SEPM ASSIGNMENT -2

AIM: to understand Durops: principle, practices and Durops engineer roles and posponsibility.

what is Devopos? Derops is a collaborative approach where team works together to build and deliver secure software securely a efficiently. It combines software development and operations to decide how to accelerate delivery through automation, collaboration, fast feedback and iterative improvement. Built on Agile methodology, Derops Creates a culture of accountability, collaboration, fast feedback and shared responsibility.

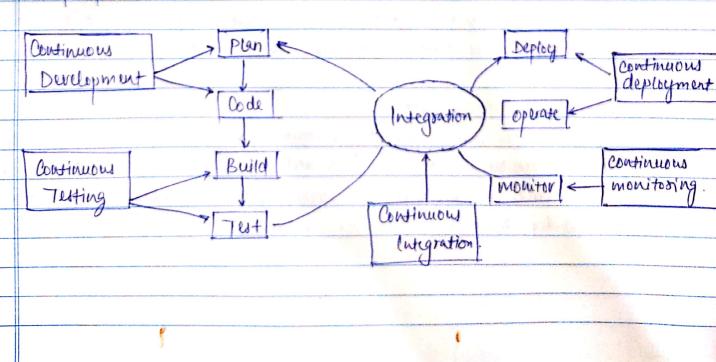
Core-principles:

- Durelop and test in production like environments.

Deploy build bequercy

Continuously validate operational quality.

Durops practices:





Continuous development:

This is the phase that involves planning and coding, versioning and managing build of the doffware approx functionally.

ex: git, github, moven etc.

Continuous festing:

Executing automated tests, continuously and seperatedly against the code bake and various deployment envisonments. Software methodology which involved testing and focuses on acheiving continuous quality & improvement.

ers bamboo, appium

Continuous integration:

Every revision that is committed of siggers an automated build and test ax: Junkine, travis C1, circle.

Continuous Delivery and deployment:

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

Intrastructure management

who automation, building and maintaining large scale modern IT systems can be a resolute intensive task and can lead to increased nick due to manual error, configuration and resource management is an automated method for maintaing computer systems





Configuration management intrastructure as code is the practice of describing all software sunfinice envisorment and networking settings and parameter in simple textual format, that can be stored in your review control pystem. and reviewed or many in the can be stored in your review control pystem. or requested.

Microservia architecture.

U

Docker is a tool designed to make it easier to create, deploy and run apphs by using containers. It allows a developer to package an apph with all of the parts it needs such as binaries a other dependencies & deploy it as one package, by doing so, dors can be sure that the approximation any linux machine organdless of any customized settings. ex: splance etc.

Derops automation is becoming cloud centric. Most public 4 private cloud Computing provides support, Devops systematically on their platforms including continuous integration a continuous development toots.

en: amazon, web service, amazon lambda, google cloud etc.

Derops engineer solu

A derops engineer manages a company's IT intrastructure, bridging development and operation key outpossibilities includes:

Technical Responsibilities:

implement der, testing and automation took.

· Jet up intrastructure and took

· code ruriew and responsibilities.
· Bug finding and trouble shooting.
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· Joensity implementation and monitoring.



	Management Responsibilities:
_	- understand clestomer requirements and ApIs.
_	Plan Leam Structure and activities.
- ·	- Manage Stateholder.
	- Define development and operational processes.
	Monitor customer experience.
_	Provide periodic progress reports.
-	- Mentor team members.
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