

# 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



# 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

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### Create a key vault ...

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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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### 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) ⓘ
- ☒ Vault access policy ⓘ

#### Resource access

- ☐ Azure Virtual Machines for deployment ⓘ
- ☐ Azure Resource Manager for template deployment ⓘ
- ☐ Azure Disk Encryption for volume encryption ⓘ

#### Access policies

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

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

<input checked="" type="checkbox"/> Name ↑↓	Email ↑↓
USER	
<input checked="" type="checkbox"/> Bert Gollnick	BertGollnick@GollnickDataSolutions.onmicrosoft.com

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# Key Vault

## Create Secrets

Home > kv-bert



kv-bert | Secrets



Key vault

Search



+ Generate/Import



Refresh

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Access control (IAM)

Tags

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Access policies

Resource visualizer

Events

Objects

Keys

Secrets

Certificates

> Settings

> Monitoring

> Automation

> Help

Name

There are no secrets available.

Home > kv-bert | Secrets >



Create a secret



Upload options

Manual

Name \*



AI-Services-key

Secret value \*



.....

Content type (optional)

Set activation date



Set expiration date



Enabled

Yes

No

Tags

0 tags

Copied from AI Services

Create

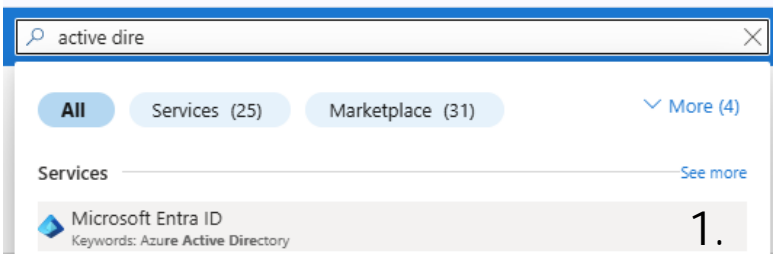
Cancel



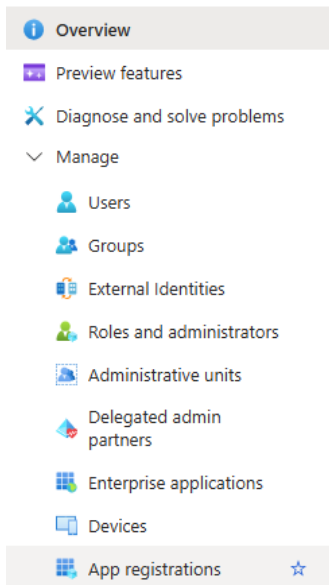
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# Key Vault

## App Registration



2.



3.

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### 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

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

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 **myaiapp** ✨ ...

 **Overview**




 Quickstart

 Integration assistant

 Diagnose and solve problems

> Manage

> Support + Troubleshooting

 Delete  Endpoints  Preview features

### ^ Essentials

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 L... : [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 these libraries. Users who will need to be upgraded to Microsoft Authentication Library (MSAL) and Microsoft Graph. [Learn more](#)

[Get Started](#) Documentation

## Create Secrets

Search « Got feedback?

 Quickstart

- ✕ Diagnose and solve problems

▼ Manage

Branding &amp; 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.

## Description

secret1

Expires

Recommended: 180 days (6 months)

Add

Cancel



# Key Vault

## Create Secrets

Home > Gollnick Data Solutions GmbH | App registrations > myaiapp

### myaiapp | Certificates & secrets

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Branding & properties

Authentication

Certificates & secrets

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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.yllygik...	8d2f4f38-d690-4678-8b78-77a1763fb2f7

# Key Vault

## IAM

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### 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

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### 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 ×

-  myaiapp Application
-  myaiapp Application

Selected members:

-  myaiapp Application 
-  myaiapp Application 

# Key Vault

## Set Permission in Key Vault

Home > kv-bert

kv-bert | Access policies ☆ ...

Key vault

Search + Create Refresh Delete Edit

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Access policies

Resource visualizer

Access policies enable you to have fine grained control over

Search Permissions : All X

Showing 1 to 1 of 1 records.

Name ↑↓

USER

Bert Gollnick

1 Permissions

2 Principal

3 Application (optional)

4 Review +

Configure from a template

Select a template

### 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 2 **Principal** 3 Application (optional) 4 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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