesses Application using IP Address/ Alternate Host Name

Problem Login request fails with 401 error on the browser. Summary

Browser:

Error Message 401 error with this message: {"error":"invalid_redirectUri", "error_description":"Invlalid

Redirect Uri"}

User accesses application using IP Address/ Alternate Host Name.

In SSO mode, if the application is accessed using IP, it does not work. Applications should **Possible** be accessed by the hostname by which they are registered in Cisco IdS. This issue can Cause

happen if user accessed an alternate host name that is not registered with Cisco IdS.

Recommended

Navigate to Cisco IdS Management console and confirm if the client is registered with th correct redirect URLand the same is used to access the application.

Action

SAML Request Initiation by Cisco IdS

SAML Endpoint of Cisco IdS is the starting point of the SAML flow in SSO based login. The initiation of the interaction between Cisco IdS and AD FS is triggered in this step. The prerequisite here is that the Cisco IdS should know the AD FS to connect to as the corresponding IdP metadata should be uploaded to Cisco IdS for this step to succeed.

Common Errors Encountered during this Process

1. AD FS Metadata not added to Cisco IdS

Problem Login request fails with 503 error on the browser. Summary

Browser:

Error Message 503 error with this message: {"error":"service_unavailable","error_description":"SAML

Metadata is not initialized"}

Idp Metadata is not available in Cisco IdS. Trust establishment between Cisco IdS an **Possible Cause**

FS is not complete.

Navigate to Cisco IdS Management console and see if the IdS is in **Not Configured** :

Confirm if IdP metadata is uploaded or not. Recommended

Action If not, upload the IdP metadata downloaded from AD FS.

For more details see here.

SAML Request Processing by AD FS

SAML Request Processing is the first step in the AD FS in the SSO flow. The SAML request sent by the Cisco IdS is read, validated and deciphered by AD FS in this step. Successful processing of this request results in two scenarios:

1. If it is a fresh log in in a browser, AD FS shows the login form. If it is a relogin of an already authenticated user from an existing browser session, AD FS attempts to send the SAML response back directly.

Note: The main prerequisite for this step is for the AD FS to have the replying party trust configured.

Common Errors Encountered during this Process

1. AD FS not having the latest Cisco IdS' SAML certificate.

Problem Summary

AD FS not showing the login page, instead shows an error page.

Browser

AD FS shows an error page similar to this:

There was a problem accessing the site. Try to browse to the site again.

If the problem persists, contact the administrator of this site and provide the reference nu problem.

Reference number: 1ee602be-382c-4c49-af7a-5b70f3a7bd8e

AD FS Event Viewer

Error Message The Federation Service encountered an error while processing the SAML authentication

Additional Data

Exception details: Microsoft.IdentityModel.Protocols.XmlSignature.SignatureVerification

MSIS0038: SAML Message has wrong signature. Issuer: 'myuccx.cisco.com'. at

Microsoft.IdentityServer.Protocols.Saml.Contract.SamlContractUtility.CreateSamlMessage

message) at

Microsoft.IdentityServer.Service.SamlProtocol.SamlProtocolService.CreateErrorMessage(C:

createErrorMessageRequest) at

Microsoft.IdentityServer.Service.SamlProtocol.SamlProtocolService.ProcessRequest (Message) Relying party trust is not established or Cisco IdS certificate has changed, but the same

Possible Cause

Action

AD FS.

Establish trust between AD FS and Cisco IdS with the latest Cisco IdS certificate.

Recommended Please ensure that the Cisco IdS Certificate is not expired. You can see the status dashi

Service Management. If so, regenerate the certificate in the Settings page.

For more details on how to establish metadata trust across ADFS & Cisco IdS see, here

SAML Response Sending by AD FS

The ADFS sends the SAML response back to the Cisco IdS via the browser after the user is successfully authenticated. ADFS can send a SAML response back with a status code which indicates Success or Failure. If form authentication is not enabled in AD FS then this will indicate a Failure response.

Common Errors Encountered during this Process

1. Form Authentication is not enabled in AD FS

Problem Summary Browser shows NTLM login, and then fails without successfully redirecting to Cisco

Sending SAML Response Step of Failure

Browser: Error Message

Browser shows NTLM login, but after successful log in, it fails with many redirects.

Cisco IdS supports only form based authentication, Form authentication is not enal

Possible Cause in AD FS.

For more details on how to enable Form authentication see:

Recommended

ADFS 2.0 Form Authentication Setting

Action ADFS 3.0 Form Authentication Setting

SAML Response Processing by Cisco IdS

In this stage, Cisco IdS gets a SAML response from AD FS. This response could contain a status code that indicates Success or Failure. An error response from AD FS results into an error page and the same has to be debugged.

During a successful SAML response, the processing of the request can fail for these reasons:

- Incorrect IdP (AD FS) metadata.
- Failure to retrieve expected outgoing claims from AD FS.
- Cisco IdS and AD FS clocks are not synchronized.

Common Errors Encountered during this Process

1. AD FS Certificate in Cisco IdS is not the latest.

Problem Summary

Login request fails with 500 error on the browser with Error Code as invalidSignature.

Step of Failure SAML Response processing

Browser:

500 error with this message in the browser:

Error Code: invalidSignature

Message: The signing certificate does not match what's defined in the entity metadata.

AD FS Event Viewer:

No error

Error Message Cisco IdS Log:

2016-04-13 12:42:15.896 IST(+0530) default ERROR [IdSEndPoints-0] com.cisco.ccbu.ids IdSEndPoint.java:102 - Exception processing request com.sun.identity.saml2.common.SAML2 signing certificate does not match what's defined in the entity metadata. at com.sun.identity.saml2.xmlsig.FMSigProvider.verify(FMSigProvider.java:331) at com.sun.identity.saml2.protocol.impl.StatusResponseImpl.isSignatureValid(StatusResponseImpl.isSignatur at com.sun.identity.saml2.profile.SPACSUtils.getResponseFromPost(SPACSUtils.java:985) com.sun.identity.saml2.profile.SPACSUtils.getResponse(SPACSUtils.java:196)

Possible Cause

SAML Response processing failed as IdP certificate is different from what is available in

Download the latest AD FS metadata from: https://<ADFSServer>/federationmetadata

Recommended 06/federationmetadata.xml

Action And upload it to Cisco IdS via the Identity Service Managament user interface.

For details, see Configure Cisco IdS and AD FS

2. Cisco IdS and AD FS clocks are not Synchronized.

Problem

Login request fails with 500 error on the browser with the status code:

Summary

urn:oasis:names:tc:SAML:2.0:status:Success

Step of Failure SAML Response processing

Browser:

500 error with this message:

IdP configuration error: SAML processing failed

SAML assertion failed from IdP with status code: urn:oasis:names:tc:SAML:2.0:status:S configuration and try again.

Cisco IdS Log

2016-08-24 18:46:56.780 IST(+0530) [IdSEndPoints-SAML-22] ERROR com.cisco.ccbu.ids Error Message IdSSAMLAsyncServlet.java:298 - SAML response processing failed with exception com.sun.identity.saml2.common.SAML2Exception: The time in SubjectConfirmationData is in com.sun.identity.saml2.common.SAML2Utils.isBearerSubjectConfirmation(SAML2Utils.java:70 com.sun.identity.saml2.common.SAML2Utils.verifyResponse(SAML2Utils.java:609) at com.sun.identity.saml2.profile.SPACSUtils.processResponse(SPACSUtils.java:1050) at com.sun.identity.saml2.profile.SPACSUtils.processResponseForFedlet(SPACSUtils.java:203 com.cisco.ccbu.ids.auth.api.IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLAsyncServlet.getAttri at com.cisco.ccbu.ids.auth.api.IdSSAMLAsyncServlet.processSamlPostResponse(IdSSAMLAsyncServlet.processSamlPost com.cisco.ccbu.ids.auth.api.IdSSAMLAsyncServlet.processIdSEndPointRequest(IdSSAMLAsyncServlet.processIdSEndPointRe com.cisco.ccbu.ids.auth.api.IdSEndPoint\$1.run(IdSEndPoint.java:269) at

java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1145) at java.util.concurrent.ThreadPoolExecutor\$Worker.run(ThreadPoolExecutor.java:615) at java.lang.Thread.run(Thread.java:745)2016-08-24 18:24:20.510 IST(+0530) [pool-4-thread-

SAML Viewer:

Look for the NotBefore and NotOnOrAfter fields

<Conditions NotBefore="2016-08-28T14:45:03.325Z" NotOnOrAfter="2016-08-28T15:45</p>

Possible Cause

Time in Cisco IdS and IdP system is out of sync.

Recommended Synchronize the Time in Cisco IdS and AD FS system. It is recommended that AD FS sy Action time synchronized using NTP Server.

3. Wrong Signature Algorithm (SHA256 vs SHA1) in AD FS

Problem Summary

Login request fails with 500 error on the browser with status

code:urn:oasis:names:tc:SAML:2.0:status:Responder

Error Message in AD FS Event View Log - Wrong Signature Algorithm(SHA256 vs SHA

Step of Failure SAML Response processing

Browser

500 error with this message:

IdP configuration error : SAML processing failed

SAML assertion failed from IdP with status code: urn:oasis:names:tc:SAML:2.0:status:R configuration and try again.

AD FS Event Viewer:

SAML request is not signed with expected signature algorithm. SAML request is signed Error Message http://www.w3.org/2001/04/xmldsig-more#rsa-sha256.

Expected signature algorithm is http://www.w3.org/2000/09/xmldsig#rsa-sha1

Cisco IdS Log:

ERROR com.cisco.ccbu.ids IdSSAMLAsyncServlet.java:298 - SAML response processing failed com.sun.identity.saml2.common.SAML2Exception: Invalid Status code in Response. at com.sun.identity.saml2.common.SAML2Utils.verifyResponse(SAML2Utils.java:425) at com.sun.identity.saml2.profile.SPACSUtils.processResponse(SPACSUtils.java:1050) at com.sun.identity.saml2.profile.SPACSUtils.processResponseForFedlet(SPACSUtils.java:203 $\verb|com.cisco.ccbu.ids.auth.api.IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLAsyncServlet.getA$

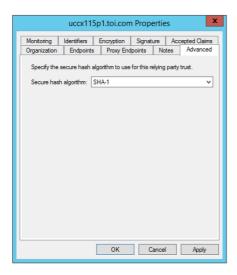
Possible Cause

AD FS is configured to use SHA-256.

Update AD FS to use SHA-1 for signing and encryption.

- 1. RDP to the AD FS system.
- 2. Open AD FS console.
- 3. Select the Relying Party Trust and click Properties
- 4. Select the **Advanced** tab.
- 5. Select SHA-1 from the drop-down list.

Recommended **Action**



4. Outgoing Claim Rule not Configured Correctly

Problem Summary

Login request fails with 500 error on the browser with message "Could not retrieve user response./Could not retrieve user principal from SAML response."

uid and/or user_principal not set in the outgoing claims.

Step of Failure SAML Response processing

Browser:

500 error with this message:

IdP configuration error : SAML processing failed.

Could not retrieve user identifier from SAML response./Could not retrieve user principal

AD FS Event Viewer:

No error

Error Message

Cisco IdS Log:

ERROR com.cisco.ccbu.ids IdSSAMLAsyncServlet.java:294 - SAML response processing failed com.sun.identity.saml.common.SAMLException: Could not retreive user identifier from SA com.cisco.ccbu.ids.auth.api.IdSSAMLAsyncServlet.validateSAMLAttributes(IdSSAMLAsyncServlet.validateSAMLAttributes) com.cisco.ccbu.ids.auth.api.IdSSAMLAsyncServlet.processSamlPostResponse(IdSSAMLAsyncServlet.processSamlPostRes com.cisco.ccbu.ids.auth.api.IdSSAMLAsyncServlet.processIdSEndPointRequest(IdSSAMLAsyncServlet.processIdSEndPointRe

Possible Cause

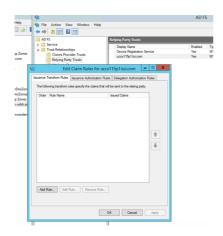
Mandatory outgoing claims (uid and user_principal) are not configured correctly in the C If you have not configured the NameID claim rule or either uid or user_principal is not co If NameID rule is not configured or user_principal is not mapped correctly, Cisco IdS inc user_principal is not retrieved since this is the property that Cisco IdS looks for.

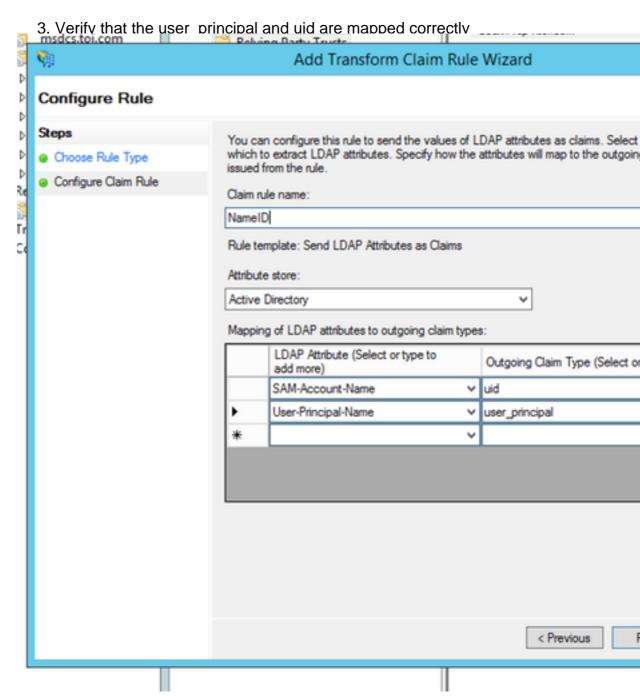
If uid is not mapped correctly, Cisco IdS indicates that uid is not retrieved.

Under AD FS claim rules, ensure that attributes mapping for "user_principal" and "uid" a Configuration guide(which guide?).

- 1. RDP to AD FS system.
- 2. Edit the Claim Rules for the relying party trust.

Recommended **Action**





5. Outgoing Claim Rule is not configured correctly in a Federated AD FS

Problem Summary

Login request fails with 500 error on the browser with message "Could not retrieve user SAML response, or Could not retrieve user principal from SAML response," when the AI Federated AD FS.

Step of Failure SAML Response processing

Browser

500 error with this message:

IdP configuration error: SAML processing failed

Could not retrieve user identifier from SAML response./ Could not retrieve user principal response.

Error Message

AD FS Event Viewer:

No error

Cisco IdS Log:

ERROR com.cisco.ccbu.ids IdSSAMLAsyncServlet.java:294 - SAML response processing failed com.sun.identity.saml.common.SAMLException: Could not retreive user identifier from SAI com.cisco.ccbu.ids.auth.api.IdSSAMLAsyncServlet.validateSAMLAttributes(IdSSAMLAsyncServlet.validateSAMLAttributes) com.cisco.ccbu.ids.auth.api.IdSSAMLAsyncServlet.processSamlPostResponse(IdSSAMLAsyncServlet.processSamlPostRes at

Possible

Cause

In a Federated AD FS there are more configurations required that could be missing.

Recommended Check if the AD FS configuration in Federated AD is done as per the section For a Mult Configuration for Federated AD FS in Configure Cisco IdS and AD FS Action

6. Custom Claim Rules not Configured Correctly

Problem

Login request fails with 500 error on the browser with message "Could not retrieve user response./Could not retrieve user principal from SAML response."

uid and/or user_principal not set in the outgoing claims.

Step of Failure SAML Response processing

Browser

500 error with this message:

SAML assertion failed from IdP with status code:

urn:oasis:names:tc:SAML:2.0:status:Requester/urn:oasis:names:tc:SAML:2.0:statu Verify IdP configuration and try again.

AD FS Event Viewer:

The SAML authentication request had a NamelD Policy that could not be satisfied.

Requestor: myids.cisco.com

Name identifier format: urn:oasis:names:tc:SAML:2.0:nameid-format:transient

SPNameQualifier: myids.cisco.com

Exception details:

MSIS1000: The SAML request contained a NameIDPolicy that was not satisfied by the is Error Message NameIDPolicy: AllowCreate: True Format: urn:oasis:names:tc:SAML:2.0:nameid-format:

SPNameQualifier: myids.cisco.com. Actual NameID properties: null.

This request failed.

User Action

Use the AD FS 2.0 Management snap-in to configure the configuration that emits the rec Cisco IdS Log:

2016-08-30 09:45:30.471 IST(+0530) [IdSEndPoints-SAML-82] INFO com.cisco.ccbu.ids SAML/ failed with code: 1. Response status: <samlp:Status> <samlp:StatusCode Value="urn:oasis:names:tc:SAML:2.0:status:Requester"> <samlp:StatusCode Value="urn:oasis:names:tc:SAML:2.0:status:InvalidNameIDPolicy"> </samlp:StatusCode> </s </samlp:Status> for AuthnRequest: n/a 2016-08-30 09:45:30.471 IST(+0530) [IdSEndPointscom.cisco.ccbu.ids IdSSAMLAsyncServlet.java:299 - SAML response processing failed with com.sun.identity.saml2.common.SAML2Exception: Invalid Status code in Response. at com.sun.identity.saml2.common.SAML2Utils.verifyResponse(SAML2Utils.java:425) at com.sun.identity.saml2.profile.SPACSUtils.processResponse(SPACSUtils.java:1050) at

Possible Cause

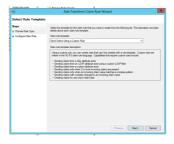
Custom claim rule is not configured correctly.

Under AD FS claim rules, ensure that attributes mapping for "user_principal" and "uid" a configuration guide(which guide?).

com.sun.identity.saml2.profile.SPACSUtils.processResponseForFedlet(SPACSUtils.java:203

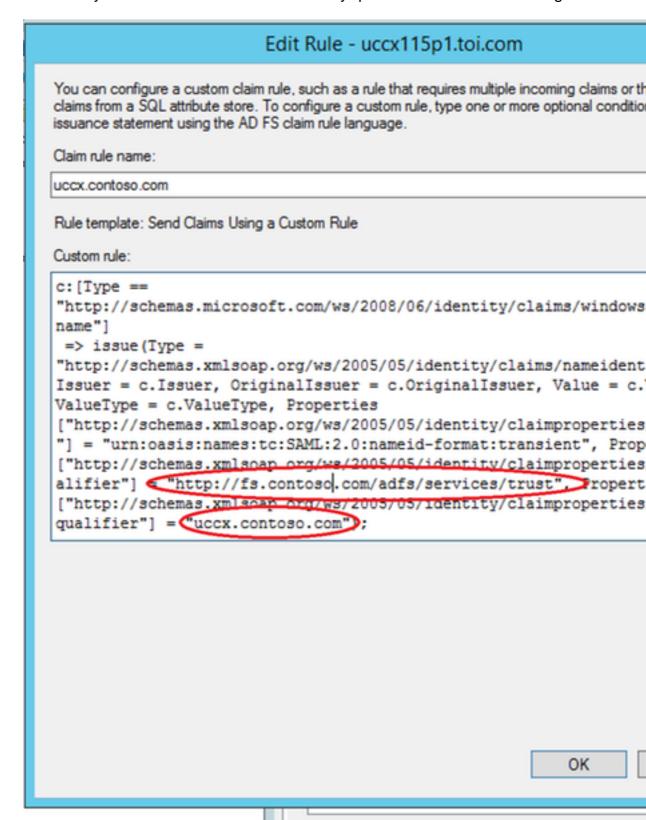
- 1. RDP to AD FS system.
- 2. Edit the Claim Rules for custom claim rules.

Recommended Action



Summary

3. Verify that the AD FS and Cisco IdS fully qualified domain names are given.



7. Too Many Requests to AD FS.

Problem

Login request fails with 500 error on the browser with status

code:urn:oasis:names:tc:SAML:2.0:status:Responder Summary Error Message in AD FS Event View Log indicates there are too many requests to AD F

Step of Failure SAML Response processing

Browser

Error Message 500 error with this message:

IdP configuration error : SAML processing failed

SAML assertion failed from IdP with status code: urn:oasis:names:tc:SAML:2.0:status:R configuration and try again.

AD FS Event Viewer:

Microsoft.IdentityServer.Web.InvalidRequestException:

MSIS7042: The same client browser session has made '6' requests in the last '16' seconds. Contact your administrator for details.

at Microsoft.IdentityServer.Web.FederationPassiveAuthentication.UpdateLoopDetection at

Microsoft.IdentityServer.Web.FederationPassiveAuthentication.SendSignInResponse(Mresponse)

Event Xml: <Event xmlns="http://schemas.microsoft.com/win/2004/08/events/event"> <Systems 2.0" Guid="{20E25DDB-09E5-404B-8A56-EDAE2F12EE81}" /> <EventID>364</EventID> <Version 2.0" Guid="{20E25DDB-09E5-404B-8A56-EDAE2F12EE81}" /> <EventID>364</EventID> <Version 3.0" <EventID>20E26DB-09E5-404B-8A56-EDAE2F12EE81}" /> <EventID>364</EventID> <EventID>364</EventID>364</EventID> <EventID>364</EventID>364</EventID> <EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</EventID>364</E

Cisco IdS Log

2016-04-15 16:19:01.220 EDT(-0400) default ERROR [IdSEndPoints-1] com.cisco.ccbu.ids Id Exception processing request com.sun.identity.saml2.common.SAML2Exception: Invalid State com.sun.identity.saml2.common.SAML2Utils.verifyResponse(SAML2Utils.java:425) at com.sun.identity.saml2.profile.SPACSUtils.processResponse(SPACSUtils.java:1050) at com.sun.identity.saml2.profile.SPACSUtils.processResponseForFedlet(SPACSUtils.java:2038) com.cisco.ccbu.ids.auth.api.IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse

Possible Cause

There are too many requests coming to AD FS from the same browser session.

This should typically not happen in production. But if you encounter this, you can:

Recommended

- 1. Check AD FS Windows Event Viewer.
- Action
- 2. Recheck the Relying Party Trust Settings. For more details, see Configure Cisco Id
- 3. Relogin.

8. AD FS is not Configured to Sign both Assertion and Message.

Problem Summary Step of Failure

Login request fails with 500 error on the browser with Error Code:invalidSignature

Step of Failure SAML Response processing

Browser

500 error with this message: Error Code:invalidSignature

Message:Invalid signature in ArtifactResponse.

Cisco IdS Log:

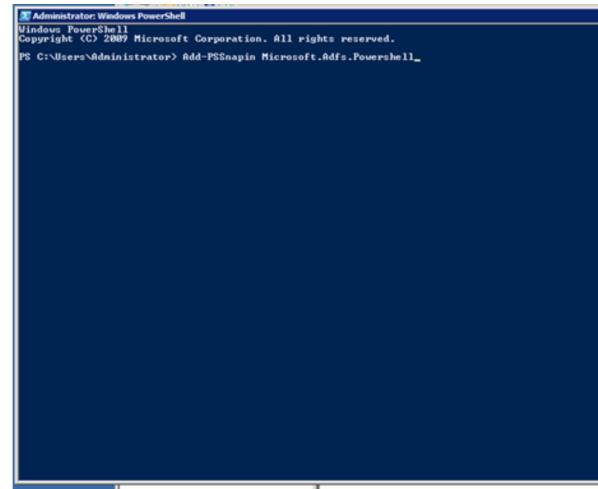
Error Message

2016-08-24 10:53:10.494 IST(+0530) [IdSEndPoints-SAML-241] INFO saml2error.jsp saml2erroresponse processing failed with code: invalidSignature; message: Invalid signature in A 08-24 10:53:10.494 IST(+0530) [IdSEndPoints-SAML-241] ERROR com.cisco.ccbu.ids IdSSAMLA SAML response processing failed with exception com.sun.identity.saml2.common.SAML2Excer in Response. at com.sun.identity.saml2.profile.SPACSUtils.getResponseFromPost(SPACSUtils.com.sun.identity.saml2.profile.SPACSUtils.getResponse(SPACSUtils.java:196) at com.sun.identity.saml2.profile.SPACSUtils.processResponseForFedlet(SPACSUtils.java:2028com.cisco.ccbu.ids.auth.api.IdSSAMLAsyncServlet.getAttributesMapFromSAMLResponse(IdSSAMLASYNCSERVLET)

Possible Cause

AD FS is not configured to sign both Assertion and Message.

- Run the AD FS powershell command: Set-ADFSRelyingPartyTrust -TargetName Identifier> -SamlResponseSignature "MessageAndAssertion"
- 2. RDP to AD system.
- 3. Open **Powershell**.
- 4. Add Windows PowerShell snap-ins to the current session. This step may not be red ADFS 3.0 since the CmdLet is already installed as a part of adding the roles and fe



Recommended Action

5. Add AD FS Relving party trust for message and assertion.

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Related Information

This is related to the configuration of Identity Provider described in the article:

- https://www.cisco.com/c/en/us/support/docs/customer-collaboration/unified-contact-center-express/200612-Configure-the-Identity-Provider-for-UCCX.html
- Technical Support & Documentation Cisco Systems