Office 365 Two-Factor Authentication (2FA)

logintc.com/docs/connectors/adfs-office365

Overview

The LoginTC AD FS Connector protects access to your Microsoft Active Directory Federation Services (AD FS) by adding a second factor LoginTC challenge to existing username and password authentication. The LoginTC AD FS Connector provides a LoginTC multi-factor authentication (MFA) method to your AD FS deployment, used by your Office 365.

Subscription Requirement

Your organization requires the **Business** or **Enterprise** plan to use the LoginTC AD FS Connector. See the <u>Pricing</u> page for more information about subscription options.

User Experience

After entering the username and password into the AD FS login page, the user is shown a selection of second factor options. The user clicks a button to receive a LoginTC push notification, authenticates and is logged in.



- LoginTC Push
- <u>OTP</u>

Architecture



Authentication Flow

- 1. A user attempts access to Office 365 with username / password
- 2. A SAML request is made to AD FS
- 3. The username / password is verified against an existing first factor directory (i.e. Active Directory)
- 4. The request is trapped by LoginTC AD FS Connector and an authentication request is made to LoginTC Cloud Services
- 5. Secure push notification request sent to the user's mobile or desktop device
- 6. User response (approval or denial of request) sent to LoginTC Cloud Services
- 7. The LoginTC AD FS Connector validates the user response
- 8. User is granted access to Office 365

Prerequisites

Before proceeding, please ensure you have the following:

- Office 365 configured with federation to your on-premise AD FS
- LoginTC Admin Panel account
- Active Directory Federation Services (AD FS) Host, Microsoft Windows Server 2016 (or Windows Server 2012)

Working Office 365 Federation Deployment

It is strongly recommended that you have a working Office 365 deployment with federation against your on-premise AD FS prior to adding LoginTC multi-factor authentication. You may

use the <u>Microsoft Azure AD Connect tool</u> to deploy an on-premise AD FS and connect it to your Office 365/Azure AD.

Create Application

Start by creating a LoginTC Application for your deployment. An Application represents a service (e.g. An application is a service (e.g., VPN or web application) that you want to protect. e) that you want to protect with LoginTC.

Create a LoginTC Application in LoginTC Admin Panel, follow Create Application Steps.

If you have already created a LoginTC Application for your deployment, then you may skip this section and proceed to <u>Installation</u>.

Normalize Usernames

Usernames in ADFS are typically in the form "CORP\john.doe", while in the LoginTC Admin Panel it is generally more convenient to simply use "john.doe".

Configure Normalize Usernames from the Domain settings by navigating to **Domains > Your Domain > Settings**.

Select Yes, Normalize Usernames scroll down and click Update.

Installation

- 1. Download the latest version of the LoginTC AD FS Connector
- 2. Run the installer file as a privileged administrator user on the Windows Server with the AD FS role. Also ensure that the AD FS service is running prior to installing.

3. Press Next



4. Read the License Agreement and press **Next** if you accept the terms.

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5. Change the **LoginTC API Host** only if you have a private enterprise LoginTC deployment. Press **Next**:

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6. Enter your LoginTC **Application ID** and **Application API Key**. These values are found on your LoginTC Admin Panel. Press **Next**

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| Configuration: LoginTC | | 1 | |
| Configure how the connector communicates with LoginTC | | | D)) |
| Application ID: | | | _ |
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| The 40-character hexadecimal LoginTC application identifier. | | | |
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| Application API Key: | | | |
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| The 64-character alphanumeric LoginTC application API key. | | | |
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7. Press **Install**. Note that the AD FS service will be restarted during installation and may be temporarily unavailable to your users.



Configuration for Office 365 2FA Windows Server 2016 (AD FS version 4.0)

The instructions below are for AD FS (version 4.0) running on Windows Server 2016. If you have AD FS (3.0) running on Windows Server 2012 R2, see <u>AD FS Configuration in Two-factor authentication for AD FS on Windows Server 2012 R2</u>.

To configure your AD FS to use the LoginTC MFA method:

1. Open the **AD FS Management** console.

2. Click on the **Services > Authentication Policies** directory in the left side menu.



3. Click on Edit Global Multi-factor Authentication...

4. Check **LoginTC** in the list of MFA methods.

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| Select to enat | additional authentication methods. You ble MFA: | must select at leas | st one of the follo | wing method |
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- 5. Click on **Relying Party Trusts** in the left side menu
- 6. Select the Relying Party you wish to add LoginTC MFA to

7. Click on Edit Access Control Policy... under Actions in the right sidebar



8. Select an access control policy that uses MFA (e.g. **Permit everyone and require MFA**)

9. Press Apply and OK

| Edi | t Access Control Policy for Microsoft Office 3 | 55 Identity Platform | × |
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| Ac | cess control policy | | |
| | Choose an access control policy: | | |
| | Name | Description | |
| | Permit everyone | Grant access to everyone. | |
| | Permit everyone and require MFA | Grant access to everyone and requir | |
| | Permit everyone and require MFA for specific g | Grant access to everyone and requir | |
| | Permit everyone and require MFA from extranet | Grant access to the intranet users an | |
| | Permit everyone and require MFA from unauth | Grant access to everyone and requir | |
| | Permit everyone and require MFA, allow autom | Grant access to everyone and requir | |
| | Permit specific group | Grant access to users of one or more | |
| | | | |
| | Policy | | |
| | Permit users and require multi-factor authentication | | |
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| | | | |
| | | | |
| | | | |
| | | OK Cancel Apply | |

Windows Server 2019

If you are installing the LoginTC AD FS Connector on Windows Server 2019 you are required to run the following PowerShell command to allow the AD FS login page to embed the LoginTC authentication options:

```
Set-AdfsResponseHeaders -SetHeaderName "Content-Security-Policy" -SetHeaderValue
"frame-src 'self' https://cloud.logintc.com"
```

Your AD FS login will now present the user with a secondary LoginTC authentication page.

Usage

<u>User Usage</u>

The user proceeds to the Office 365 portal as they normally would and enter their username.



After entering their username at the Office 365 portal, the user is brought to your on-premise AD FS where they are prompted to enter their username and password.

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|--|--------------|
| fs.logintcdemo.com | UU 104 629 🥌 |
| Sign in with your organizational account | |
| jdoe@logintcdemo.com | × |
| Password | |
| Sign in | |
| © 2016 Microsoft | |

After successfully authenticating with their username and password, the user is presented with options to log in with LoginTC. The user may select to authenticate using LoginTC push, bypass codes, or OTPs.

| E State Attps://fs.logintcdemo.com/adfs/ls?RelaySta | | □ × ☆ 戀 🙂 |
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| | fs.logintcdemo.com | |
| | For security reasons, we require additional information to verify your account (jdoe@logintcdemo.com) | |
| | LoginTC Push | |
| | ○ Bypass Code | |
| | O <u>OTP</u> | |
| | Language English | |
| | Sign out | |
| | © 2016 Microsoft | |

If the user selects LoginTC push, they are informed to approve the LoginTC request on their device. The user is also presented with an option to remember their LoginTC login choice. The next time the user logs in they will automatically receive a LoginTC push notification. The user may also cancel the login attempt and return to the login page.

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| fs | .logintcdemo.com |
| For (jde | security reasons, we require additional information to verify your account pe@logintcdemo.com) |
| | |
| | Approve the LoginTC request on your device. |
| | Always use LoginTC Push |
| | Cancel |
| Sig | n out |
| | |
| ©2 | 016 Microsoft |

The user receives a push notification on their device where they have provisioned their LoginTC token.



After successfully authenticating with LoginTC, the user is redirected to their Office 365 portal.

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<u>Logging</u>

The LoginTC AD FS Connector logs events to the Microsoft Event Viewer under **Applications and Service Logs** \rightarrow **LoginTC**. In some cases, it may be helpful to also look at the general AD FS logs under **Custom Views** \rightarrow **ServerRoles** \rightarrow **Active Directory Federation Services**.

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Uninstallation

To uninstall the LoginTC AD FS Connector, simply navigate to the **Add or remove programs** in the Windows **Control Panel**, find LoginTC AD FS Connector in the list and follow the prompts.

Prior to Uninstalling

Prior to uninstalling the LoginTC AD FS Connector, ensure that the LoginTC MFA method is not being used in any of your AD FS authentication policies. The uninstallation will fail if the LoginTC MFA method is being used in any of your AD FS authentication policies.

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Troubleshooting

Email Support

For any additional help please email support@cyphercor.com. Expect a speedy reply.