

TAKAKRYPT DB Encryption Plugin

Enterprise-Grade data protection made simple

Overview

TAKAKRYPT Database Encryption Plugin protects sensitive data at the **column level** with **no changes to applications or database structure**. It works transparently within the database engine **encrypting data at rest** and decrypting it on access while maintaining **full SQL compatibility** via native connections. Integrated with TAKAKRYPT for centralized key management, it ensures strong data protection, reduces plaintext exposure, and supports regulatory compliance (**PDP Law UU PDP No. 27 of 2022**).

Key Benefits

Queryable Encrypted Database Column

Data remains fully queryable using standard SQL.

Zero Exposure of Plaintext Data in the Database

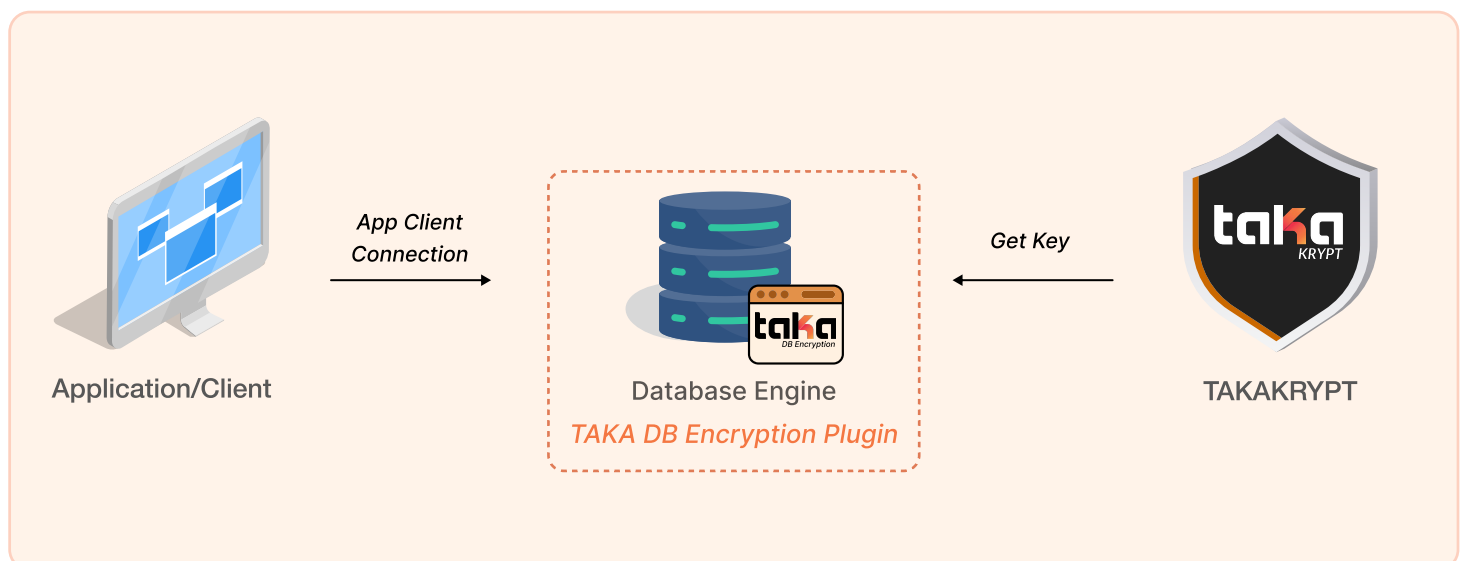
All data is stored in encrypted form at the storage level.

Centralized Key Management

The entire key lifecycle is managed centrally.

Fine-Grained Access Policy

Access control is enforced based on policies and identity.



Technical Specifications	
Database Support	• PostgreSQL (Version 12 up) • MySQL (Version 8.0 up) • SQL Server (Version 2016 up) • Oracle (12c / 19c / 21c)
Key	• AES 128 • AES 256 • RSA 1024 • RSA 2048 • RSA 4096
Tokenization	• FF1 • FF3-1
Masking	• Full • Partial • Random
Hardware Requirements	
CPU	4 cores (minimum)
RAM	16 GB (minimum)