



#SEPM Assignment NO:-2 Muotafa Sarangpuwala T-21 /88 AILDS

g. What is Wer Ops?

-> therops is a collaborative approach where teams work together to build and deliver secure software efficiently. It combines software development (der) & operations (ops) to decide new to accelerate delivery through automation, Collaboration, fast feedback, and improvement. Built on agile methodology, devops creates a culture of accountability, collaboration and shared responsibilities.

Core principles: · Develop and test in production like

· Deploy o builds frequently.
· Continuously validate operational quality.

Wevops Practices:

Integration Operate 2 - munt Continuous develop ment Continuous Continuous
Continuous Honito Honito
Inlegrations - ring > Build Continuous > Test



Continuous Development 1-This is the place that involves planning 4 coding, versioning a manging build of the software applo En:- git, github, maven, etc.

Continuous Testing!Continuous testing is eneculing automated tests, continuously
and superatedly against the code base and the
various deployment env. It is a software testing
methodology which focuses on achieving continuous
quality in improvement.

En:- Bamboo, appium.

Continuous Integrations refers to the build & unit testing Stages of the software releases process. Every revision that is committed triggers are automated build & test.

En 1- Jenkins, Travis CI, otc.

Continuous Welivey & Deployment:

It originalis from continuous integrations, a method to develop, build, and test new code scapidly with automation 80 that only code that is known to be good becomes part of the software.

In frastructure management: Without automation, building & maintaining large scale
modern IT systems can be a suspurce undertaking 4 can
lead to increased suisk due to manual error



configuration & resource management is an accounted method for maintaining computer systems & software in a known current state.

Configuration Management:

Infrastructure as code is the process of describing all software runfrime erw, and networking setting a parameters in simple format; that can be stored in your Version Control System (VCS) & versioned are request, there files are called manifest and are used by devops tools to automatically provision & configure build server, testing & production environment.

Micro service Hichitecture:

Docker is a tool designed to make it easin to create, deploy, a sum capplications by using container. Container allows a developer to package up an application with all of the parts it needs, which is libraries a other dependencies and deploy it one package by doing 80, thanks to the container the developers can nest assured that the application will sum on any other linuse machine a regidless of any customised settery.

Cloud Based Wev Ops:Wevops automation is becoming Cloud centric.
Most public & private Cloud computing provider
support diviops. Systematically on this Platform,
including continuous integration & deployment tools.



Develps Engineering Role:

A clevops engineer

manages a company's IT infrastructure, bridging

deployment and operation key responsibilities include 1-Technical Reposisibilités: · Implement development, testing & automation tools · Set up infrastructure 4 tests. · Code review 4 aesponsibilités. · Bug fining & mo trouble shooting. · Build & maintain CI/CO Pylline Management Responsibilities :-· Understand customer oreginnents & KPI's · Manage Stukeholders. · Défine development à operational process. · Coordinate team communication · Montor customer enperience · Mentor team members.