2018

SCHOOL OF DEVOPS

DEVOPS MINIDEGREE

A comprehensive Devops Certification Program

DEVOPS MINIDEGREE

ops to devops
transformation program

Devops Minidegree by School of Devops is a comprehensive, job oriented, certification based learning path for **IT Operations Professionals to transform themselves into Devops Engineers**. This program is spread over 8 weekend with 16 half day sessions of 4 hours each, Blended with more than 60 hours of self paced content and hours of project work.

Devops Minidegree follows a **Flipped Classroom** methodology whereas you learn the theory at home and utilize the classroom time for putting the technology in practice, build a project, interact with the fellow learners and get interactive guidance from mentors to work through the problems on the spot.

This program gives you a complete package to build core competencies in the field of devops. Anyone who has an existing operations background and who completes all competencies successfully along with the project work, class work as well as home work, stands a chance to be a successful Devops Engineer.

What will you learn ?

iaac

containers

cloud

DEVOPS MINIDEGREE PROGRAM

DEVOPS COMPETENCEIS

SCOOL OF DEVOPS

monitoring

continuous delivery

revision control

skills you will learn

REVISION CONTROL WITH **GIT**

INFRASTRUCTURE AS A CODE **ANSIBLE**

CLOUD COMPUTING WITH **AWS**

CONTINUOUS INTEGRATION WITH **JENKINS**

CONTAINER BASED DELIVERY WITH **DOCKER**

CONTAINER AS A SERVICE WITH **KUBERNETES**

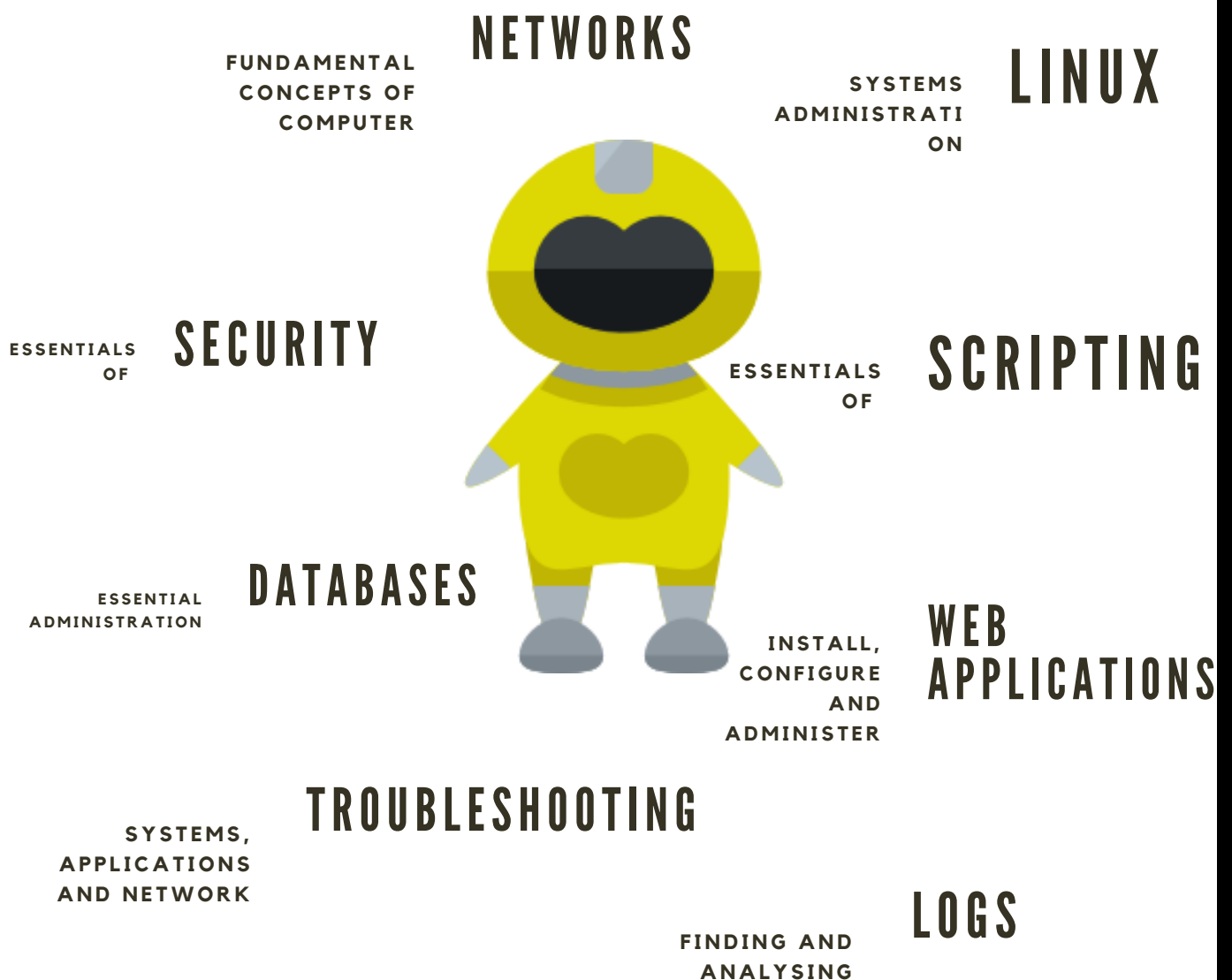MULTI CLOUD AUTOMATION WITH **TERRAFORM**

MONITORING WITH **PROMETHEUS**

LOG MANAGEMENT WITH **ELK STACK**

Who is this for ?

This course is been specifically designed for Operations Professionals with Linux Background who include Systems Adminsitrators/Engineers, Operations Engineers etc. who already posses the following skills.

NETWORKS

FUNDAMENTAL CONCEPTS OF COMPUTER

SYSTEMS ADMINISTRATION

LINUX

ESSENTIALS OF

SECURITY

ESSENTIALS OF

SCRIPTING

ESSENTIAL ADMINISTRATION

DATABASES

INSTALL, CONFIGURE AND ADMINISTER

WEB APPLICATIONS

TROUBLESHOOTING

SYSTEMS, APPLICATIONS AND NETWORK

LOGS

FINDING AND ANALYSING

Foundation Course

If you do not have Systems Administration or Operations background, and still would like to make a career in Devops, you could consider one of the following certification, or at the least have equivalent knowledge on the topics these certifications would test you on.

To prepare with the fundamentals knowledge, we recommend you refer to the book **LPI Linux Certification in a Nutshell**, 2nd Edition by Oreilly.
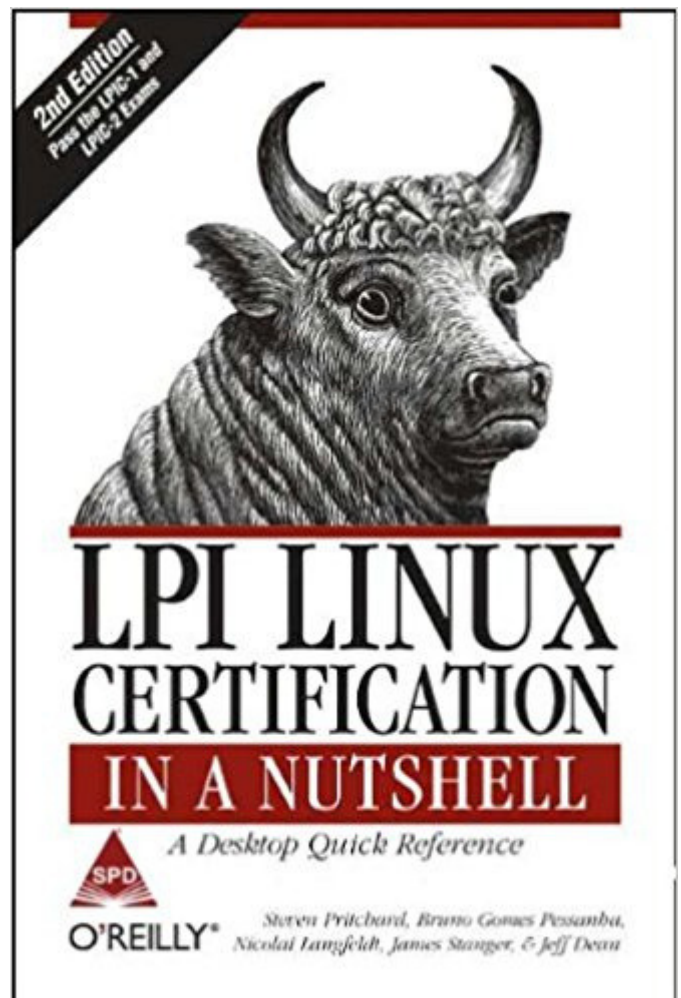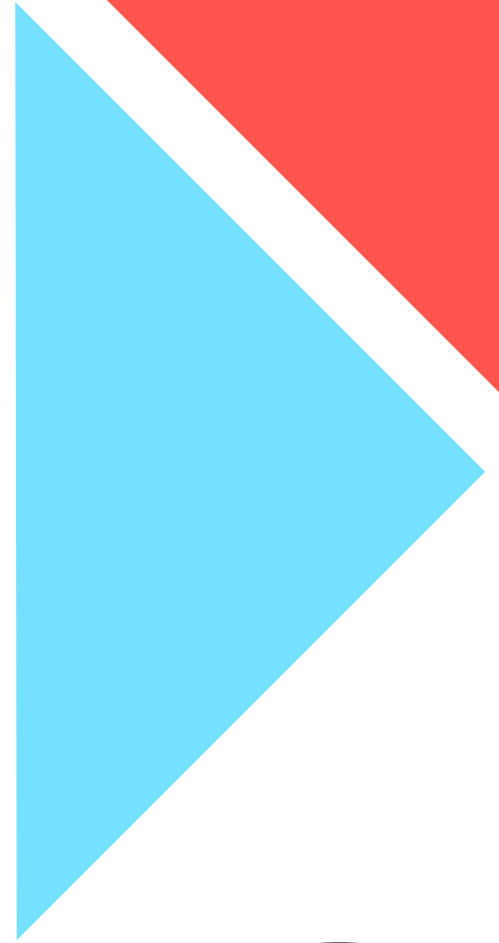
Whats included in Devops Minidegree

62 hours of home work

you watch the lectures, prepare with the theory and complete pre class work at your own pace

64 hours of class work

in class projects where you apply what you have learnt by practicing it

20 nano projects

nano sized projects that you do along with home work to apply what you have learnt

6 mini projects

these are in class projects where you apply devops methodologies to a realistic project

1 capstone project

up-do / curled / straightened hair
full face makeup airbrush foundation

FREE

INR 30,000 +

Self Paced video courses worth more than INR 30,000 are packaged with devops minidegree.

Ultimate Devops Bootcamp

Everything you need to know about Devops

Gourav Shah $199

Certified Kubernetes Administrator

Mastering container orchestration with Kubernetes one step at a time. Prepare for CKA Exam

Gourav Shah $97

AWS Essentials

Quickest way to get started learning AWS
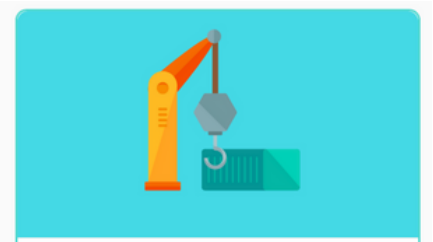
Gourav Shah $97

Ultimate Ansible Bootcamp

Unofficial guide to Certified Specialist in Ansible Automation (EX407)

Gourav Shah $97

Zero to Docker

Learn to build, deploy and deliver and manage software applications with containers and master docker one bite at a time

Gourav Shah   ₹3,749

What is Devops

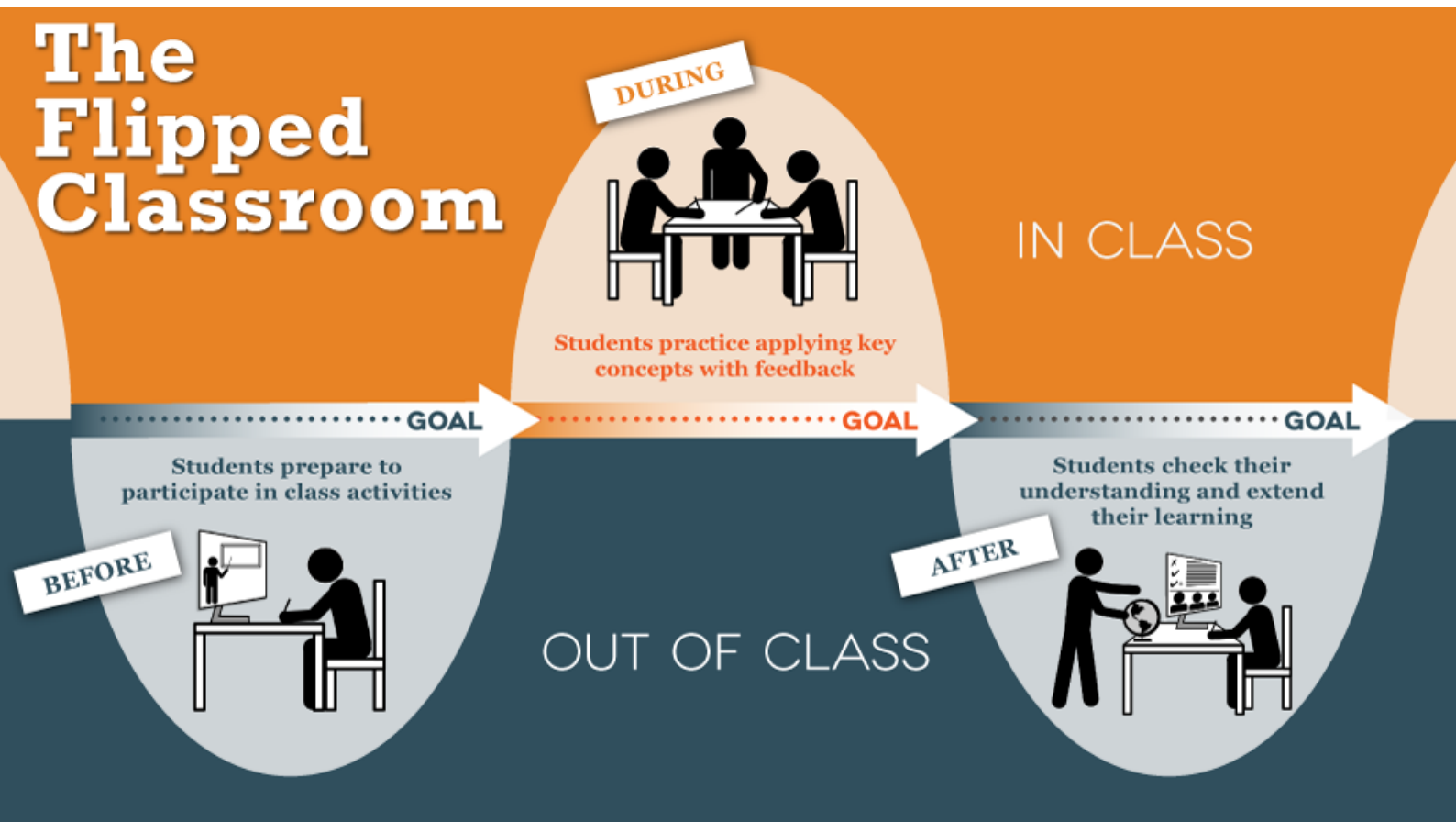Codifying devops practices, principles and tools

Gourav Shah   FREE

FLIPPED CLASSROOM

This course follows a Flipped Classroom methodology, a blended model where participants come prepared with understanding of concepts by going through video/online content. The class time is maximized to perform practical activities to apply the concepts learnt earlier. Practice activities include taking up a use case and solving it by applying the techniques, or performing nano projects etc.

To make it successful, participants need to be prepared in advance, by going through the recommended pre class content to clear the concepts as well as by making sure their systems are prepared with all the software required, before the class. The pre class checklist given below can be handy for this purpose.

src: https://facultyinnovate.utexas.edu/flipped-classroom

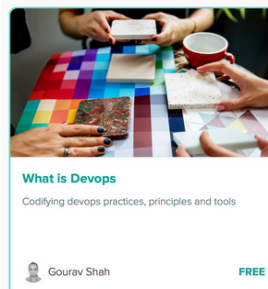| OLD (Before the Flip)		NEW (After the Flip)
Students read over materials	BEFORE CLASS	Students complete interactive learning module.
Students listen to a lecture.	DURING CLASS	Students practice applying key concepts with feedback.
Students attempt the homework.	AFTER CLASS	Students check understanding and extend learning to more complex tasks.

Course Outline

WEEK

00

HOME WORK

What is Devops

An introduction to Devops

Learn why devops was created, how it happened and the key principles and practices.

What is Devops

Codifying devops practices, principles and tools

Gourav Shah   FREE

https://www.schoolofdevops.net/p/what-is-devops

Zero to Docker

Learn about Containers and Docker

Learn the basics of Docker

Zero to Docker

Learn to build, deploy and deliver and manage software applications with containers and master docker one bite at a time

Gourav Shah   ₹3,749

https://www.schoolofdevops.net/p/zero-to-docker
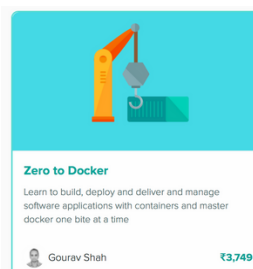
WEEK

01

CLASS WORK

Saturday

Introduction

Introduction to the course, devops, and the use case. A work shop to build a solution for Mogambo.org

Sunday
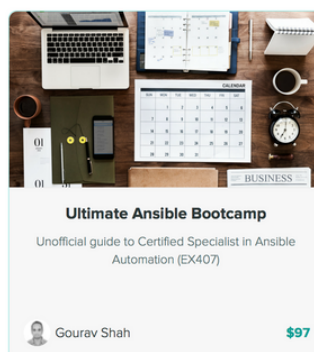
Docker Mini Project

Mini project and classroom activities to usr docker to build container images for Mogambo app.

HOME WORK

Ultimate Ansible Bootcamp

Infrastructure as a Code with Ansible
Learn the fundamentals of IaaC and Ansible base primitives.

Ultimate Ansible Bootcamp

Unofficial guide to Certified Specialist in Ansible Automation (EX407)

Gourav Shah $97

https://www.schoolofdevops.net/p/ultimate-ansible-bootcamp

CLASS WORK

Saturday

Git Essentials for Devops
Learn the basics of Git for a devops engineer.

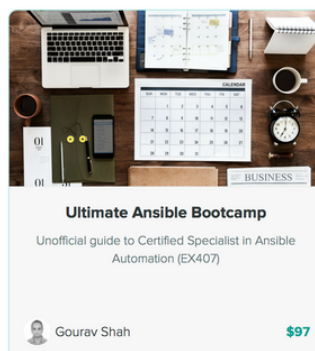**Sunday**

Ansible Mini Project
Create Ansible Playbooks to automate application deployment for Mogambo project

HOME WORK

Ultimate Ansible Bootcamp

Infrastructure as a Code with Ansible
Learn the advanced Ansible concepts

Ultimate Ansible Bootcamp

Unofficial guide to Certified Specialist in Ansible Automation (EX407)

Gourav Shah $97

https://www.schoolofdevops.net/p/ultimate-ansible-bootcamp

WEEK

03

CLASS WORK

Saturday

Ansible
Continue working on ansible project, add advanced features and use those in Mogambo app stack.
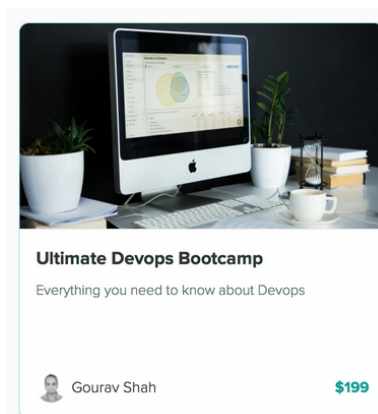
Sunday

Continuous Integration
Learn the basics of Continuous Integration, Jenkins, Pipelines etc.

HOME WORK

Ultimate Devops Bootcamp

Continuous Integration Section
Learn to setup Jenkins Pipelines with build, test and deploy.

Ultimate Devops Bootcamp
Everything you need to know about Devops

Gourav Shah $199

https://www.schoolofdevops.net/p/ultimate-devops-bootcamp

WEEK

04

CLASS WORK

Saturday

Continuous Integration
Continue working on the Jenkins Project to build pipelines for all application of the Mogambo Stack.
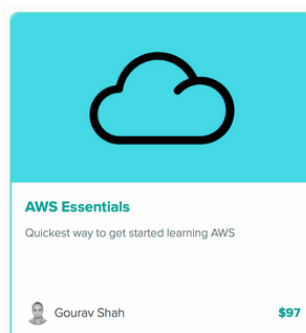
Sunday

Project
Integrate Ansible, Git and Jenkins to setup Deployment Pipelines.

HOME WORK

AWS Essentials

Cloud Computing with Amazon Web Services
Learn about Infrastructure as a Service, Compute, Network, Database and Storage services by AWS

AWS Essentials
Quickest way to get started learning AWS

Gourav Shah $97

https://www.schoolofdevops.net/p/aws-essentials

WEEK

CLASS WORK

Saturday

Continuous Integration with Docker
Integrate Jenkins pipelines with Container based delivery.
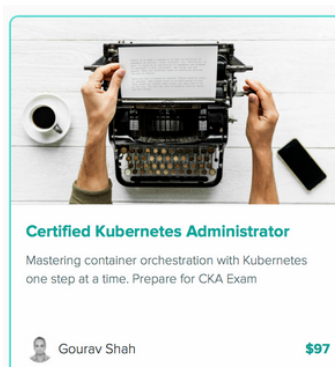
Sunday

AWS
Start building infrastructure on Cloud with AWS

HOME WORK

Certified Kubernetes Administrator

Containers as a Service with Kubernetes
Learn about container orchestration, the hottest technology of 2018 i.e. Kubernetes

Certified Kubernetes Administrator

Mastering container orchestration with Kubernetes one step at a time. Prepare for CKA Exam

Gourav Shah $97

https://www.schoolofdevops.net/p/certified-kubernetes-administrator

CLASS WORK

Saturday

AWS
Continue with cloud, use auto scaling, build self healing infrastructures.
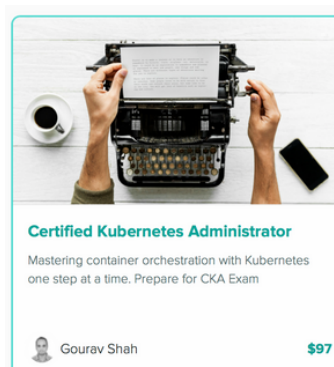
Sunday

Kubernetes
Start building Container as a Service and deploying applications on it.

HOME WORK

Certified Kubernetes Administrator

Container Orchestration Advanced
Learn about Kubernetes Adminstration and Advanced topics

Certified Kubernetes Administrator

Mastering container orchestration with Kubernetes one step at a time. Prepare for CKA Exam

Gourav Shah $97

https://www.schoolofdevops.net/p/certified-kubernetes-administrator

WEEK

07

CLASS WORK

Saturday

Kubernetes
Continue with Kubernetes, implement advanced primitives.

Sunday

Monitoring
Monitoring with ELK Stack and Prometheus

WEEK

08

CLASS WORK

Saturday

Terraform
Learn about multi cloud provisioning with Terraform.

Sunday

Project
Start working on the Capstone Project and implement everything you have learnt.

CERTIFICATION

- Complete the home work and class work
- Actively Participate in the Class
- Complete all Nano Projects
- Complete all Mini Projects
- Complete Capstone Project
- Practically able to demonstrate the concepts and technologies learnt during the course

Criteria

SCHOOL OF DEVOPS

DEVOPS MINIDEGREE

Sample Certificate

This minidegree is proudly awarded to

Your Name

in recognition of your successful completion of the devops minidegree course as well as passing the exams conducted thereafter..
Presented this September 17th, 2018 at by School of Devopser.

SCHOOL OF DEVOPS

Enrollment Checklist

- I have read the minidegree brochure

- I have gone through the topics and outline

- I have the pre requisite skills

- I have looked at the Schedules

- I have read about Flipped Learning and am interested in this method
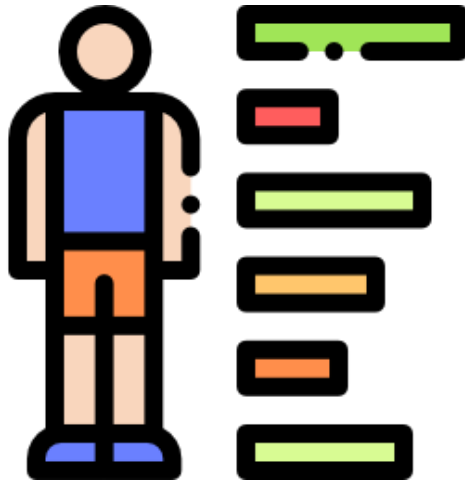
Skills Checklist

- [ ] Linux Commands and Systems Administration

- [ ] Basic Scripting Knowledge

- [ ] Networking Essentials

- [ ] Web Applications Administration

- [ ] Database Administration

- [ ] Finding and Analysing Logs

- [ ] Network and SystemsTroubleshooting

- [ ] Security Essentials

Ready to Enroll ?

visit

www.schoolofdevops.com/minidegree

Have Questions ?

contact

minidegree@schoolofdevops.com

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www.schoolofdevops.com