

Test

Monitor

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SEPM - 2

APM & To understand DevOpe & Pranciples, practice and Devops lengtheer Role and Responsibility What 9s Devope? He ANDROW WORLD Devops is a collaborative approach where team work together to build and dellier secure software efficiently . It combrue software development (der) and operations lops) to decide how to accelerate delivery through automations, collaborations, fast feedback and Pterative Improvement. Built on Agile methodology, Devops creates a culture of accountability, wilaboration and shared responsibilities for book business outcomes. Core Principles 1. Develop and test in production like environments 2. Deploy builds frequently 3. Continuously validate operational quality. Devops Practices: Continuous Development Continuous Deployment Integration Continuous Bulld Testing whinvous Continuous Montering



Continuous Development?

This is the phase that involves planning and coding, versioning and managing build at the software applications functionally exs-git, github, manen, etc

Inthrusus Teeting:

It executes automated teet continuously and repeatedly against the code base and the various deployment environments. It is a software teeting methodology which focuses on achieving continuous quality & improvement.

Lex: Bamboo, appivm

Continuous lutegration:

It refers to the build & unit testing stages of the software releases process. Surery western that is committed triggers an automated build & test.

Lex: Jenkins, Travis Cl., Circle Ci

Intervence delivery and deployment?

It originates from continuous integration, a method to develop build a test new code rapidly with automation so that only code that is known to be good becomes past of a software product.

Infrastructure Management:
Without Automation, building & maintaing large scale
modern 17 eyeteme van be resource Intensines undertaking



and can lead to Increased risk due to manual error.
Configuration and resources management is an automate
method for maintaing computer systems.

laftware runtime environment and networking all and parameters in a simple texnal format, that can be stored in your VCS and versoned on request.

These text files are called manifest and are used by a Devope tools to automatically provision prontigues brillion services, testing and production environment.

Microservice Architecture

Docker 9s a tool designed to make 9t easier to create,

deploy and run applications by using containers. They

allow a deceloper to package up an application with

all of the parts 9t needs. Such as Ulbraries and

other dependencies and deploy 9t as one package by

doing so, the developers can rest assured that the

application will run on any other Unix machine

regardless of any customized settings that machine might

regardless of any customized settings that machine might

have. Exs Spunk, Nagios, etc.

Cloud Based Devops:

Devops automation is becoming cloud centric. Most our public and private cloud computing provides support ing Devops systematically on their platform including continuous development tools.



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ex: Amazon melo services, Amazon lambda, google cloud,
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as is their pended in the bound worth with a
Der ope lengtneer polisie
A devope engêncer manages a company's infrastructure,
fridging development and operation. Key Responsitionis
Technical Responsibilities:
> 9 mplement development, testing & automation tools
set up infrastructure £ toole
vode review & responsimilité a
> Build & maintain u/co pipellnes
security imprementation & monitoring
Management Responsibilities 3
* Understand uistomer requirements & KPIs.
Manage statisholder
Mentor Leam membere
Monitor Justomes experiences 18
Provide periodic progress reports
Define development & operational processes.
Standard Ward Standard Standard
22yourst boxbs Lucio
and interest health preliving to will provide the square
este maj prochagam touds something bon stout
in head once in a fitting of wall and alternation of the expenses