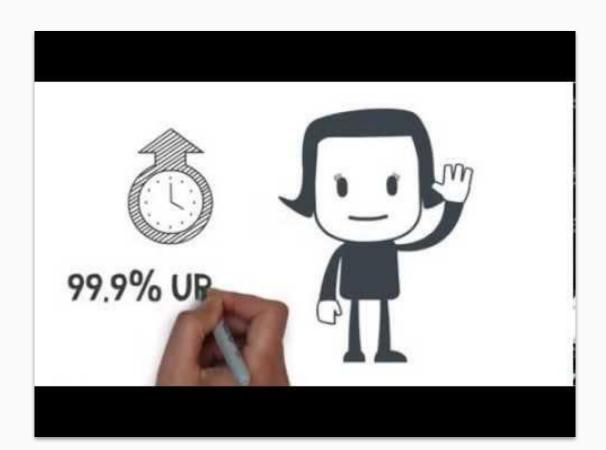
Developer Operations

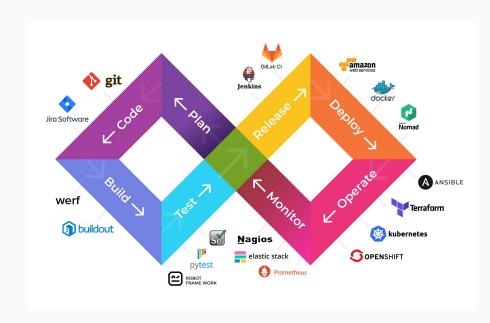
Instructor: Nicholas Mendez

What is DevOps?



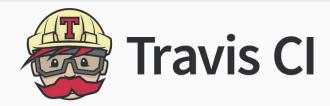
Roles of DevOps

- Monitoring and measuring system performance
- Source Control Management
- Continuous Integration
- Configuration Management
- Issue Tracking
- Automating system processes
 - Configuration
 - Building & Releasing
 - Testing
 - Deployment



Continuous Integration/Deployment

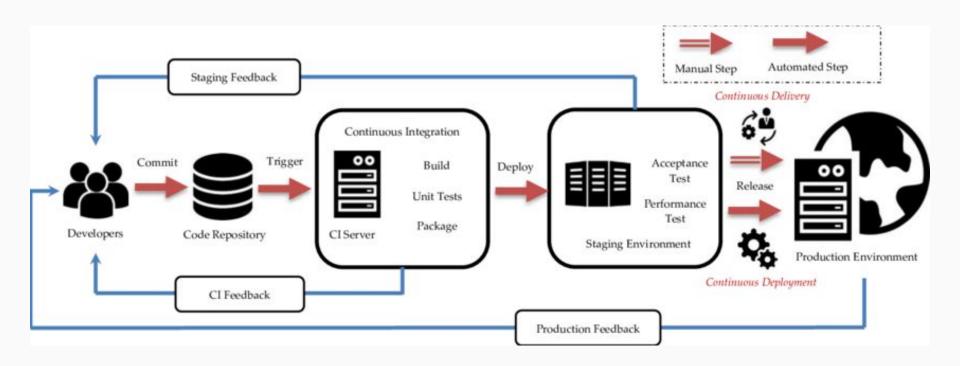
Continuous Integration (CI) is a development practice where developers integrate code into a shared repository frequently, preferably several times a day. Each integration can then be verified by an automated build and automated tests. While automated testing is not strictly part of CI it is typically implied.



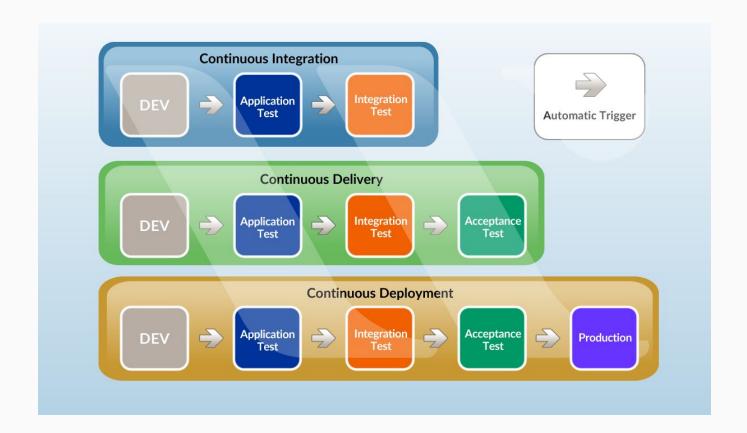




Continuous Integration/Deployment



Continuous Integration/Delivery/Deployment



Software Configuration Management

- "Here's my definition of configuration management: it's the discipline of ensuring that all software and hardware assets which a company owns are known and tracked at all times—any future changes to these assets are known and tracked. You can think of configuration management like an always up-to-date inventory for your technology assets, a single source of truth."
- track and automate the configuration of IT assets and changes
- Deployment config, infrastructure as code













https://www.plutora.com/blog/configuration-management

Source Control Management

- Hosting repositories
- Issues/Pull requests
- Branching and merging
- Cl Integrations
- Self Hosted or 3rd party hosted
- Versioning/ Release Management
- Code Review



Issue Tracking & Change Management

An issue tracking system is a computer software package that manages and maintains lists of issues. Issue tracking systems are generally used in collaborative settings—especially in large or distributed collaborations—but can also be employed by individuals as part of a time management or personal productivity regime.









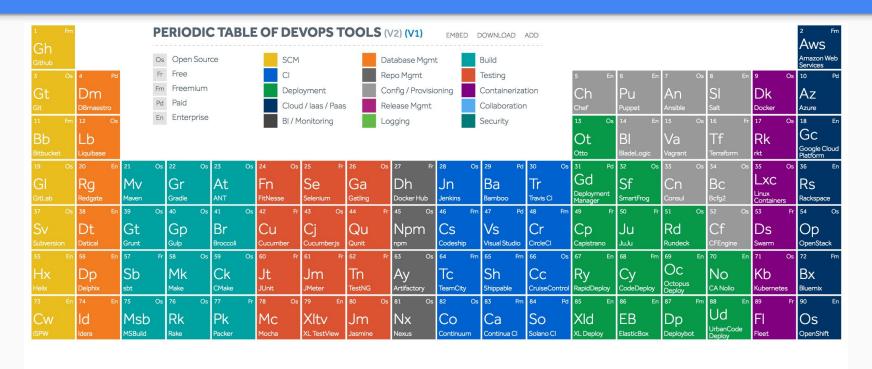
Monitoring

An early warning software system that observes, measures and reports on the performance and overall health of other software.





DevOps Ecosystem





91	En	92	En	93	En	94	En	95	En	96	En	97	En	100	d	99 Fi	m	100 Pd		101 F	m	102 F	m	103 Fr	m	104 Pd	10	05 En
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106	Os	107	Fm	108	Os	109	Os	110	En	111	Os	112	En	113 E	n	114 Fi	m	115 Fm	ı	116 (Os	117 (Os	118 C	Os	119 Os	12	20 En
Ki		Nr		Ni		Zb		Dd		El		Ss		Sp		Le		SI	l	Ls		Gr		Sn		Tr	F	f
Kibana		New Relic		Nagios		Zabbix		Datadog		Elasticsean	ch	StackState	9	Splunk		Logentries		Sumo Logic	l	Logstash		Graylog		Snort		Tripwire	Fo	ortify

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