



Role & Responsibilities:

What is Dev Ops?

Dovops is a collaborative approach whom teams work together to build & deliver bluve software efficiently if combines software development, bolow) & operations (ops) to accelerate delivery through automation, collaboration, fast feeb back & Herative emprevenent. Built on Agile methodology, Devops ovates a culture of accountability, collaboration & knowd - asponibility for business outcomes.

Core Principles of Der Ops:

· Develop & test 9n production - like en siron ments

· Develop builds frequently

· Continuously validate operational quality.

Key Praction of Dev Ops.

Continuous Deployment

Continuous delivery & deployment originate from continuous Protegration, a method to rapidly develop, build & test new code with automation to that only code that I known to be good becomes part of a software product.

2. Continuous Development.

This is the Phase that involves planning I coding or versioning & managing builds of the software applications functionality
Eg: Git, Grithub, Maren.



3. Continuous Testing is a continuous of repeated against the world base of the various deployment environments.

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4. Continuous Integration:

Continuous Integration suefers to the build & unit testing stages

of the software release process. Avery revision that is

committed triggers on automated build & test.

Eg: Jankins, Iranis (1)

In frastructivo Management.

Without automation, building & maintaining large-scale

modern IT systems can be a resource intensive undertaking & can lead

to incueased fisk due to manual evror. Configuration & resource

management is an automated method for maintaining computer

Systems & software in a known, consistent attack.

Infrastructure as code 9s the gractice of describing all software runtime environment & retworking settings & parameters in simple textual formal, that can be graved in your version control system (VCs) & versioned on veguest. These kest files are called manifests of are used by DevOps tools to automatically provision & configure build servers, testing, staging & production environments.

Eg: Chef, Saltstack.



Devops Engineer Role: A Devops engineer manages a company. It enfuastructions bradging development & operations. The primary goal 95 to automate processes & improve officiency thought the eftware development afecycu. i). Hacelle tator of Collaboration: Bradgerg the gap between development, operations & 2A teams to Areamline communication. 2]. Automation sperialist. Dutomate repetitive tasks like testing, deployment l' monitoring.

3. Continuous Integnation l' Countinous Dels veuy ((1/CD); Desegn, emplement & maintain (1/10) pipelines to enable faster. reliable 2 repeatable Seffware gelases. 4). In frast micture as code: Otre tools 19te Terrajorm, Ansible or cloud formation to defène l' groupes son enpres que ture quough code. 5) Monitoring & In Adent Management. Set up monstoring systems to truck application performance and troubleonoot 955 ues for real gime. It also ensures that systems are resistent & down time is mini nized. J. Cloud & In praotiqueture management: Deploy, manage l'appinise applicables on cloud platform le

Aws, Aprile or yoggle Cloud. It also hardles contains

	Key Responsibilités!
11	Key Lesponsibili ties!  Lollaboration & Planning!  Nork with development & operations teams to plan & design realable
	work with development & of every to
33	solutions.
2)	Configuration Management:- Uses tools like Puppet Chef or A. 459ble to manage server  configuration & ensure consistency.
	configuration le ensure consistency.
<b>3</b> ].	Pépeline Management. Maintain CIICO pipelines to ensure Searole & build, test d
	Maintain CIICD piper
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	2 122 Part
4]	Monstoring I cogging.
	Honstoring l'hogging:  I honstoring tools like promette us, Wha Jana or Spunk  Implement monitoring tools like promette us, Wha Jana or Spunk  to track system healath & measurement performance.
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2	Support & Trobleshooting.  Respond to incidents & resolve production issues promptly &  Respond to incidents & resolve & implement fines.
0.	support & resolve production (sues)
	Respond to incidents & resoure productions.  Polity roci causes of failure & inflement fines.
	Identify has a
47	Documentation l'Reportions, descoyment processes l
9	Optiment System configurations, deflymen process
	Documentation & Reportions.  Ou current system configurations, deployment processes & moubles hooting suides.
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