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SEPM Assignment 1

Ann: To understand Decaps Poinciple, Practices and Role Responsibilities

Devops is a collaborative approach where teams work together to build and deliver secure software efficiently. It combines software development (dev) and approachion (open) to accelerate delivery through automation, collaboration, fast feedback, and iterative improvement.

Built on Agile methodology, Derop coeates a culture of accountability, collaboration and shared responsibility for bothers outcomes.

Coop Principles:

- Develop and test in possoluction-like envisorments.
- Deploy build to equently
- continuously validate operational quality.

Kay Practice:

continuous perelopment: This is the phase that involve planning and coding versioning and managing boild of the software applications functionality

continuous testing: continuous testing is executing automated testing continuously and represtedly against the code base



and the randow deployment environment. It is a software testing methodology which focuse on achieving continuous quality and improvement

and unit testing stages of the software retent to the suild end unit testing stages of the software reference reference process that is committed toigger an automated build and test

Continuous delivery and deployment originate from continuous integration, a method to develop build and test new code respidly with automation so that only code that is known to be good becomes part of a software product.

Introductions Management:

Mithout automation building and maintaining lange-scaly

modern It systems can be resource-intervive undertaking and can lead to increased risk due to manual

error configuration and observe management is an automate

method for maintaining computer system and software

in a known, consistent state



Microsovice Architatys:

Developer is a tool designed to make it easies to cotate, doploy and own applications by using contained. contained allow a developer to package up lan application with all of the parts it need such a libraries and other dependencies and deploy it as one package. By don's so, thanks to the container, the developer can not assured that the application will own on any other whox machine might have that could differ from the machine used too worting and testing the code.

Derops :- Derops automation is becoming cloud-centric. Most public and provide cloud computing provider support Derops systemically on their platform, including continuous integration and continuous development took.

Devops Engineer Rola:

A porops orgineer manage a company It infrastructure broadging development and operations. key ocuponsibilities included



Technical Responsibilities.

- Implement development testing and autometion tool

 sotup intrastouctive and tools

 code serious and validation
- Bug fixing and topubleshooting
- Bild and maintain CTICO pipoline
- Seconty implomentation and monitoris.

 Management Proposibilities!

- understand customer ocquirement and KPD
- Plan team storetise and activities
- Hanage stakeholder
 - Dotte development and operational processes
- coordingte team communication
- Montor customer expenience
- Poordi portelle poorsen orpost
- restor team members.