

GENERAL SECURITY REQUIREMENTS

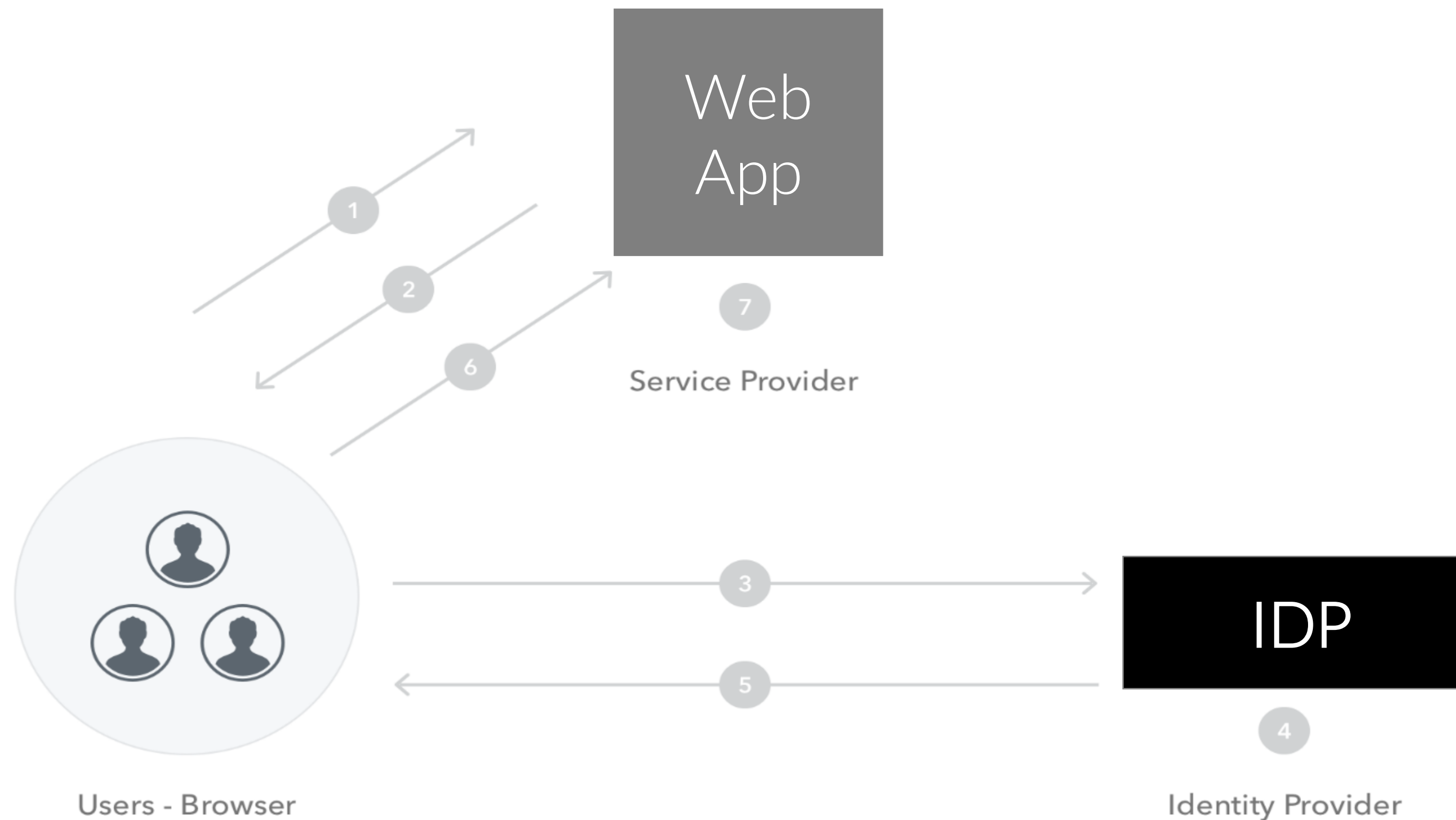
AUTHENTICATION

- All applications **MUST** rely on **Identity Provider (IDP)** and Active Directory (AD) to authenticate and **SHOULD** provide SSO to end-users wherever the application is hosted.
- Local authentication is prohibited except for setup and support.
- The authentication process depends on the application type and the protocols that are supported by the application.
 - Dynatrace relies on SAML authentication method

AUTHORIZATION

- After successful authentication, the **application** **MUST** check user access rights to application resources (permissions).
 - Identity Provider **MAY** provide AD user attributes (login, name, country, division, role, location, group membership...) to manage permissions in the application.
 - Identity Provider **SHOULD** control third party resources access by the application on behalf on the user

SAML AUTHENTICATION FLOW



Source: Auth0

0. SSO SIGNING CERTIFICATE RENEWAL

Certificate rollover is handled by Global IT's Security Run Team.

You must follow their guidelines and requirement during the certificate renewal period to guarantee success of the operation.



A specific Teams environment will be created especially for the certificate renewal period in which project manager will find:

- ✓ General information on the process
- ✓ New SSO signing certificate
- ✓ Discussion space with the Security Run Team that handle the rollover

1. GET METADATA.XML FILE FROM THE SECURITY TEAM

Once the certificate rollover is made, the Security Run Team will be able to provide the new metadata from Chanel IDP. These will be used to update the SSO configuration in Dynatrace interface.

 federationmetadata.xml

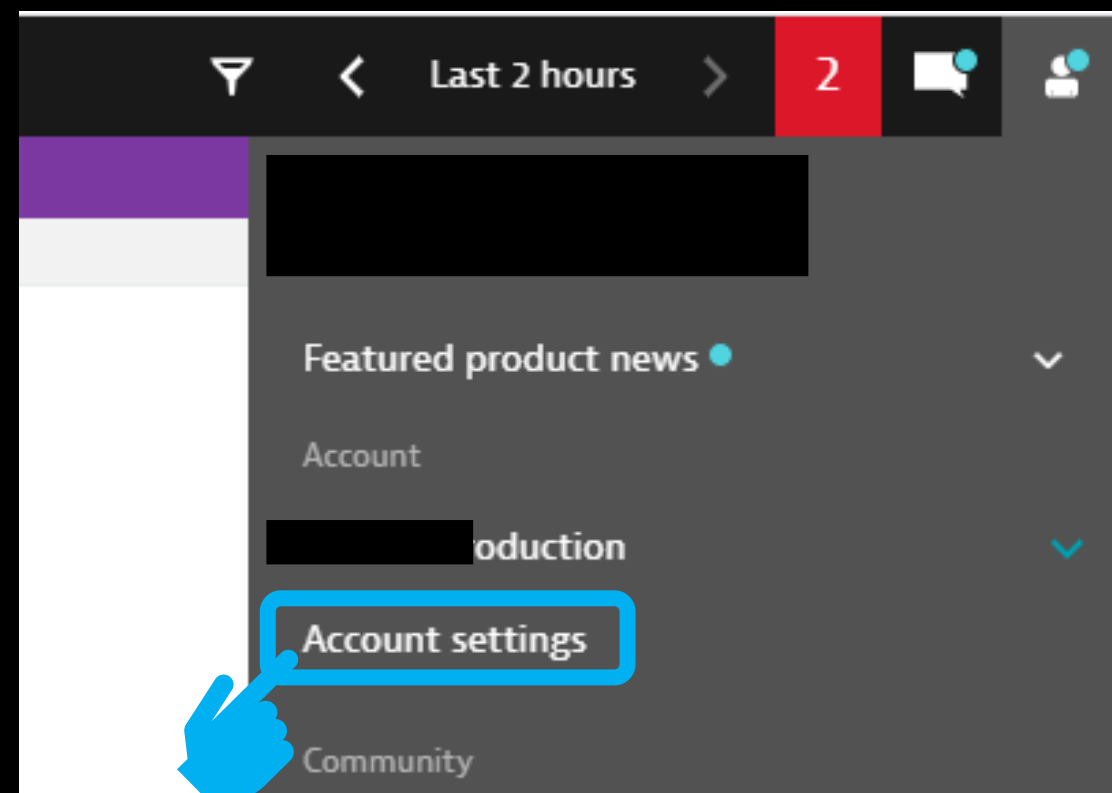
```
<?xml version="1.0"?>
- <EntityDescriptor xmlns="urn:oasis:names:tc:SAML:2.0:metadata" entityID="http://[redacted]com/adfs/services/trust" ID="_203ef622-cf88-424c-8e01-668c6150804b">
  - <ds:Signature xmlns:ds="http://www.w3.org/2000/09/xmldsig#">
    - <ds:SignedInfo>
      <ds:CanonicalizationMethod Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#" />
      <ds:SignatureMethod Algorithm="http://www.w3.org/2001/04/xmldsig-more#rsa-sha256" />
      - <ds:Reference URI="#_203ef622-cf88-424c-8e01-668c6150804b">
        - <ds:Transforms>
          <ds:Transform Algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-signature" />
          <ds:Transform Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#" />
        </ds:Transforms>
        <ds:DigestMethod Algorithm="http://www.w3.org/2001/04/xmenc#sha256" />
        <ds:DigestValue>80Cry3VD4FbGfgQ/NplMd91hcjhoovvzKKYPi1Np0sM=</ds:DigestValue>
      </ds:Reference>
    </ds:SignedInfo>
    <ds:SignatureValue>ADy98mzfJ3hbZ8zZglmiPtCDZUKocYssXxZCb9lF9mrKFD40DofTB1T0USZfxloco6yGp4WjXs01SqOcWjtFcsWUKj6qlnWUk6LrjiAxdV97U</ds:SignatureValue>
  - <KeyInfo xmlns="http://www.w3.org/2000/09/xmldsig#">
    - <X509Data>
      <X509Certificate>MIIGqDCCBZCqAwIBAgIMXXq1eY+eHzkI3+1uMA0GCSqGSIb3DQEBCwUAMFAxCzAJBgNVBAYTAKJFMrkWfWYDVQQKEXBHbG9iYU</X509Certificate>
    </X509Data>
  </KeyInfo>
</EntityDescriptor>
```

2. VERIFY OWNERSHIP ON THE DOMAIN

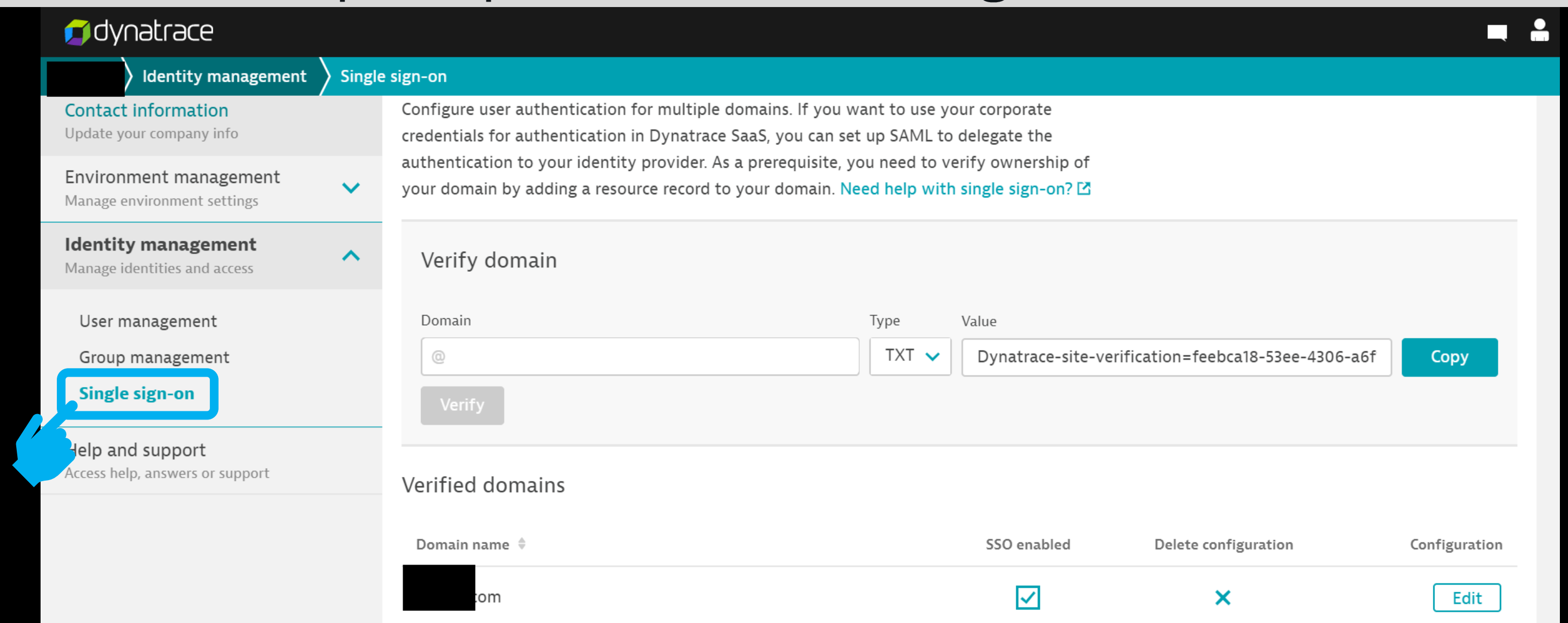
Before you can configure the domain for which you want to set up SAML, you need to prove ownership of the domain.

After following the two steps below, you should have the *xxxx.com* domain listed in the “verified domains” field.

You can click on the “Edit” button to set up or update the SSO configuration.



Select “Account settings” from the user menu on the right side of the menu bar

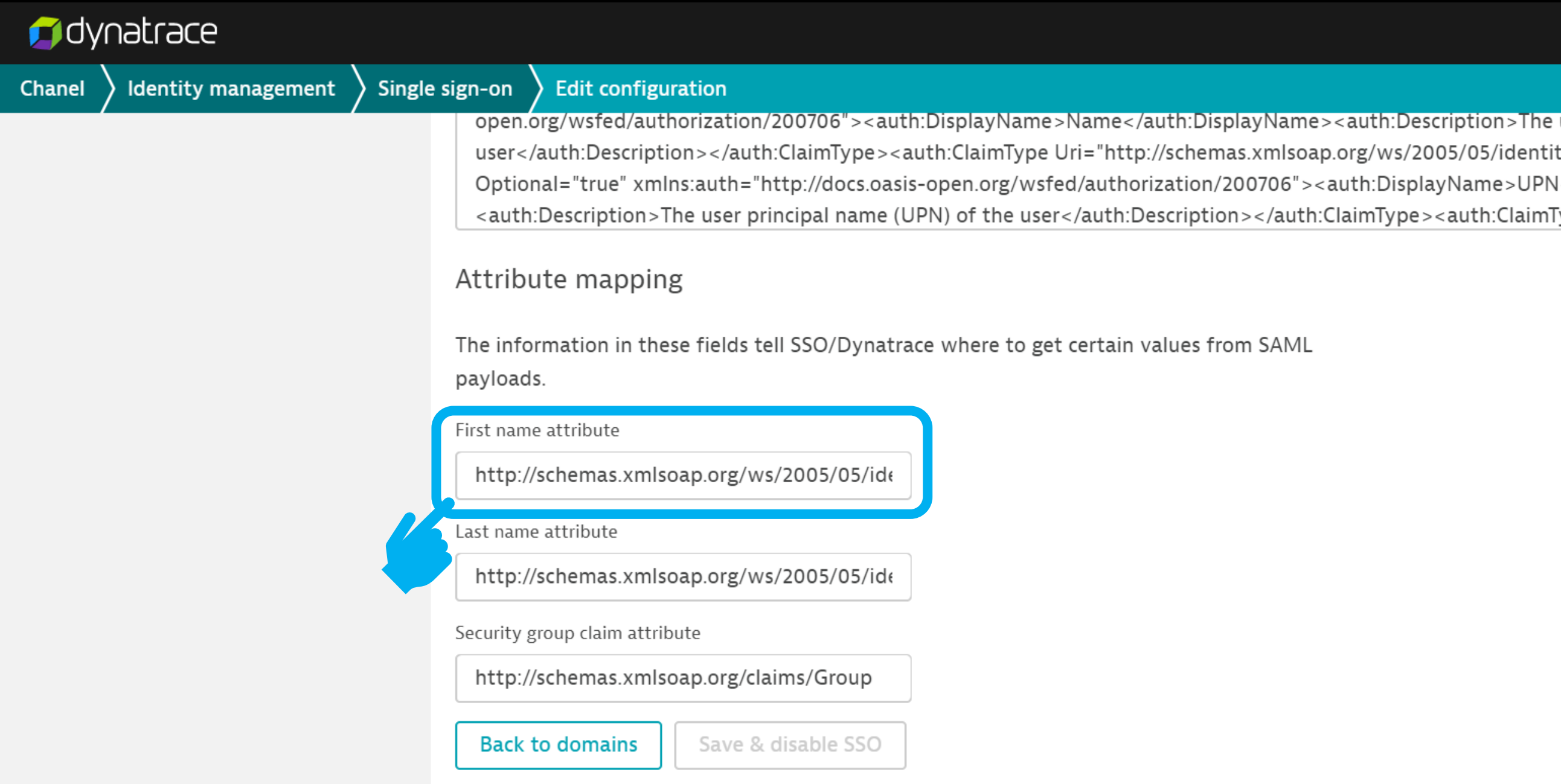


Select “Identity management” then “Single sign-on” from the navigation menu on the left

IMPORTANT: You must have a fallback user account so you don't get locked out if you have configuration troubles. Or make sure that somebody with a non-federated access can be able to troubleshoot if you have configuration issues.

3. VERIFY SAML ATTRIBUTES

At the very bottom of the configuration panel, you can find the "Attribute mapping" section which lists the 3 attributes required for authentication to Dynatrace. These are :
Givenname, Surname & Groups

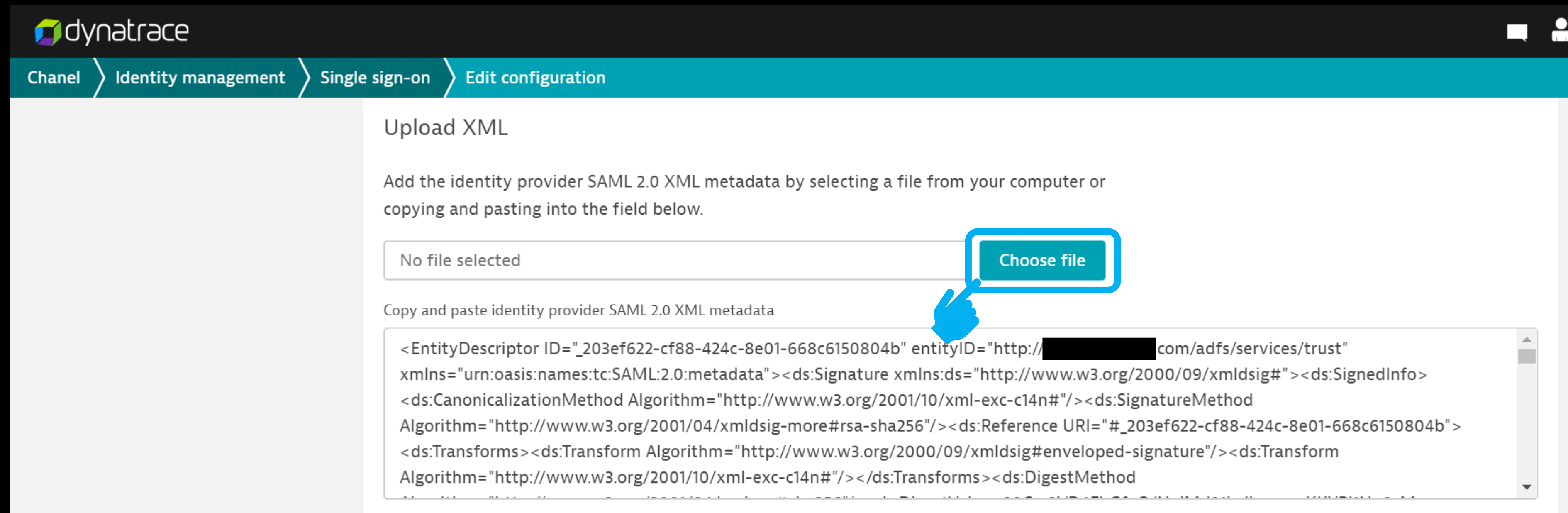


```
<auth:ClaimType xmlns:auth="http://docs.oasis-open.org/wsrfed/authorization/200706">  
  <auth:DisplayName>Given Name</auth:DisplayName>  
  <auth:Description>The given name of the user</auth:Description>  
</auth:ClaimType>
```

Verify that the attributes mapping is still accorded to the new federationmetadata.xml file

4. UPDATE METADATA CONFIGURATION

Once you have verified that the attribute mapping is correct and accorded to the new metadata of the IDP, you can upload the new configuration file.



Select "Choose file" to upload the new federationmetada.xml file that the Security Team has provided.

NOTE: Since it is a renewal of certificate, an SSO configuration is already in place. In the field below, you can see the current SAML IDP metadata configuration.

5. VALIDATE CONFIGURATION

Once you have uploaded the new configuration file, you can click on the "Validate configuration" at the very bottom of the panel.

SAML configuration validation complete

You may close this window and return to the configuration page to view the validation results.

This will open a new windows on your browser to test the connection to the IDP and validate the SSO configuration

Configuration validation

Review the results of your configuration below. [Need help with single sign-on?](#)

Domain name: [redacted].com

Configuration Validation Enable SSO

Results

- Returned email is a [redacted] com
- Returned value of First name attribute is [redacted]
- Returned value of Last name attribute is [redacted]
- Returned value of Security group claim attribute is G-GADM-FRDomainUsers, G-GRES-DAT-Complex-Pwd, G-GRES-GBL-Complex-Pwd, G-GRES-DAT-DYNATRACE-ADMINS, G-GADM-FRDomainCitrixUsers, G-GDEL-DAT-AUTOMATION-Team, G-GRES-GBL-SSL-PRD-Citrix_External, G-GRES-DAT-Office-Core, Domain Users, G-GRES-SPO-ProceduresR, G-GRES-GBL-WiFi-Users, G-GCTX-DAT-Chrome-EXT.

On the other window, Dynatrace should display this validation screen, proving that Dynatrace can retrieve your connection information (email, name, and groups belongings)

NOTE: If the validation step of the configuration is correct, you can now terminate the configuration by re-enabling SSO on the domain.

6. FURTHER CHECK OF CONFIGURATION

To be sure that the SSO configuration has been made and that there is no service interruption, you can check from an incognito browser window to access Dynatrace application and make sure that SAML authentication via AD is up and running.

