



# azure app configuration



Summary of Azure's app configuration service

## Recall

- What is Azure App Configuration?

[Recall](#)

[Overview](#)

[Using App Configuration](#)

## Overview

This is a service used to centrally manage application settings and feature flags. Modern programs, especially programs running in a cloud, generally have many components that are distributed in nature. Spreading configuration settings across these components can lead to hard-to-troubleshoot errors during an application deployment. Use App Configuration to store all the settings for your application and secure their accesses in one place.

Cloud-based applications often run on multiple virtual machines or containers in multiple regions and use multiple external services. Creating a robust and scalable application in a distributed environment presents a significant challenge.



One key recommendation from this guide is to separate configuration from code. An application's configuration settings should be kept external to its executable and read in from its runtime environment or an external source.

App Configuration offers the following benefits:

- A fully managed service that can be set up in minutes
- Flexible key representations and mappings
- Tagging with labels
- Point-in-time replay of settings
- Dedicated UI for feature flag management
- Comparison of two sets of configurations on custom-defined dimensions
- Enhanced security through Azure-managed identities
- Encryption of sensitive information at rest and in transit
- Native integration with popular frameworks

App Configuration complements Azure Key Vault, which is used to store application secrets. App Configuration makes it easier to implement the following scenarios:

- Centralize management and distribution of hierarchical configuration data for different environments and geographies
- Dynamically change application settings without the need to redeploy or restart an application
- Control feature availability in real-time

## Using App Configuration

The easiest way to add an App Configuration store to your application is through a client library provided by Microsoft. The following methods are available to connect with your application, depending on your chosen language and framework.

| Programming language and framework | How to connect                           | Quickstart                |
|------------------------------------|--|---------------------------|
| .NET Core                          | App Configuration provider for .NET Core | .NET Core quickstart      |
| ASP.NET Core                       | App Configuration provider for .NET Core | ASP.NET Core quickstart   |
| .NET Framework and ASP.NET         | App Configuration builder for .NET       | .NET Framework quickstart |

| Programming language and framework | How to connect                              | Quickstart                    |
|------------------------------------|---|-------------------------------|
| Java Spring                        | App Configuration provider for Spring Cloud | Java Spring quickstart        |
| JavaScript/Node.js                 | App Configuration client for JavaScript     | Javascript/Node.js quickstart |
| Python                             | App Configuration client for Python         | Python quickstart             |
| Other                              | App Configuration REST API                  | None                          |