JWT Authentication and Connected App in Salesforce

What is JWT (JSON Web Token)?

A secure, compact, and URL-safe token used to represent claims between two systems.

- It enablies sener-to-server authentication without user interaction
- A GitHub worktlow (like GitHub Actions) generates a JWT using a phe key
- This JWT is sent to Salesforce's token endpoint
- Salesforce validates the JWT using a public key stored in a Connected App
- If the token is valid, Salesforce issues an access token for API calls

What is a Connected App in Salesforce?

A Connected App is how external system, like GitHub, securely authenticate and interact with Salesforce.

- 1. Create a Connected App in Salesforce Setup.
- 2. Enable OAuth Settings:
 - ✓ Check "Use digital signatures" (from the private oky in GitHub)
 - Set a callback URL (optional for JWT flows)
 - Add required OAuth Scopes, e.g.:
 - Full access (fuil)
 - Perform requests on your behalf at any time (refresh_token, offline_access)
- 3. After saving, note the Consumer Key this is used by GitHub when generating the JWT

© Flow Summary



- 1. GitHub signs a JWT using its private key.
- 2. The JWT is sent to Salesforce's OAuth ttoken endpoint.
- 3. Salesforce valldates it against the public key uploaded in he Connected App.
- 4. If valid, Salesforce returns an access token.