



SZABIST

Name	Umer Amir
Registration Id	2112241
Section	BSCS 8 th A
Course	Introduction to DevOps
Instructor	Tariq Khan Ghouri

DevOps

LAB05

By Umer Amir _ 2112241

M. Taha Jamal _ 2112244

TASK 1:

Microsoft Azure

Search resources, services, and docs (Ctrl+K)

Home > Key vault > 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 chance 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 * ↓ Azure for Students

Resource group * ↓ AzureKeyVaultsRG [Create new](#)

Instance details

Key vault name * ⓘ keyvault001234 ↓

Region * ⓘ East US ↓

Pricing tier * ⓘ Standard ↓

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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keyvaulttest2025 Key vault

Search

Overview | Activity log | Access control (IAM) | Tags | Diagnose and solve problems | Access policies | Resource visualizer | Events | Objects | Settings | Access configuration | Networking | Microsoft Defender for Cloud | Properties | Tools | Monitoring | Automation | Help

Essentials

Resource group: [keyvaulttest2025](#) | Info: [keyvaulttest2025](#)

Location: East US

Subscription: [Azure for Students](#)

Subscription ID: 0564144-2996-4403-a079-f5d740a6b68

Tags: [keyvaulttest2025](#) | - 568 tags

Vault URL: <https://keyvaulttest2025.vault.azure.net/>

Geo (Primary loc): Standard

Directory ID: 98718e55-8a38-4193-a22b-bde3911081e

Directory Name: Default Directory

Soft delete: Enabled

Purge protection: Disabled

Get started | Properties | Monitoring | Tools + SDKs | Tutorials

Manage keys and secrets used by apps and services

Our recommendation is to use a vault per application per environment (Development, Pre-Production and Production). This helps you to not share secrets across environments and also reduces the threat in case of a breach.

Control access to key vault

Assign access policy and determine whether a given service principal, namely an application or user group, can perform allowed operations on key vault keys, secrets or certificates.

[Access configuration](#)

Access policies
Access control (IAM)

Enable logging and set up alerts

Enable logging to monitor how, when and by whom your key vaults are accessed. Monitor performance and configure alerts for key vault metrics e.g. service availability, error counts, throughput.

[View](#)

Turn on recovery options

For protection against accidental or malicious deletion, soft-delete is enabled. Turn on purge protection to guard against manual purging of deleted key vaults and items. [Learn more](#) (f)

[Explore](#)

TASK 2:

Microsoft Azure | Search resources, services, and docs (Ctrl-F) | Copilot

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keyvaulttest2025 | Secrets

Search

+ Generate/import | Refresh | Restore backup | Manage deleted secrets | View sample code

Name	Type	Status	Expiration date
ExamplePassword		✓ Enabled	

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Secrets

Certificates

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Diagnostic settings

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 **159375315c204f2b804374ac2a2a871a**  

Secret Version

Properties

Created 4/9/2025, 9:56:27 PM

Updated 4/9/2025, 9:56:27 PM

Secret identifier <https://keyvaultTest025.vault.azure.net/secrets/ExamplePassword/159375315c204f2b804374ac2a2a871a> 

Settings

Set activation date  ☐

Set expiration date  ☐

Enabled Yes No

Tags [+ Tags](#)

Secret

Content type (optional)

[Hide Secret Value](#)

Secret value

1015405 

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