SEPM Roll no - 22 Batch- T-11 or To Understand Devops: Porinciples, Practices and Devops Engineer sole 3 808 Pars 16919ties. What 18 Devops? 5 Devops & a Guabarative approach where teams work together to byth & deliver Secure Software efficienty. It Combines
Siftware development Cider & operations Cops) to accelerate
delivery through automotion, allaboration, fast feedback & Plerative
Infrovement. Butt on Affred methodology, Devops Creates a Culture
of accountability Collaboration & Shared responsibility for business ourlands. Core Principles of Delops: Develop & test an Production - 1916 environments.

Develop build frequenty.

Continuously Validate Operational quality. Key Practices of Devops:
Continuous Deployment Continuous derivery & deployment originare from Continuous
Priegration, a Method to rapidly develop, build & test
New Code With automation to that only Code that to
Known to be good becomes Plant of a Safritire Product. 2. Continuous Development - This is the Phase that involves Planning



975	& adea Margange and Managing builds of the Safragre
	S Goding, Versioning and Managing builds of the Software applifations functionality. Eg. Girthub, Maven.
	applications our changing . 69. Our, comme).
-11	
3	Continuous Testing: Continuous testing & Executing automated tests,
6080	Gotten vousing & delegated Galast the lock Daje of The
	Various deployment environments. It is a doffware testing
	Methodology which focuses on alhleving Continuous quarty
	8 Pri Provenent. 9- Appium, Bemboo.
	All sames
u.	Conforme Tolomus Datasons Tolomus Vol. 1
	Continuous Integration- Continuous Integration defens to the
	Butld & until testing Stages of the Software release Process- Every revision that is Commerced triggers on
5 9	Trocless- they sevision that is lammitted triggers on
	Outomaked build & test. og - Tenicins, Traves &I.
	A 2 9 600 State Distriction Coast of State
5.	Intrastructure Management - Withour automotion, building & maintaining
	large-Sale modern Without automation IT systems an be a
	Tessource Intensive undertaking & an lead to Priereased
	Msk due to manual Errors. Configuration & relate
	Management & an automoted Method for machraging Computer
	Current of Share to a 1/ O 160 Town rayning Computer
	Systems 8 Solanourie 9n a Known, Grislstem attack.
R	Colo 12
10	Contigue of Management - Intrastructure as lade is the practice
	of certifold (III Software trotten Confronting of not a soft and
	be Stored In Hours Vission Control System aves
2	be Stored In yours 1885 ton Control System acs)
	& Verstoned on regiveer. These test follow man and
	Montfests S. are used by Devops tools to
2	automatically Provision & Configure build Seners testing
	Staging & Production Onversments, eg. Chef Sulfrend
	Stogging & Production environments. eg. Chef, fairstaux.



Q	Devops Englineer Plane:
	A Day Meer Mole:
	Charles Engineer Manages a Company the It Transton-
	couses boyding development & operation the polmary good
	to improve the process and effectioning throughour
	At Devops engineer Manages a Company 9.e It John Stow- Chroses, bordgang development & Operation, the polmany goss is to Improve the Process and effectioning throughout the Solwage development lifecycle.
	The state of the s
	tailitains of Collaboration-
1.	tailitains of Callaboration-
at turn	1 of the gap between anclopmen oversettions & 24
	Teams (10) bream 19ne Commung Cateon.
2.	
- 657	Automaie reportative tasks tille testing, deploymen 8 Montrosing.
3:	Continuous Integration & Continuous Delivery ('CIICD')-
	Destan Emplement & Magniture CIICO Priperines to mable
	Fasier, rellabie & depearable formono releases.
4	Intradhoveture as Gde-
No.	Use tools 1916 Terration, Ansible or Cloud formation to
)	define 8 Provision Infrastructure Minough Cide.
5	Monthering 9 Incident Management -
	Ser BP Monitoring System to track application performance
	3 600 october use on ocal filme. It also entres
^	their Systems are destisten & downtone as Mananared.
6-	Cloud & Intradmetuse Management-
	Deployment Manage & Oftentre applications on Cloud Plotherns
	live fus Azise or Gaogre Cloud, also hondles Container
	Oxchestration.



	Key 803 Ponsibl 11+ies-
-1.	Colla bostation 8 Planning.
	work with development & operations teams to Plan 8
	design scalable Solutions.
2.	Configuration Management-
	User tools the pupper that or to Manage Server
	Configuration & ensure Consistency.
3.	
	Modningen CTICO Pipelines to ensure Seamless build,
	tear & de Playment Wont flows.
4.	Notification & Todayan -
	Implement Monttowing tools like Prometheus, Cirafana or Spinik to back System hearth & Measurement
	or Spinis to back dysiem hearth & measurement
	Perlimante.
5.	Support & Townole Showtgag-
	Pedifond to Incidents & solve Production 988ves
	Pampary 8 Odenathy 2002 Causes of fature 8
	Emplement Fines.
6.	Dolumentation & definiting-
	Dolument System Goffigurations, deployment Processes
	& bours le shooting guides.