against the code base & the various deployment environments.

At is a software tasking methodology autoich focusses on achieving continous quality & improvement.

Es: Appium, Bambob

4. Continous Integration:

Continous Antigration refers to the build & unit testing stayes of the software release process. Every revision that is committed triggers an automated build & test.

Es: donkuris, Frans CI

S. On

5. Infrastructure Management:

allthout automation, building 8 maintaining large-scale modern 17 systems can be a suspurce intensive undertaking 8 can lead to increased rink due to manual autom error, configuration 8 rusource management is an automated method for maintaining computer systems 8 software in a known, consistent attack

6. Configuration Management:

Intrastructure as Code is the practice of describing all software runtime environment & notworking seltings & parametres in simple tentual formal, that can be stored in your eversion Control bystum (VC6) & energianed on request. These tent file are called manufacts & are used by Der Ops tools to automatically provision & configure build servers, testing, graquing & production and ronments.

is: they, saltstack

Devops Engineer Role:

A Quops onquier manages a company 10 27 infrastructure, bridging development & operations. The primary goal is to automate processes & improve efficiency throught the software development cyfryde

lay Roles:

1. Facilitator of collaboration:

Bridging the gap between development, operations & DA teams to otreamine communication.

2. Automation operialist:

subornat superitive tastes who testing, deployment & monitoring

3. Continous Antigration & continous Pelivery (CIICO):

Ouyon, implement 2 maintain CIICO pipelines to enable gaster, reliable & represtable software releases.

4. Infrastructure as code:

ux bolis who duragorm, maible or cloud formation to define & provision infrastruture through rode.

5. Monitoring & moident Management:

set up monitoring systems to track application performance and trouble -oot viving in real time. It also ensures that systems are resilien 8 dountine is minimized

6. Voud & Infrastructure Management:

Copley, manage & optimize applications on doud platform like AWS Awre or avogle doud. It also nandles container orchestration

Key Responsibilities:

1. Collaboration & Planning:

work with development & operations teams to plan & design scale solutions. Book



2. Configuration Management: uses tooks who supper, they or Ansible to manage surver configuration & ensure consistency. 3. Pipeure Management: Maintain (1100 pipelines to ensure searcless build, test & deployment workfrows. 4. Mondoning & loggerig: Implement monitoring tools like Promethew, wagana or splunk to track system nearth & measurement pot performance s. dupport & Froublishooting: Respond to unividents & resolve production yours promptly & identify 1001 causes of failure & implement jines. 6. Downentation & Reporting: Downerd system configurations, deployment processes & traubleshooting swides, the leading later describers, smaller or elevent townston to deplace the