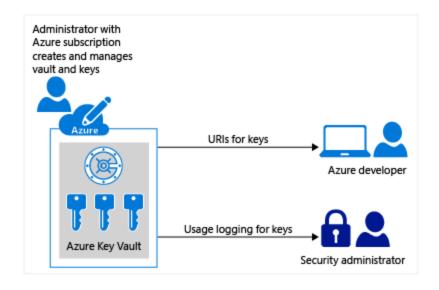


Stories 13: Azure Key Vault Service

Azure Key Vault is a cloud service for securely storing and accessing secrets. A secret is anything that you want to tightly control access to, such as API keys, passwords, certificates, or cryptographic keys. Key Vault service supports two types of containers: vaults and managed hardware security module(HSM) pools.

Hardware Security Module (HSM):

- An HSM is a specialized hardware device designed to securely store and manage cryptographic keys and perform various cryptographic operations.
- Think of it as a highly secure digital safe that protects and manages sensitive information related to encryption.



1. Secrets Management:

- Azure Key Vault enables you to store and retrieve sensitive information such as API keys, connection strings, and passwords securely.
- You can manage these secrets centrally, and they can be versioned, so you can keep track of changes over time.

2. Key Management:

- It provides a secure and scalable way to create, import, and control access to cryptographic keys used by cloud applications and services.
- Supports operations like key generation, encryption, decryption, signing, and verification.

3. Certificate Management:

- You can securely store and manage X.509 certificates and their associated private keys.
- Azure Key Vault can automate the renewal of certificates, reducing the manual effort required to maintain certificates.

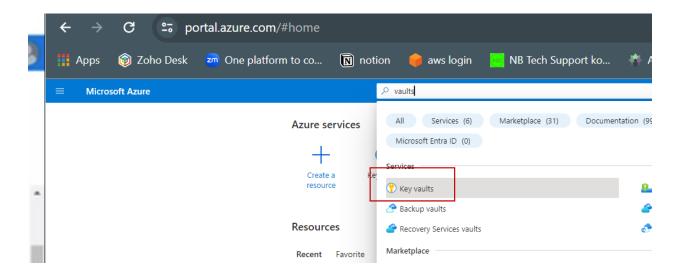
4. Access Control:

- Azure Key Vault integrates with Azure Active Directory (Azure AD) for authentication and authorization.
- Role-Based Access Control (RBAC) is used to control who can perform operations on the key vault and its contents.

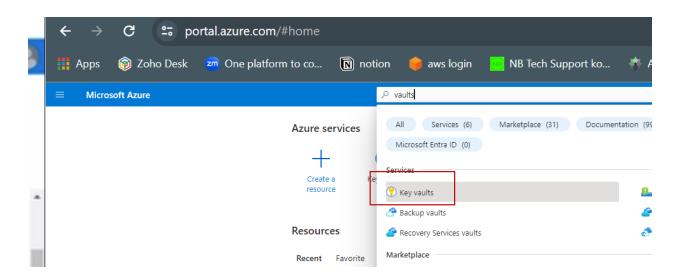
5. Audit Logging:

• Azure Key Vault provides detailed audit logs, allowing you to monitor access and actions performed on the stored secrets, keys, and certificates.

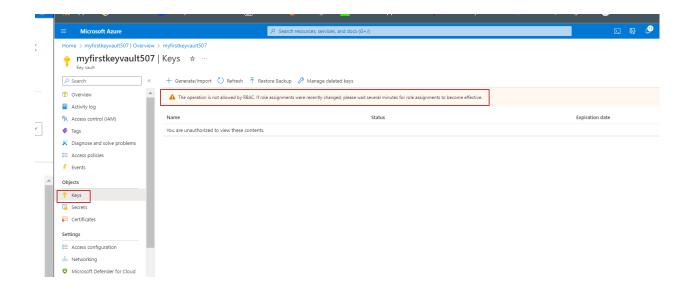
Lab : Create a Key vault service and assign role to it



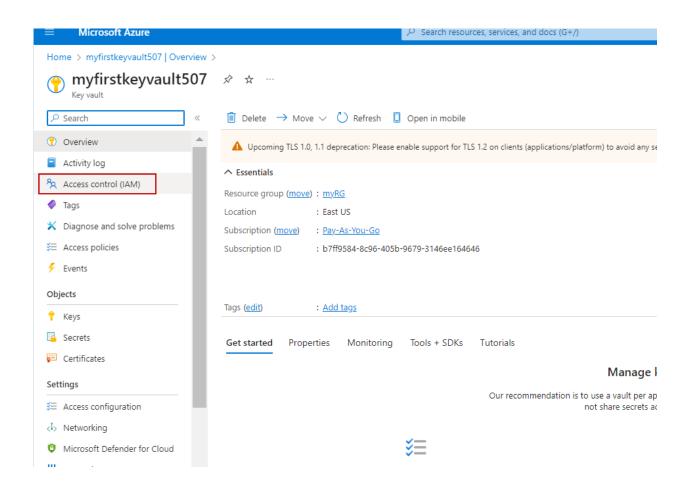
Create a key vault



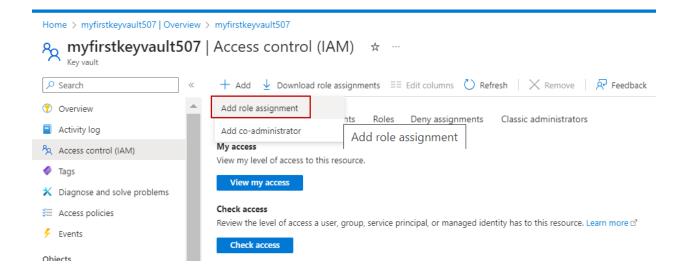
Goto keys

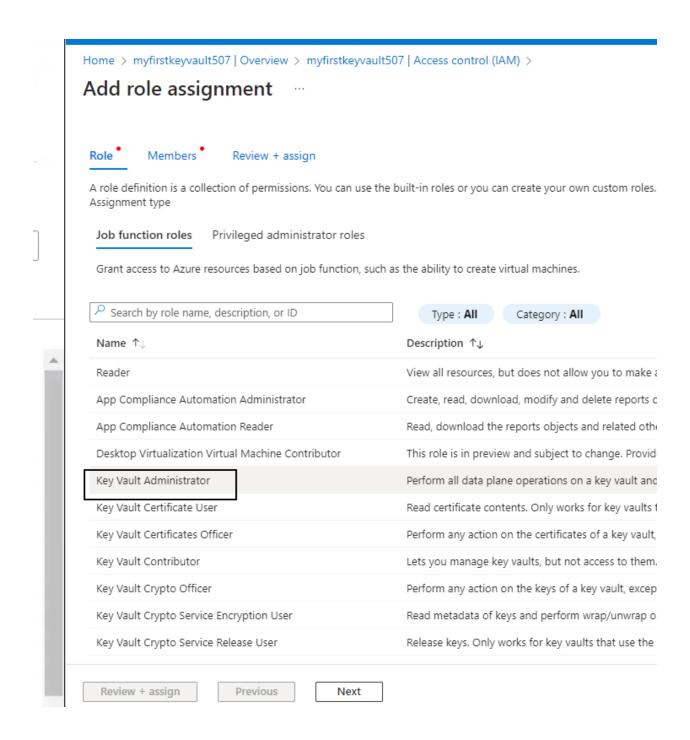


Assign role now from iam roles

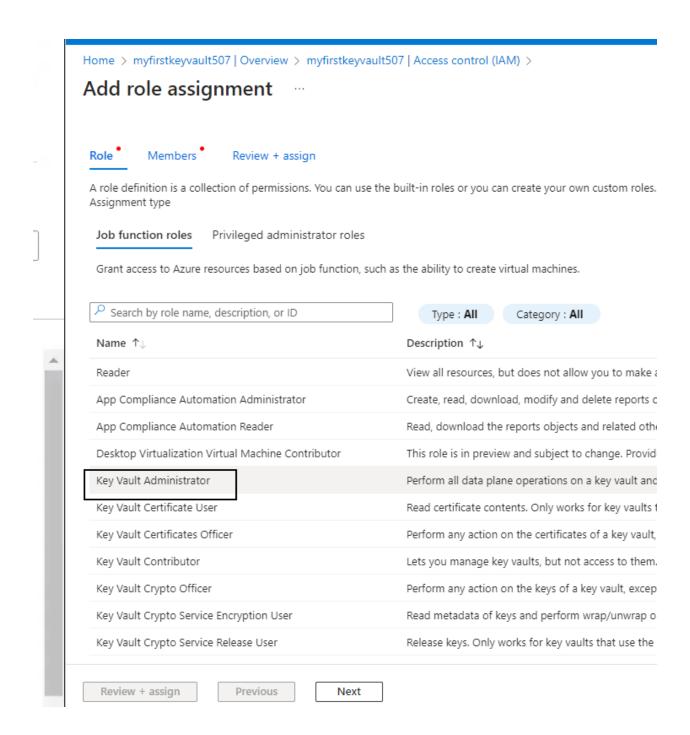


Assign role

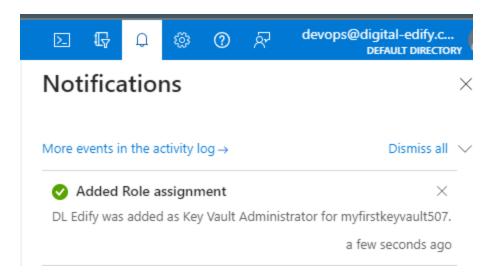




Select role and user

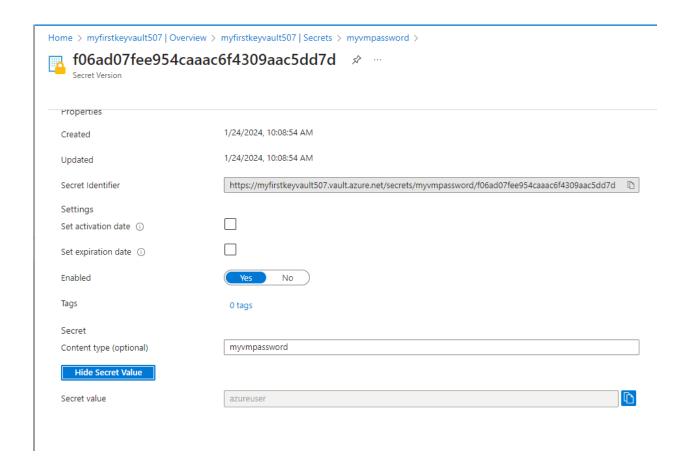


Review and assign



Now view

create a secret and view it



You can give access to other users as well in organization for our vault service.