Advanced data protection
End-to-end security for the family of SQL cloud databases

Azure SQL is the family of SQL cloud databases providing flexible options for app migration, modernization, and development. Always up to date with the latest security patches, Azure SQL is surrounded by layers of protection that guard your SQL data from anomalous database access and query patterns, SQL injection attacks, and other threats.

**Azure Defender for SQL**
- **Advanced Threat Protection** detects anomalous database activities that could pose threats.
- **Vulnerability Assessment** identifies, tracks, and resolves SQL security vulnerabilities.

**Data Encryption**
- **Transparent Data Encryption** encrypts all data at rest. Use **Always Encrypted** to encrypt sensitive data while in use without revealing encryption keys to the service.

**Network security**
- Privately connect to SQL cloud databases from within customers’ Virtual Networks (VNet).

**Azure Active Directory Authentication**
- Simplify the management of identities and stop the proliferation of passwords with single sign-on using Windows authentication.
A defense-in-depth approach to security

Microsoft Azure employs layers of overlapping protection to deliver unmatched security to your cloud and hybrid workloads – all with the broadest portfolio of compliance offerings in the industry.

**Network security**
- IP firewall rules
- Virtual network service endpoints
- Native virtual network support
- Transport layer security

**Access Management**
- Azure Active Directory authentication
- SQL authentication
- Role-based access
- Row-level security

**Threat Protection**
- Vulnerability Assessment
- SQL auditing
- Real-time Advanced Threat Protection

**Data Protection**
- Data Discovery and Classification
- Always Encrypted
- Transparent data encryption
- Bring Your Own Key (BYOK) support
- Dynamic data masking

**Compliance**


“When it comes to recognizing the importance of the security and privacy of data, Microsoft has a reputation way ahead of other large cloud providers”

Marc Elkins
Vice President, Associate General Counsel and Chief Compliance Officer
Cerner Corporation

Learn more at Azure Security Center aka.ms/Azure_Security_Center