Project 3: Angular Static Website + Apache + MariaDB + Build Versioning and Rollback

Goal:

Deploy an Angular static site with Apache, backed optionally by MariaDB for content or seed data.

Each build should be versioned and deployable with rollback support.

Requirements:

- Jenkins master: Amazon Linux

- App servers: Ubuntu

Jenkins pipeline:

- Build, test, versioned tar.gz artifact, deploy

- Allow rollback to previous versions via Jenkins parameter

Ansible roles:

- Install Apache

- Serve Angular app

- Optional: Setup MariaDB and import data (API or read-only connection)

- Deploy artifact to /var/www/html with version subfolder or symlink

Artifact:

- Versioned Angular app build (tar.gz)

- Stored in Jenkins or S3

- Older versions can be deployed from archived artifacts

Expected Output:

- Web page displays: 'I am almost a DevOps Engineer - Angular Edition!'

- Deployed over port 80 and accessible in the browser