



# NetScaler with Unified Gateway

## Configuring Dropbox

### Abstract

Configuring Dropbox for SSO enables administrators to manage their users using NetScaler.

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# Preface

This section provides an overview about the information included in this guide.

## Intended Audience

The information in this guide is intended for the System Administrators.

## Document Conventions

The following table lists various conventions used in this guide.

**Table 1: Document conventions used in this guide**

Convention	Description
<b>Bold</b>	Used for names of interface elements (such as names of fields, panes, windows, menus, buttons, dialog boxes) and what the user specifically selects, clicks, presses, or types.
<b>Note</b>	Used to highlight information that is important.

# Overview

The Citrix NetScaler application delivery controller (ADC) helps to load balance, accelerate, optimize, and secure enterprise applications.

Dropbox provides file hosting service that helps users to save files in one central place and access them anytime, anywhere using any devices.

You can connect Dropbox with NetScaler by using your company's credentials to log on to your account via Single Sign-On (SSO).

## Terminology

An Identity Provider (IdP) provides authentication module to verify users with their corporate network. A Service Provider (SP) supports receiving SSO SAML assertions.

The following table lists various terms that are used alternatively for completing configurations for service providers and identity providers.

**Table 2: Terminology used for SP and IdP configurations**

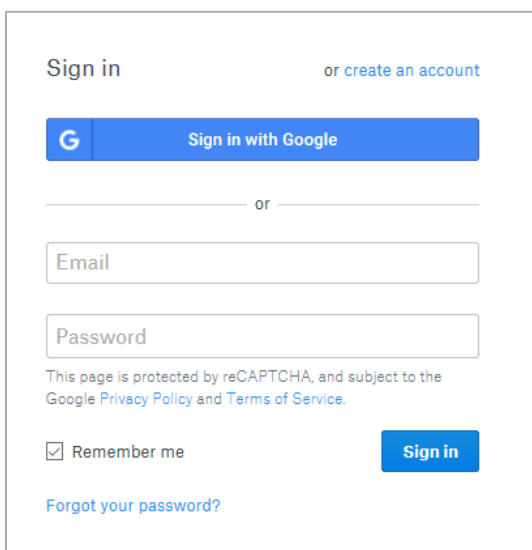
<b>Service Provider (SP)</b>	<b>Identity Provider (IdP)</b>
Identity Provider Issuer	Issuer Name
SP Entity ID	Service Provider ID
SP Assertion Consumer Service URL	Assertion Consumer Service URL

# Configuring Dropbox for Single Sign-On

Configuring Dropbox for SSO enables administrators to manage their users using NetScaler. Users can securely log on to Dropbox using their enterprise credentials.

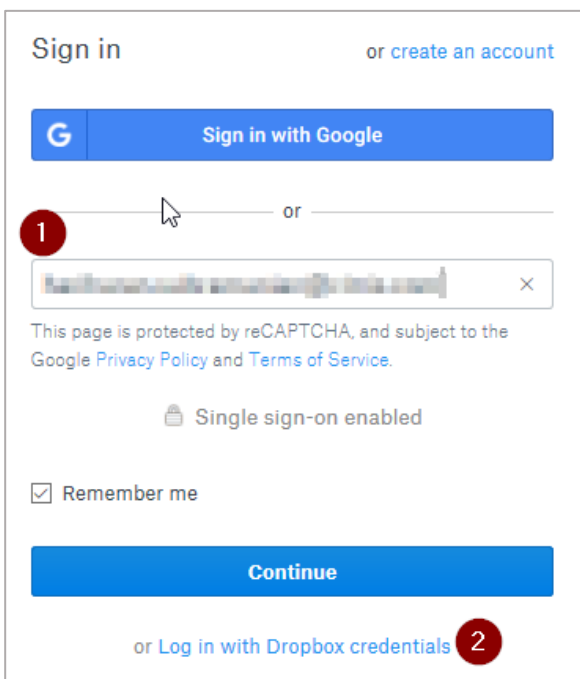
To configure Dropbox for SSO through SAML, follow the steps below:

1. In a browser, type <https://www.dropbox.com/login> and press enter:



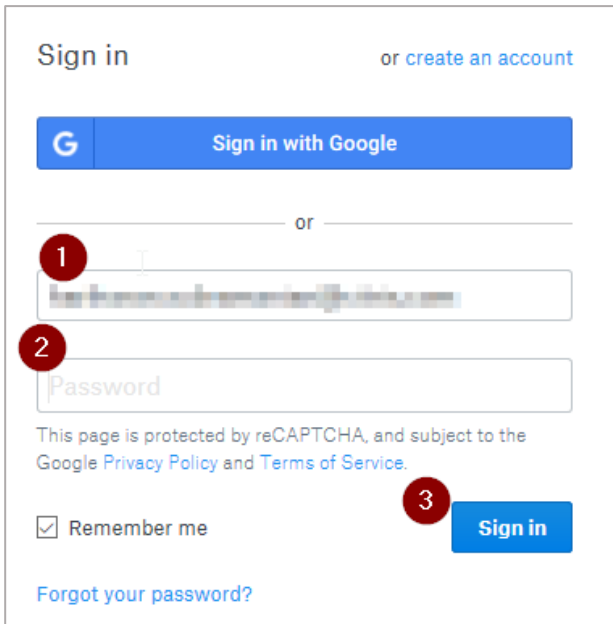
The screenshot shows the Dropbox login page. At the top, it says "Sign in" with a link "or create an account". Below this is a blue button with a "G" icon and the text "Sign in with Google". Underneath is a horizontal line with "or" in the center. Below the line are two input fields: "Email" and "Password". Below the input fields is a small text block: "This page is protected by reCAPTCHA, and subject to the Google Privacy Policy and Terms of Service." Below that is a checkbox labeled "Remember me" and a blue "Sign in" button. At the bottom left, there is a link "Forgot your password?".

2. To log on to your Dropbox account, type your email address and click the **Log in with Dropbox credentials** link.



The screenshot shows the same Dropbox login page as above, but with annotations. A red circle with the number "1" is placed over the "Email" input field, with a mouse cursor pointing to it. A red circle with the number "2" is placed over the "Log in with Dropbox credentials" link at the bottom of the page. The "Sign in" button is now a blue "Continue" button. The text "Single sign-on enabled" is visible below the "Remember me" checkbox. The "Sign in with Google" button is still present at the top.

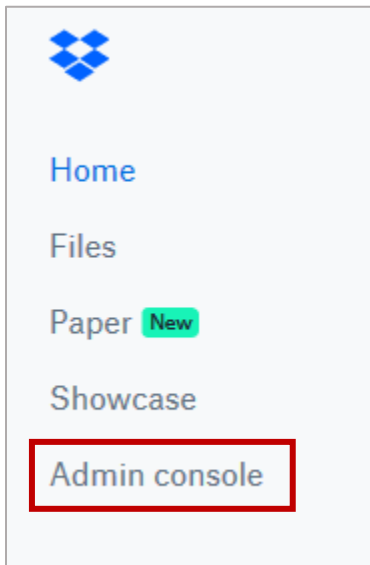
3. Enter the password and click **Sign in**.



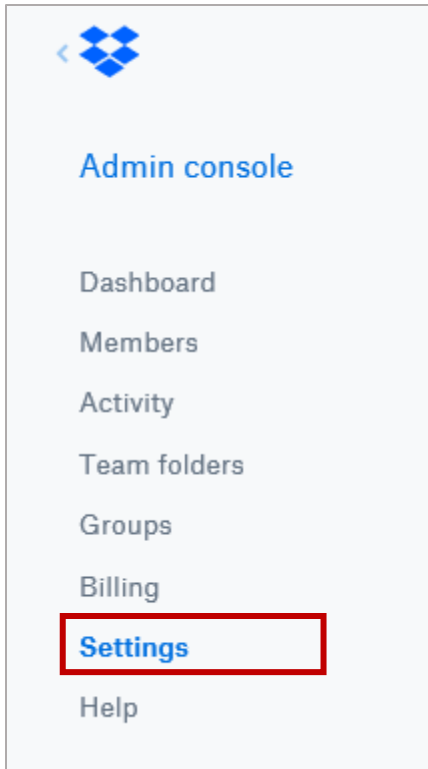
The screenshot shows a sign-in page with the following elements:

- Header: "Sign in" and a link "or create an account".
- Google sign-in button: A blue button with the Google logo and the text "Sign in with Google".
- Separator: A horizontal line with "or" in the center.
- Callout 1: A red circle with the number "1" pointing to the email input field.
- Callout 2: A red circle with the number "2" pointing to the password input field.
- Text: "This page is protected by reCAPTCHA, and subject to the Google [Privacy Policy](#) and [Terms of Service](#)."
- Remember me: A checked checkbox labeled "Remember me".
- Callout 3: A red circle with the number "3" pointing to the "Sign in" button.
- Link: "Forgot your password?"

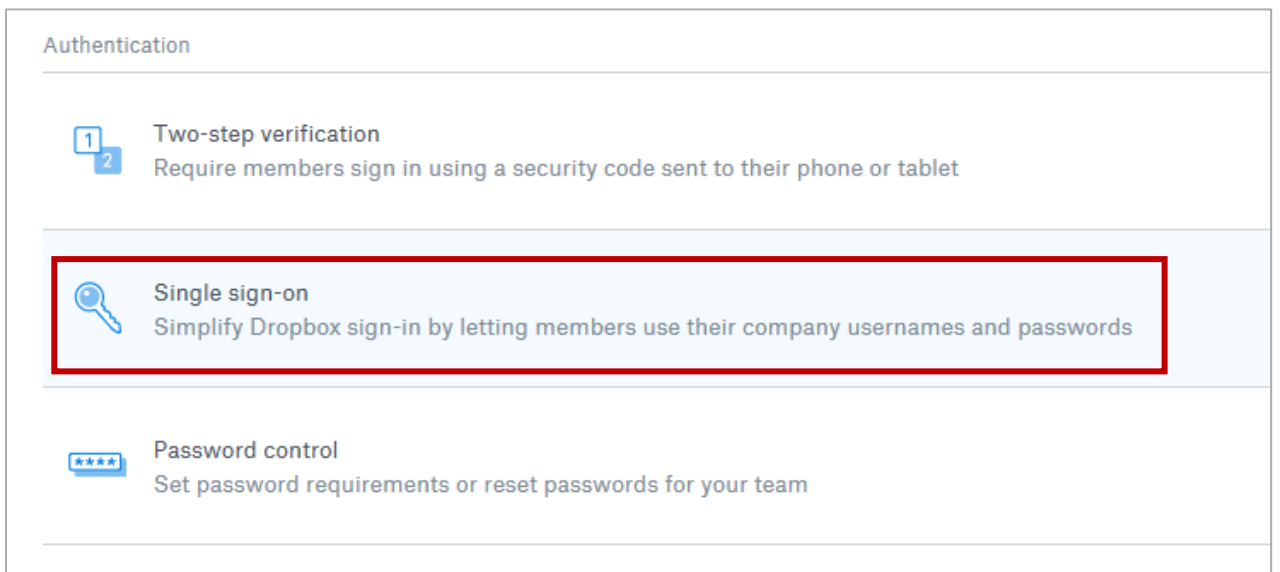
4. On the **Home** page, in the left pane, click **Admin console**.



5. Click **Settings**.

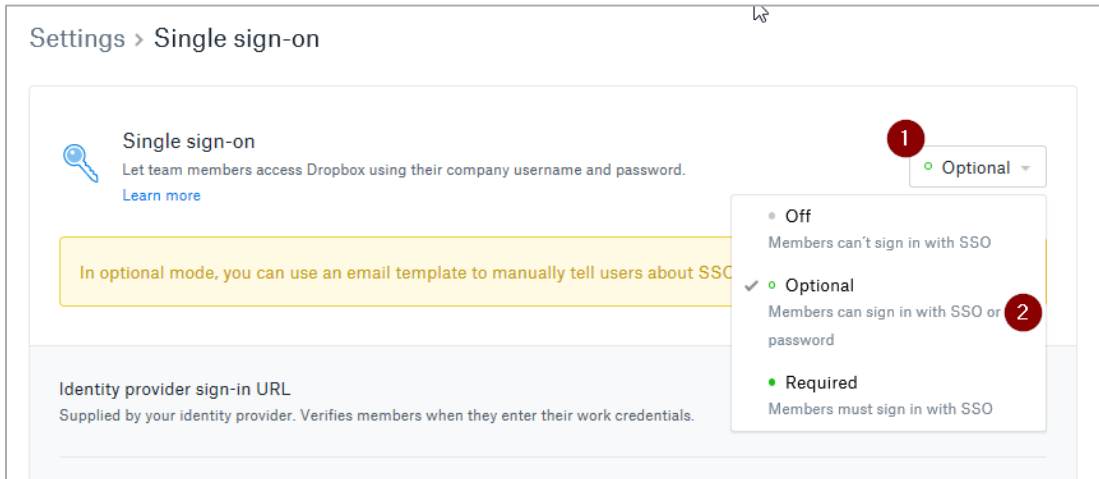


6. On the **Settings** page in the right pane, under Authentication section, click **Single sign-on**.





7. On the **Single sign-on** page, at the upper right corner, click the button to select a mode > **Optional**.



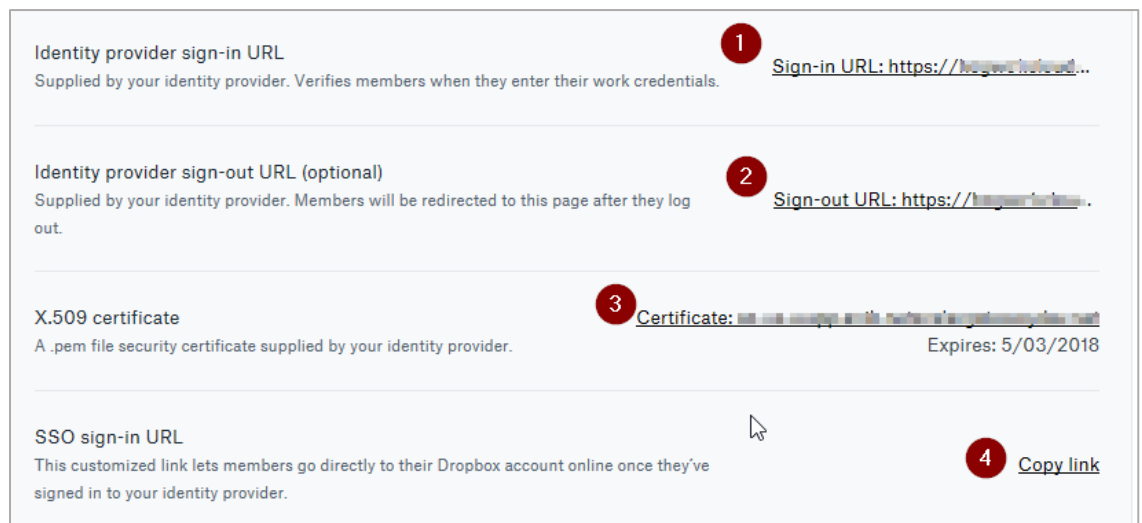
**Note:**

Optional mode enables users to sign in using their SSO or Dropbox user name and password. As an administrator, you can select this option to gradually implement SSO without interrupting the existing activities of the team.

Required mode mandates users to sign in to their central identity provider using their SSO password to access Dropbox. As an administrator, you can select this option to switch over to your identity provider for authentication.

8. On the Single sign-on page, click the respective link to specify the following information:

- i. **Identity Provider sign-in URL**- enter the IdP URL of your NetScaler app:  
<https://<netscalerinstance>.com/saml/login>
  - ii. **Identity Provider sign-out URL**- enter <https://<netscalerinstance>.com/cgi/tmlogout>
- Note:** This step is optional.



- iii. **X.509 certificate** - click the certificate link and browse to the folder where you saved the Identity provider certificate in .pem format. Add the IdP certificate.

**Note:** To upload your IdP certificate, follow the steps below:

- a. Remotely access your NetScaler instance using PuTTY.
- b. Navigate to /nsconfig/ssl folder (using shell command `cd /nsconfig/ssl`) and press Enter.
- c. Type `cat <certificate-name>` and press Enter.

```
1 -----BEGIN CERTIFICATE-----
2 MIIFPzCCBCegAwIBAgIQApjY189Tww/6/mHRS5nGDuzANBgkqhkiG9w0BAQsFADBN
3 MQs=
4 aWc=
5 MTg=
6 BAc=
7 LjE=
8 ADC=
9 yVj=
10 Kjf=
11 vdE=
12 RKZ=
13 RYC=
14 MBa=
15 +Cc=
16 Y2V=
17 BBy=
18 LyS=
19 OjE=
20 NDc=
21 dCE=
22 GGF=
23 Y2V=
24 dDA=
25 PAc=
26 +Xz=
27 gSf=
28 c+r=
29 UOZLmXmmupre1cnaJjor3hwkCzckpobu9TaqenWwq1A0Q0a1z/m7wz0qBAzy4WJ
30 6ED5
31 -----END CERTIFICATE-----
32
```

- d. Copy the text between -----BEGIN CERTIFICATE----- and -----END CERTIFICATE-----

- iv. **SSO sign-in URL** – to copy the URL, click **Copy link**.
- v. Click **Apply Changes**.

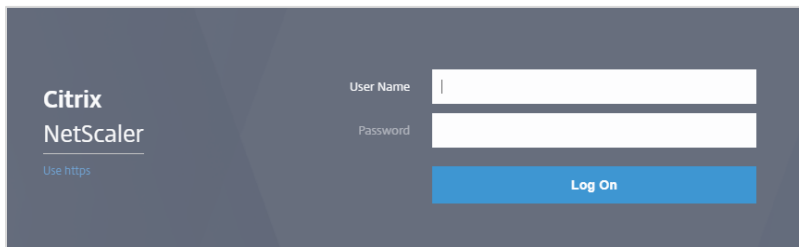
You have completed the required configuration on the service provider which is in this case – Dropbox.

# Configuring NetScaler for Single Sign-On

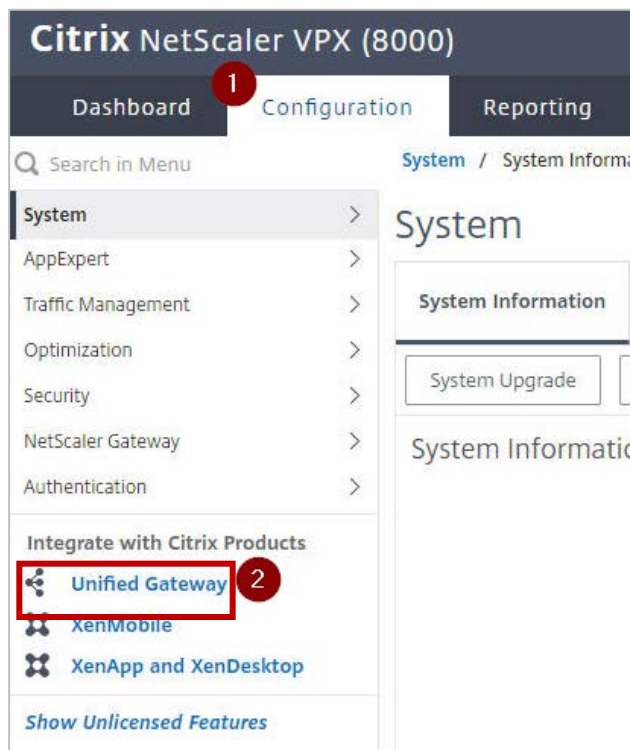
For configuring NetScaler for Dropbox, you must retrieve and set specific values such as assertion consumer URL, and entity ID.

To configure NetScaler for single sign on through SAML, complete the following steps:

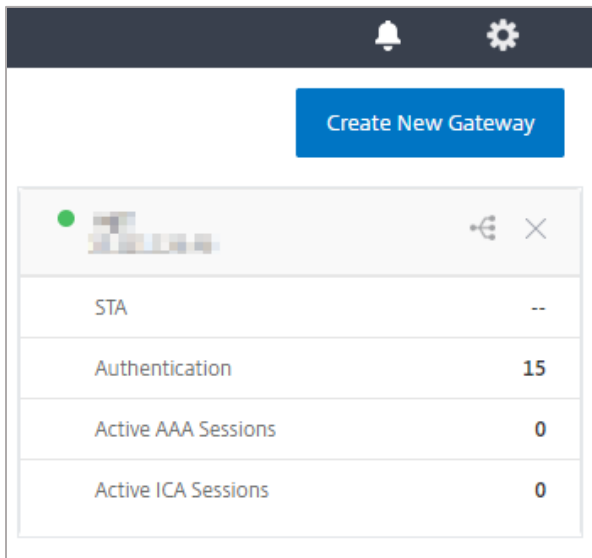
1. Connect to VPN using NetScaler with Unified Gateway.
2. Log on to NetScaler using your user name and password.



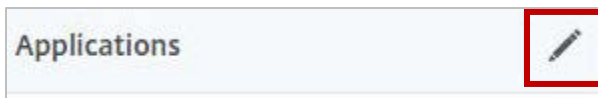
3. Click the **Configuration > Unified Gateway**.



4. In the **Dashboard** area, click the configured NetScaler Gateway appliance.



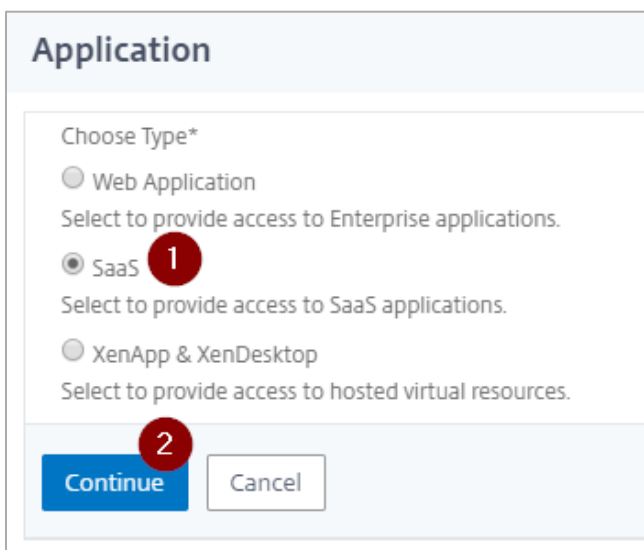
5. Click the edit icon for **Applications** section.



6. For adding a SaaS application, click the plus icon **+** that appears in the edit mode.



7. Click **SaaS > Continue**.



8. Click **Choose from Catalog**.
9. In the **Choose from Catalog** list, click **Dropbox**.

The screenshot shows the 'Application' configuration page. At the top, there is a section 'Choose Type' with 'SaaS' selected. Below that is a section 'SaaS Application: Catalog vs. Customized' with two radio buttons: 'Choose from Catalog' (selected) and 'Customized Application'. Under 'Choose from Catalog', there is a dropdown menu with a list of applications. The 'Dropbox' option is highlighted with a red box and a blue selection bar. The list of applications includes: Dropbox, Confluence, Creative Cloud, Decusign, GitHub, GoToMeeting, Jira, Oracle Cloud, PagerDuty, Service Now, Slack, Zendesk, and Zoom.

10. Click **Continue**.
11. In the **Create Application from Template** section, type the name of your SaaS application, in this case Dropbox, and relevant comments.

The screenshot shows the 'Create Application from Template' page. It has three main sections: 'Name\*' with a text input field containing 'Dropbox' and a help icon; 'Comments' with a text input field containing 'Dropbox'; and 'Icon URL (Imported from chosen application template)' with the Dropbox logo and name.

12. In the **Enter URL** box, enter your custom URL that you use for accessing Dropbox.

The screenshot shows a configuration window for Dropbox. At the top left is the Dropbox logo. Below it is the label 'Enter URL\*' followed by a text input field containing a URL. The next field is 'Service Provider ID\*' with an empty text input. Below that is 'SP Certificate Name' with a dropdown menu, a '+' icon, and a '-' icon. The next field is 'Signing Certificate Name\*' with a dropdown menu, a '+' icon, and a '-' icon. The final field is 'Issuer Name' with a text input. At the bottom left is a blue 'Continue' button, and at the bottom right is a white 'Cancel' button.

13. In the **Service Provider ID** box, type a unique name as: Dropbox

14. **SP Certificate Name** field is optional for Dropbox as adding the SP certificate name is optional for Dropbox.

15. In the **Signing Certificate Name** list select an appropriate certificate that will be used for signing SAML requests and responses.

**Note:** This is the X.509 certificate or the Identity provider certificate in .pem format that you uploaded while configuring Dropbox for SSO.

16. In the **Issuer Name** field type a unique issuer name.

17. Click **Continue**.

18. Click **Done**.

You have completed the NetScaler configuration for Dropbox.

# Testing the Configuration

## Testing the IdP Initiated Flow

To test the IdP initiated configuration, follow the steps below:

1. Access the IdP URL.
2. Log on to NetScaler appliance using your enterprise credentials.
3. Click **Clientless Access**.
4. On the home page, click **Apps** tab.
5. Click **Dropbox**.  
Your Dropbox profile appears.  
You have completed testing the IdP initiated flow.



**Locations**

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Silicon Valley | 4988 Great America Parkway Santa Clara, CA 95054, United States

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