

## DevOps Essentials 1.0:

Dates: [20th-23rd March ,27th-29th March, 3rd-4th April] 7:00 PM-9:00 PM GMT

# Hands On Technical Training

Live sessions and Instructor Led Training, online or on-premise

DAY 1:

Introduction to DevOps:



- **DevOps Culture:** What is Devops: { it is all about bring people together }  
Wikipedia says,

DevOps (a clipped compound of development and operations) is a culture, movement or practice that emphasizes the collaboration and communication of both

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software developers and other information-technology (IT) professionals while automating the process of software delivery and infrastructure change

- Aspects of Devops
  - "Admin" DevOps
  - "Cloud" DevOps [ AWS, Google, Azure ]
  - SRE
  
- Tools to prioritise:
  - Source [Version] Control System (SCM)
  - Infrastructure as Code [ Terraform , Ansible, Puppet, Chef, Salt, Packer]
  - Continuous Integration/Deployment [ Jenkins, Gitlab, CircleCI, Bamboo ]
  - Config/Secret Management [ Consul, etcd, Vault ]
  - Monitoring , Alerting and Logging [ Prometheus , AlertManager Grafana, DataDog, Splunk , New Relic, Nagios ]
  - \*nix System [ Linux - Centos, Debain variants ]
  - 
  - \*\* Container and Container Orchestration [ Docker, Kubernetes ]
  -

Roadmap: <https://github.com/shegoj/DevOps-Student-Roadmap>

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## DAY 1 TASK:

You have just been recruited as a Devops engineer for an organisation. You have been tasked to set-up an infrastructure to demo an app being worked on by the development team. This should be up and running in few minutes from now....

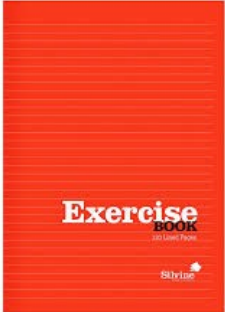
Here is what we know:

- The application is being developed in Java and still a work in progress
- The application requires the following to compile and run
  - maven (mvn)
  - Java 8/11
  - Git
  - Tomcat
- The application codebase is in Github . Location will be provided by the development team
- They want the application hosted/demo'd in the cloud [AWS]
- Application should run on Linux

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- You are the only DevOps engineer they have and its a new department



Can you:

- Setup an account in [Github](#)
- Install [AWS Cli](#) on your local machine
- Install [Terraform](#) on your local machine
- Fork the codebase to your repo
- Go over today's class ....