

**Nitesh Bhat**

Serious Software Engineer @ **Intrado**



<https://niteshbhat.github.io/>



What is  
DevOps?

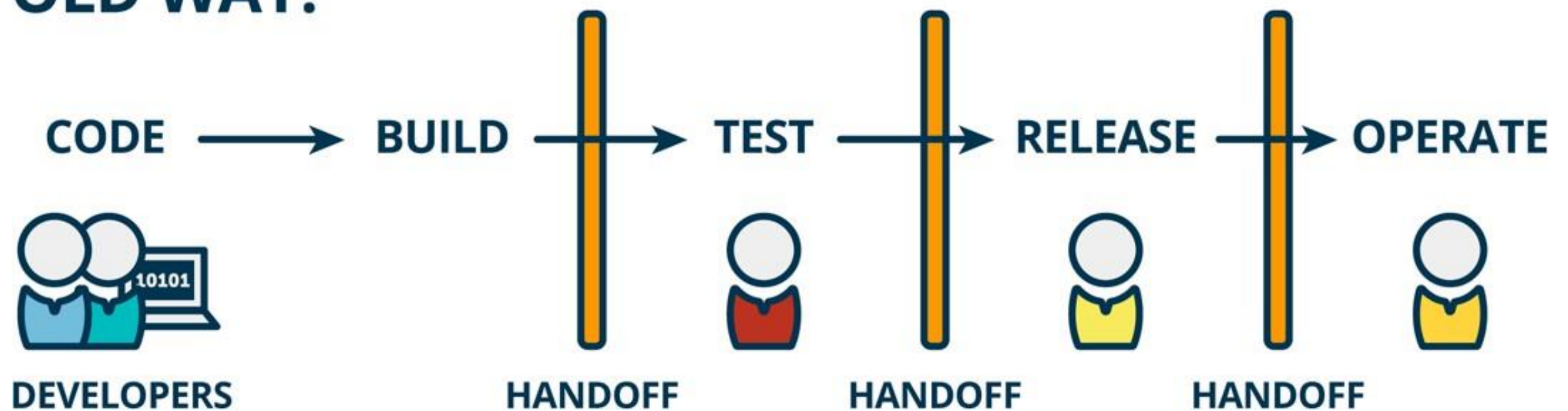




DevOps is a set of practices intended to reduce the time between committing a change to a system and the change being placed into normal production, while ensuring high quality.

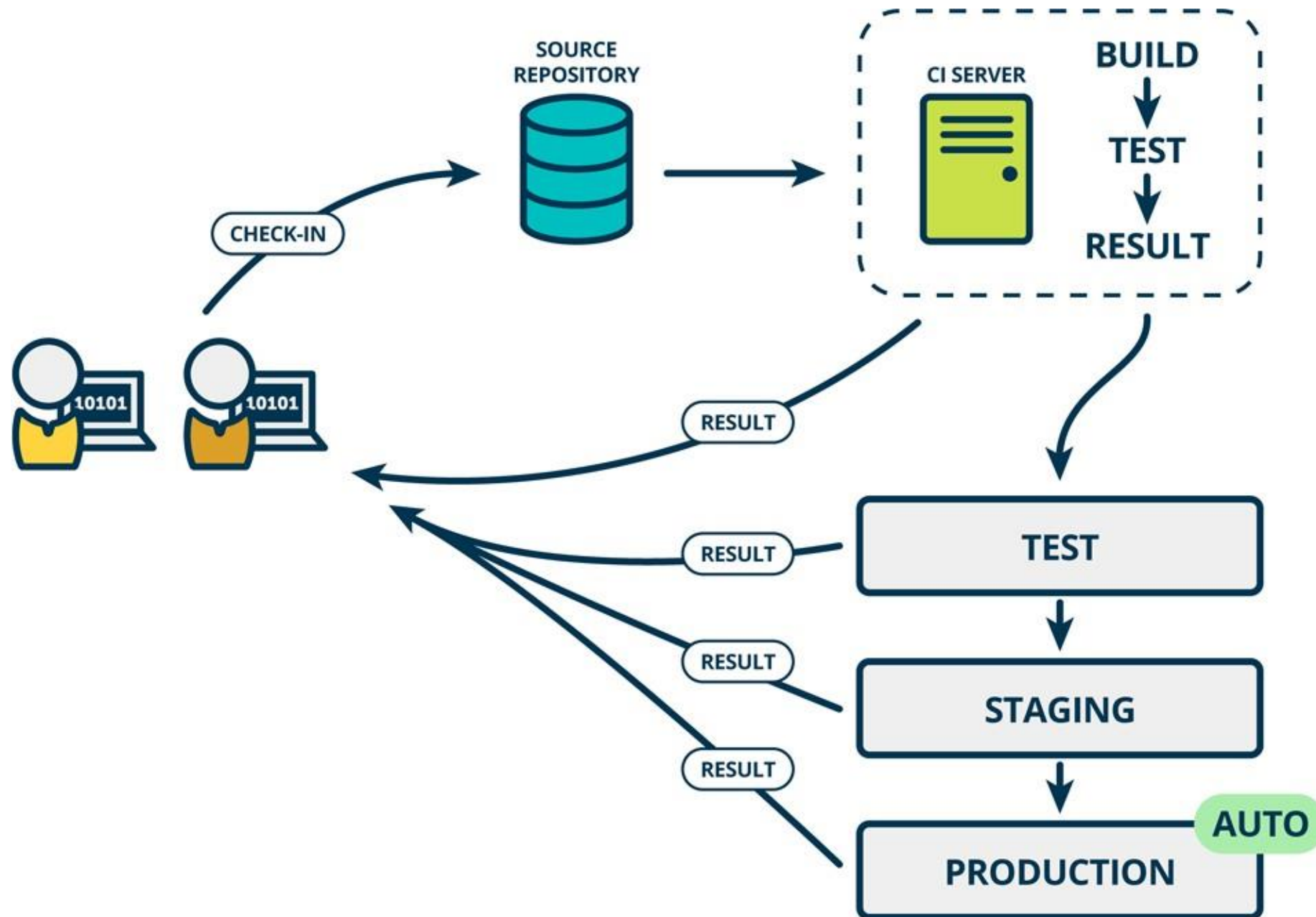
Checkin to release => it takes ages!

## OLD WAY:



*how many weeks, months, or years?!!*

# DevOps: Lightning fast!



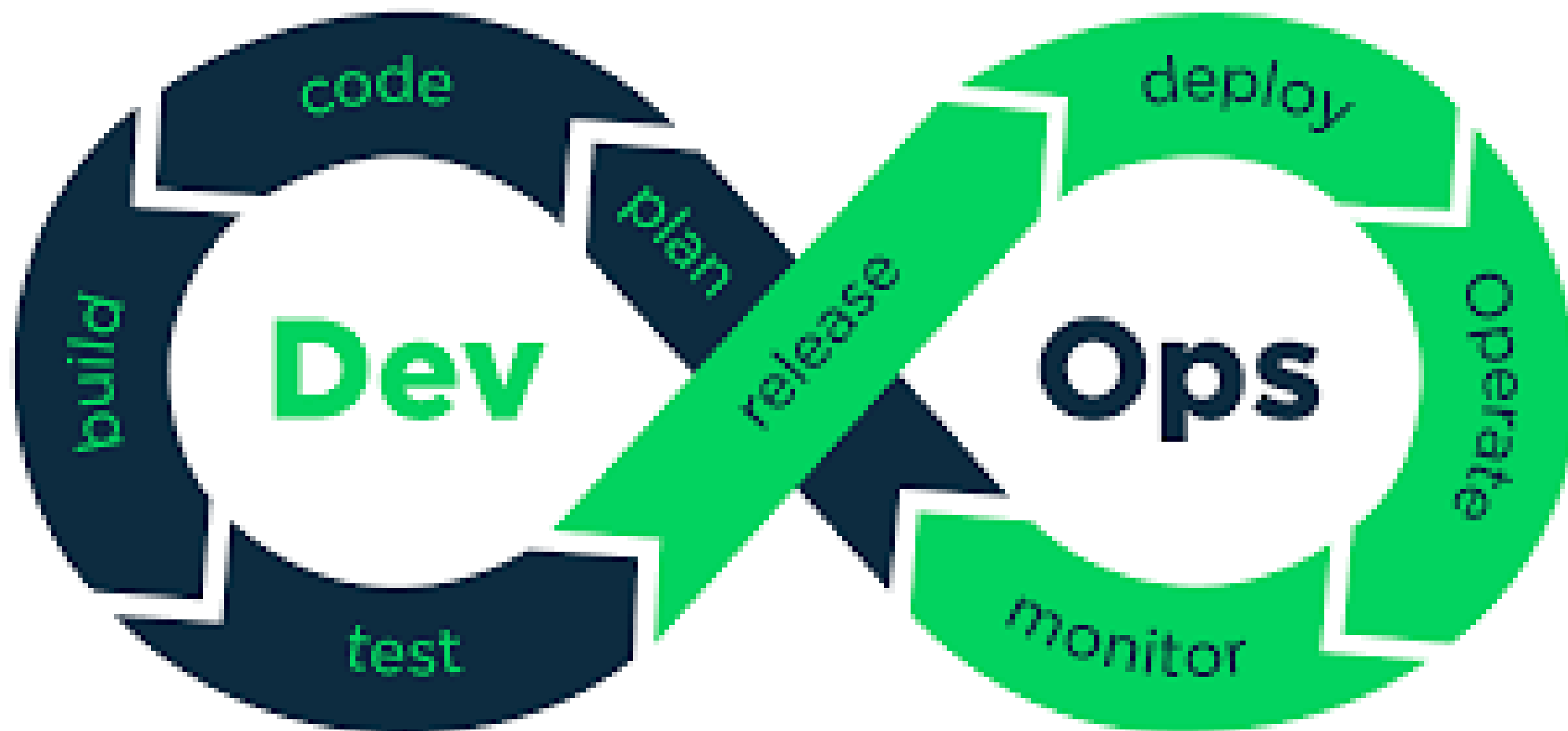




Dev

Ops





# DevOps Roadmap

1) Plan

**Step 1:** Learn a Programming language

2) Code

**Step 2:** Learn Tools that need to depend

Build : Maven, MS Build

SCM : GIT, GitHub, bitbucket, TFS

CI : Jenkins, Teamcity, Bamboo

CD : Octopus Deploy

Containerization : Docker, k8s

4) Deploy

5) Test

**Step 3:** Learn how to run test from → CMD or CI/CD

**Step 4:** learn cloud service platform → AWS, Azure, GCP

Step 5: learn Infrastructure provisioning → Terraform

**Step 5:** learn config management tool → Chef, puppet, Ansible

**Step 6:** learn logging & monitor → New Relic, Nagios

6) Rebase

7) Configure

8) Monitor



# DevOps Tools Ecosystem 2021



## Build

### SCM & VCS



## Test

### Browser



### Load / Performance



## Deploy

### Configuration Management



## Run

### Containers



### Orchestration



### Compute



## Monitor

### Time-Series Metrics



### Big Data



### Cloud Cost



### Application (APM)



### Observability



### Cloud Infrastructure



### Traditional Infrastructure



### Network



### Unstructured Data

### Application Errors



### Log Events



## Manage

### AI/ops



### Service Desk



### Project Management



### CRM Helpdesk



## Notify

### Escalate



### Collaboration



### Software Delivery Platform (CI/CD)



### Continuous Integration



### Continuous Deployment



### Build



### Chaos



### Security



### Repositories



### Code



### Infrastructure Provisioning



### Secrets Management



### Serverless



### Run-Time



### OS



### DB



### CDN





**NOW, ARE THERE  
ANY QUESTIONS?**



# Free Books

<https://github.com/Niteshbhat/Free-DevOps-Books-1>

Thank YOU