02/01/20

De voeps curviculeum using with took.

overview of bevops technitecture bosight

UNIT-1 - Revops workflow:

Wound studio -s collection of Languages: MS Word Collection et Occument.

introduction to devops:

is befinition and goals of perops.

i) bevops touchducture

iii) Deppe wichitueture mindow.

Defenition and Jeals of Devops.

The main goals et sevops are to improve the speed, efficiency, and qualify of software development and delivery. Here are the primary Objectives.

* uncrease exployment Forequency,

& imposone Deployment ocuality.

* Redue Lead Time for change

Fuhance collaboration and communicat * improve recovery Time.

A utomation and streamline Proces.

le vops. A ouchitecture Diagram.

(CPLan -) Code -> BILED -> TEST) > (Que de la construelle -> DEPOLOYE -> OPENATE -> Construelle maniformentale -> Moniton.) -> Supposet

per - perhelopers (Techleal Teams) OPS - operations, (Endusers).

INO Typo of case;

ex negative case, ex: 4 palaribo @ g mail.

brops whitecture:

Key components of Devops Howhitecture.

& version contorol system (VCS).

=) purpose: manges code version. traous changes, and facilitates collaboration among developors.

* continous indegration (c1):

=) purpose; tuto mates the priores

at integrating code changes been multiple contibutors into a lingle software polosect:

\)

continous pelinery | continous deployment CCD): Derposo: Automates the deployements of code changes to navious environments, ensuring that software can be released reliably at any time.

et configuration res crode crace management:

Purposo: Manages and maintains consistency in sotruare environment (development, itesting, poroduction).

Infrastructure as code Clac):

Purpos: manages and provisions computing inforestureture through machine. Déadable définition files, ralhes then Physical hard was or intractive configuration tools.

containerization and archestration.

Purpose: Pallages applications and their dependencies iinto containers do ensuero contistency across envisionments and simplifies deployment.

continuouse monitoring and Lagging:

Purpose: monitors applications and infrastoructure do detect performance ilsus, errors, and security threats.

Collaboration and communication

purpose: Facititates communication and collectionation among team members, enabling lastes decision - mailing and issue resolution.

DOVORS MUCHICFLOW!

a nersion control system (e.g., 01).

Build: The cl server automatically builds the code into executables like.

Test: Automated delts are sun its ensure—the quality of the code This includes unit dests, integration rest, and sometimes security chease. Releas if all tests pass, the code is provaged and prepared for deployment.

Deploye: The code is automatically deployed.

to the starget christianment cog; staging, Posaduction). Continous deployed ment chrobies deploying to posaduction automatically, whereas continous delivery might require manual approval.

operate: The deployed application are monitored for performance, reliability, and decurity continous monitoring tools colled metrics and logs, providing instight into the application's behavious.

Monitor: Feedback is callected from monitoring and usors, promiding data deri continuous impero nement. Any usues de tected are fed back into the development prossess how resolution.

Dovops vs. Thadilional IT apprailions.

* pellerences between nevops and thaditional scaltwar development and IT operations.

* Building a cutture of collaboration

and communication between development and operations teams.

* The droto of automation and manideering in enhancing docum efficiency.

Differences between beggs and tradition software development and 17 operation:

hallabration and communication:

attraditional approach:

epilations teams work in sides. Developers heads on writing code, and operations teams are responsible for deploying and maintaining the application. This

ohten reads to miscommunication, delays, and a Lack of shared understanding. Devapes approach:

collaboration and communication between devalopment and operations teams, Both teams work together theroughout the software development liketycle, frestering a culture of three responsibility.

Process and work there?

* Theaditional Approach: uses a sequential development process ce.g. materfall model; whore each phase must be completed before the next begins. This can create bettlenears and slow down the process.

Revops Apperanch: Follows an agile and iterative approach where development, testing, and deployment are done continously and concurrently. This helps identify and fix itsues excited earliest in the development paraces.

a

mater fall model...

smoothy, avoid ballonachs, help you hid doadlines, ensure delines one met before the hereal phrase bogins, and mallow the iterem out all to shine will, the advantages of paths mails dall methodology.

Requesment gathering

Agile development is important because it helps to ensure that development deams comptele poseriors on time and within budget, it all helps to improve communication between the development deam and the product owner. Idditionally, if its development methodology can help reduce the

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