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BSSE 7A

2280133

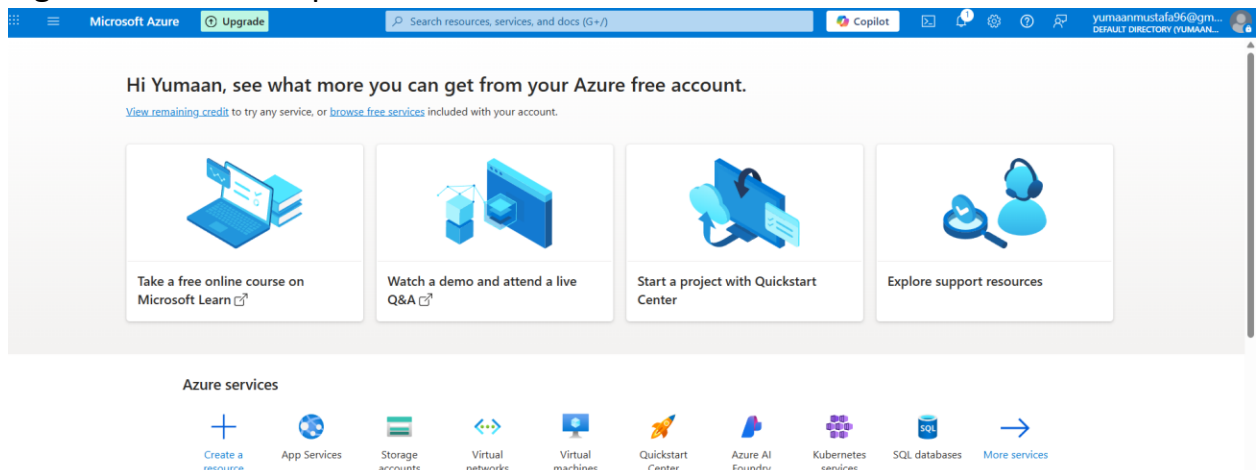
Lab 5

05 - Implement Azure Key Vault (5 min):

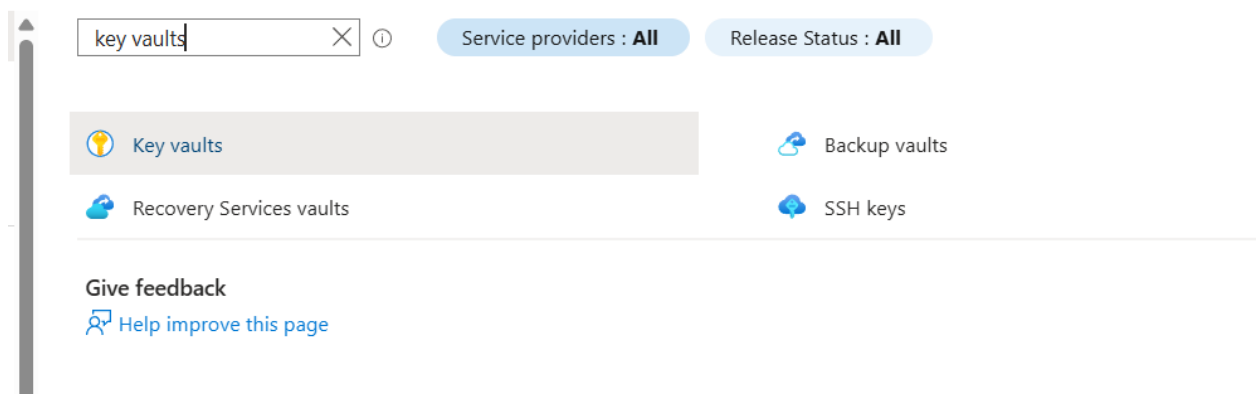
In this walkthrough, we will create an Azure Key vault and then create a password secret within that key vault, providing a securely stored, centrally managed password for use with applications.

Task 1: Create an Azure Key Vault:

1. Sign in to the Azure portal.



2. From the All services blade, search for and select Key vaults, then select ****+Add +New +Create ****.



3. Configure the key vault (replace xxxx in the name of the key vault with letters and digits such that the name is globally unique). Leave the defaults

for everything else. Setting Subscription Value Use default supplied
Resource group Create new resource group Key vault name keyvaulttestxxx
Location East US Pricing tier Standard

[All services](#) > [Key vaults](#) >

Create a key vault

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 * | <div>Azure subscription 1</div> |
| Resource group * | <div>(New) keyvault</div> <div>Create new</div> |

Instance details

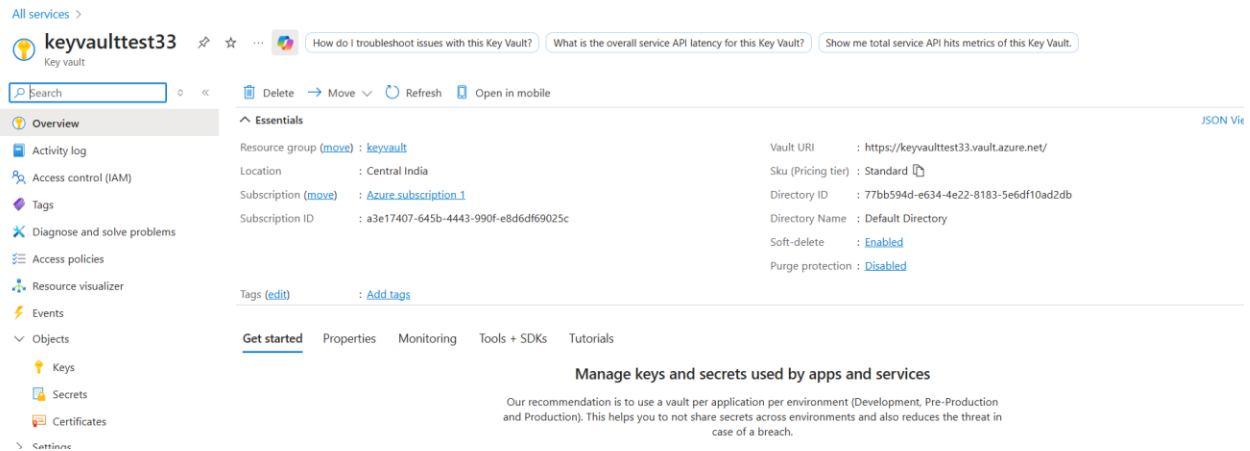
| | |
|--------------------|---------------------------|
| Key vault name * ⓘ | <div>keyvaulttest33</div> |
| Region * | <div>Central India</div> |
| Pricing tier * ⓘ | <div>Standard</div> |

4. Note replace xxxx to find a unique name.

5. Click Review + create, and then click Create.

6. Once the new key vault is provisioned, click Go to resource. Or you can locate your new key vault by searching for it.

7. Click on the key vault Overview tab and take note of the Vault URI. Applications that use your vault through the REST APIs will need this URI.



8. Take a moment to browse through some of the other key vault options. Under Settings review Keys, Secrets, Certificates, Access Policies, Firewalls and virtual networks. Note: Your Azure account is the only one authorized to perform operations on this new vault. You can modify this if you wish in the Settings and then the Access policies section.

Task 2: Add a secret to the Key Vault:

In this task, we will add a password to the key vault.

1. Under Settings click Secrets, then click + Generate/Import.
2. Configure the secret. Leave the other values at their defaults. Notice you can set an activation and expiration date. Notice you can also disable the secret. Setting Value Upload options Manual Name Example Password Value hVFkk96

All services > keyvaulttest2280133 | Secrets >



Create a secret ...

| | |
|-------------------------|---|
| Upload options | Manual |
| Name * | ExamplePassword |
| Secret value * | ***** |
| Content type (optional) | |
| Set activation date | <input type="checkbox"/> |
| Set expiration date | <input type="checkbox"/> |
| Enabled | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| Tags | 0 tags |

Create

Cancel

3. Click Create.

4. Once the secret has been successfully created, click on the ExamplePassword, and note it has a status of Enabled

keyvaulttest2280133 | Secrets

Key vault

se

[Generate/Import](#) [Refresh](#) [Restore Backup](#) [Manage deleted secrets](#) [View sample code](#)

Diagnose and solve problems

Objects

Secrets

Settings

Microsoft Defender for Cloud

Monitoring

D diagnostic settings

Help

Support + Troubleshooting

The secret 'ExamplePassword' has been successfully created.

| Name | Type | Status | Expiration date |
|-----------------|------|-----------|-----------------|
| ExamplePassword | | ✓ Enabled | |

4. Select the secret you just created, note the Secret Identifier. This is the url value that you can now use with applications. It provides a centrally managed and securely stored password.

Properties

Created


11/6/2025, 5:35:06 PM

Updated

11/6/2025, 5:35:06 PM

Secret Identifier

https://keyvaulttest2280133.vault.azure.net/secrets/ExamplePassword/...



Settings

Set activation date ⓘ

☐

Set expiration date ⓘ

☐

Enabled

Yes

No

Tags

0 tags

Secret

Content type (optional)

Show Secret Value

Secret value

Copy to clipboard

- Click the button Show Secret Value, to display the password you specified earlier.

Tags

0 tags


Secret

Content type (optional)

Hide Secret Value

Secret value

hVFkk96



Apply

Discard changes

Close