DevOps

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Development + Operations

Pinku

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Fabcoder (IT company) ← Ziess App ← Ziess

1. Requirement
2. Feasibility Study / Analysis
3. Design (HLD & LLD)
4. Coding (Developers)
5. Testing (Test Engineers)
6. Deployment/Installation
7. Monitor & Maintenance

3–5 → **DEVELOPMENT**

+

6–7 → **OPERATIONS**

Ziess App

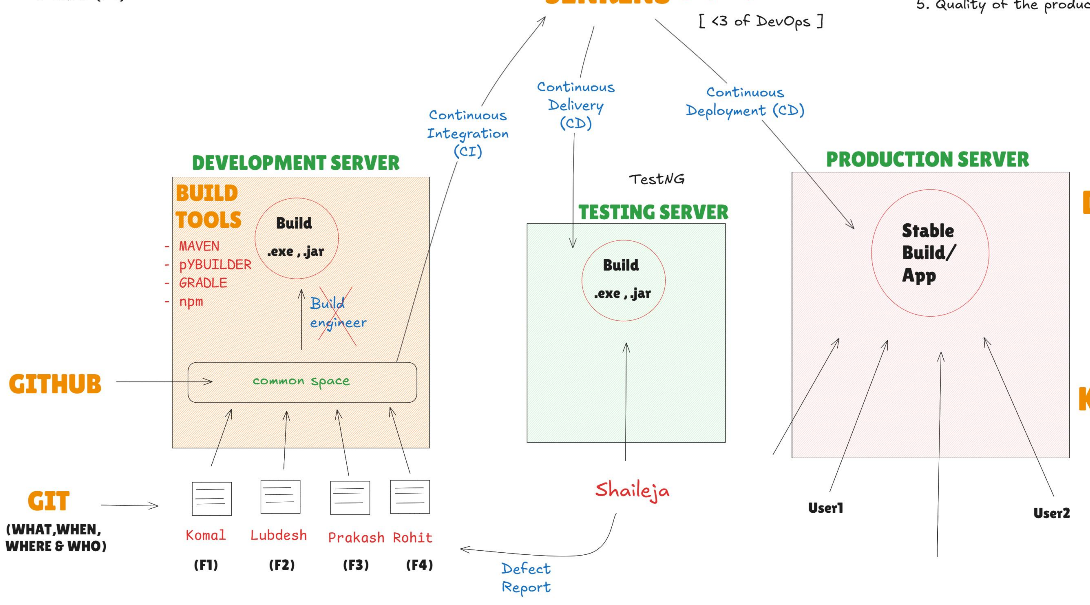
-> login page (F1)
-> dashboard (F2)
-> homepage (F3)
-> cart (F4)

Drawbacks of Traditional Approach of Software developemet & maintenance:

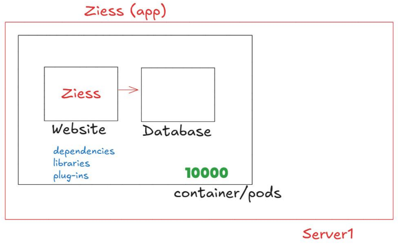
1. Finding error & resolving it quickly was a challenge.
2. Manual & repetitive tasks.
3. Prone to error.
4. No proper collaboration between the teams.
5. Quality of the product was affected.

JENKINS (CI/CD)

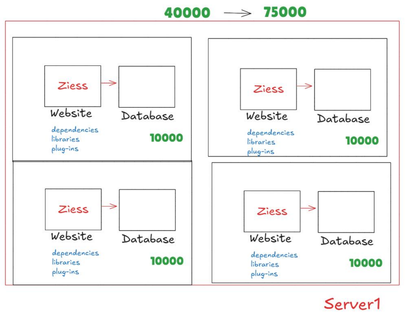
[<3 of DevOps]


Continuous Integration (CI)
Continuous Delivery (CD)
Continuous Deployment (CD)
DEVELOPMENT SERVER
BUILD TOOLS
- MAVEN
- pYBUILDER
- GRADLE
- npm
Build
.exe , .jar
Build engineer
common space
GITHUB
GIT
(WHAT,WHEN, WHERE & WHO)
Komal
Lubdesh
Prakash
Rohit
(F1)
(F2)
(F3)
(F4)
TestNG
TESTING SERVER
Build
.exe , .jar
Shaileja
Defect Report
PRODUCTION SERVER
Stable Build/ App
User1
User2

DOCKER


Ziess (app)
Ziess
Website
Database
dependencies
libraries
plug-ins
10000
container/pods
Server1

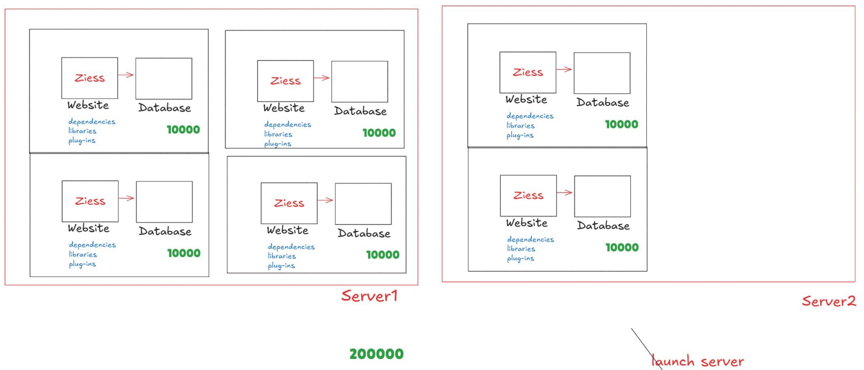
KUBERNETES (orchestration tool)


40000 → 75000
Ziess
Website
Database
dependencies
libraries
plug-ins
10000
Server1

LINUX
SHELL SCRIPTING

>> DevOps is a culture/practice/process of continuously developing, testing & deploying an application.

ANSIBLE (infra for server)


Ziess
Website
Database
dependencies
libraries
plug-ins
10000
Server1
Server2
200000

AWS / AZURE /GCP /IBM → **Cloud Provides**

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provides services & infrastrcuture over the Internet

TERRAFORM

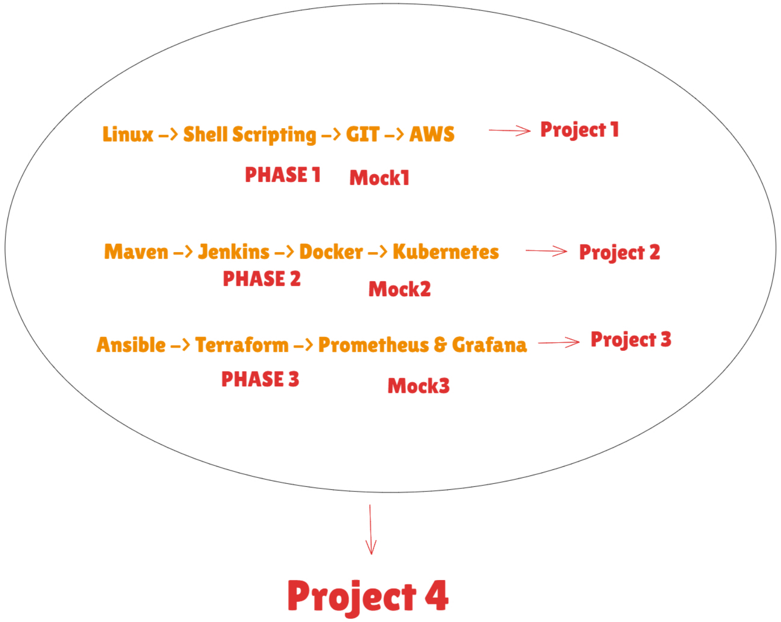
(infra for cloud)
(IaC -> Infrastructure as Code)

PROMETHEUS

90.00 → **create a new server (alert)**

GRAFANA

~~launch server~~
~~configuration~~
~~(RAM, Storage , Cpus,)~~
~~Network~~
~~Configuration files~~
~~Additional settings~~
~~Ip settings~~
~~Port settings~~
~~Connect Server~~



Linux –> Shell Scripting –> GIT –> AWS → Project 1

PHASE 1 Mock1

Maven –> Jenkins –> Docker –> Kubernetes → Project 2

PHASE 2 Mock2

Ansible –> Terraform –> Prometheus & Grafana → Project 3

PHASE 3 Mock3

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Project 4

QTALK (PHONES)

ORACLE VIRTUALBOX
UBUNTU 24.04

Virtualization –> Virtual Machine

For any queries, please contact us at 6366765697 / 7349239678 (Counsellor)

Tech team number : 9972068008
Qtalk team number: 7338471266
Unblock team number: 8951939012