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To indenstrand Devops: Principles, Practices & Devops Engineer Role a Responsibilities

That is Dev Opsil.

It is a Collabora bre approach where deans work bugether to build a deliver because software efficiently. It combines Software development (der) a approaches (ops) to accelerate delivery through automation, whatever technology. Devops improvement. Built on Agile methodology. Devops creats a culture of accountability, collaboration A shared responsibility for business outcomes

Cere Principles cof DerOps:

- Develop a test in production - like environment

- Develop boilds bre quantly

- Continuedly validate operational quality

Continues Deployment:

Continues delivery a deployment originate from

continues integrestion, a medhed to rapidly develop

build a test new code with automation to that

only code that is known to be good

becomes part of a software product



2. Continous Development: There is the phose that modules planning and nother resumning a nanaging boilds of the eg: hit, gibbob, marier. Continoies Testing! It is executed automoted dusks continously and repeatedly against the cite base of the variaces depluyment environments. It is a contrage texting methodology which to cuses on achtering continously quedity a mprovement 4. Continues integration refers to the build a unit toting Stuges of the software release, process. Every remission that is committed triggers an automated build and test. build and test. eg: Tenkins, Trans, CT. Uphant antomaters building a manting large--Scale meden withen automation it system can be head to meneral visk due to manual error Centigurations of resource management.

To an automoted medhed for mantining considered competer seglens boother in a known considered outleads



En Aguration Management To hashrecture as code is the practice of describing all software runtime environment of networking settings & parameters in umple textual tornet, that can be stored in your version contral systems [UCS] a versioned on regress. These test his are called nanitest 4 are used by Der Ops dools to authoratically provision I can beguns build servers, testing, stugeting & production emmon mends. ey: chet, solt grade

Derops Ergmeer Role. A devops engèneer insurages a company i.e. TT in husburdene bridging development & experability the primary good is to improve the primary throughout the software development literagely

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Key Role: 1. Facilitater of Collaboration:

Brind garey the gap between doublepment, operation

4 2A Jeans to stream the communication.

Consciolité. 21 Automatorn Specialist. Automate Integration repetitive tasks like testing deployment and meniderary.



3. Centineers Integration a centimens Bothery [CI/CD]:
Design imploment and maintent CI/CD pipelices
to enable Faster, reliable A repeatable settivare
releases. Use dols like Trans from Tuside ar Cloud formation to define a provision imbrashucture through use. 5. Mariborry & Traiders Management: Setup mountaining system to heach application perfermance a broable should issue in real time. It also ensures that asystems are resistent & Cloud 4 Infrasmicter Management Deploy, manage a approve application on cland platform like AWS, nouve an brougle cloud, also trandles ankuner archestration. key Responsibilities: Della oboration & planning! work with development & aprentions de ares de plan a design Scalable solution. 2) Combiguration Management:

Uses bocalo like proppet, ched con Anichle to manage

server configuration 4 consume considercay.



3. Pipeline Management:
mainteur CE/CB pipelines to ensure sounders
build that Adeplogment wante floress. 4. Marching & linggling;

implement monitoring toods like for Promether,

constrained car splank to brack system health

to me assirement performance. S. Support a Trouble shorting:

perpend to medant a resolve production issues

promptly a identify took course of failure 4

mplement hires. Documentation & papersong.

Document system can bigurations, deprognant process

a dooable mostly greades