Connecting to Lt with SAML 2.0

Introduction

Single Sign On (SSO) using SAML 2.0 allows your staff and students to log in to Lt without accepting an email invitation or creating a password. This means your students can get straight into Lt without them having to do any setup or remember any extra passwords.

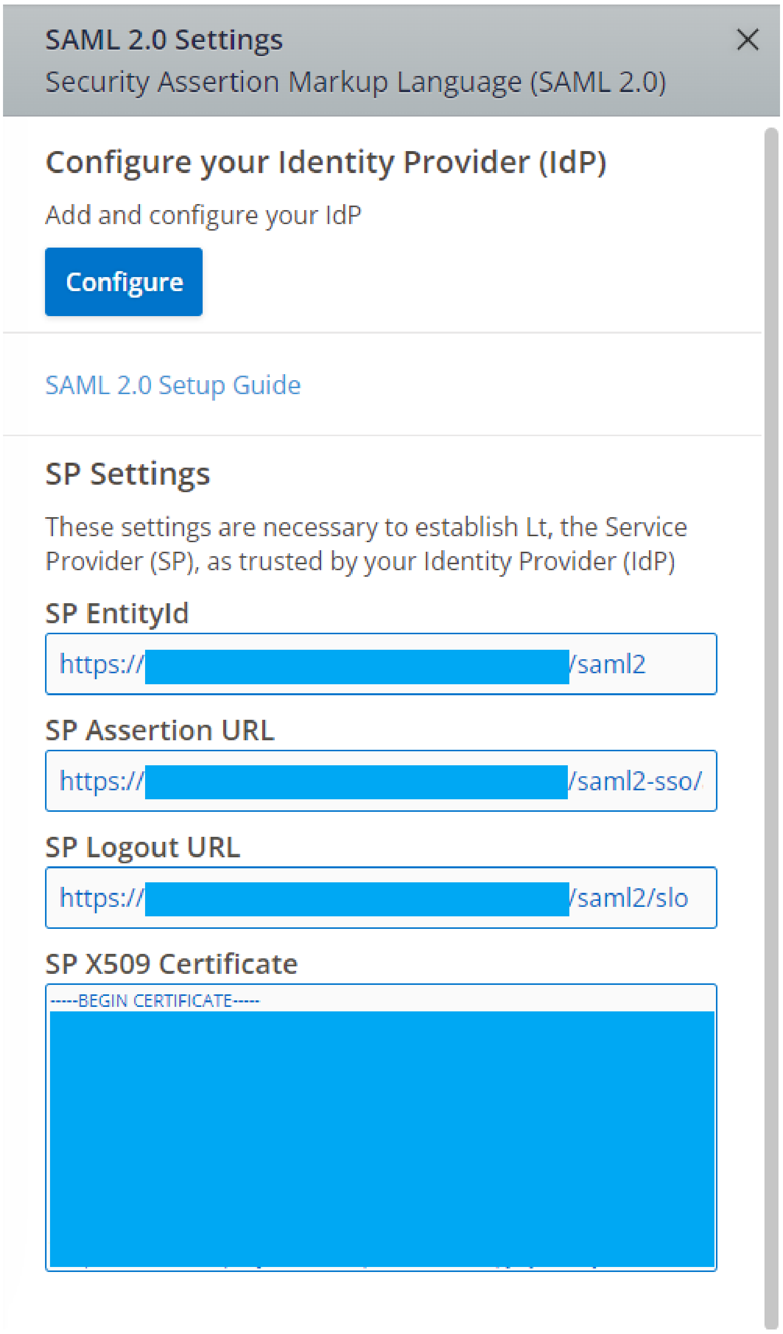
User accounts do need to be first created in Lt, this can be done using SCIM or through the email invite workflow.

Getting Lt SP Details

You will first need to gather some SAML details from your Lt Instance.

1. As Instance Administrator, log into your Lt instance at ltlogin.com
2. Select **Instance Administration**
3. Select **SAML 2.0 Settings**

Here you will find your Service Provider details Service Provider Metadata (XML) URL and X509 certificate.



SAML 2.0 Settings

Security Assertion Markup Language (SAML 2.0)

Configure your Identity Provider (IdP)

Add and configure your IdP

SAML 2.0 Setup Guide

SP Settings

These settings are necessary to establish Lt, the Service Provider (SP), as trusted by your Identity Provider (IdP)

SP EntityId: https://[redacted]/saml2

SP Assertion URL: https://[redacted]/saml2-sso/

SP Logout URL: https://[redacted]/saml2/slo

SP X509 Certificate: -----BEGIN CERTIFICATE----- [redacted]

- **SP EntityId** - The entity Id your IDP will use to identify Lt.
- **SP Assertion URL** - Where authentication assertions from your IDP should be sent.
- **SP Logout URL** - Where Logout requests from your IDP should be sent to enforce logging out of all services.
- **SP X509 Certificate** - The security certificate that may be used to sign requests from Lt (depending on the configuration options below).
- **SP Metadata URL** - After configuring Lt for your IDP, the Metadata XML can be retrieved from this URL. This can be used to setup some IDPs.

Service Provider Options

When you select **Edit Configuration** you will be presented with options for setting up Lt as a Service Provider.

- **User identified by** - When a user is directed to Lt from your IDP, whether to match user in Lt by their email address or an external ID provided using SCIM.
- **Entity Id** - The Entity Id of your IDP.
- **Service URL (Redirect only)** - The login service URL of your IDP that users will be directed to to login.
- **X509 Certificate** - The X509 Certificate of your IDP.

Advanced Settings

- **Use AuthNContext unspecified** - Whether an authentication request from Lt should specify minimum authentication of Password. Some IDP will not accept this to be specified and must be unspecified.
- **Sign AuthnRequest** - Whether an authentication request from Lt should be signed with the provided X509 certificate. Some IDP do not support signing of authentication requests.
- **Use attribute to identify user (instead of NameId)** - By default, when a user is directed to Lt from your IDP, Lt uses the NameId of the login request to identify the user. You can change to using a different attribute passed by your IDP.
  - **Attribute Name** - The unique attribute passed by your IDP that can be used to identify an individual user.
- **Logout Service URL (Redirect only)** - The logout service URL of your IDP, which is used during Idp initiated Single Log Out
- **Email domain requiring SSO** - You can require all users from a particular email domain to login using SSO. The normal login flow using email address and password will be disabled. More information is provided below.
- **Response Signing** - Whether the SAML Response and/or Assertion should be signed.

Setting up your IdP

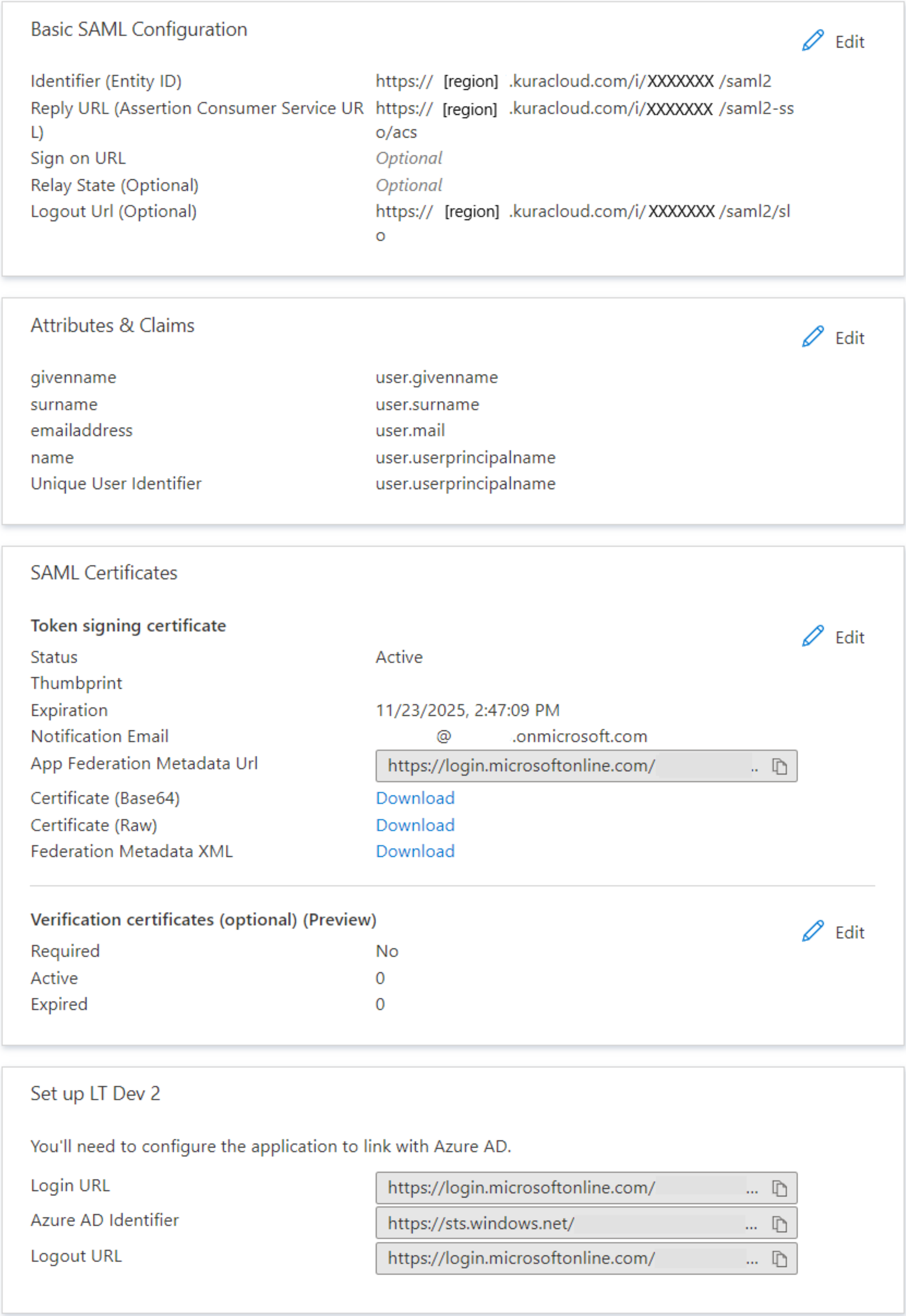
If your IdP uses SP XMLs for setup you can acquire your XML from the SP Metadata URL. You can alter this XML by selecting **Edit Configuration** and changing some of the displayed fields. Otherwise, use the SP details provided in the admin UI to set up your IdP. An example is shown below.

You can also use the following icons for creating link buttons from your IdP:
https://staticfiles.kuracloud.com/lti/lt-logo-50px.png
https://staticfiles.kuracloud.com/lti/lt-logo-128px.png

Example setup with Microsoft Azure AD

To set up SAML with MS Azure AD you will need to select or create an enterprise application within Azure AD that you will use.

1. Within the application select **Single Sign-on**
2. Select **SAML** as the single sign-on method
3. Edit the **Basic SAML Configuration**
    a. Add the **SP Entity ID** from your Lt details as an **Identifier**
    b. Add the **SP Assertion URL** from your Lt details as the **Reply URL**
    c. (Optional) Add the **SP Logout URL** from your Lt details as the **Logout URL**
4. Edit the **Attributes & Claims** to suit your institutions data
    - By default the **Unique User Identifier (Name ID)** will be an email address in *nameid-format:emailAddress*, you can use a different identifier if it has been established as an **External ID** using SCIM
5. Edit the **SAML Certificates**
    a. Set the **Signing Option** to *Sign SAML response and assertion*
    b. Ensure the **Signing Algorithm** is *SHA-256*
6. Download your **Certificate (Base 64)**
7. Record the **Set up [enterprise application]** details to enter into Lt



Basic SAML Configuration

Identifier (Entity ID)	https:// [region] .kuracloud.com/i/XXXXXXX /saml2
Reply URL (Assertion Consumer Service URL)	https:// [region] .kuracloud.com/i/XXXXXXX /saml2-sso/acs
Sign on URL	*Optional*
Relay State (Optional)	*Optional*
Logout Url (Optional)	https:// [region] .kuracloud.com/i/ XXXXXXX /saml2/slo

Attributes & Claims

givenname	user.givenname
surname	user.surname
emailaddress	user.mail
name	user.userprincipalname
Unique User Identifier	user.userprincipalname

SAML Certificates

Token signing certificate

Status	Active
Thumbprint	
Expiration	11/23/2025, 2:47:09 PM
Notification Email	@ .onmicrosoft.com
App Federation Metadata Url	https://login.microsoftonline.com/ ..
Certificate (Base64)	Download
Certificate (Raw)	Download
Federation Metadata XML	Download

Verification certificates (optional) (Preview)

Required	No
Active	0
Expired	0

Set up LT Dev 2

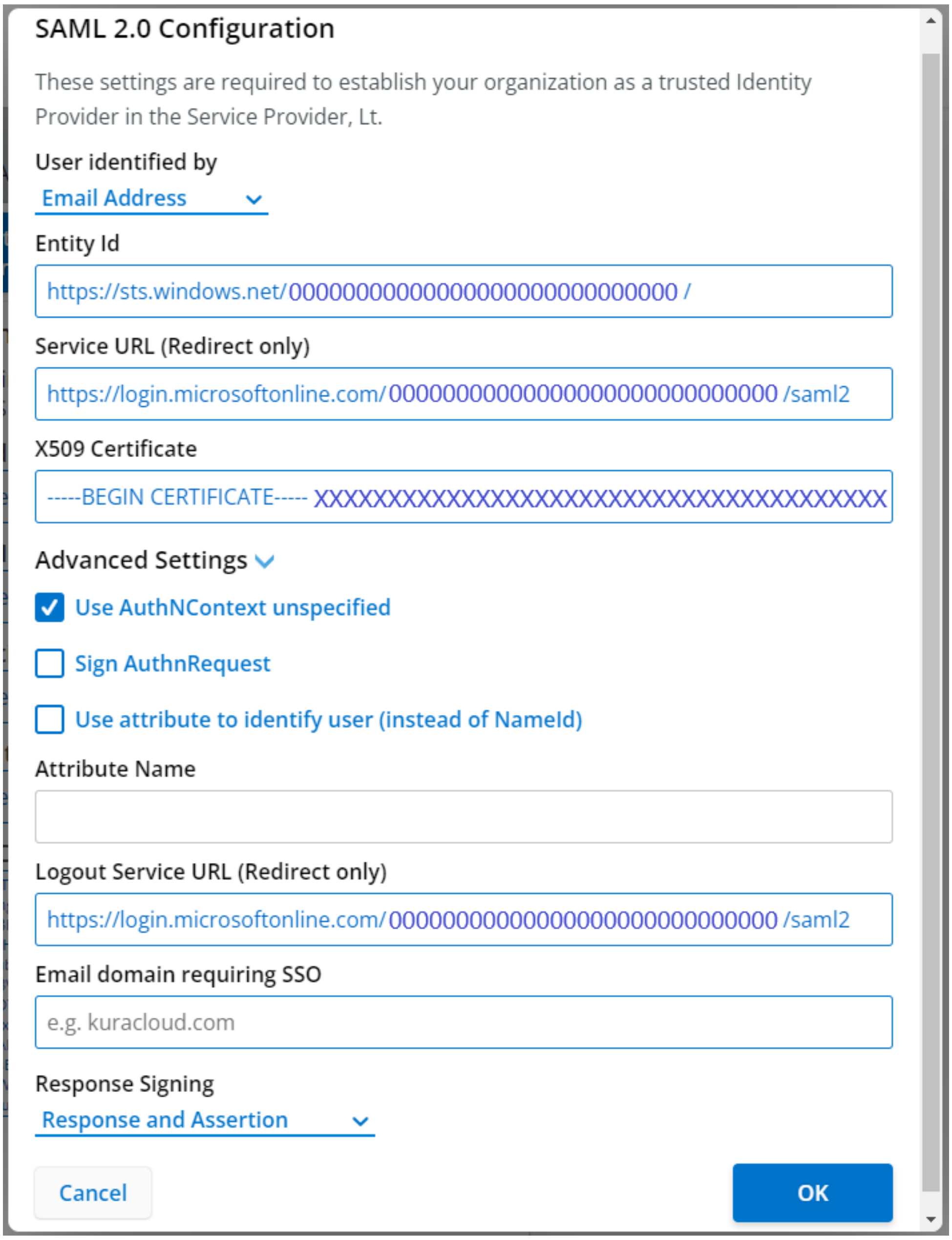
You'll need to configure the application to link with Azure AD.

Login URL	https://login.microsoftonline.com/ ...
Azure AD Identifier	https://sts.windows.net/ ...
Logout URL	https://login.microsoftonline.com/ ...

8. Return to the Lt **SAML 2.0 Settings**
9. Select **Configure**
10. Enter the details from Microsoft Azure
    a. Set **User Identified By** to *Email address* or *SCIM externalId* as appropriate
    b. The **Azure AD Identifier** as the **Entity Id**
    c. The **Login URL** as the **Service URL (Redirect only)**
    d. Open the **Certificate (Base 64)** in a text editor and copy the contents into the **X509 Certificate**

e. Select **Advanced Settings**
   i. Select **Use AuthNContext unspecified**
   ii. If you are using a different unique attribute to identify users then enable **Use attribute to identify user (instead of NameId)**
   iii. Enter the attribute name in **Attribute name**

f. (Optional) Enter the **Logout URL** as the **Logout Service URL (Redirect Only)**



SAML 2.0 Configuration

These settings are required to establish your organization as a trusted Identity Provider in the Service Provider, Lt.

User identified by: Email Address

Entity Id: https://sts.windows.net/0000000000000000000000000000 /

Service URL (Redirect only): https://login.microsoftonline.com/0000000000000000000000000000 /saml2

X509 Certificate: -----BEGIN CERTIFICATE----- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Advanced Settings

☑ Use AuthNContext unspecified

☐ Sign AuthnRequest

☐ Use attribute to identify user (instead of NameId)

Attribute Name:

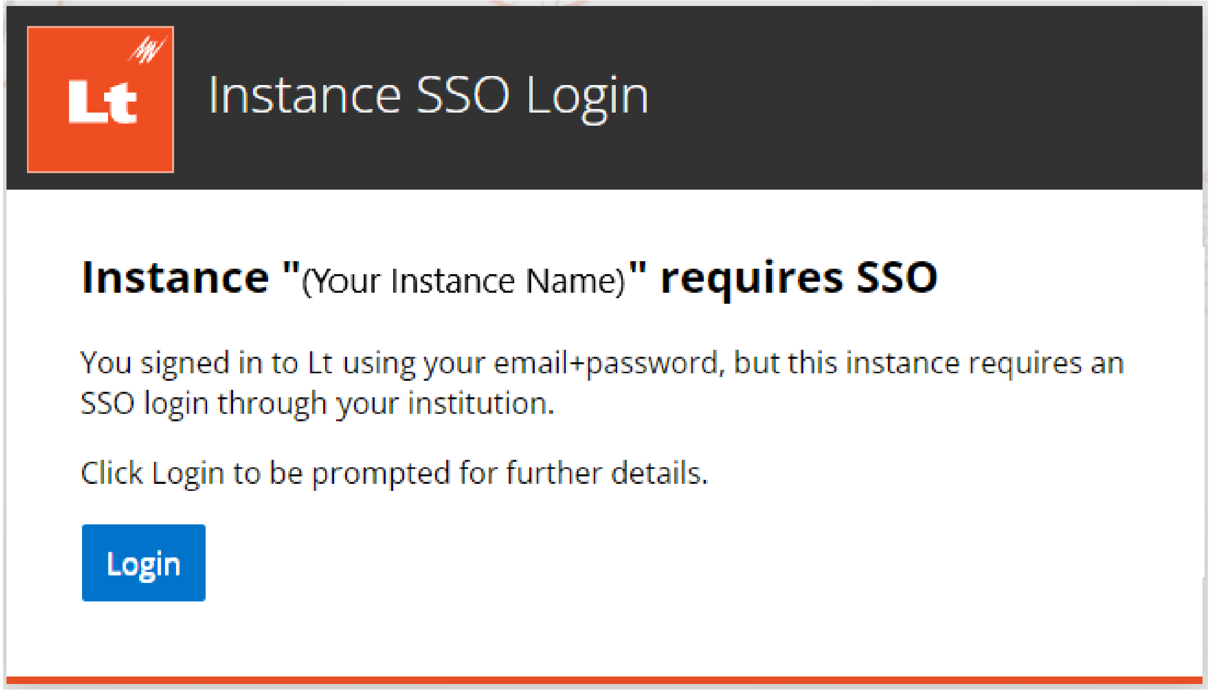
Logout Service URL (Redirect only): https://login.microsoftonline.com/0000000000000000000000000000 /saml2

Email domain requiring SSO: e.g. kuracloud.com

Response Signing: Response and Assertion

Enforcing SSO

Logging in using email and password can be disabled for your instance for all users using a particular email domain. This allows you to control how your users login and enforce using SSO. This is limited to one email domain so you can restrict the access of your students and staff while allowing for guest users and emergency access.
Users that attempt to login with an email and password will be blocked and instead directed to login using your IDP via the Service URL entered when setting up SAML.



Instance "(Your Instance Name)" requires SSO

You signed in to Lt using your email+password, but this instance requires an SSO login through your institution.

Click Login to be prompted for further details.

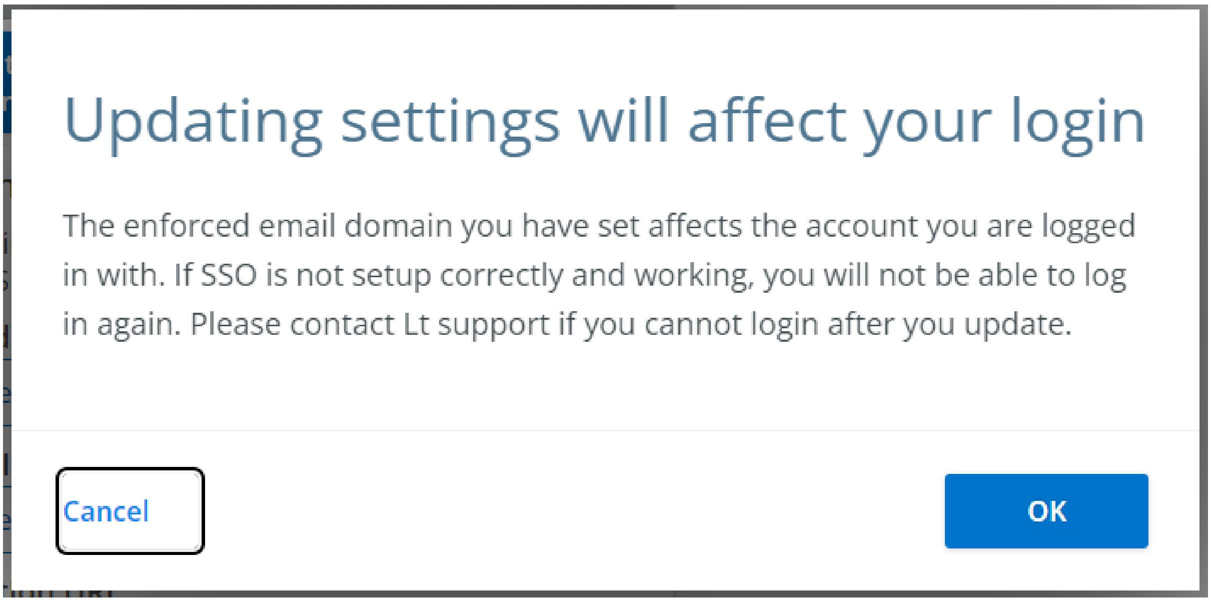
This message will be displayed to users that attempt to login without using SSO. Clicking the Login button will redirect the user to your IDP.

To enable SSO enforcement for a domain:

1. Login as an instance administrator, preferably using SSO to login.
2. Select **Instance Administration**.
3. Select **SAML 2.0 Settings**.
4. Select **Edit Configuration**.
5. Select **Advanced Settings**.
6. Fill in the **Email domain requiring SSO** with the email domain you want to restrict. Usually this will be your institution's email domain. You do not need to include the “@”.

   Example: gmail.com
7. Select **OK**.

🚦Warning: Enforcing SSO will also affect administrators including yourself. If your logged in account is covered by the domain restriction, you will see a confirmation dialog before the change is applied. Please make sure that you have tested your SSO setup before enabling enforcement.



Updating settings will affect your login

The enforced email domain you have set affects the account you are logged in with. If SSO is not setup correctly and working, you will not be able to log in again. Please contact Lt support if you cannot login after you update.

Enforcement is based on the email domain that the user was originally invited with. Users that have later changed their email address to a different domain will still be restricted based on the domain they were originally registered with.