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# Need and Importance of Azure Key Vault

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# Modern Application Architectures

- **Increase reliability and security**
  - Deliver consistent quality and performance at any scale using fully managed databases with built-in high availability, point-in-time backup, and single-digit millisecond latency.
- **Reduce costs**
  - Pay only for what you need and offload maintenance by using on-demand tools and serverless compute and databases. Reduce development costs with low-code solutions.
- **Enable remote development**
  - Get up and running on any project in minutes with fully configured, secure, cloud-hosted development environments. Collaborate in real time on code reviews and pair programming with well-governed identity and access.

# Building blocks of modern application development

- Architecture
- AI
- Integration
- Data
- Software delivery
- Operations
- Security

- **Cloud-native architecture**
- **IoT**
- **LOB Apps**
- **Mobile Workforce App**
- **Serverless**
- **Document Processing**

# Azure Key Vault

**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.**

# Why Azure Key Vault?

Centralizing storage of application secrets in Azure Key Vault allows you to control their distribution.

Key Vault greatly reduces the chances that secrets may be accidentally leaked.

When application developers use Key Vault, they no longer need to store security information in their application.

# Why Azure Key Vault?

**Centralize application secrets**

Centralizing storage of application secrets in Azure Key Vault allows you to control their distribution. Key Vault greatly reduces the chances that secrets may be accidentally leaked.

**Securely store secrets and keys**

Access to a key vault requires proper authentication and authorization before a caller (user or application) can get access. Authentication establishes the identity of the caller, while authorization determines the operations that they're allowed to perform.
Authentication is done via Microsoft Entra ID. Authorization may be done via Azure role-based access control (Azure RBAC) or Key Vault access policy.

**Simplified administration of application secrets**

**Integrate with other Azure services**

# Agenda

Subject A
Subject B
Subject C

# Subject A


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# Subject B


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