



## Deploy and Modernize with DevOps Training

Course Duration: 3 Months

- Real People
- Real Classrooms
- Real-time Projects

# Manikanta Kona

CEO, Digital-Lync



He shares a belief that education goes beyond classrooms and certifications which is why he started Digital Lync to help people in developing distinctive skill sets.

He solidly believes that the future belongs to those who can think, access, configure and implement end to end technologies.

“

*I have a burning desire to empower people and make them realize their potential. Living by this passion keeps me content everyday.*

”

## About Digital Lync

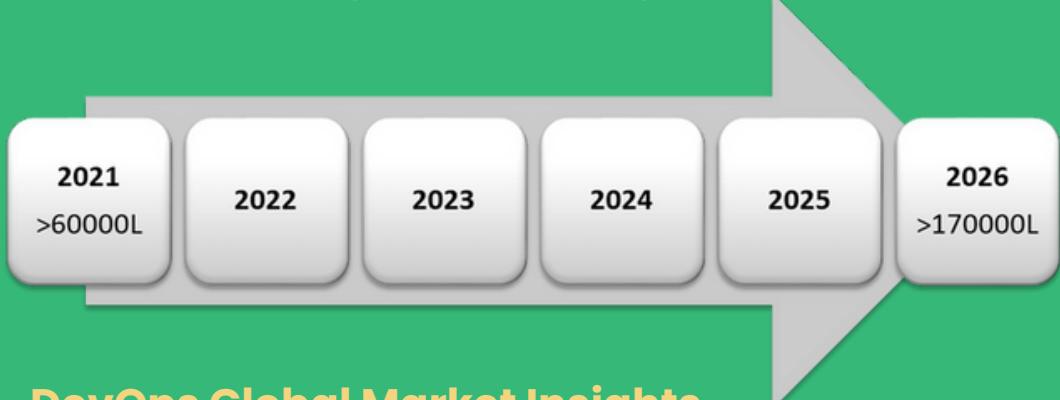
- Digital Lync is the most credible organization where students can skill, upskill and reskill themselves.
  - With 7 years of experience, we have upended the technical education system by emphasizing on disruptive technologies.
  - We have trained over 50000 students spanning across Cloud, DevOps, Full Stack and Salesforce.
- 
- **Physical and Virtual Classrooms**
  - **Real-time Labs and Assignments**
  - **Live Projects with Industry Partners**
- 
- **Job & Interview Assistance**
  - **24/7 Support & Mentorship**
  - **Immediate Internships & Placements**

# The Future with Cloud DevOps

## Why learn Cloud DevOps?

- Provides high paying jobs.
- Fastens career growth.
- Mitigates software failures.
- Enables faster application releases.
- Keeps you at top.
- Transforms you into valuable assets.

## What can you get learning Cloud DevOps?



### DevOps Global Market Insights

Compound Annual Growth > 20%

## Highest Paying Global Career



# Why become a Cloud DevOps Specialist?



## Can be learned by anyone

A fresher or someone with the basic Linux and Scripting knowledge can learn Cloud DevOps with an ease.



## Fancy salary packages

Professionals in Cloud Devops are paid fairly well everywhere.



## Easier access to jobs

The demand for Cloud DevOps engineers is higher but the supply is insufficient. So, getting a job soon after completing the course is pretty easier.



## Fast Career Growth

Up-scaling yourself is a necessity, especially nowadays when technology is evolving at a rapid pace.



## Exposure To Various Trending Tools and Technologies

Cloud DevOps can expose people to several tools ranging from Jenkins, Kubernetes to Docker and Terraform.



## Become More Valuable To The Company

Most of the companies for cost optimisation purpose are looking for people with cutting-edge skills.



DON'T WORRY  
YOU ARE  
AT RIGHT  
PLACE

# Why choose Digital Lync?



## Superior Infrastructure

Take advantage of the chance to learn from top industry experts and faculties.



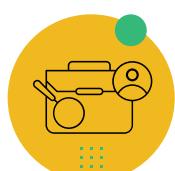
## Personalised Curriculum

Unlike understanding of a few topics in Cloud DevOps, our in-depth curriculum gives you end-to-end knowledge.



## 24/7 Mentor Support

Live lectures or hangouts with subject-matter experts, discussion forums, and Q&A to answer your questions and reinforce learning are all available.



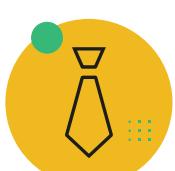
## Access and Networking

The expanded networks along with the support team provide you access to the world of full-fledged jobs.



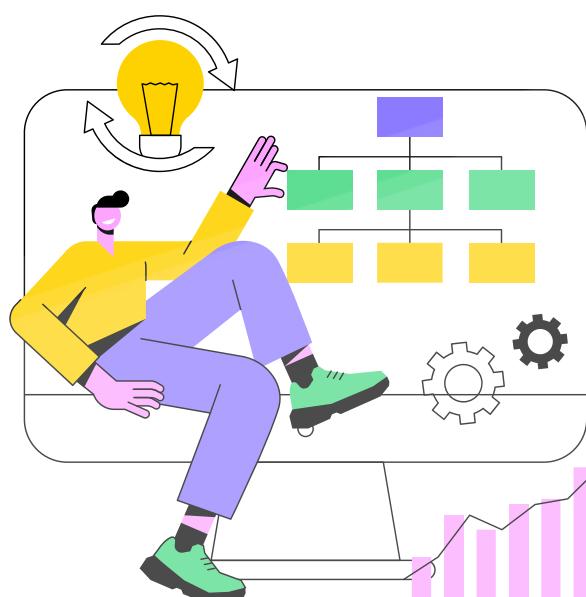
## Multifaceted Development with Real-time Projects

Exploration of case studies that give a real understanding of the challenges faced by renowned organisations in the tech space and can also be able to apply what they have learned during live lectures.



## Job-Assistance and Resume Building.

Providing assistance to prepare people for the job while grooming them personally and professionally. While we are at it, helping them build attractive resumes.



# Course Structure

## LIVE Classes

Attend LIVE sessions by industry experts.

## Recorded Videos

Learn through pre-recorded videos from industry leaders.

## Teaching Assistance

Practical and interactive doubt clearing sessions, project sessions, etc.

## Real-time projects

First-hand experience through development and implementation of projects across different verticals

## Relative Internships

Advanced internship that enhances networking and resource value.



## 1 Fundamentals of SDLC & ALM

- Web Application Architecture
- Web Technologies
- Web Technologies used in Projects

## 2 Introduction to SDLC/ALM

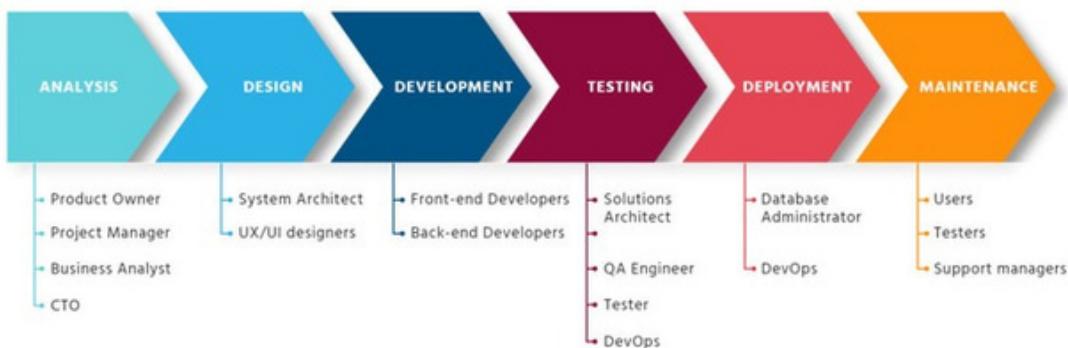
- What is SDLC?
- SDLC Methodologies
- Waterfall Methodology
- Agile Methodology
- Scrum Framework

## 3 Essentials Technologies of SDLC

- What is DevOps?
- What is Cloud, SAAS, IAAS, PAAS?
- What is Testing?

## 4 Execution to SDLC

- Analysis: Azure Boards, Jira.
- Design: Photoshop, Illustrator, Figma
- Development Front End Technologies, Back End Technologies, Databases and Frameworks
- Introduction to Azure DevOps
- Code Management: Azure Repos, Git and Git Hub.
- Testing Release: Test Plans
- Deployment and Maintenance: CI/CD Pipelines



## 1 Introduction to Operating Systems

- Introduction to Operating Systems
- Introduction to Linux OS
- Linux Distributions
- Linux Architecture

## 2 Basics of Linux

- Understanding Command Line Interface - CLI
- Understanding Linux File System
- Using Text Editor (vi)
- File & Directory Management
- Archive Files Using tar and zip utilities
- Package Management
- User Management
- File Permissions
- Service Management

## 3 Networking and Security

- Configure Firewalls to secure the application
- Understand how IP addresses, ports, and DNS works
- Load Balancers
- HTTP/HTTPS

### LINUX DISTRIBUTIONS USED

THEN



Fedora / Red Hat: 45%
Slackware: 18%
Debian: 10%
SUSE / openSUSE: 8%
Ubuntu: 6%
Other: 7%
Mandrake: 5%

NOW



Ubuntu: 34%
Fedora / Red Hat: 28%
Other: 15%*
Debian: 12%
openSUSE / SUSE Enterprise: 7%
Linux Mint: 4%

\* Nearly all respondents who answered "Other" wrote in ArchLinux.

# CURRICULUM - MODULE 3

# Version Control & CI/CD

## 1 Version Control System - Git/Git Hub

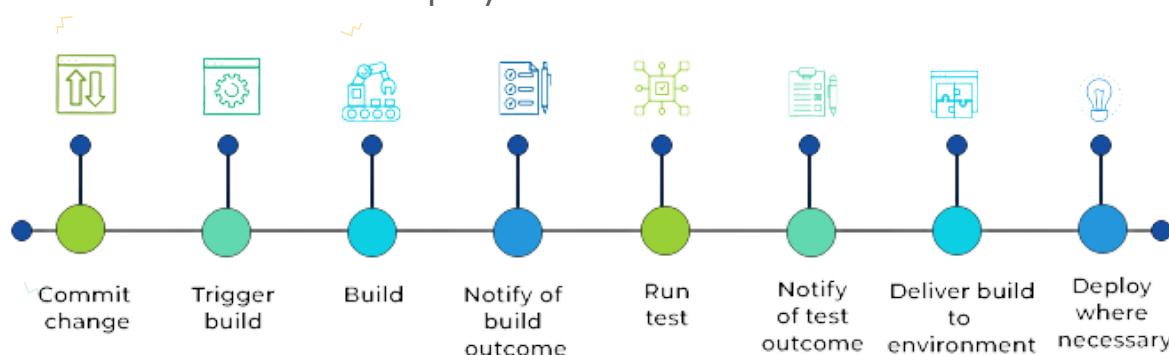
- Introduction to Version Control System
- Centralized Version Control System
- Distributed Version Control System
- Git Introduction
- Git Architecture
- Git Workflow
- Git Branching Model
- Git Merging Branches
- Detached Head for Retro scoping
- Undoing Changes
- Git Ignore
- GitHub For Remote Repositories
- Using existing GIT Repositories with Clone
- Pull Requests
- Tagging

## 2 Introduction of Continuous Integration

- Overview and Flow of Continuous Integration
- Benefits of Continuous Integration
- Requirements of Continuous Integration
- Build tools and Repository Manager for Continuous Integration

## 3 Introduction of Continuous Deployment

- Overview of Continuous Deployment
- Benefits of Continuous Deployment
- Agile Mentality of Continuous Deployment
- Tools for Continuous Deployment



## 1 Fundamentals of Cloud Computing

- Fundamentals of Datacenter
- Fundamentals of Servers
- Fundamentals of Cloud Computing
- Cloud Offerings – IAAS vs PAAS vs SAAS
- Cloud Providers – AWS vs Azure vs GCP
- Use Case of Applications on Cloud

## 2 Introduction to AWS

- Basics of AWS
- Working with AWS
- Linking AWS with DevOps
- CI/CD with AWS

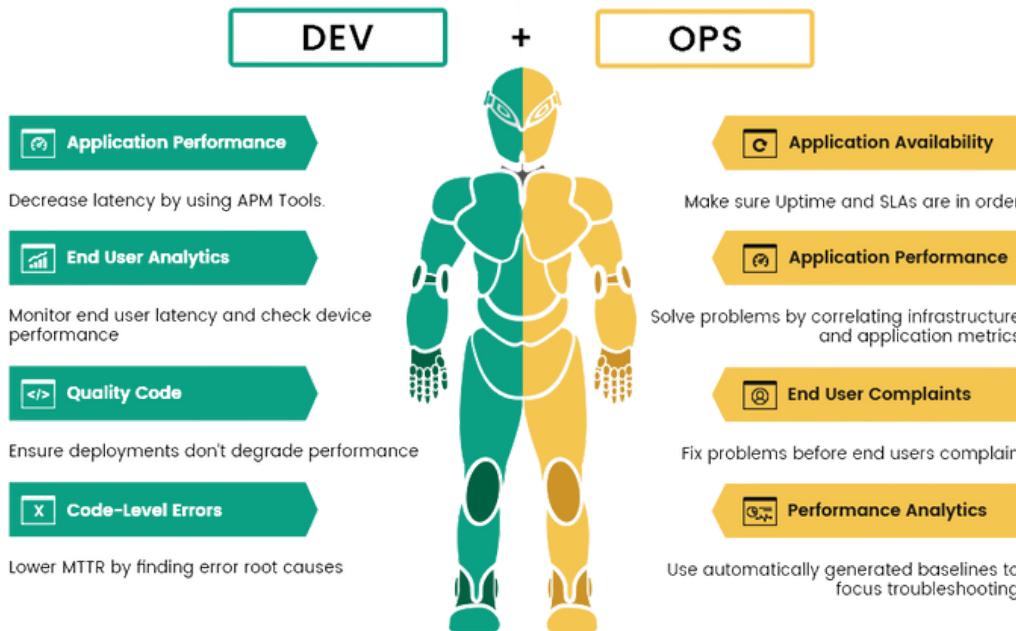
## 3 Introduction to Azure

- Basics of Azure
- Working with Azure
- Linking Azure with DevOps
- CI/CD with Azure DevOps



# CURRICULUM - MODULE 5

# DevOps



## 1 Azure DevOps

- What is Azure DevOps?
- Azure Boards
- Azure Repos
- Azure Pipelines
- Azure Test Plans & Artifacts

## 2 Build and Package Management Tools

- Introduction to Build Tools
- Introduction to Package Management Tools
- Overview of Visual Studio
- npM
- Maven

## 3 Jenkins for CI/CD

- Overview of Jenkins
- Setting Up Jenkins
- Setting Up Build Jobs
- Build Parameters
- Build Triggers
- Jenkins Plugins
- Jenkins Job DSL

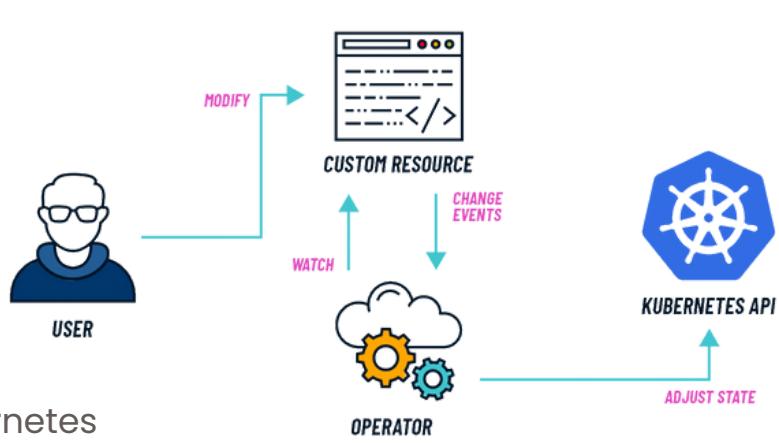
- Jenkins Pipelines
- Jenkins Integrations
- Advanced Jenkins Usage

## 4 Containerisation with Docker

- Introduction to Containerization
- Virtualization using Virtual Machines
- Virtual Machines vs Docker
- Docker Architecture
- Components of Docker
- Setting up Docker
- Docker Registry
- Docker Images Vs Docker Containers
- Running Docker Containers
- Docker Volumes
- Containerize Applications
- Creating Docker Container from Docker Image
- Sharing images using Docker Hub
- Deploying Docker applications using multiple containers
- Running applications using Docker Compose
- Docker Networks

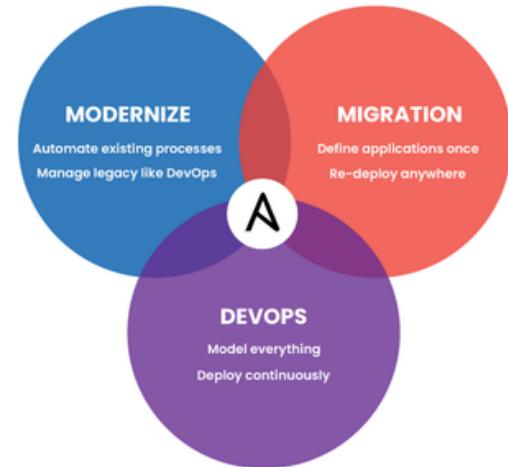
## 5 Orchestration with Kubernetes

- Introduction to Container Orchestration
- Container Orchestration Tools
- Overview of Kubernetes
- Kubernetes Architecture
- Components of Kubernetes
- Understanding Containers
- Running Containers
- Sustaining Containers
- Running Pods of Containers
- Clustering of Pods
- Clustering of Containers
- Replica Sets
- Deployments and Services
- Attaching Docker and Kubernetes
- K8s Release Notes
- Linking Kubernetes and Cloud Native



## 6 Configuration Management with Ansible

- Complexity in Infrastructure Management
- Introduction to Configuration Management Tools
- PULL vs PUSH Based Configuration Management
- Introduction To Ansible
- Ansible Setup
- Ansible Inventory
- Ansible Modules
- Ansible Ad-Hoc Commands
- Introduction To YAML
- Ansible Playbooks
- Ansible Handlers
- Ansible Facts & Variables
- Ansible Templates
- Ansible Roles



## 7 Infrastructure as code with Terraform

- Terraform Installation
- Understanding Terraform HCL
- Terraform with AWS
- Terraform with Ansible
- Setup Highly Available Infrastructure Using Terraform

## 8 Monitoring & Observability with Grafana and Prometheus

- Introduction to Monitoring
- Introduction to Observability
- Grafana Introduction
- Grafana Overview and Overall Architecture
- Installing Grafana on a Linux Server and Windows
- Starting, Stopping Grafana Services on Windows
- Installing Grafana on Docker
- Creating Grafana Dashboards
- Grafana User Interface Overview
- Implementing Monitoring and Observability with Grafana
- Introduction to Prometheus
- Working with Prometheus
- Monitoring and Alerting

- Internals – Storage and Security

## 9 Artifact Repository Management with Nexus and Sonarcube

- Introduction to Nexus Repository Manager
- Learning types of Repositories
- Using Nexus Repository Manager as a User
- Creating and Configuring Repository Settings
- Administering Nexus Repository Manager
- Integrating Nexus Repository security with Network Security
- Understanding support tools and Nexus Plugins
- Optimizing complex deployment topologies

## 10 Container Inspection with SonarQube

- Provision SonarQube server as Container Instance from SonarQube Docker image
- Setup SonarQube project
- Provision a DevOps Project and configure CI pipeline to integrate with SonarQube
- Analyze SonarQube reports

## 11 Communication and Collaboration with Slack

- Getting started with Slack
- Starting with Channels
- Working with Messages and Calls
- Sharing Files and Conversations
- Searching and Shortcuts in Slack
- Slack Integrations with DevOps

## 12 Scripting with Python for DevOps

- Python as a Scripting Language
- Python Collections and Sequences
- Working with Python Collections
- Python Functional Programming
- Python File Handling
- Python Modules and Packages
- Classes in Python
- OOPS in Python
- Application of Scripting Languages
- Automation through Scripting Languages



# Real Time Projects



## Cricket Technology Platform - CricClubs

CricClubs is one of the leading cricket technology platforms which helps all the stakeholders of cricket. Once after the project is done, you will be equipped with extensive knowledge of automated deployment using CI/CD pipeline.

**DevOps Tools Used:** Github, Jenkins, Docker, Kubernetes, Maven, Terraform, Sonarqube, Nexus.

**Cloud Used:** AWS

**Author:** Ganesh Nallapareddy **Director:** Sai Kumar  
**Duration:** 8 Hours



## Learning Management System - Kona LMS

Kona LMS offers the best professional LMS made to cater to industry requirements. LMS is built with State of Art technology. The project contains multiple activities such as automating infrastructure deployment, configuring and implementing CI/CD pipeline, and designing monitoring solutions.

**DevOps Tools Used:** Azure DevOps, Docker, Kubernetes, Terraform, Sonarqube, Nexus.

**Cloud Used:** Azure

**Author:** Manikanta Kona **Director:** Bala Hanumanthu  
**Duration:** 8 Hours

## Build and Deploy Salesforce Like CRM - Digital Lync

CRM stands for "customer relationship management" and it's software that stores customer contact information. Using tools like Terraform, guidelines will be set for naming conventions, service plan levels, deployment locations and code repos.

**DevOps Tools Used:** Github, Jenkins, Docker, Kubernetes, Maven, Terraform, Sonarqube, Nexus

**Cloud Used:** Azure

**Author:** Manikanta Kona **Director:** Manideep Moturi  
**Duration:** 8 Hours



## Tools and Platforms

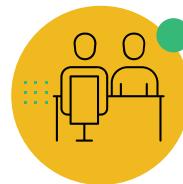


# Placement and Career Assistance



## Refine your CV

Before you attend an interview, an impressive CV can help you introduce yourself to the field. We offer industry professionals' critical criticism and help you build to ensure that your resume stands out.



## Access to our Job Portal

Here are some ways to boost your likelihood of obtaining an interview by with a potential employer three-fold.



## Professional Grooming

Mock interviews with industry experts is the key to preparedness for you to face the employers in the real world with confidence.



## Apply for Job Offers

You can secure a job after 3-6 months of enrollment with us through our hassle-free process.



## Pick what's best for you

Talk to our experts to identify the best-suited career opportunities for you.



# Program Details

## Course starts

Please refer to the website for program start dates

## Fee structure

Please refer to the website.

## Duration

3 Months Training +  
3 Months Internship

## Program hours

100+ Learning Hours  
and additional  
Internship duration.

For admissions, contact

**+91 6304982304**

**hello@digital-lync.com**

2nd Floor, Hitech City Rd, Above  
Domino's, opp. Cyber Towers, Jai hind  
Enclave, Hyderabad, Telangana.

