Configuración de una Conexión/Acuerdo IDP de SAML por Clúster con AD FS versión 2.0

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Introducción

Este documento describe cómo configurar la conexión/acuerdo por clúster del proveedor de identidad (IdP) del Lenguaje de marcado de aserción de seguridad única (SAML) con el Servicio de federación de directorios activos (AD FS).

Prerequisites

Requirements

Cisco recomienda que tenga conocimiento sobre estos temas:

- Cisco Unified Communications Manager (CUCM) 11.5 o posterior
- Cisco Unified Communications Manager IM and Presence versión 11.5 o posterior
- Servicio de federación de Active Directory versión 2.0

Componentes Utilizados

La información que contiene este documento se basa en estas versiones de software:

- Servicio de federación de Active Directory versión 2.0 como IdP
- Cisco Unified Communications Manager versión 11.5
- Cisco IM and Presence Server versión 11.5

Antecedentes

Para SAML SSO, debe ser un círculo de confianza entre el proveedor de servicios (SP) y el IdP. Esta confianza se crea como parte de Habilitación de SSO, cuando se intercambia confianza (metadatos). Descargue los metadatos de CUCM y los carga en IdP, descargue los metadatos de IdP y cárguelos en CUCM.

Antes de CUCM 11.5, el nodo de origen genera el archivo de metadatos, y también recopila los archivos de metadatos de otros nodos del clúster. Agrega todos los archivos de metadatos a un único archivo zip y luego se presenta al administrador. El administrador debe descomprimir este archivo y aprovisionar cada archivo en el IdP. Por ejemplo, 8 archivos de metadatos para un clúster de 8 nodos.

La única función SAML IdP de conexión/acuerdo por clúster se introduce a partir de 11.5. Como parte de esta función, CUCM genera un único archivo de metadatos del proveedor de servicios para todos los nodos CUCM e IMP del clúster. El nuevo formato de nombre para el archivo de metadatos es **<hostname>-single-agreement.xml**

Básicamente, un nodo crea los metadatos y los envía a otros nodos SP del clúster. Esto facilita el aprovisionamiento, el mantenimiento y la gestión. Por ejemplo, 1 archivos de metadatos para un clúster de 8 nodos.

El archivo de metadatos de todo el clúster utiliza el certificado de tomcat de servidor múltiple que garantiza que el par de claves se utiliza es el mismo para todos los nodos del clúster. El archivo de metadatos también tiene una lista de URL del Servicio de consumidor de afirmación (ACS) para cada nodo del clúster.

CUCM y Cisco IM and Presence versión 11.5 Admite los modos SSO, en todo el **clúster** (un archivo de metadatos por clúster) y por nodo (modelo existente).

Este documento describe cómo configurar el modo de clúster de SAML SSO con AD FS 2.0.

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.

Configurar

Paso 1. Exportar metadatos SP de CUCM

Abra un navegador web, inicie sesión en CUCM como administrador y navegue **a System >SAML** Single Sign On.

De forma predeterminada, se selecciona el botón de opción **Clúster Wide**. Haga clic en **Exportar todos los metadatos.** El archivo de datos de metadatos presentado al administrador con el nombre **<hostname>-single-agreement.xml**



Paso 2. Descargar metadatos IDP de AD FS

Para descargar los metadatos de IdP, consulte el enlace <u>https:// <FQDN de</u> <u>ADFS>/federationmetadata/2007-06/federationmetadata.xml</u>

Paso 3. IdP de aprovisionamiento

Como se muestra en la imagen, navegue hasta AD FS 2.0 Management/Trust Relation Ships/ Confiying Party trust. Haga clic en Agregar confianza de persona de confianza.

	_8×
Relying Party Trusts	Actions
Display Name	Relying Party Trusts
- 5 - 5 - 9 - 5	Add Relying Party Trust
	View New Window from Here
	C Refresh
	Melp
	Relying Party Trusts Display Name

El Asistente para agregar confianza de terceros se abre como se muestra en la imagen y ahora haga clic en **Inicio**.

Madd Relying Party Trus	t Wizard	×
Welcome		
Steps Welcome Select Data Source Choose Issuance Authorization Rules Ready to Add Trust Finish	Welcome to the Add Relying Party Trust Wizard This wizard will help you add a new relying party trust to the AD FS configuration database. Relying parties consume claims in security tokens that are issued by this Federation Service to make authentication and authorization decisions. The relying party trust that this wizard creates defines how this Federation Service recognizes the relying party and issues claims to it. You can define issuance transform rules for issuing claims to the relying party after you complete the wizard.	
	CPrevious Start Cancel Help	

Haga clic en los datos de importación de una persona que confía en un archivo. Examine los metadatos SP descargados de la página de configuración SSO de CUCM SAML. A continuación, haga clic en **Next**, como se muestra en la imagen:

http://www.commons.com/actions/action/actions/action/actio	st Wizard	×
Select Data Source		
Steps Velcome Select Data Source Choose Issuance Authorization Rules Ready to Add Trust Finish	Select an option that this wizard will use to obtain data about this relying party: Import data about the relying party published online or on a local network. Use this option to import the necessary data and certificates from a relying party organization that publishes its federation metadata online or on a local network. Eederation metadata address (host name or URL): Example: fs. contoso.com or https://www.contoso.com/app Import data about the relying party from a file Use this option to import the necessary data and certificates from a relying party organization that has exported its federation metadata to a file. Ensure that this file is from a trusted source. This wizard will not validate the source of the file. Federation metadata file location: E:\Users\Administrator\Desktop\Cluster_Wide\cucm1150-single-agreement.xml Browse C Inter data about the relying party manually Use this option to manually input the necessary data about this relying party organization. 	
	< Previous Next > Cancel Help	

Escriba el nombre mostrado y las notas opcionales para la persona que confía. Haga clic en **Next**., como se muestra en la imagen:

📬 Add Relying Party Trust	Wizard	×
Specify Display Nam	e	
Steps	Type the display name and any optional notes for this relying party.	
 Welcome Select Data Source 	Display name:	
Specify Display Name	CUCM_Cluster_Wide_Relying_Party_trust	
 Choose Issuance Authorization Rules Ready to Add Trust Finish 	Notes:	×
	< Previous Next > Ca	ncel Help

Seleccione **Permitir que todos los usuarios accedan a esta persona de confianza** para permitir que todos los usuarios accedan a esta persona de confianza y, a continuación, haga clic en **Siguiente**, como se muestra en la imagen:

📬 Add Relying Party Trust	: Wizard
Choose Issuance Au	thorization Rules
Steps Velcome Select Data Source Specify Display Name Choose Issuance Authorization Rules Ready to Add Trust Finish	Issuance authorization rules determine whether a user is permitted to receive claims for the relying party. Choose one of the following options for the initial behavior of this relying party's issuance authorization rules. • Permit gli users to access this relying party The issuance authorization rules will be configured to permit all users to access this relying party. The relying party service or application may still deny the user access. • Deny all users access to this relying party The issuance authorization rules will be configured to deny all users access to this relying party. You must later add issuance authorization rules to enable any users to access this relying party. You must later add issuance authorization rules to enable any users to access this relying party. You can change the issuance authorization rules for this relying party trust by selecting the relying party trust and clicking Edit Claim Rules in the Actions pane.
	< Previous Next > Cancel Help

En la página **Ready to Add Trust** (Listo para agregar confianza), puede revisar la configuración de la confianza de la persona que confía, que se ha configurado. Ahora haga clic en **Next**, como se muestra en la imagen:

Steps	The relying party trust has been configured. Review the following settings, and then click Next to add the
Welcome	relying party trust to the AD FS configuration database.
Select Data Source Specify Display Name Choose Issuance Authorization Bulas	Monitoring Identifiers Encryption Signature Accepted Claims Organization Endpoints N.
Readu to Add Taret	Relying party's federation metadata URL:
Finish	 Monitor relying party Automatically update relying party This relying party's federation metadata data was last checked on: < never > This relying party was last updated from federation metadata on: < never >

La página final confirma que la confianza de la parte que confía se ha agregado correctamente a la base de datos de configuración de AD FS. Desactive la casilla y haga clic en **Cerrar**, como se muestra en la imagen:

📬 Add Relying Party Trus	t Wizard
Finish	
Steps Welcome Select Data Source Specify Display Name Choose Issuance Authorization Rules Ready to Add Trust Finish	The relying party trust was successfully added to the AD FS configuration database. You can modify this relying party trust by using the Properties dialog box in the AD FS 2.0 Management snap-in.

Haga clic con el botón derecho del ratón en **Confiar en los Fideicomisos** y haga clic en **Editar Reglas de Reclamación**, como se muestra en la imagen:

AD FS 2.0	Heb			- O ×
(* *) (2) (m) 🖸 (m)				
AD FS 2.0	Relying Party Trusts			Actions
Service Trust Relationships	Display Name 💌	Enabled	Identifier	Relying Party Trusts 🔺 🔺
Claims Provider Trusts	CUCM_Cluster_Wide_Relying_Party_trust	Yes	cucm1150.adls.ucce.com	Add Relying Party Trust
Relying Party Trusts				View
ACTING Stores	1			New Window from Here
	1			G Refresh
				👔 Help
				CUCM_Cluster_Wide_Relying_Party_trust
	1			Update from Federation Metadata
	1			Edit Claim Rules
	1			Disable
	1			Properties
	1			× Delete
				Help
				1 -

Ahora haga clic en Agregar regla., como se muestra en la imagen:

Edit Claim Rules for CUCM_Cluster_Wide_R	telying_Party_trust	_ 🗆 🗙
Issuance Transform Rules Issuance Authorization	Rules Delegation Authorization R	ules
The following transform rules specify the claims th	at will be sent to the relying party.	
Order Dule Name	Loured Claims	
		1
Add Dula L Edit Dula L Damaus Dul		
	3	
 пк 1	Cancel Applu	Help
	Concor Appy	Пар

Cuando se abra Add Transform Claim Rule, haga clic en Next con la plantilla de regla de reclamación predeterminada Send LDAP Attributes as Clas, como se muestra en la imagen:

Choose Rule Type provides details about each claim rule template. Configure Claim Rule Claim rule template: Send LDAP Attributes as Claims Claim rule template description: Using the Send LDAP Attribute as Claims rule template you can select attributes from an LDAP attribute store such as Active Directory to send as claims to the relying party. Multiple attributes more and the template to create a rule that will estract attribute values for authenticated users from the displayName and telephoneNumber Active Directory attributes and then send those values as two different outgoing claims. This rule may also be used to send all of the user's group memberships. If you want to only send individual group memberships, use the Send Group Membership as a Claim rule template. Tell me more about this rule template	teps	Select the template for the claim rule that you want to create from the following list. The description
Configure Claim Rule Claim rule template: Send LDAP Attributes as Claims Claim rule template description: Using the Send LDAP Attribute as Claims rule template you can select attributes from an LDAP attribute store such as Active Directory to send as claims to the relying party. Multiple attributes may be sent as multiple claims from a single rule using this rule type. For example, you can use this rule template to create a rule that will extract attribute values for authenticated users from the displayName and telephoneNumber Active Directory attributes and then send those values as two different outgoing claims. This rule may also be used to send all of the user's group memberships. If you want to only send individual group memberships, use the Send Group Membership as a Claim rule template. Tell me more about this rule template	Choose Rule Type	provides details about each claim rule template.
Send LDAP Attributes as Claims Claim rule template description: Using the Send LDAP Attribute as Claims rule template you can select attributes from an LDAP attribute store such as Active Directory to send as claims to the relying party. Multiple attributes may be sent as multiple claims from a single rule using this rule type. For example, you can use this rule template to create a rule that will extract attribute values for authenticated users from the displayName and telephoneNumber Active Directory attributes and then send those values as two different outgoing claims. This rule may also be used to send all of the user's group memberships. If you want to only send individual group memberships, use the Send Group Membership as a Claim rule template. Tell me more about this rule template	Configure Claim Rule	Claim rule template:
Claim rule template description: Using the Send LDAP Attribute as Claims rule template you can select attributes from an LDAP attribute store such as Active Directory to send as claims to the relying party. Multiple attributes may be sent as multiple claims from a single rule using this rule type. For example, you can use this rule template to create a rule that will extract attribute values for authenticated users from the displayName and telephoneNumber Active Directory attributes and then send those values as two different outgoing claims. This rule may also be used to send all of the user's group memberships. If you want to only send individual group memberships, use the Send Group Membership as a Claim rule template. <u>Tell me more about this rule template</u>		Send LDAP Attributes as Claims
Using the Send LDAP Attribute as Claims rule template you can select attributes from an LDAP attribute store such as Active Directory to send as claims to the relying party. Multiple attributes may be sent as multiple claims from a single rule using this rule type. For example, you can use this rule template to create a rule that will extract attribute values for authenticated users from the displayName and telephoneNumber Active Directory attributes and then send those values as two different outgoing claims. This rule may also be used to send all of the user's group memberships. If you want to only send individual group memberships, use the Send Group Membership as a Claim rule template.		Claim rule template description:
		Using the Send LDAP Attribute as Claims rule temptate you can select attributes from an LDAP attribute store such as Active Directory to send as claims to the relying party. Multiple attributes may be sent as multiple claims from a single rule using this rule type. For example, you can use this rule temptate to create a rule that will extract attribute values for authenticated users from the displayName and telephoneNumber Active Directory attributes and then send those values as two different outgoing claims. This rule may also be used to send all of the user's group memberships. If you want to only send individual group memberships, use the Send Group Membership as a Claim rule template. <u>Tell me more about this rule template</u>

Haga clic en **Configurar regla de reclamación** como se muestra en esta imagen. El atributo LDAP debe coincidir con el atributo LDAP en la configuración del directorio LDAP en CUCM. Administrar el tipo de reclamación saliente como **uid**. Haga clic en **Finalizar**, como se muestra en la imagen:

Add Transform Claim R	ule Wizard				×
Configure Rule					
Steps Choose Rule Type Configure Claim Rule	You o which issue Claim	an configure this rule to send the to extract LDAP attributes. Spe d from the rule. rule name:	e values of L cify how the	DAP attributes as claims. Select an attribute store attributes will map to the outgoing claim types that	from t will be
	Name Rule Attrib	HD template: Send LDAP Attributes : ute store:	as Claims		
	Activ	e Directory ing of LDAP attributes to outgoin	ng claim type	• •	
		LDAP Attribute		Outgoing Claim Type	-
	*		-		-
			< Pre	evious Finish Cancel	Help

Agregue la regla personalizada para la persona de confianza. Haga clic en **Agregar regla**. Seleccione **Enviar justificantes de venta utilizando una regla personalizada** y, a continuación, haga clic en **Siguiente,** como se muestra en la imagen:

🍿 Add Transform Claim Ru	le Wizard	×			
Select Rule Template					
Steps	Select the template for the claim rule that you want to create from the following list. The description				
Choose Hule Type Configure Claim Pule	Claim side template:				
Conligue claim nue	Send Claims Using a Custom Rule				
	Claim rule template description:				
	Using a custom rule, you can create rules that can't be created with a rule template. Custom rules are written in the AD FS 2.0 claim rule language. Capabilities that require custom rules include: Sending claims from a SQL attribute store Sending claims from a custom attribute store Sending claims only when 2 or more incoming claims are present Sending claims with complex changes to an incoming claim value Tell me more about this rule template 				
	< <u>Previous</u> Cancel Help]			

En la regla Configurar reclamación, escriba un Nombre de regla de reclamación y, a continuación, copie la regla de reclamación dada y pasada en el campo Regla personalizada del asistente modificando el calificador de nombre y nombre de archivo en la regla de reclamación. Haga clic en **Finalizar**., como se muestra en la imagen:

Regla de reclamación:

```
c:[Type == "http://schemas.microsoft.com/ws/2008/06/identity/claims/windowsaccountname"]
=> issue(Type = "http://schemas.xmlsoap.org/ws/2005/05/identity/claims/nameidentifier", Issuer =
c.Issuer, OriginalIssuer = c.OriginalIssuer, Value = c.Value, ValueType = c.ValueType,
Properties["http://schemas.xmlsoap.org/ws/2005/05/identity/claimproperties/format"] =
"urn:oasis:names:tc:SAML:2.0:nameid-format:transient",
Properties["http://schemas.xmlsoap.org/ws/2005/05/identity/claimproperties/namequalifier"] =
"http://<FQDN of ADFS>/adfs/com/adfs/services/trust",
Properties["http://schemas.xmlsoap.org/ws/2005/05/identity/claimproperties/spnamequalifier"] =
"<Entity ID in the SP Metadata>");
```

Entity ID = Open the SP metadata and check the Entity ID. Basically, its the CUCM Publisher's FQDN.

http://www.claim.c	ule Wizard				
Configure Rule					
Steps	You can configure a custom claim rule, such as a rule that requires multiple incoming claims or that extracts				
Choose Rule Type	claims from a SQL attribute store. To configure a custom rule, type one or more optional conditions and an issuance statement using the AD ES 2.0 claim rule language.				
Configure Claim Rule	Claim rule name:				
	Cluster_Side_Claim_Rule				
	Rule template: Send Claims Using a Custom Rule Cystom rule:				
	<pre>ntname"] => issue(Type = "http://schemas.xmlsoap.org/ws/2005/05/identity/clains/nameidentifier ", Issuer = c.Issuer, OriginalIssuer = c.OriginalIssuer, Value = c.Value, ValueType = c.ValueType, Properties ["http://schemas.xmlsoap.org/ws/2005/05/identity/clainproperties/form at"] = "urn:oasis:names:tc:SAML:2.0:nameid-format:transient", Properties ["http://schemas.xmlsoap.org/ws/2005/05/identity/claimproperties/name qualifier"] = "http://win- jd4ia7ugmrm.adfs.ucce.com/adfs/com/adfs/services/trust", Properties ["http://schemas.xmlsoap.org/ws/2005/05/identity/claimproperties/spna mequalifier"] = "cucml150.adfs.ucce.com");</pre>				
	More about the claim rule language				
	< <u>Previous</u> Finish Cancel <u>H</u> elp				

Como se muestra en la imagen, haga clic en Aplicar y luego Aceptar.

2 2	NamelD Cluster_Side_Cla	aim_Rule	uid <see claim="" rule<="" th=""><th>e></th></see>	e>
				*
۰. . ת רך א		le Remove	Bula 1	

Paso 4. Habilitar SAML SSO

Abra un navegador web, inicie sesión en CUCM como administrador y navegue **a System >SAML** Single Sign On.

De forma predeterminada, se selecciona el botón de opción **Clúster Wide**. Haga clic en **Enable Saml SSO**, como se muestra en la imagen:



Como se muestra en la imagen, la ventana emergente notifica la advertencia de reinicio del servidor web e información para elegir el SSO SAML de clúster o el SSO SAML de nodo por nodo según idp. Haga clic en **Continue** (Continuar).



El criterio para habilitar el SSO en todo el clúster es que debe tener un certificado de tomcat multiservidor ya implementado. Haga clic en **Test for Multi-Server tomcat Certificate**, como se muestra en la imagen:

Net Status Status: Ready Test for Multi-Server tomcat certificate
Status Status: Ready Test for Multi-Server tomcat certificate
Test for Multi-Server tomcat certificate
Test for Multi-Server tomcat certificate
The criteria for enabling dusterwide SSO is that you must have a multiserver tomcat certificate already deployed. If you have not done this already please follow the below step
1) Login to Cisco Unified OS Administration Page and Navigate to Certificate Management under Security Menu
2) Cick on Generate CSR
3) Select Certificate Purpose as Tomcat
4) Select Distribution as "Multi-Server"
5) Click Generate
6) Download the CSR and get it signed from the CA of your choice
7) Once the certificate is issued by the CA, upload it via the "Upload Certificate/ Certificate chain" option on the Certificate Management page
8) Restart Tomcat service on all the nodes in the cluster
9) Restart TFTP service on all the TFTP nodes in the cluster
If the above steps have been completed, click Test below which will confirm if the multi-server tomcat certificate is deployed before proceeding to the next stage
Test for Multi-Server tomcat certificate

Una vez que se confirma, todos los nodos tienen certificado de servidor múltiple muestra un **certificado de todos los nodos tienen un certificado de servidor múltiple**, y luego haga clic en **Siguiente**, como se muestra en la imagen:

SAML Single Sign-On Configuration
Next 1
_ Status
i Status: Ready
V All nodes have Multi Server Certificate
Test for Multi-Server tomcat certificate
The criteria for enabling clusterwide SSO is that you must have a multiserver tomcat certificate already deployed. If you have not done this already please follow the below steps:
1) Login to Cisco Unified OS Administration Page and Navigate to Certificate Management under Security Menu
2) Click on Generate CSR
3) Select Certificate Purpose as Tomcat
4) Select Distribution as "Multi-Server"
5) Click Generate
6) Download the CSR and get it signed from the CA of your choice
7) Once the certificate is issued by the CA, upload it via the "Upload Certificate/ Certificate chain" option on the Certificate Management page
B) Restart Tomcat service on all the nodes in the duster
9) Restart TFTP service on all the TFTP nodes in the cluster
If the above steps have been completed, click Test below which will confirm if the multi-server tomcat certificate is deployed before proceeding to the next stage
Test for Multi-Server tomcat certificate
Next Cancel

Como se muestra en la imagen, haga clic en Next.

SAML Single Sign-On Configuration
Next
Status
(i) Status: Ready
Download Identity provider(IdP) Metadata Trust File
To configure the trust relationship between the IdP and your devices, you must first obtain trust metadata from your IdP and import it to your servers. You will need to manually obtain the file from the IdP before you can upload it to your Collaboration servers.
This is a manual step!
1)Log in to your IdP and download the metadata trust file to your local server.
2)Click Next once you have this file available locally.
Next Cancel

Busque y seleccione los metadatos de IdP descargados. Haga clic en **Importar metadatos IdP**, como se muestra en la imagen:

SAML Single Sign-On Configuration
Next .
Status
(i) Status: Ready
Ready to import Identity Provider metadata trust file to cluster servers
□ Import the IdP Metadata Trust File
This step uploads the file acquired from the IdP in the previous manual step to the Collaboration servers.
1)Select the IdP Metadata Trust File
Browse federationmetadata.xml
2)Import this file to the Collaboration servers
This action must be successful for at least the Publisher before moving on to the next task in this wizard.
Import IdP Metadata
Next Cancel

La página confirma que la importación se ha realizado correctamente en todos los servidores y, a continuación, hace clic en **Siguiente**, como se muestra en la imagen:

SAML Single Sign-On Configuration
Next
Status
i Status: Ready
V Import succeeded for all servers
Import the IdP Metadata Trust File
This step uploads the file acquired from the IdP in the previous manual step to the Collaboration servers.
1)Select the IdP Metadata Trust File
Browse No file selected.
2)Import this file to the Collaboration servers
This action must be successful for at least the Publisher before moving on to the next task in this wizard.
Import IdP Metadata V Import succeeded for all servers
Next Cancel

Como se muestra en la imagen, haga clic en **Next**, ya que ya exportó los metadatos SP de la página de configuración SSO de SAML inicial.

SAML Single Sign-On Configuration
Back Next
Status Status: Ready If Admin has already uploaded the server metadata to IdP then skip the steps below and click Next. Otherwise follow the steps below to upload the server metadata to IdP IdP Metadata has been imported to servers in this cluster
Download Server Metadata and install on the IdP
Download the metadata trust file from Collaboration servers and manually install it on the IdP server to complete SSO setup.
1)Download the server metadata trust files to local storage Download Trust Metadata File
This is a manual step!
2)Log in to your IdP and upload the server metadata trust file.
3)Click Next once you have installed the server metadata on the IdP.
Back Next Cancel

CUCM debe estar sincronizado con el directorio LDAP. El asistente muestra los usuarios de administrador válidos configurados en el directorio LDAP. Seleccione el usuario y haga clic en **Ejecutar prueba SSO**, como se muestra en la imagen:

AML Single Sign-On Configuration	
Back	
Status The server metadata file must be insta	alled on the IdP before this test is run.
Test SSO Setup	
This test verifies that the metadata files are run on any server for troubleshooting once successful.	e correctly configured and will allow SSO to start up on the servers. This test can be a SSO has been enabled. SSO setup cannot be completed unless this test is
1)Pick a valid username to use for this test	
You must already know the password for the This user must have administrator rights an Please use one of the Usernames sho lockout.	he selected username. nd also exist in the IdP. wwn below. Using any other Username to log into the IdP may result in administrator
Valid administrator Usernames	
samluser	*
2)Launch SSO test page Run SSO Test	
Back Cancel	

Como se muestra en la imagen, introduzca el ID de usuario y la contraseña correspondiente una vez que se lo solicite.

Authentication	Required			
?	Enter username and password for https://win-jd4ia7ugmrm.adfs.ucce.com			
User Name:	samluser			
Password:	••••••			
	OK Cancel			

La ventana emergente, como se muestra en la imagen, confirma que la prueba se ha realizado correctamente.



Como se muestra en la imagen, haga clic en **Finalizar** para completar la configuración para habilitar SSO.

System Call Routing Media Resources Advanced Features Device Application User Management Bulk Administr
AML Single Sign-On Configuration
Back Finish
Status
SSO Metadata Test Successful
Ready to Enable SSO
Clicking "Finish" will complete enabling SSO on all the servers in this cluster. There will be a short delay while the applications are being updated.
To verify the SSO status of each server, check the main SSO Configuration page. Additional testing and manual uploads may be performed from the main page if neccessary.
Back Finish Cancel

La página mostrada en la imagen confirma que el proceso de habilitación de SAML SSO se inicia en todos los servidores.



Cierre la sesión y vuelva a iniciarla en CUCM mediante las credenciales SAML SSO. Vaya a **System >SAML Single Sign On**. Haga clic en **Ejecutar prueba SSO** para otros nodos del clúster, como se muestra en la imagen:

SAML Single Sign-On							
SSO Mode Cluster wide (One metadat Per node (One metadata fi	ta file per cluster le per node)	. Requires m	ulti-server Tomcat certificate)			
🗙 Disable SAML SSO 👔	Export All Metadata	🔞 Upda	ale kdP Metadata File 🧳 Fix	All Disabled Ser	vers		
ATMT is enabled for SSO SAML SSO enabled SAML Single Sign-On). You can chang 1 - 3 of 3)	e SSO for R	TMT <u>here.</u>			Row	s per Page 50 🔻
Server Name	SSO Status	Re-Import Metadata	Last Hetadata Import	Export Netadata	Last Metadata Export	\$90 Te	nst
cucm1150.adfs.ucce.com	SAML	N/A	June 21, 2016 9:28:39 PM IST	🏄 File	June 21, 2016 7:46:56 PM IST	Passed - June 21, 2016 9:29:14 PM IST	Run SSO Test
cucm1150sub.adfs.ucce.com	SAML	🔶 IdP	June 21, 2016 9:28:39 PM IST	🏄 File	June 21, 2016 7:46:56 PM IST	Never	Run SSO Test
imp115.adfs.ucce.com	SAML	🔶 IdP	June 21, 2016 9:28:39 PM IST	🏄 File	June 21, 2016 7:46:56 PM IST	Never	Run SSO Test

Verificación

Use esta sección para confirmar que su configuración funciona correctamente.

Confirme que la prueba SSO se realiza correctamente para los nodos que están habilitados para SAML SSO. Vaya a **System >SAML Single Sign On**. Las pruebas SSO exitosas muestran el estado Pasado.

SAML Single Sign-On							
SSO Mode Cluster wide (One metadai Per node (One metadata fi	ta file per clu le per node)	ster. Requires n	nulti-server Tomcat certificate))			
🗙 Disable SAML SSO 👔	Export All Meta	adata 👩 Upd	ate IdP Metadata File 🥜 Fix.	All Disabled Ser	vers		
RTMT is enabled for SSO SAML SSO enabled). You can ch	ange SSO for R	TMT <u>here.</u>				
Server Name	SSO Status	Re-Import Netadata	Last Metadata Import	Export Metadata	Last Metadata Export	SSO Test	
cucm1150.adfs.ucce.com	SAML	N/A	June 20, 2016 9:57:30 AM IST	🎂 File	June 20, 2016 10:06:27 PM IST	Passed - June 20, 2016 9:59:02 PM IST	Run SSO Test
cucm1150sub.adfs.ucce.com	SAML	🔶 Idb	June 20, 2016 10:15:46 PM IST	🎂 File	June 20, 2016 10:06:26 PM IST	Passed - June 20, 2016 10:11:39 PM IST	Run SSO Test
imp115.adfs.ucce.com	SAML	star 💠	June 20, 2016 10:15:46 PM IST	🏄 File	June 20, 2016 10:06:26 PM IST	Passed - June 20, 2016 10:12:40 PM IST	Run SSO Test
Disable SAML SSO Exp	ort All Metad	ata Update	IdP Metadata File Fix All I	Disabled Serve	rs		

Una vez que se activa SAML SSO, se muestran las aplicaciones instaladas y las aplicaciones de plataforma para la página de inicio de sesión de CUCM, como se muestra en esta imagen.

Installed Applications

- Cisco Unified Communications Manager
 - Recovery URL to bypass Single Sign On (SSO)
- Cisco Unified Communications Self Care Portal
- Cisco Prime License Manager
- Cisco Unified Reporting
- Cisco Unified Serviceability

Platform Applications

- Disaster Recovery System
- Cisco Unified Communications OS Administration

Una vez que se activa SAML SSO, se muestran las aplicaciones instaladas y las aplicaciones de plataforma para la página de inicio de sesión de IM and Presence, como se muestra en esta imagen:

Installed Applications

- Cisco Unified Communications Manager IM and Presence
 Recovery URL to bypass Single Sign On (SSO)
- Cisco Unified Reporting
- Cisco Unified Serviceability

Platform Applications

- Disaster Recovery System
- Cisco Unified Communications OS Administration

Troubleshoot

En esta sección encontrará información que puede utilizar para solucionar problemas de configuración.

Para configurar los registros de SSO en debug, use el comando set samitrace level DEBUG

Recopile los registros de SSO usando RTMT o desde la ubicación activa/tomcat/logs/ssosp/log4j/*.log usando CLI.

Ejemplo de registros SSO muestra los metadatos generados y enviados a otros nodos

2016-05-28 14:59:34,026 DEBUG [http-bio-443-exec-297] cluster.SAMLSSOClusterManager - Call GET API to generate Clusterwide SP Metadata in the Local node. 2016-05-28 14:59:47,184 DEBUG [http-bio-443-exec-297] cluster.SAMLSSOClusterManager - Call to post the generated SP Metadata to other nodes 2016-05-28 14:59:47,185 INFO [http-bio-443-exec-297] cluster.SAMLSSOClusterManager -Begin:postClusterWideSPMetaData 2016-05-28 14:59:47,186 DEBUG [http-bio-443-exec-297] cluster.SAMLSSOClusterManager - Nodes [cucm1150, cucm1150sub.adfs.ucce.com] 2016-05-28 14:59:47,186 DEBUG [http-bio-443-exec-297] cluster.SAMLSSOClusterManager - Post ClusterWideSPMetadata to the cucm1150 2016-05-28 14:59:47,187 DEBUG [http-bio-443-exec-297] cluster.SAMLSSOClusterManager - Post ClusterWideSPMetadata to the cucm1150 2016-05-28 14:59:47,187 DEBUG [http-bio-443-exec-297] cluster.SAMLSSOClusterManager - Post ClusterWideSPMetadata to the cucm1150