Devops Cwriculum Using with Tools

Devops workflow

Introduction to Jevops

a Devops Architecture workflow

290v90 fo also of Devops

The maing oals of Devops one to improve the maing oals of Devops and quality of the Spead, efficiency, and quality of Software development and delivery. Here as the the primary objectives.

Epglichan Deployment 3609917 OF Quality Deployment Time for changes Improve Callabo mition and communication & Reduce * Enhance Timo Recovery Streamline Praessed. Tmprall Automate and PLAN Den OPERATE

Devops Architecture

Key Component of Devops Architecture

* Vorsion Control system (vcs):

purpose: Managos code vontion, tracks changes, and facilitates collaboration among developes

à Continuous Integration (ci)

purpose: Automates the process of integrating cools changed from multiple contributors into a single sofware project.

& continuous polivery / continuous Deployment (CD):
propose: Automates the deployment of code

chargers to various environments ensuring that

software can be relesed relibly at any time

A configuration Management:

Purpose: Management and maintains consistency
in software environments development, to

ad coole (Hac) Infrastructure rposo: Managod and provisions computing infrastructure through machine readable Hat Physical hopping definition files on intaattive cartiguation tools Continuous Monitoring and Logging purpose: Monitors applications and infrastructure to defect performance issued, errors and security threats. communication 700/9 collaboration and commination and collaboration prospose: Facilifates ermong tear members enmbling faston deasion making and ussure her alution

code: Develops white and commit code to a version control system (eg, cit)

Brild: The cl server out o motically builds the code into executable files creating exitates that the deployed.

PH

Test: Automated tests are run to ensure the quality of the code. This includes unit tooks, integration tests and so netly.

Releage! fall test 3 pass the coole is
packaged and prepared for deplayment.

operate: The deployed applications are monitored for performance, reliability, and security sooks security continued monitority tooks collect medicus applications so havious.

Devops vs. Fraditional 1T operations Défférence between perops and madition Soft worre development and 17 operation of adopting perops prading Building a Culture of Collaboration and Communication between dovoloned and operations teams The 20/e a adomation and monitorial enhancing 70 cm efficient. Differences between Devops and Fraditional Software decelopment and 17.00 enations * collaboration and communication * Traditional Approach Development and 2 mag - noitorega A in Silos Developera work page

Water fall - Mode:

smothly, avoid bottlenecks help you but dealiness, ensure deliverables are mot before the next phase begins and allow the team overall to shine with perfection that in depth guide anolyes the advantaged of the wateful methodology.

Agile

Agile

Agile

Agile

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Alevelopment is important because

the development teams

Complete projects on time and within budget.

It also helps to improve communication between

the development team and the product owner

Additionally Agile development mothodology