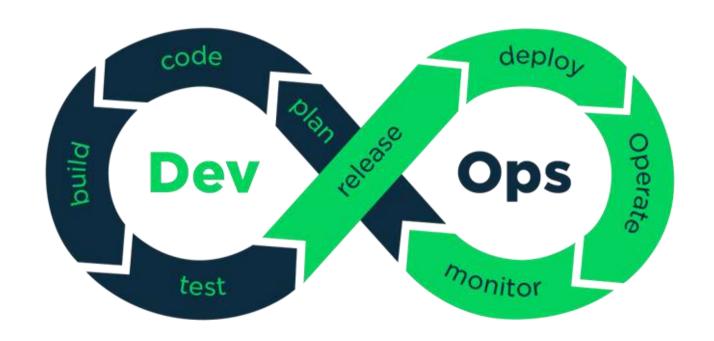




NET2008 DEVOPS

Week 1
Introduction to DevOps

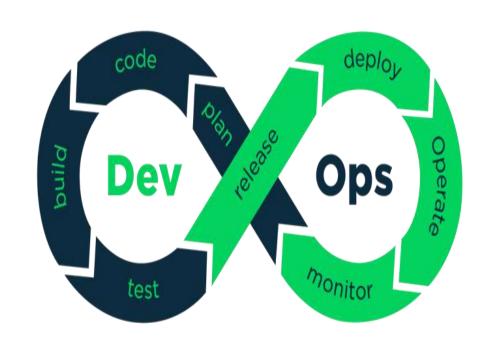
DevOps In Software Development





What is Dev?

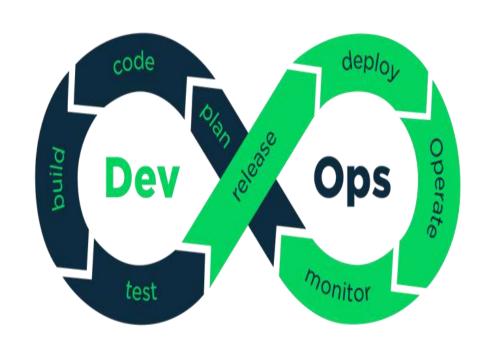
- Software development
- Write code to implement functions
- Fix bugs found in software testing and production
- Job title: Software Development Engineer (SDE)





What is Ops?

- Deploy the software in production environment in a highly available method
- Monitor health of the applications
- Resolve dependency and integration with different components
- Log collection
- Upgrade
- Job title: Site Reliability Engineer (SRE)





What is DevOps?

- DevOps is a set of software development practices that combine:
 - Software development (Dev)
 - Informationtechnology operations (Ops)

to shorten the systems-development life cycle, while delivering features, fixes, and updates **continuously** in close alignment with business objectives.





DevOps

- Source code management
- Source code review
- Configuration management
- Build management
- Repository management
- Release management
- Test automation
- Continuous integration
- Continuous delivery
- Continuous deployment
- Infrastructure as Code
- Application performance monitoring
- Routine automation/continuous improvement
- DevOps frameworks



Benefits of DevOps

- DevOps processes can be implemented as standalone or a combination of other processes
- Automation frameworks will improve business efficiency
- DevOps frameworks will help to build resilience into the application's code
- DevOps processes incorporate SLAs for operational requirements
- In DevOps processes, application-specific monitoring is part of the development process



The industry trend

- DevOps engineers are in high demand as cloud-native environment faces explosive growth
- Software engineers also need DevOps skills to accelerate development
- Networking world needs a lot of automations and DevOps.





Shopify Surges After CTO Touts 'Black Friday Level Traffic'

Py Jenes Wittenstein April 17, 2020, 11-42 AM ET



Jobs

Dev Ops Engineer Audio Products

Avid · Canada (Remote)

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REQUIREMENTS AND QUALIFICATIONS

Essential requirements:

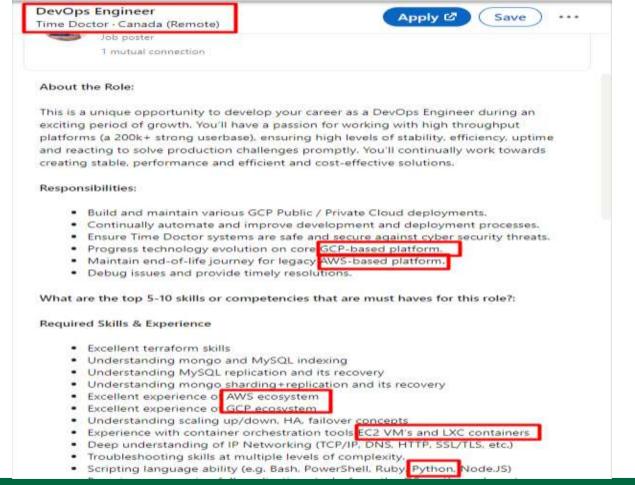
- 2+ years of work experience directly in a DevOps role or similar within a software development organization.
- Previous exposure to the software development lifecycle of applications targeting multiple platforms.
- · Experience configuring and maintaining Windows, macOS and Linux systems.
- Experience designing and maintaining GitLab CI pipelines (YAML is required).
- At a minimum, intermediate proficiency scripting in Python and Bash.
- Previous experience using Git, GitLab and Ansible on your daily work.
- Interest in the latest CI/CD/DevOps processes, ideas, solutions, and industry trends.
- · Ability to multitask, prioritize, and manage time efficiently.
- Ability to communicate clearly in spoken and written English.

In addition, the ideal candidate will have at least some of the following

- Previously had exposure to common DevOps tooling, including some of the following:
- PowerShell
- Perl
- Jenkins
- Azure
- Zabbix
- Prometheus
- Grafana
- Docker
- · Database management systems
- · Can configure network equipment and troubleshoot daily network issues
- Are interested in security technology, issues, and best practices within the context of the software development lifecycle
- · Passion about music, film or media is always a plus!









DevOps Developer

Blindside Networks - Ontario, Canada (Remote)

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...

to operate and scale our infrastructure

- Maintain a full "staging" copy of our infrastructure for testing updates before deployment to production
- Assist developers on delivery and integration of new features into our infrastructure
- . Develop tools for monitoring the health of our infrastructure
- Manage continuous integration (CI) and continuous deployment (CD) infrastructure for the developer team
- Enhance and document processes for CI/CD
- · Create DevOps solutions for on-premise deployment for products

Key Qualifications

- Bachelor's degree or equivalent experience/training in computer science, engineering, software engineering, or related field
- Experience with Amazon Web Services (AWS) and/or Google Cloud Platform (GCP)
- AWS Certified DevOps Engineer certification is highly desirable (or you can demonstrate equivalent)
- Minimum 3 years of previous experience in development and operations, or related IT, computer, or operations field - and the ability to demonstrate some of the DevOps skills you have learned
- A strong working knowledge of Ruby on Rails is required for this role.

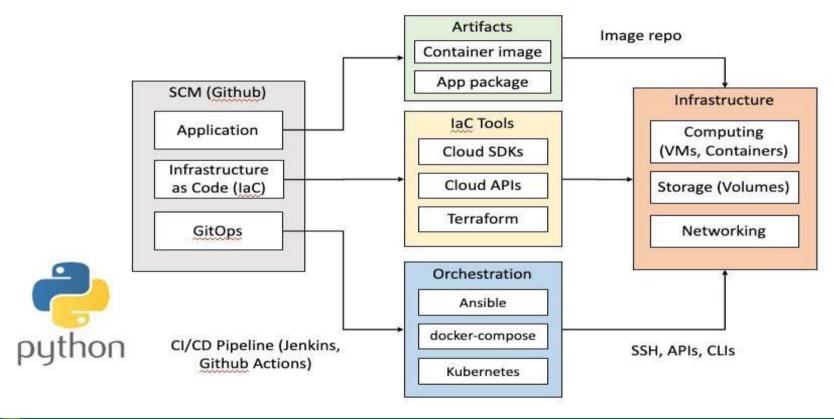
Preferred Qualifications

- Previous experience with software development, infrastructure development, or development and operations
- Experience with Linux infrastructures, database (Postgres), CI/CD tools (Jenkins, Ansible, etc.), scripting such as JavaScript Python, Ruby, Bash
- Deep understanding of docker and Kubernetes and other orchestration tools (Ansible, Terraform, etc.)
- · Excellent interpersonal skills and communication with all levels of management
- Able to multitask, prioritize, and manage time efficiently
- Ability to work independently and as part of a team you will be likely working remotely for the first months
- Fast learner and willing to take on new challenges.





Course Outline





Documentation







Ansible Docs



Kubernetes Docs

