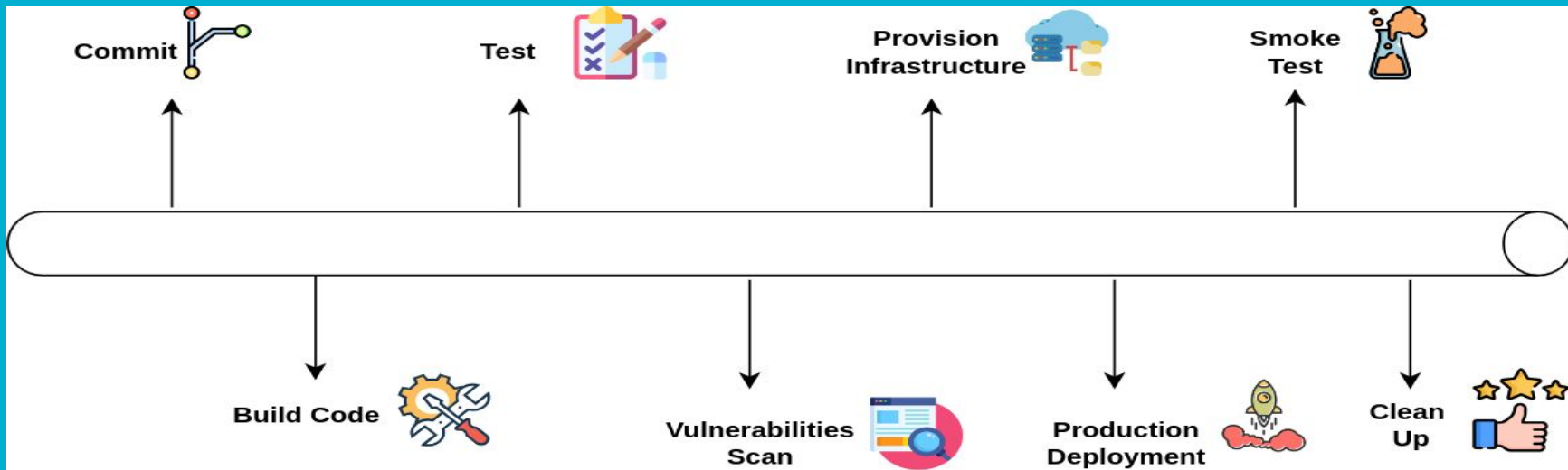# UdaPeople CI/CD

By Amr Alaa Yassen

The Pipeline

Our pipeline consists of the below stages

Let's break it down...

Commit · Test · Provision Infrastructure · Smoke Test

Build Code · Vulnerabilities Scan · Production Deployment · Clean Up
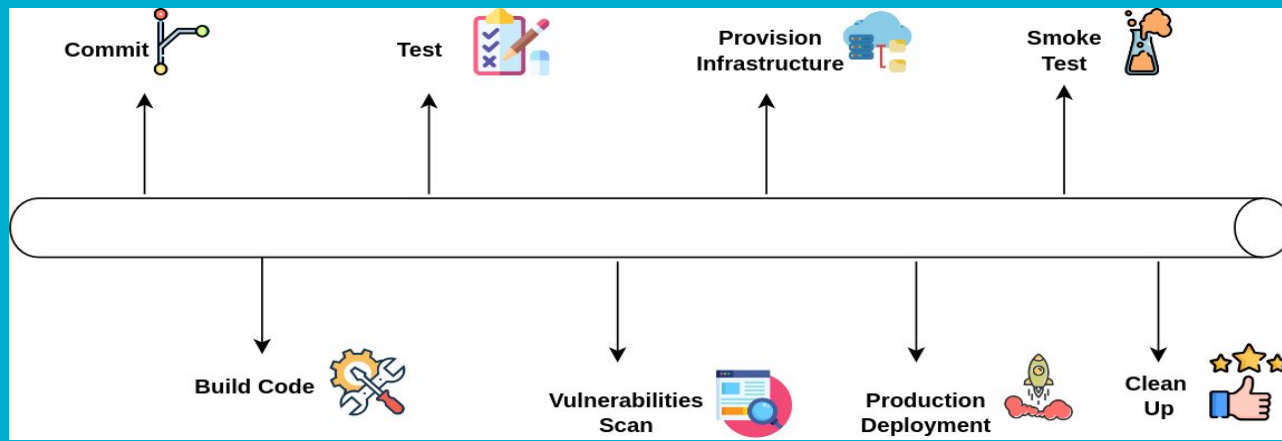
1 | Auto Merge Commits

- **Cost Reduction**
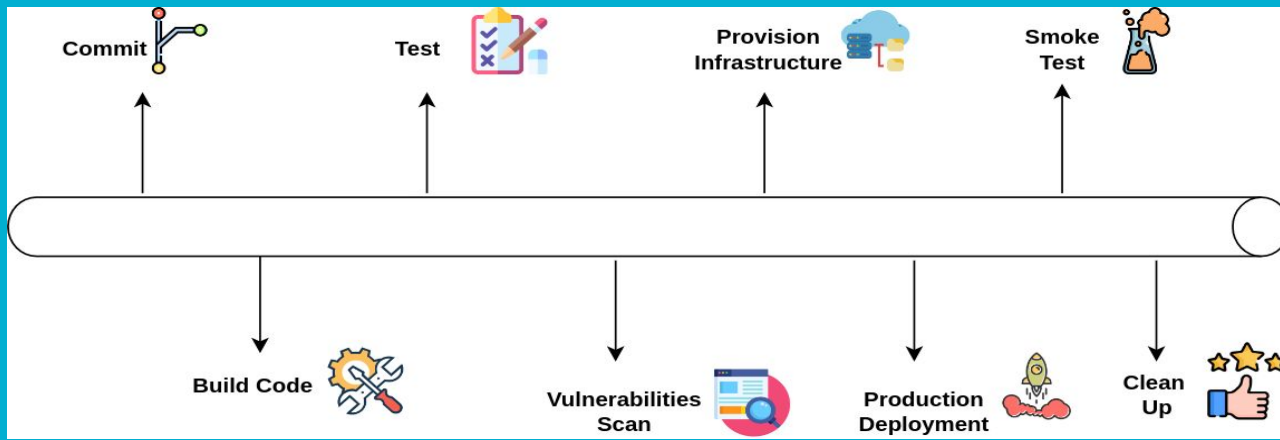- As less time spent on merging issues for new code

2 | Build Code

- **Cost Reduction**
- Less time spent of debugging coding issue for new code

3 | Test

- **Avoid Cost**
- Less Bugs introduced to production
- Less time in test

Commit — **Test** — **Provision Infrastructure** — **Smoke Test**

Build Code — **Vulnerabilities Scan** — **Production Deployment** — **Clean Up**

4 | Vulnerabilities Scanning

- **Avoid Cost**
- Prevent Security Holes

5 | Provision Infrastructure

- **Avoid Cost**
- Less Human Error
- Faster Deployment to production

6 | Production Deployment

- **Increase Revenue**
- Less Time to market
- Users get new desired features faster

Commit | Test | Provision Infrastructure | Smoke Test

Build Code | Vulnerabilities Scan | Production Deployment | Clean Up
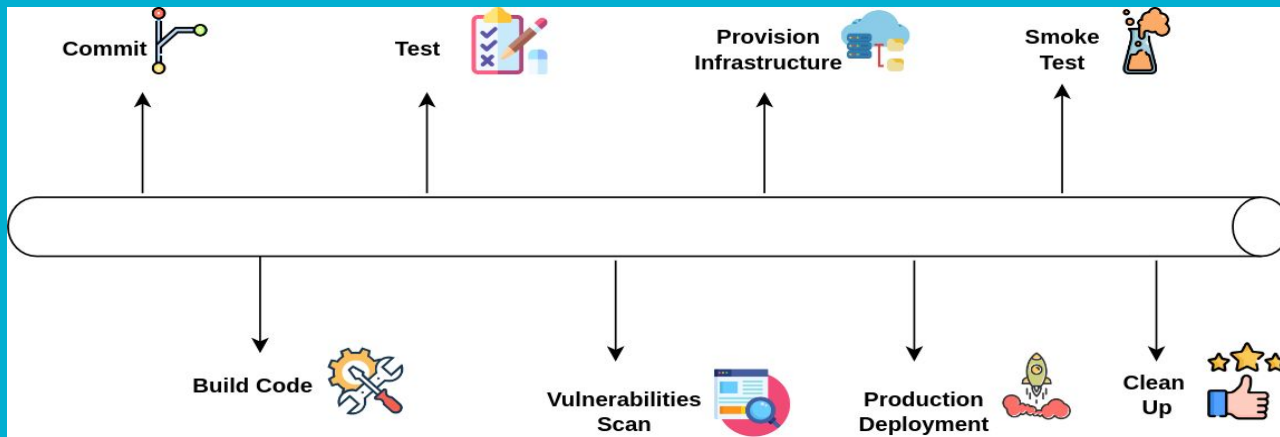
7 | Smoke Tests

- **Protect Revenue**
- Reduced downtime from a deployment crash or major bug

8 | Clean Up

- **Reduced Costs**
- Less infrastructure costs from unused resources

Thank You