Deupps curriculum using This Tools Overview of Devops Asichitecturo DEVORS OVERFLOW! Design. * Definition goal of Denobe * Devops anchitecture

* workflow. * DEFINITION GOAL OF DEUDPS! The main goals. of Devops one to improve the speed efficiency and quality of software development and delivery Increase Dephoyment frequency Lemprove Deployment auality V Reduce Lead thre for changes renhance collaboration b communication Improve rued or Ame Mutomate and streamler Processes -

Enhance community nunication Improve rocovery fine automate and streamling Processes -Release Deploy Plan code vodo plan polarie Monitor Operate / Test Build KEY COMPONENTS OF DEUOPS ARETHITECTURES ► Version Control System VCS) Manage gode versions, track charges, , facilitates collaboration among olevelopers. ▶ continuous integration (C1). Automator the process of integrating code thanges from multiple contributors into a single software Project. selvery Deployment · Continuous

(00): dutomate the deployment of rode changes to Vocahus environments, enrusing that suffware can be released suchably at any time. CONFLOW RATION MANAGEMENT! Mangel and maintains consistency in software onnronments (developments testing, production) ENFRASTURE AS COOK [100): manages and providors computing though machino-secolable definition files, seath of than physical hardward or interactive configuration 4001 s. CONTAINERIZATION & ORCHESTRATION! packages applications and their dependencies into vontainers the ensure consistency across environments and simpliefies deployment. PONTINOUS MONITOPING & LOGGING! Monitors applications and infrasture to detact performance issues, ours and security threats. COLLABORATION & COMMUNICATION TOOLS

and simplified dept gives PONTINOUS MONITORING & LOGGING! Monitors applications and infrasture to detact performance issues, ours and security threats. COLLABORATION & COMMUNICATION TOOLS Focilitator communication and Collaboration among team mombers enabling faster decision—making and issue resolution. DEVELOP OVERFLOW! code: Developous vietto write and commit code to a version control system. (eg: G1i+) Build! The a server automatically builds the code into executable files, creating outifacts that can be deployed. 'lest! hutomated tosts are run to ensure the quality of the code this includes unit tests, integration tests and sometimes security thanks

Release: If all tests pass, the code is packaged and propared for deployment. Deploy: me code is automatically developed. to the target Environment. eg: staging, production continuous peployment mulled deploying to production automatically, continuous Delivery might suguise Manual approval. Openato: The deployed applications are monitored for performance, security continuous monitoring took collect motolos and logs providing insights into the application's behaviour. Monitori Feedback is collected from monitoring and users providing data how continuous improvement. Any issues detected and feel back into the development process for resolution.

DENOPS VI TRADITIONAL TO OPT PROTOTOS * Diff between Devops and traditional software development and in operations, * Benefits of adopting Douops Practices & Building a culture of collaboration & Communication between development.
I operation teams. + The role of automation and Monitoring in enhancing team ellipiennis efficiency.

DIFFERENCE BETWEEN DEVOPO AND TRADITIONAL

DIFFERENCE BETWEEN DEVOPO AND TRADITIONAL

DIFFERENCE BETWEEN DEVOPO AND TRADITIONAL SOFTWARE DEVELOPHENT AND IT OPERATION collaboration and communication * traditional Approach: Development and it operations than work in Silos. Developers town on writing code and operations to am are susponsible and operations to am are susponsible for deploying and maintaining

waterfall model: The can make us projects flow smoothly, avoid bottlenecks, help hit dood ling, deli- gables are mot to fore next phase begin, allow team with parfection. This in-depth guide analyses the advantages of methodology, = Requisement gothering & Analysis

I system posign Implementation Tertify peploymant main terence Abille: Agete dovelopment is important hops to developmen

and within budget holps the improve communication between the development team and development producer owners. Agily development methodology can help goduce the suits associated with comple. complex Sprint 1 3 Sprint in sprin sprint