

Azure Keyvault



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Key Vault

Advantages of using key vault

- Central management of secrets
- Increased security
- Developers do not have direct access to production keys
- Access control – who can access what
- Logging and control – accesses to key vault are logged



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Key Vault

Management of Keys

1. Create Key Vault
2. Create a secret
3. Create service principal
4. Create Service Principal (App Registration in Entra ID)
5. Allow key vault access to Service Principal
6. Set secret permissions in key vault



Key Vault

Create a new Key Vault

Home > Key vaults >

Create a key vault

...

Basics Access configuration Networking Tags Review + create

Azure Key Vault is a cloud service used to manage keys, secrets, and certificates. Key Vault eliminates the need for developers to store security information in their code. It allows you to centralize the storage of your application secrets which greatly reduces the chances that secrets may be leaked. Key Vault also allows you to securely store secrets and keys backed by Hardware Security Modules or HSMs. The HSMs used are Federal Information Processing Standards (FIPS) 140-2 Level 2 validated. In addition, key vault provides logs of all access and usage attempts of your secrets so you have a complete audit trail for compliance.

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *
 Resource group *
 Create new

Instance details

Key vault name *
 Region *
 Pricing tier *

Recovery options

Soft delete protection will automatically be enabled on this key vault. This feature allows you to recover or permanently delete a key vault and secrets for the duration of the retention period. This protection applies to the key vault and the secrets stored within the key vault.

To enforce a mandatory retention period and prevent the permanent deletion of key vaults or secrets prior to the retention period elapsing, you can turn on purge protection. When purge protection is enabled, secrets cannot be purged by users or by Microsoft.

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Review + create

Basics Access configuration Networking Tags Review + create

Configure data plane access for this key vault

To access a key vault in data plane, all callers (users or applications) must have proper authentication and authorization. Autl

Permission model

Grant data plane access by using a [Azure RBAC](#) or [Key Vault access policy](#)

- Azure role-based access control (recommended) [①](#)
 Vault access policy [①](#)

Resource access

- Azure Virtual Machines for deployment [①](#)
 Azure Resource Manager for template deployment [①](#)
 Azure Disk Encryption for volume encryption [①](#)

Access policies

Access policies enable you to have fine grained control over access to vault items. [Learn more](#)

+ Create [Edit](#) [Delete](#)

Name ↑↓

Email ↑↓

USER

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BertGollnick@GollnickDataSolutions.onmicrosoft.com

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Review + create

Key Vault

Create Secrets

Home > kv-bert

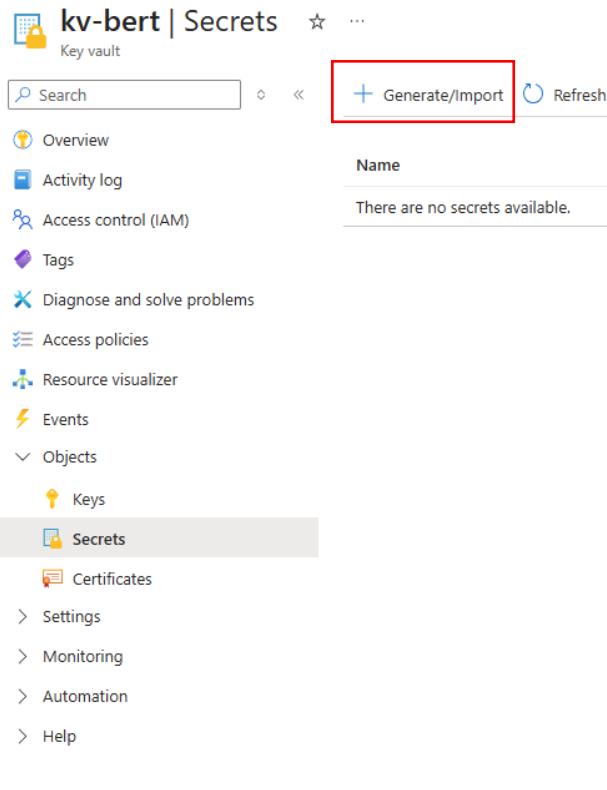
kv-bert | Secrets ⭐ ...

Key vault

Search + Generate/Import Refresh

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Access policies Resource visualizer Events Objects Keys **Secrets** Certificates

> Settings > Monitoring > Automation > Help



Home > kv-bert | Secrets >

Create a secret

Upload options

Name *

Secret value * ← Copied from AI Services

Content type (optional)

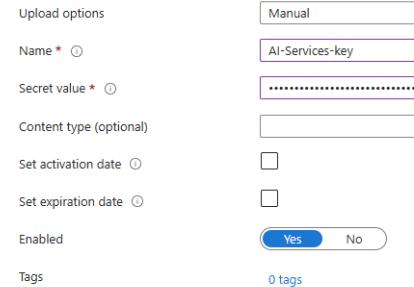
Set activation date

Set expiration date

Enabled Yes No

Tags

Create **Cancel**



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Key Vault

App Registration

A screenshot of the Azure portal interface. At the top, there is a search bar containing the text "active dire". Below the search bar, there are three main category buttons: "All", "Services (25)", and "Marketplace (31)". To the right of these, there is a "More (4)" button. Under the "Services" heading, there is a list item for "Microsoft Entra ID" with the subtext "Keywords: Azure Active Directory".

A screenshot of the Microsoft Entra ID service overview page. The page has a sidebar on the left with several navigation items: "Overview" (selected), "Preview features", "Diagnose and solve problems", "Manage" (with sub-items: "Users", "Groups", "External Identities", "Roles and administrators", "Administrative units", "Delegated admin partners", "Enterprise applications", "Devices", and "App registrations"). The main content area shows a large number "1." followed by a horizontal ellipsis.

3. Register an application

* Name

The user-facing display name for this application (this can be changed later).

myaiapp

Supported account types

Who can use this application or access this API?

- Accounts in this organizational directory only (Gollnick Data Solutions GmbH only - Single tenant)
- Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant)
- Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)
- Personal Microsoft accounts only

[Help me choose...](#)

Redirect URI (optional)

We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.

Select a platform e.g. <https://example.com/auth>

Register an app you're working on here. Integrate gallery apps and other apps from outside your organization by adding from [Enterprise applications](#).

By proceeding, you agree to the [Microsoft Platform Policies](#)

[Register](#)

Key Vault

App Registration

Home > [Gollnick Data Solutions GmbH | App registrations](#) >



Search

Delete Endpoints Preview features

Overview Quickstart Integration assistant Diagnose and solve problems Manage Support + Troubleshooting

Display name : myaiapp

Application (client) ID : e982bcfd-8879-4106-b92a-94e582a2c447

Object ID : d6db7a49-d4b1-482a-974c-3d2ef216ba71

Directory (tenant) ID : da336bd1-97ad-43e2-9709-c10bb2ce4b3b

Supported account types : [My organization only](#)

Client credentials : [Add a certificate or secret](#)

Redirect URIs : [Add a Redirect URI](#)

Application ID URI : [Add an Application ID URI](#)

Managed application in I... : [myaiapp](#)

Welcome to the new and improved App registrations. Looking to learn how it's changed from App registrations (Legacy)? [Learn more](#)

Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and Azure Active Directory Graph. We will continue to provide technical support and security updates for existing users. Microsoft will need to be upgraded to Microsoft Authentication Library (MSAL) and Microsoft Graph. [Learn more](#)

[Get Started](#) Documentation



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Key Vault

Create Secrets

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

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myaiapp | Certificates & secrets

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Search Got feedback?

Overview Quickstart Integration assistant Diagnose and solve problems Manage Branding & properties Authentication Certificates & secrets Token configuration API permissions Expose an API App roles Owners Roles and administrators Manifest Support + Troubleshooting

Credentials enable confidential applications to identify themselves to the authentication service when receiving tokens at a web addressable location (using an HTTPS scheme). For a higher level of assurance, we recommend using a certificate (instead of a client secret) as a credential.

Application registration certificates, secrets and federated credentials can be found in the tabs below.

Certificates (0) Client secrets (0) Federated credentials (0)

A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.

New client secret

Description	Expires	Value ⓘ	Secret ID
No client secrets have been created for this application.			

Add a client secret

Description: secret1

Expires: Recommended: 180 days (6 months)

Add Cancel

Key Vault

Create Secrets

Microsoft Azure Search resources, services, and docs (G+) Copilot

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myaiapp | Certificates & secrets

Search Got feedback?

Overview Quickstart Integration assistant Diagnose and solve problems Manage Branding & properties Authentication Certificates & secrets Token configuration API permissions Expose an API App roles Owners Roles and administrators Manifest Support + Troubleshooting

Got a second to give us some feedback? →

Credentials enable confidential applications to identify themselves to the authentication service when receiving tokens at a web addressable location (using an HTTPS scheme). For a higher level of assurance, we recommend using a certificate (instead of a client secret) as a credential.

Application registration certificates, secrets and federated credentials can be found in the tabs below.

Certificates (0) Client secrets (1) Federated credentials (0)

A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.

New client secret

Description	Expires	Value ⓘ	Secret ID
secret1	3/18/2026	cYO8Q~8AlbrkVktphcjR~u2HIJY8.yillyglk... Copy	8d2f4f38-d690-4678-8b78-77a1763fb2f7 Download Edit

Key Vault

IAM

Home > Azure subscription 1 | Access control (IAM) >

Add role assignment

Role Members* Conditions Review + assign

A role definition is a collection of permissions. You can use the built-in roles or you can create your own custom roles. [Learn more](#)

 Copilot can help pick a role

Job function roles Privileged administrator roles

Grant privileged administrator access, such as the ability to assign roles to other users.

 Can a job function role with less access be used instead?

 Search by role name, description, permission, or ID

Type : All

Category : All

Name ↑↓

Description ↑↓

Owner	Grants full access to manage all resources, including the ability to assign roles in Azure RBAC.
Contributor	Grants full access to manage all resources, but does not allow you to assign roles in Azure RBAC, manage assignments in Azure Blueprints, or share image.
Access Review Operator Service Role	Lets you grant Access Review System app permissions to discover and revoke access as needed by the access review process.
Azure File Sync Administrator	Provides full access to manage all Azure File Sync (Storage Sync Service) resources.
Azure IoT Operations Onboarding	User can Azure arc connect and deploy Azure IoT Operations securely.
Azure Resilience Management Drills Administrator	Administrator Role of Azure Resilience Management Drills Service
Role Based Access Control Administrator	Manage access to Azure resources by assigning roles using Azure RBAC. This role does not allow you to manage access using other ways, such as Azure Po
User Access Administrator	Lets you manage user access to Azure resources.

Showing 1 - 8 of 8 results.

Add contributor role



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Key Vault

Create Secrets

Home > Azure subscription 1 | Access control (IAM) >

Add role assignment ...

Role Members* Conditions Review + assign

Selected role

Contributor

Assign access to

User, group, or service principal
 Managed identity

Members

+ Select members

Name	Object ID	Type
------	-----------	------

No members selected

Description

Optional

Select members

myai

-  myaiapp Application
-  myaiapp Application

Selected members:

-  myaiapp Application
-  myaiapp Application

Review + assign

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Select

Close

Key Vault

Set Permission in Key Vault

Home > kv-bert

kv-bert | Access policies ⋮ ...

Key vault

+ Create Refresh Delete Edit

Search

Access policies enable you to have fine grained control over

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Access policies

Resource visualizer

Showing 1 to 1 of 1 records.

Permissions : All

Search

Name ↑

USER

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Configure from a template

Select a template

Permissions **Principal** **Application (optional)** **Review +**

Key permissions

Key Management Operations

Select all

Get

List

Update

Create

Import

Delete

Recover

Backup

Restore

Cryptographic Operations

Select all

Secret permissions

Secret Management Operations

Select all

Get

List

Set

Delete

Recover

Backup

Restore

Privileged Secret Operations

Select all

Purge



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Key Vault

Set Permission in Key Vault

Home > kv-bert | Access policies >

Create an access policy

kv-bert

Permissions Principal Application (optional) Review + create

Only 1 principal can be assigned per access policy.

Use the new embedded experience to select a principal. The previous popup experience can be accessed here. [Select a principal](#)

myai

myaiapp
18b546b4-5aca-462d-a43d-8f7e865a42b2

myaiapp
e982bcfd-8879-4106-b92a-94e582a2c447



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