

# VERZEO

(Major Project)

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## Task 1:

Manage a password in Azure Key Vault.

## Solution:

To create a key vault, we would need any basic subscription.

We can also create key vaults using Azure Sandbox.

**Azure Key Vault is a resource that helps you securely store and access your keys, secrets and certificates.**

To store your Key you need to create a key vault:

- Navigate to azure key vault and fill the given form as per your requirements

### Create a key vault

Project details

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

Subscription \*

Free Trial

Resource group \*

(New) Verzeo-demo

Create new

Instance details

Key vault name \* ⓘ

demokeyvaultDJ ✓

Region \*

Central India

Pricing tier \* ⓘ

Standard

Soft-delete ⓘ

Enabled

Days to retain deleted vaults \* ⓘ

10 ✓

Purge protection ⓘ

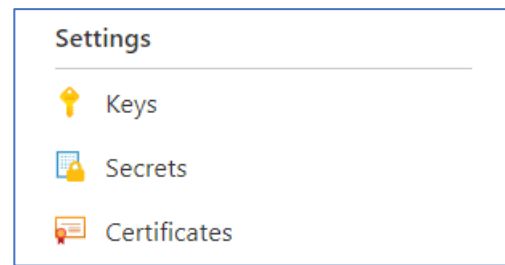
☐ Disable purge protection (allow key vault and objects to be purged during retention period)

☒ Enable purge protection (enforce a mandatory retention period for deleted vaults and vault objects)

☐ Once enabled, this option cannot be disabled

Once you have create a key vault now is time to choose a service that you want: **Some of the basic services are keys, secrets and certificates.**

We are going to **create a secret** to manage our password.



1. Click add a secret button in the secret tab located in the key vault.
2. Fill the form and enter your password (Vaule).
3. Click create.

### Create a secret ...

Upload options	<div>Manual</div>	
Name * ⓘ	<div>Vm-Password-VerzeoDemo</div>	
Value * ⓘ	<div>.....</div>	
Content type (optional)	<div>Demo</div>	
Set activation date ⓘ	<input checked="" type="checkbox"/>	
Activation date	<div>08/09/2022</div>	<div>10:00:00 PM</div>
	<div>(UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi</div>	
Set expiration date ⓘ	<input type="checkbox"/>	
Enabled	<div>Yes No</div>	
Tags	<div>0 tags</div>	

## Accessing password

1. To access your password select the secret you want to access from the secret tab
2. Select the version that you want to access
3. Click show secret value to view your password.

The screenshot displays the Azure Key Vault interface for a specific secret. At the top, the secret's ID is shown as '453f1021b6ad4ffb9607c9d724ffec35'. Below this, there are 'Save' and 'Discard changes' buttons. The interface is divided into two main sections: 'Properties' and 'Settings'.

**Properties:**

- Created:** 8/9/2022, 10:02:15 PM
- Updated:** 8/9/2022, 10:02:15 PM
- Secret Identifier:** <https://demokeyvaultdj.vault.azure.net/secrets/Vm-Password-VerzeoD...>

**Settings:**

- Set activation date:** ☒
- Activation date:** 08/09/2022, 10:00:00 PM, (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi
- Set expiration date:** ☐
- Enabled:** Yes (selected), No
- Tags:** 0 tags
- Secret Content type (optional):** Demo

At the bottom, there is a 'Hide Secret Value' button and a 'Secret value' field containing 'DemoPassword'.

## Task 2:

Create a SQL database

## Solution:

To create a SQL Database.

1. Search for SQL Database
2. Click the create button to create new SQL DB.
3. Fill in the form given
4. Keep sure to select a compute storage as per your requirement. **It is a payable service.**

## Create SQL Database ...

Microsoft

### Project details

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

Subscription \* ⓘ

Free Trial



Resource group \* ⓘ

Verzeo-demo

[Create new](#)

### Database details

Enter required settings for this database, including picking a logical server and configuring the compute and storage resources

Database name \*

VZDemoDB

Server \* ⓘ

(new) demodbvz (Central India)

[Create new](#)

Want to use SQL elastic pool? ⓘ



Yes



No

Compute + storage \* ⓘ

**Standard S0**

10 DTUs, 250 GB storage

[Configure database](#)

## 5. Select a storage redundancy – How secure you want to keep your data. (This may contain extra charges)

### Backup storage redundancy

Choose how your PITR and LTR backups are replicated. Geo restore or ability to recover from regional outage is only available when geo-redundant storage is selected.

Backup storage redundancy ⓘ



Locally-redundant backup storage



Zone-redundant backup storage



Geo-redundant backup storage



Selected value for backup storage redundancy is Geo-redundant backup storage. Database backups will be geo-replicated which might impact your data residency requirements. [Learn more](#)

## If you don't have a SQL Server already deployed:

1. Select the create new button
2. Fill the form
3. Choose the authentication method, You can choose whether to use a SQL Authentication or Azure AD or both.

### Create SQL Database Server

Microsoft

#### Server details

Enter required settings for this server, including providing a name and location. This server will be created in the same subscription and resource group as your database.

Server name \*

demodbvz ✓  
.database.windows.net

Location \*

(Asia Pacific) Central India ✓

#### Authentication

Select your preferred authentication methods for accessing this server. Create a server admin login and password to access your server with SQL authentication, select only Azure AD authentication [Learn more](#) using an existing Azure AD user, group, or application as Azure AD admin [Learn more](#), or select both SQL and Azure AD authentication.

Authentication method

☒ Use SQL authentication  
☐ Use only Azure Active Directory (Azure AD) authentication  
☐ Use both SQL and Azure AD authentication

Server admin login \*

MyUsernameDj ✓

Password \*



..... ✓

Confirm password \*

..... ✓

## 4. Review + Create

✓ Your deployment is complete

 Deployment name: Microsoft.SQLDatabase.newDatabaseNewServe... Start time: 8/10/2022, 12:18:03 AM  
Subscription: [Free Trial](#) Correlation ID: 5b6f875f-dbb5-4e9c-bb6f-b5fa0ce70489   
Resource group: [Verzeo-demo](#)

✓ Deployment details [\(Download\)](#)

^ Next steps

[Go to resource](#)

### Task 3:

Create a simple chatbot using the Azure QnA maker service

### Solution:

Video Recording

### Task 3:

Create a computer vision resource for OCR (Optical character recognition) and perform OCR on the images as mentioned in this Microsoft Docs reference link :

1. Read the text using OCR on all three images as mentioned
2. Detect and analyze faces using the cognitive services.

### Solution:

Video Recording