



# CERTIFIED DEVOPS

## PROGRAM BROCHURE



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# WHY VIRAJETECH?

## “OUR VISION”

To be the safest, most progressive Technology Provider, relentless in the pursuit of Client and employee excellence

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**VirajeTech's Placement Team boasts industry-leading success, aiding thousands in seamless transitions to DEVOPS careers.**



## EXPERT TRAINERS

**10+year experienced and Industry Experts**

Elite Faculty from Prestigious universities with deep research and coaching expertise

## COMPREHENSIVE

**30 hours & 700+ Learning Hrs.**

Syllabus aligned with virajetech standards and rigorously updated to match with latest industry requirements



## JOB ASSISTANCE

**End to End job Support**

Personalized resume and interview preparation support Job updates and connects

## REALTIME EXPERIENCE

**Projects and Internships**

20 capstone projects and 1 client projects with active interaction  
Internship -developing POCs

# PROGRAM STRUCTURE

THE COURSE FOR BEGINNER'S PROFESSIONALS AND INTERMEDIATE LEARNERS

IN THE FIELD OF

DEVOPS THIS IS A CAREER- ORIENTED PROGRAM, DESIGNED TO IMPART A

STRONG FOUNDATION



- PRE COURSE SELF-STUDY
- HIGH QUALITY VIDEOS WITH EASY LEARNING APPROACH.
- CERTIFICATIONS
- JOB READY PROGRAM
- LIVE TRAINING
- 30 HOUR A WEEK
- COMPREHENSIVE SYLLABUS
- HANDS-ON PROJECTS
- EXPERT TRAINERS AND MENTORS



# DEVOPS DOCKER



## WHY DEVOPS?

A DevOps e-learning course is a strategic choice for individuals aiming to excel in the contemporary IT landscape. The course not only addresses the surging demand for DevOps professionals but also aligns with the industry's need for agility and collaboration. Through the e-learning format, learners gain flexibility, enabling them to balance their education with existing commitments. Practical exercises and simulated environments within the course ensure hands-on experience, crucial for mastering DevOps tools and methodologies. The global accessibility of e-learning fosters a diverse learning community, while continuous updates keep learners abreast of the latest industry trends. Overall, a DevOps e-learning course offers a comprehensive, flexible, and globally accessible pathway to acquiring in-demand skills in the dynamic realm of IT.



## **1.Introduction to DevOps and Docker**

- *Overview of DevOps principles and practices*
- *Introduction to containerization with Docker*
- *Key concepts and terminologies in DevOps*
- *Role of Docker in modern application development*
- *Advantages of Docker over traditional deployment methods*
- *Overview of Docker architecture and components*
- *Significance of Docker in DevOps workflows*
- *Real-world use cases of Docker in application development*
- *Importance of scalability in containerized environments*
- *Career opportunities in DevOps and Docker*

## **2.Get Started with Docker Technology**

- *How to Take this Course and How to Get Support*
- *Docker Software's Client-Server Architecture*
- *Install Docker for Mac/Windows*
- *Install Docker Toolbox*
- *Important Concepts of Docker Technology*
- *Run Our First Hello World Docker Container*
- *Deep Dive into Docker Containers*
- *Docker Port Mapping and Docker Logs Command*



### 3.Docker Fundamentals

- *Docker images and containers basics*
- *Building Docker images with Dockerfiles*
- *Managing Docker containers and volumes*
- *Docker Compose for multi-container applications*
- *Networking in Docker and container communication*
- *Docker registries and image distribution*
- *Security best practices for Docker containers*
- *Docker Hub and other image repositories*
- *Real-world use cases of Docker fundamentals*

### 4.DevOps CI/CD with Docker

- *Integrating Docker into CI/CD pipelines*
- *Docker and version control systems (Git)*
- *Automated testing in Dockerized environments*
- *Building CI/CD pipelines with Jenkins and Docker*
- *Container orchestration for deployment automation*
- *Blue-Green deployments and canary releases with Docker*
- *Best practices for efficient CI/CD with Docker*
- *Security considerations in Docker CI/CD workflows*

### 5.Docker Networking and Security

- *Configuring Docker networks*
- *Container communication and service discovery*
- *Docker Compose for defining multi-container applications*
- *Security best practices for Docker networking*
- *Securing containerized applications with Docker*
- *Role-based access control (RBAC) in Docker*
- *Image scanning and vulnerability management*
- *Real-world use cases of Docker networking and security*
- *Impact of Docker networking and security on application reliability*

## 6. Advanced Docker Orchestration

- *Docker Swarm for orchestrating multi-container applications*
- Deploying and managing services in Docker Swarm*
- Scaling and updating applications in Docker Swarm*
- *High Availability (HA) and load balancing in Docker Swarm*
- Comparison of Docker Swarm and Kubernetes*
- Integrating Docker Swarm with CI/CD pipelines*
- Best practices for Docker orchestration*
- Real-world use cases of advanced Docker orchestration*
- Impact of orchestration on application scalability*

## 7. Docker Monitoring and Logging

- *Monitoring container performance with Docker stats*
- *Integrating logging tools with Docker containers*
- *Centralized logging with Docker and ELK stack*
- *Configuring alerts and dashboards for Docker*
- *Application and infrastructure monitoring in Docker*
- *Real-time analysis of logs and metrics*
- *Troubleshooting and debugging Docker containers*
- *Best practices for monitoring and logging in Docker*
- *Impact of monitoring on application performance and reliability*

## 8. Terraform and Cloud Platforms

- *Design principles and patterns for microservices*
- *Implementing microservices with Docker containers*
- *Service discovery and communication in microservices*
- *Load balancing and resilience in microservices*
- *Managing data in microservices with Docker*
- *Best practices for deploying microservices with Docker*
- *Real-world use cases of Docker in microservices*
- *Impact of Docker on microservices scalability*
- *Career opportunities in Docker and microservices development*

## **9.Docker and Cloud Platforms**

- *Container orchestration with managed Kubernetes services*
- *Serverless computing with Docker containers*
- *Cloud-native development and Docker*
- *Configuring and optimizing Docker on cloud infrastructure*
- *Hybrid cloud deployments with Docker containers*
- *Real-world use cases of Docker on cloud platforms*
- *Best practices for Docker in cloud environments*
- *Security considerations in Docker deployments on the cloud*
- *Impact of Docker on cloud-native application development*

## **10.Docker and Cloud Platforms**

- *Introduction to Docker Networking*
- *Bridge Network*
- *Host Network and Overlay Network*
- *Overlay Network*
- *Define Container Networks with Docker Compose*

## **11.Create a Continuous integration Pipeline**

- *Introduction to Continuous Integration*
- *Text Direction: Introduction to Continuous Integration*
- *Link CircleCI with Github Account for Setting up a CI Workflow*
- *Push Docker Images To DockerHub from CircleCI*
- *Trouble Shooting: Push Docker Images to Docker Hub*



# INTERNSHIP

Explore valuable internship opportunities with us! Join a dynamic and innovative environment, collaborate on real-world projects, and enhance your skills. We're seeking motivated individuals with a passion for learning and strong communication skills. This internship offers hands-on experience, exposure to industry best practices, and potential career pathways.



# VIRAJETECH EXPERTISE CLASS

A grid of 28 technology logos arranged in 5 rows. Row 1: Python, AI, Hadoop, Spark, ML, R, Data Science. Row 2: AWS, Docker, Puppet, A, Java, Node.js, Spring. Row 3: Spring Boot, Hibernate, MySQL, iOS, Android, HTML5, CSS3. Row 4: Bootstrap, JS, PHP, CodeIgniter, WS. Row 5: (empty space).

## VIRAJETECH EXPERTISE CLASS



# JOB READY PROGRAM

## PROJECT MENTORING

100 hours Live  
Mentoring in industry  
projects



## PLACEMENT ASSISTANCE TEAM



## DOUBTS SESSIONS

Twice a week, Live  
doubts session from  
mentors and experts

## INTERVIEW QUESTIONS

Frequently asked interview  
questions course included



## JOB COUNSELLING

Mapping your profile  
to suitable job role

## RESUME SUPPORT

Personalized resume  
creation support from  
professionals



## ALUMINI CONNECT

Connect with  
successful Alumni to  
learn from experience

## PLACEMENT ASSISTANCE




Mercedes-Benz




# OUR LEARNER's FEED BACK

## HIGHEST LEVEL OF CUSTOMER DELIGHT




**ruchi s**  
1 review · 3 photos  
★★★★★ 3 months ago

VirajeTech has been a game-changer for me. Their training courses have provided me with the skills I needed to excel in my career 4X. The instructors and Arjun sir are passionate about what they do, and it shows in their teaching. Hands on and practical way of teaching, I highly recommend VirajeTech to anyone looking to further their knowledge and skills




**Anoop G**  
6 reviews  
★★★★★ 3 months ago

Getting placed at Amency was a dream come true, and I owe a big thank you to VirajeTech for making it possible. The instructors were experts in their field, and they created a supportive learning environment. The hands-on approach and practical exercises made all the difference.




**Sachidanand Shahane**  
3 reviews  
★★★★★ 7 months ago

I am part of the AWS Associate master Class. The course was designed in a fashion that we are able to cover most of the content in a very short time. our trainer Kumar sir clarified any doubt we had and also pushed us to do the practicals which is really helpful in the learning process. Hi having vast knowledge and experience in Devops and Multi cloud platform(AWS,Azure,GCP),he provide the opportunity to get as much knowledge and guidance as possible. each session are interactive has real time use cases.




**Sayali Gawde**  
2 reviews  
★★★★★ a year ago

Thanks for the AWS tutoring by Virajtech. The best decision I have taken in my career so far. Instructor was very helpful and gave all possible solutions related to the problem which we faced in real time scenarios. This is what I have experienced in this course, a very practical and beneficial one.



**Piyush Poply**  
2 reviews  
★★★★★ 3 years ago

I am connected with this organization since its inception. This is one of the best places to learn, practice and grow your skills up to the standards of the industry. As in IT industry, maintaining your skills and updating yourself is the most important thing, we should never stop learning and this is exactly what this institute provides. The online classes are really great as well as the trainers.



**Harpreet Singh**  
12 reviews  
★★★★★ 7 months ago

Give very detailed explanation and also live teaching classes. Covering all latest topics which for sure help in getting jobs in today's market

# ADMISSIONS AND CONTACTS

ENQUIRE FOR DETAILED INFORMATION FOR ENROLLMENT

DURATION:35 HOURS

LEARNING : ONLINE MODE

b 1st floor, 64, 3rd Cross Rd, Electronics City

Phase 1, Electronic City, Bengaluru, Karnataka

560100

PHN NO:8618501719



20 HOURS A WEEK COMMITMENT



**DEVOPS** IS RATED AS **THE TOP CAREER**

HIGHEST PAID – RECESSION PROOF – MILLIONS OF JOBS



TAKE YOUR FIRST STEP TOWARDS DEVOPS CAREER

**ENQUIRE NOW**

# THANK *you*

You 

[Virajetech-youtube](https://www.youtube.com/Virajetech-youtube)



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