

## Project Name: STM DevOps Connector

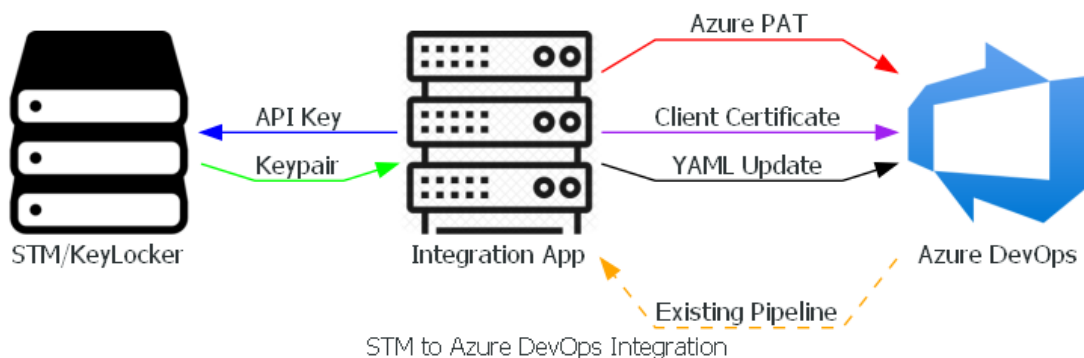
### Overview:

This project bridges **STM/KeyLocker** with **Azure DevOps** to streamline **CI/CD pipeline integration**. It automates the process of securely retrieving key management data, configuring pipeline files, and pushing updates to Azure DevOps.

### Key Features:

- ✓ **Automated YAML Generation** – Collects pipeline configuration and builds the necessary YAML file.
- ✓ **Secure Key Handling** – Retrieves API keys and key pairs from STM/KeyLocker without storing them.
- ✓ **Azure DevOps Integration** – Pushes YAML files and uploads client certificates to **Azure Secure Files**.
- ✓ **Seamless CI/CD Execution** – Enables teams to run pipelines effortlessly after setup.

### How It Works (Architecture)



## How It Works (Step-by-Step Process)

### 1. User Input:

- Enter STM API Key and Azure DevOps API Key.
- Select **Keypair** and **Client Password**.
- Upload **Client Certificate**.

### 2. Environment Setup:

- The app collects all inputs and configures environment variables.

### 3. Pipeline Selection:

- User selects a file and fetches available pipelines.
- Chooses the pipeline to update.

### 4. YAML Generation & Upload:


- The app builds the YAML file automatically.
- Pushes it to Azure DevOps via API.
- Uploads Client Certificate as a secure file.


### 5. Pipeline Execution:


- User can now run the pipeline instantly without manually writing YAML.

**Outcome:** Streamlined CI/CD integration, eliminating manual YAML creation and reducing setup time.

## Value Proposition

 **Simplifies CI/CD Integration** – No manual setup required for connecting STM/KeyLocker to DevOps.

 **Enhances Security** – Secure handling of credentials without storing sensitive data.

 **Saves Time** – Automates repetitive DevOps setup tasks.

 **Developer-Friendly** – Reduces friction in DevOps adoption with easy pipeline execution.