

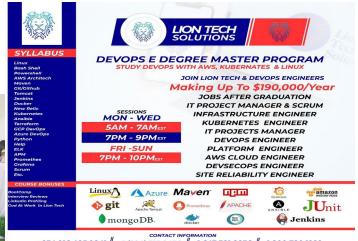
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## LIONTECH DEVOPS AND CLOUD COMPUTING PROGRAM





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## LIONTECH DevOps and Cloud Engineering Program

## **Program Introduction**

DevOps is a collaborative approach that bridges development and operations teams to streamline software delivery. Cloud computing provides scalable, on-demand resources for applications and services. In this curriculum, we'll explore how DevOps practices align with cloud technologies.

#### **Course Outline and Curriculum**

#### Week 1-3

## Python Fundamentals:

- Learn Python from scratch, covering key concepts like variables, data types, loops, functions, and object-oriented programming.
- Explore Python libraries commonly used in DevOps, such as paramiko, netmiko, and napalm.
- Real-world examples of Python scripts for network automation with Cisco IOS, Arista EOS, or Linux

## Week 3-5

#### Linux Basics:

- Understanding Linux is crucial for cloud and DevOps.
  - Key topics:
- Command-line basics
- File system navigation
- Permissions and users
- **❖** Shell scripting

Week: 5 - 6

## **Networking and Operating Systems Fundamentals:**

Networking Fundamentals: Delve into network architectures, protocols, and device configurations.

Week: 6 - 8

source code management

Git, github, aws codecommit



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#### **WEEK 8 - 12**

### APPLICATION BUILD -TESTING - CODE QUALITY - AND DEPLOYMENT

TOOLS COVERED:

- ❖ Apache Maven, Ms Build Pybuild Software Build Automation Technologies
- Sonarqube Continouse Code Quality Inspection
- Jmeter Perfomance and Load Toasting

#### **WEEK 12 - 14**

## **Continuous Integration/Continuous Deployment (CI/CD):**

- Jenkins: Set up CI/CD pipelines, Azure DevOps
- GitLab CI/CD or GitHub Actions: Explore other CI/CD tools.

### **WEEK 14 - 20**

#### **Containerization and Orchestration:**

- Docker: Create, manage, and deploy Docker containers.
- \* Kubernetes: Understand container orchestration, deployments, and scaling.

#### **WEEK 20 - 24**

## Infrastructure as Code (IaC):

- Terraform: Provision and manage cloud resources.
- ❖ Ansible: Learn configuration management and automation.

#### **WEEK 24 - 26**

#### **CLOUD PLATFORMS**

- AWS: Explore EC2, S3, VPCs, and other AWS services.
- Google Cloud: Learn about Compute Engine, Kubernetes, and BigQuery.
- Azure: Understand Azure VMs, Azure Functions, and Azure DevOps

### **WEEK 26 -27**

#### **SCRUM - METHOLODOLIES AND TECHNICAL DOCUEMTATION**

**WEEK 27 - 32** 

#### CAREER AND JOB PLACEMENT SERVICES

- Resume Development
- Linkedin Profiling
- Job Applications
- Conferences and Networking Events
- Interview Preparations more.



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#### **CAREERS UPON GRADUATION AND CERFICATIONS**

## **DevOps Engineer**

Responsible for bridging the gap between development and operations teams by automating deployment processes, managing infrastructure, and ensuring scalability and reliability of applications.

## **Cloud Engineer**

Specializes in designing, implementing, and managing cloud infrastructure and services. They work with cloud providers like AWS, Azure, Google Cloud to deploy and maintain cloud-based solutions.

## Site Reliability Engineer (SRE)

Focuses on ensuring the reliability, scalability, and performance of large-scale applications and systems. SREs use a combination of software engineering and IT operations skills to maintain system uptime.

## **Systems Administrator**

Manages and maintains an organization's IT infrastructure, including servers, networks, and applications. In a DevOps environment, systems administrators play a crucial role in automating tasks and streamlining processes.

#### **Automation Engineer**

Designs and develops automated solutions for repetitive tasks, testing, and deployment processes. Automation engineers help improve efficiency and reduce human error in software development and operations.

#### **Cloud Architect**

Designs and builds cloud-based solutions that meet the technical and business requirements of an organization. Cloud architects are responsible for creating scalable, secure, and cost-effective cloud infrastructures.

## **DevOps Consultant**

Works with organizations to implement DevOps practices, tools, and culture to improve collaboration, efficiency, and quality in software development and operations.



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# **GRATUATION AND CERIFICATION**

#### Cerfications

- 1. Diploma from LionTech Academy in DevOps and Cloud Computing
- 2. Diploma From Kesmond University international





