

# Azure AD Application Proxy - Adoption Kit

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For the latest version, please check <https://aka.ms/aadadoptionkits>

## Contents

Azure AD Application Proxy - Adoption Kit .....	1
Awareness .....	2
Business Overview .....	2
Pricing and licensing requirements .....	2
Key benefits .....	3
Announcements/blogs .....	3
Training and learning resources .....	4
Level 100 concepts .....	4
Training .....	4
Videos .....	4
Books .....	5
Online courses .....	5
Whitepaper .....	5
Planning and change management .....	6
Solution architecture .....	6
Authentication methods .....	6
Deployment plan .....	6
QuickStart .....	7
Configuration scenarios .....	7
Troubleshoot .....	7
Customer stories/case studies .....	8
Support and feedback .....	8
Next steps .....	8

# Awareness

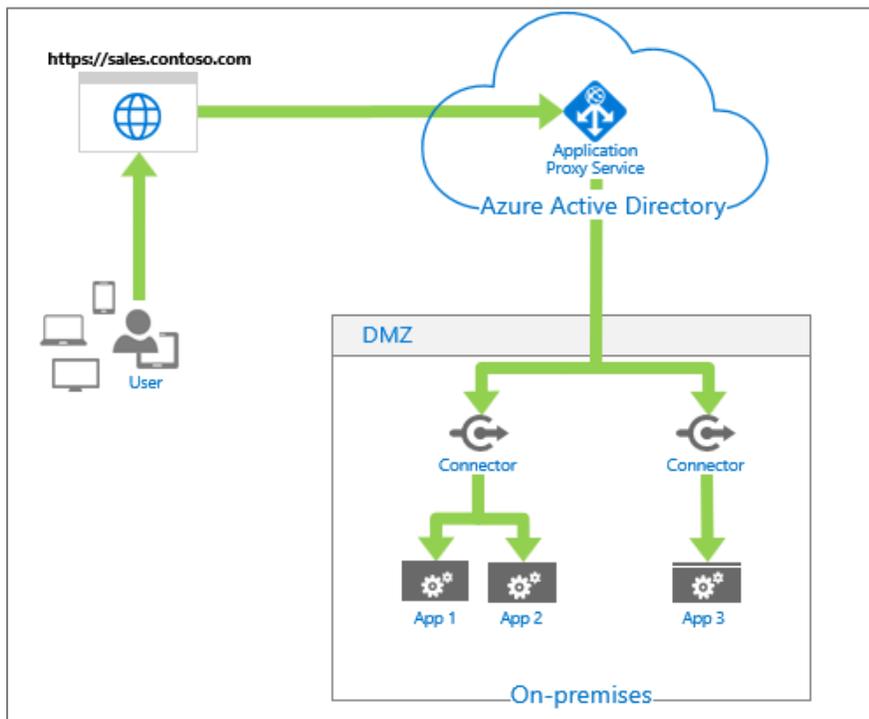
This section helps you to analyze the benefits of Azure Active Directory Application Proxy. You will learn about the ease of use, pricing, and licensing model. You can also access up-to-date announcements and blogs that discuss ongoing improvements.

## Business Overview

[Application Proxy \(App Proxy\)](#) brings the capabilities and security advantages of the cloud to your on-premises web applications. By implementing App Proxy in a hybrid coexistence scenario, you can:

- publish on-premises web apps externally in a simplified way without a demilitarized zone (DMZ)
- support single sign-on (SSO) across devices, resources, and apps in the cloud and on-premises
- support Microsoft Azure Multi-Factor Authentication for apps in the cloud and on-premises
- quickly use cloud features with the security of the Microsoft Cloud
- centralize user account management
- centralize control of identity and security and,
- automatically add or remove user access to applications based on group membership

App Proxy includes both the App Proxy service which runs in the cloud, and the App Proxy connector which runs on an on-premises server. Azure Active Directory (Azure AD), App Proxy service, and the App Proxy connector work together to securely pass the user sign-on token from Azure AD to the web application.



## Pricing and licensing requirements

App Proxy service is available with premium versions of Azure AD. See [Azure AD pricing](#).

## Key benefits

Using App Proxy gives you the following benefits:



### **Simple to use**

Users can access your on-premises applications the same way they access Office365 and other SaaS apps integrated with Azure AD. App Proxy runs in the cloud, which makes it easy to use.



### **Security**

App Proxy provides several security benefits including authenticated access, conditional access, traffic termination and outbound access.



### **Cost-effective**

On-premises solutions typically require you to set up and maintain DMZs, edge servers, or other complex infrastructures. You do not need to change the network infrastructure or install additional appliances in your on-premises environment which makes it a cost-effective option.

## Announcements/blogs

Azure AD receives improvements on an ongoing basis. To stay up to date with the most recent developments, refer to [What's new in Azure AD?](#)

# Training and learning resources

The following resources would be a good start to learn about App Proxy. They include level 100 concepts, videos by our experts, links to online courses, and useful whitepapers for reference.

## Level 100 concepts

Microsoft understands that some organizations have unique environment requirements or complexities. If yours is one of these organizations, use these recommendations as a starting point. However, most organizations can implement these recommendations as suggested.

- Find [what is the identity secure score in Azure AD?](#)
- Know the [five steps to securing your identity infrastructure](#)
- Understand [identity and device access configurations](#)

Refer to the following links to get started with App Proxy:

- Know [what is App Proxy for on-premises apps?](#)
- Learn how to [remote access to on-premises applications through App Proxy.](#)
- Understand [security considerations for accessing apps remotely with App Proxy](#)
- Understand [App Proxy connectors](#)
- Learn to [use connector groups](#)
- Know about [high availability and load balancing of your Application Proxy connectors and applications](#)
- Learn [network topology considerations when using App Proxy](#)
- Learn how App Proxy supports [SSO to applications in Azure AD](#)
- [Compare remote access solutions](#)

For more information, deep dive into [Application Management](#) documentation.

## Training

### Videos

Video	Description
<a href="#">How to get started with identity security</a>	Learn about identity security, why is it important, and what you can do to make it more secure
<a href="#">How to improve your identity security posture with Secure Score</a>	Get a walk-through about the identity secure score in the Azure AD portal.
<a href="#">What is Application Proxy in Azure Active Directory?</a>	Get an overview of App Proxy, its business value and how organizations can use it to publish their on-premises applications to the cloud.
<a href="#">How to deploy Application Proxy in Azure Active Directory</a>	Learn how to publish an on-premises application to the web via App Proxy in the Azure AD portal and enable SSO to the application.

[How to roll out Application Proxy in Azure Active Directory](#)

Learn how to test a published app through App Proxy with a pilot group of users, and then roll it out to the entire organization.

## Books

Source: Microsoft Press - [Modern Authentication with Azure Active Directory for Web Applications \(Developer Reference\) 1st Edition.](#)

Learn the essentials of authentication protocols and get started with Azure AD. Refer to examples of apps that use Azure AD for their authentication and authorization, including how they work in hybrid scenarios with Active Directory Federation Services (ADFS). Refer to page 67 for App Proxy.

## Online courses

Refer to the following courses on App Proxy at [pluralsight.com](https://pluralsight.com):

Course	Description
<a href="#">Get Started with the Microsoft Enterprise Mobility Suite</a>	Learn the best practices for extending on-premises assets to the cloud in a manner that allows for authentication, authorization, encryption, and a secured mobile experience.  Refer to chapter <b>Configuring Advanced Features</b> of <b>Microsoft Azure Active Directory Premium</b> module.
<a href="#">Microsoft Hybrid Identity – Overview</a>	Learn how the hybrid environment works and how to join your user directory to the Azure AD.  Refer to <b>Utilizing your Hybrid Identity</b> module.

## Whitepaper

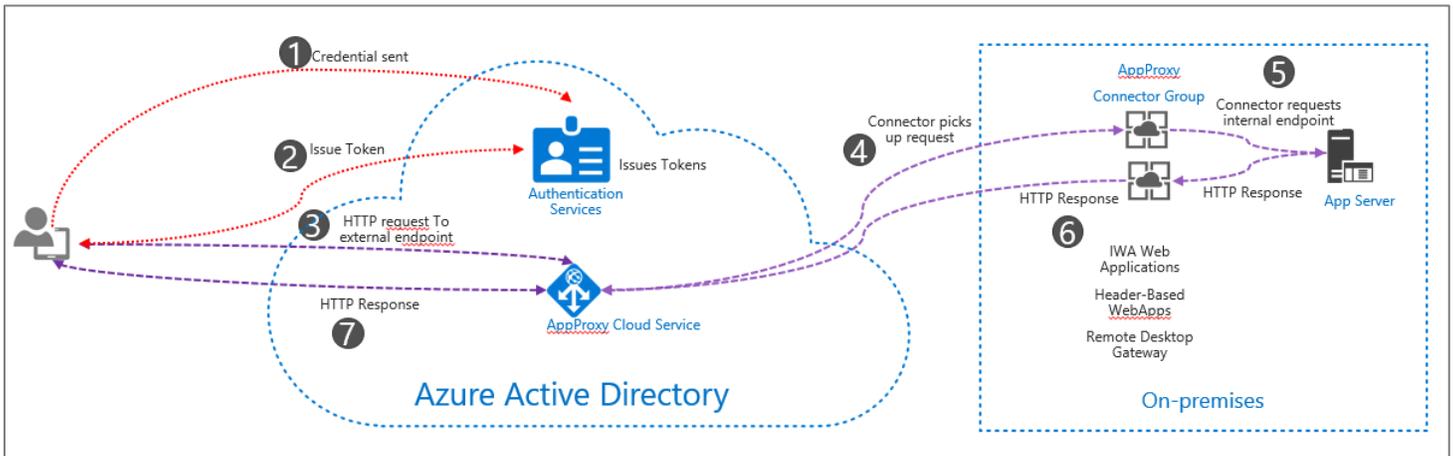
Whitepaper	Description
<a href="#">Security best practices for Azure solutions</a>	This whitepaper contains security best practices to use when designing, deploying, and managing cloud solutions using Azure.
<a href="#">Azure Active Directory Data Security Considerations</a>	This whitepaper outlines data security considerations.
<a href="#">Zero Trust Deployment Guide for Microsoft Azure Active Directory</a>	This guidance is to assist you if you are engaging in Microsoft's <a href="#">Zero Trust security strategy</a> .
<a href="#">Migrating your applications to Azure Active Directory</a>	App proxy provides you a <a href="#">roadmap to the cloud</a> . This whitepaper provides you with migration guidance.

# Planning and change management

In this section, you deep-dive into planning and deploying App Proxy in your organization. You will understand the solution architecture, authentication methods, and prepare your environment with the deployment plan. You will also be referred to quickstarts, collection of configuration scenarios, and troubleshooting links.

## Solution architecture

See how [Azure AD authentication services and Application Proxy work together](#) to provide SSO to end-users for their on-premises applications.



## Authentication methods

There are several ways to configure an application for SSO. The method you select depends on the authentication your application uses. App Proxy supports many [authentication methods](#) with third-party integrations or in specific configuration scenarios.

## Deployment plan

Learn how to prepare your environment for use with Azure AD App Proxy. Refer to [App Proxy deployment plan](#) - a comprehensive guide to plan and implement App Proxy in your organization. It includes the following sections:

Sections	Description
<a href="#">Plan your implementation</a>	A broad view of the key planning elements that will set you up for an efficient deployment experience. Includes – prerequisites, core requirements, inventory of in-scope applications, organizational requirements, and best practices for a pilot.
<a href="#">Implement your solution</a>	Follow the steps to deploy and publish applications via App Proxy. Includes – options to manage access, how to enable pre-authentication and SSO, work with other apps, and use conditional access to strengthen security.
<a href="#">Manage your implementation</a>	Review admin roles required to manage the tasks, reporting and monitoring tools.

## QuickStart

Refer to [Add an on-premises application for remote access through App Proxy in Azure AD](#).

This QuickStart prepares your environment for use with App Proxy and prepares you to use the Azure portal to add an on-premises application to your Azure AD tenant.

## Configuration scenarios

Refer to the extensive collection of configuring scenarios for [on-premises connectors](#) and [application access](#) that will assist you with App Proxy deployment in your environment.

## Troubleshoot

When troubleshooting App Proxy issues, we recommend you start with reviewing the troubleshooting flow, [Debug Application Proxy Connector issues](#), to determine if App Proxy connectors are configured correctly.

If you're still having trouble connecting to the application, follow the troubleshooting flow in [Debug Application Proxy application issues](#).

If errors occur in accessing a published application or in publishing applications, check [Troubleshoot App Proxy problems and error messages](#). If issues persist, find additional troubleshooting articles in the [App Proxy troubleshooting documentation](#).

# Customer stories/case studies

Discover how most organizations get remote access to their on-premises applications with one identity using Azure AD App Proxy. The following featured stories demonstrate this scenario:



[Wipro drives mobile productivity with Microsoft cloud security tools to improve customer engagements.](#) Wipro has added highly secure remote access to its on-premises corporate applications through Azure AD App Proxy, a feature that offers remote access as a service.



[Warsaw School of Economics establishes itself as a model university with Microsoft cloud technology.](#) With App Proxy, the school can access its internal applications from anywhere in the world without the need to set up VPN or other connections, therefore a browser will suffice.

To learn more about customer and partner experiences on Azure AD App Proxy, visit: [See the amazing things people are doing with Azure.](#)

## Support and feedback

**How can we improve Azure App Proxy? This section provides links to discussion forums and technical community support email IDs.**

We encourage you to join our [Technical Community](#), a platform to Microsoft Azure Active Directory users and Microsoft to interact. It is a central destination for education and thought leadership on best practices, product news, live events, and roadmap.

If you have technical questions or need help with Azure, please try [StackOverflow](#) or visit the MSDN [Azure AD forums](#).

Tell us what you think of Azure and what you want to see in the future. If you have suggestions, please submit an idea or vote up an idea at our User Voice Channel - [feedback.azure.com](#).

## Next steps

- Setup [SSO for all your applications](#).
- [Automate provisioning and deprovisioning](#)
- [Secure your applications](#)
- [Govern access to your applications](#) and
- [Hybrid secure access](#)