MODERN DEVSECOPS CI/CD PIPELINE ARCHITECHTURE:
CONTINOUS DEVSECOPS INTEGRATION + GITOPS CONTINOUS DEPLOYMENT PIPELINE!

SHIFTING SECURITY FAR LEFT APPROACH

CI

CD

DEV IDE

Dev IDE

Dev Build

As done to the origin source code

STATIC TESTING AREA (STAGES WISE):
Passive testing on the core of source code periodically
(all with tools such as Automations, linters, formatters, git and furthermore)
That goes more into testing the code!

DYNAMIC TESTING AREA (STAGES WISE):
Active testing on the up and running application or dynamically to ensure reliability
That goes more into trying to break the infra and the application itself and beyond! that the tools couldn't do !

GitOps:
After getting that up and running application from all the nits and grits, will be deploying the same to deliver the same out in public to access as per the restraints, and Watch the project journey going up and running with monitoring, observability and irl.

STAGES:
SOURCE → BUILD → TEST → STAGE → RELEASE

DEPLOY/ PUSH

DEV — TEST/ UAT — STAGE — PROD

EARLY EXECUTION

COST SAVINGS

SECURITY
AUDITING
DAST
SBOM
SEC
SECURE CODE
PENTEST
IAST
IAM ACCESS CONTROL
SECRETS MGMT
SAST
VULN ASSESSMENT
SECURE SDLC
STATIC CODE ANALYSIS
SOFT COMP ANALYSIS

DEV / OPS

OWASP ZAP
checkmarx
docker
sonatype
argo
kubernetes
Argo Rollout
sonarqube
ESLint
sonarlint
sonarcloud