



Azure Key Vault

Solve problems

Secrets Management

- Securely store and control access to Tokens, Passwords, Certificates, API keys and Other secrets

Key Management

- Create and control the encryption keys used to encrypt your data

Certificate Management

- Provision, manage, and deploy public and private Transport Layer Security/Secure Sockets Layer (TLS/SSL) certificates

Why use Azure Key Vault?

Centralize application secrets

Securely store secrets and keys

Monitor access and use

Simplified administration of application secrets

Basic Concepts and Important Terms

Tenant

- Used to refer to the set of Azure Services

Vault owner

- Can create a key vault and gain full access and control over it.
- Can set up auditing to log who accesses secrets and keys.
- Can control the key lifecycle.
 - Roll to a new version of the key,
 - Back it up

Vault consumer

- Can perform actions on the assets

Resource

- Examples: Virtual machine, Storage Account, Web App, Database, and Virtual Network

Basic Concepts and Important Terms

Resource group

- Holds related resources

Security principal

- A security identity that user-created apps, services, and automation tools use to access specific Azure resources

Azure AD

- Active Directory service
- Can have many subscriptions associated

Managed identities

- To authenticate to Key Vault

Keys vs Secrets

- Key
 - A Cryptographic key represented as JWK (JSON Web Key).
 - Example: store A .pfx certificate file that contains a pair of public & private keys
- Secret
 - Key Vault accepts any value and stores it as a binary.
 - Example: A password or API key

Hands-On: Key Vault

Thanks