R SEPM Assignment - 1 AIM To understand Dewops: Principle, pratices and Devops Engineer, Rolei O what is Devops?

Devops is the Combination of cultoral philosophies practices and tools that increases an organizationis ability to deliver applications and services at high relowing Evolving and improving products at a faster pace then organizations using traditional software development and infoaltructure management processes This speed enables organizations to better save their customers and compete more effectively in the market core principles - Develop and test in production - like environmente - Deploy boilds frequently.
- Continuely volidate operational quality. _ Dordps Practises. Deploy continues continuous > Plan operate Cantinoon Integration Development Slopde Continuous _ Build > Test Testing Continuos Integration.

THADOMAL SHAHANI

Swar Mhatec



Continuous DevelopmentThis is the phase that involves planning and coding reasioning and managing builds of the software application's functionality.

eg- Git, Crithub, Maven etc.

Continuous Testing.

This is the phase that involves planning and a coding us.

Continuous testing is, executing automated tests, continuous and operatedly against the code base and the resions deployment envisonments. It is a suftware testing continuous methodology which focuses on achering Continuous

eg-Bamboo, Jira, appion

Continuous integration refers to the build and unit testing stages of the software rollers of process. Every revision that is committed to grees an automated build and test.

eg. Jenkins, Circleci

Continuous Delivery and deployment originates from Continuous integration, a method to develop build and test new code trapidly with automation so that is known to be good becomes part of a leftuare product





Continuos Deployment is a software deployment strategy that automatically releases code charges to users. It's a part of the continuos integration and continuos delivery (CI/CD) process.

Scale modern to Systems can be a resource - interest or destaking and can be a resource - interest or destaking and can load to increased risk doe to ordertaking and can load to increased risk doe to some or and exposition and resource management is an automated method for maintaining computer and software in a known, consistent state

Configoration Management

Sufficient as Code is the practise of Leavising all software routine envisorment and Detworking all software routine envisorment and Detworking setting and parameters in simple textual for materials and considered for materials and considered the set of the se

Docker is a look designed to make it easier to coeste, deploy and our applications by using containers. Containers allow a developer to package

up an application with all of the parts it needs, such as libraries and other dependencies and deploy it as one packet. By doing 100 thanks to the container the developer can sest assored that the application will son on any other linux orachines regendless of any costomized setting that machines might have that could differ from the machine ose & for writing and testing the code.

Cloud based Devops Devope automation is be coming alord centric, Most public and private cloud computing providers sopport Devops supplementically on their platform including continous integration and Continues development tools.

Devops Englneer Role A Devops enrollneer manages a company's IT Inforstore, boidging development and operations. Key responsibilites include. Techical Responsibilities

- implement development, testing and automation took - Setup Suprustructure and tooks

-code review and validation.

Monagement Responsibilities.

- undorstand Costomer requirement and KPI's

- Plan team structure and activities

- Mooding te team Communication.