

## About Thapovan

Thapovan Info Systems, Inc is an IT consulting and offshore software development company that was started in 2002. Thapovan offers a wide variety of software services and is now getting into the world of KPO. We have worked on a wide spectrum of projects, from mobile to mainframe, social networking to secure financial applications, client server to the cloud.

Thapovan specializes in providing end to end e-business solutions in the Mobile-Cloud platform. We are adept at following Agile Scrum as well as the conventional Waterfall development.

With Thapovan, you can leverage the flexibility and adaptability of a small organization as well as the experience and expertise of a very senior management team. We have talented young professionals who are skilled and committed, with a management team that has extensive experience and expertise in executing large offshore projects for Multi National Corporations.

Thapovan strives to ensure a high degree of professionalism and technical competence in providing services to our clients. Maintaining the highest standards of ethics in business conduct is part of our core values. Client satisfaction is our most important business objective and we rate our success based on our client satisfaction.



### Live & Unique Projects

Realtime projects with  
realtime scenario



### Flexible Timings

Flexibility to Reschedule Your  
Batch/Class at Your Convenience



### Professional Mentors

To Help you with Real Time Challenges &  
Provide Guidance

*Join us!*

52/481, First Floor, Pookarathottam,  
Opp to co operative college  
Olavakkode-678002



**Thapovan**

Info Systems Pvt. Ltd.

In pursuit of perfection

# DevOps TRAINING

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# DEVOPS FOUNDATION

## INTRODUCTION

- Why DevOps?
- What is DevOps?
- Roles and Responsibilities of DevOps
- Agile and DevOps
- DevOps Lifecycle
- Introduction to Virtualization
- Introduction to Cloud Computing

## SHELL SCRIPT BASICS

- Linux commands
- Shell editor
- Shell programming
- Basic automation scripts with scenarios

## MANAGING SOURCE CODE - GIT

- Overview of Version Control systems
- Central vs Distributed Control systems
- Introduction to Git
- How to setup Git
- Working with various commands in Git
- Recording changes to the repository
- Viewing the commit history
- Undoing things
- Working with remotes
- Branching and merging in git

## CI/CD

- CI/CD Introduction
- Introduction to Jenkins
- Installation and configuring Jenkins
- Authentication and Authorization in Jenkins
- Introduction to Pipeline stages
- Build, Test and Deploy pipeline stages using Jenkins
- What are Artifacts and their usage



# DEVOPS INTERMEDIATE

## WEB SERVER AND PROXY

- Web server basics
- What is a proxy (Reverse and forward)
- Nginx and basic routing

## VIRTUALIZATION AND CONTAINERS

- Introduction to virtualization
- What and Why of Containers
- Difference between VMs and Containers
- What is Docker
- Docker Architecture and Components
- Working with Containers and Docker Registry (private and public)

## DOCKER COMMANDS AND USE-CASES

- Docker Files
- Docker volume
- Docker Networking
- Docker Compose
- Docker Swarm

## GITLAB RUNNER

- Introduction to Gitlab Runner
- Gitlab Runner setup and configuration
- CI/CD pipeline with Gitlab runner (Build, Test and Deploy)

## SELENIUM GRID

- Introduction to Selenium Grid
- Selenium Grid setup
- Working with Selenium Grid



# DEVOPS ADVANCED

## DEVOPS ON CLOUD

- Essentials of Cloud Computing
- Cloud and virtualization architecture
- Cloud deployment architecture
- Cloud providers - An overview

## DEVOPS ON AWS CLOUD (TERRAFORM / CLOUDFORMATION)

- Introduction to AWS
- Networking - VPC, Route table, subnet (public and private)
- IAM Roles and Policies
- EC2 Instances
- S3 Objects
- ECS OR EKS Basics
- Load Balancer

## MICROSERVICE AND STATIC APP DEPLOYMENT

- Automate static site deployment
- Automate microservice deployment
- Introduction to Review app
- Review app setup
- Automate daily regression test

### Assignments

Each class will be followed by practical assignments which will aggregate to minimum 20 hours.

### Real-life Case Studies

Live project based on any of the selected use cases, involving implementation of the various test cases.



\* Course fee does not include tax