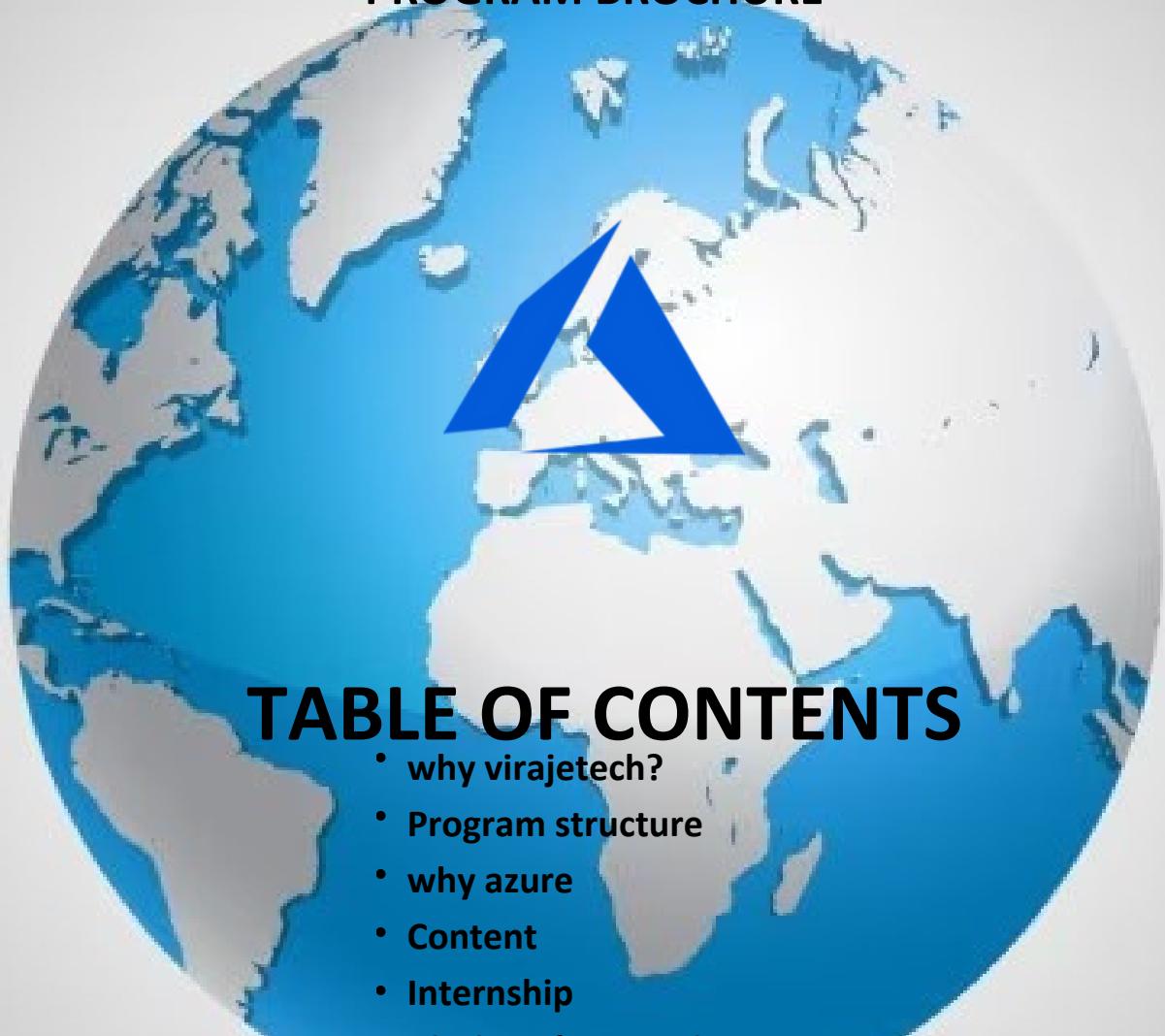




# CERTIFIED AZURE PROGRAM BROCHURE



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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

Virajetech's Placement Team has garnered a reputation for the industry's most exceptional placement records. Their dedicated efforts have facilitated the successful transition of thousands of aspirants into flourishing 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
- AWS THIS IS A CAREER- ORIENTED PROGRAM, DESIGNED TO IMPART A STRONG FOUNDATION



- PRE COURSE SELF-STUDY HIGH QUALITY VIDEOS
- EASY LEARNING APPROACH.
- CERTIFICATIONS
- JOB READY PROGRAM



- LIVE TRAINING
- 30 HOUR A WEEK
- COMPREHENSIVE SYLLABUS
- HANDS-ON PROJECTS
- EXPERT TRAINERS AND MENTORS

# Azure Kubernet



## WHY AZURE?

In the IT industry, pursuing Azure courses has become increasingly essential due to the growing prominence of cloud computing. Microsoft Azure, a leading cloud platform, provides a comprehensive suite of services for computing, storage, networking, and more. As organizations increasingly transition their infrastructure to the cloud, professionals with expertise in Azure gain a competitive edge. Azure courses equip IT professionals with the knowledge and skills to effectively design, deploy, and manage cloud solutions, enabling businesses to enhance scalability, flexibility, and cost efficiency. Moreover, Azure certification demonstrates proficiency in cutting-edge technologies, making individuals valuable assets to employers seeking to modernize their IT infrastructure and stay ahead in the rapidly evolving digital landscape.

# Azure Programming in Kubernetes

## Micrsoft Azure Course

### 1. Introduction to Kubernetes and Azure Kubernetes Service (AKS)

- *Introduction to Containerization*
- *Overview of Kubernetes and Container Orchestration*
- *Key Concepts: Pods, Services, Deployments*
- *Introduction to Azure Kubernetes Service (AKS)*
- *Setting up AKS and kubectl*
- *Azure Container Registry (ACR) Basics*
- *Azure CLI and PowerShell for AKS*
- *Managing AKS Clusters with Azure Portal*
- *Azure Policy for AKS Governance*
- *Azure CLI and PowerShell for AKS*

### 2 Kubernetes Architecture and Components

- *Control Plane Components: API Server, Scheduler, Controller Manager, etcd*
- *Node Components: Kubelet, Kube-proxy, Container Runtime*
- *Understanding Pod Networking*
- *Kubernetes Cluster Networking*
- *Storage in Kubernetes*
- *ConfigMaps and Secrets*
- *Custom Resource Definitions (CRDs)*
- *Extending Kubernetes with Operators*
- *Advanced Networking with Calico and Cilium*
- *Pod Security Policies in-depth*

### **3.Deploying Applications on AKS**

- ***Creating and Managing Deployments***
- ***Rolling Updates and Rollbacks***
- ***Configuring Resource Limits and Requests***
- ***Deploying Stateful Applications***
- ***Deploying Multi-container Pods***
- ***Helm Charts for Application Packaging***
- ***Managing Application Configuration with ConfigMaps and Secrets***
- ***Advanced Deployment Strategies***
- ***Kubernetes Operators for Application Management***
- ***GitOps Principles and Practices***

### **4.Scaling and Load Balancing**

- ***Horizontal Pod Autoscaling (HPA)***
- ***Cluster Autoscaler***
- ***Load Balancing in AKS***
- ***Ingress Controllers and Ingress Resources***
- ***Service Mesh with Istio***
- ***Advanced Load Balancing with Azure Application Gateway***
- ***Advanced Scaling Strategies***
- ***Designing for High Availability in AKS***
- ***Kubernetes Anti-Affinity Rules***
- ***Multi-Region Deployments in AKS***

## 5. Monitoring and Logging in Kubernetes

- *Monitoring Cluster Health*
- *Prometheus and Grafana for Monitoring*
- *Logging with Fluentd and Elasticsearch*
- *Azure Monitor for Containers*
- *Troubleshooting and Debugging*
- *Advanced Monitoring and Observability*
- *Tracing with Jaeger and OpenTelemetry*
- *Kubernetes Audit Logging*
- *Container Security Scanning*
- *Advanced Debugging Techniques*

## 6. Continuous Integration and Continuous Deployment (CI/CD)

- *Setting up CI/CD Pipelines for Kubernetes*
- *Integrating with Azure DevOps and GitHub Actions*
- *Canary Deployments*
- *Blue-Green Deployments*
- *Rollback Strategies*
- *Managing Secrets in CI/CD Pipelines*
- *GitOps Best Practices*
- *Progressive Delivery in Kubernetes*
- *Advanced CI/CD Strategies*
- *Helm for Advanced Packaging and Versioning*

## **7Security in Kubernetes and AKS**

- ***RBAC (Role-Based Access Control) Pod***
- ***Security Policies***
- ***Network Policies***
- ***Azure Policy for AKS Security***
- ***Azure AD Integration with AKS***
- ***Azure Key Vault Integration***
- ***Advanced Secrets Management***
- ***Azure Policy for Security Governance***
- ***Advanced RBAC Scenarios***
- ***Kubernetes Security Best Practices***

## **8.Helm and Package Management**

- ***Introduction to Helm***
- ***Creating and Managing Helm Charts***
- ***Versioning and Dependency Management***
- ***Helm Repositories***
- ***Helm for Templating and Reusability***
- ***Helm Chart Testing***
- ***Helm Chart Promotion Strategies***
- ***Helm 3 Features and Changes***
- ***Helm Plugins and Extensions***
- ***Helmfile for Managing Helm Releases***

## **9.Hybrid Cloud and Multi-Cluster Deployments**

- **Azure Arc for Kubernetes**
- **Deploying Applications Across Multiple Clusters**
- **Federated Kubernetes and Kubeconfig Management**
- **Disaster Recovery Strategies**
- **Implementing GitOps with Flux**
- **Multi-Cloud Deployments with Kubernetes**
- **Kubernetes Federation v2**
- **Azure Arc Enabled Kubernetes Features**
- **Advanced Azure Arc Scenarios**
- **Multi-Tenancy in Kubernetes**

## **10.Advanced Networking in AKS**

- **Azure Virtual Network Integration**
- **Azure CNI (Container Network Interface)**
- **Calico and Network Policies**
- **Advanced Ingress Controller Configuration**
- **Service Mesh with Linkerd**
- **Traffic Splitting and Shadow Deployments**
- **Advanced Load Balancer Configurations**
- **Application Gateway Ingress Controller (AGIC)**
- **eBPF and Advanced Networking Features**
- **Network Security Best Practices**

## **11. Custom Resources and Operators**

- ***Custom Resource Definitions (CRDs) Deep Dive***
- ***Writing and Deploying Custom Operators***
- ***Operator Framework and SDKs***
- ***Managing Stateful Applications with Operators***
- ***Operator Lifecycle Management (OLM)***
- ***Advanced Operator Features***
- ***Helm vs. Operators***
- ***Operator Best Practices***
- ***Extending Kubernetes with Custom Resources***
- ***Case Studies of Successful Operator Implementations***

## **12. Storage and Persistent Volumes**

- ***Understanding Storage Classes***
- ***Configuring Persistent Volumes (PVs) and Persistent Volume Claims (PVCs)***
- ***Dynamic Provisioning in AKS***
- ***Azure Disks and Azure Files in AKS***
- ***Storage Performance Optimization***
- ***Snapshotting and Backups***
- ***Storage Encryption in AKS***
- ***Advanced Storage Scenarios***
- ***StatefulSets and Managing Stateful Applications***
- ***CSI (Container Storage Interface) in Kubernetes***

## **13. Azure Kubernetes Service Best Practices**

- ***AKS Cluster Design Best Practices***
- ***Node Pools and Scaling Strategies***
- ***Tuning AKS for Performance***
- ***AKS Security Best Practices***
- ***Cost Optimization Techniques***
- ***Azure AD Integration Best Practices***
- ***Monitoring and Logging Best Practices***
- ***Backup and Disaster Recovery Best Practices***
- ***Azure Policy for AKS Governance***
- ***Keeping AKS Up-to-Date with Updates and Upgrades***

# 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



## PLACEMENT ASSISTANCE TEAM



### PROJECT MENTORING

35 hours Live  
Mentoring in industry  
projects

### DOUBTS SESSIONS

Twice a week, Live  
doubts session from  
mentors and experts

### JOB COUNSELLING

Mapping your  
profile to suitable  
job role

### INTERVIEW QUESTIONS

Frequently asked  
interview questions  
course included

### ALUMNI CONNECT

Connect with  
successful Alumni to  
learn from experience

### RESUME SUPPORT

Personalized resume  
creation support from  
professionals

## 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



SELF STUDY

8 HRS/WEEK



++INSTRUCTOR PROJECT LIVE ONLINE CLASS

8 HRS/WEEK



4 HRS/WEEK

20 HOURS A WEEK COMMITMENT



AZURE IS RATED AS **THE TOP CAREER**  
HIGHEST PAID – RECESSION PROOF – MILLIONS OF JOBS



TAKE YOUR FIRST STEP TOWARDS AZURE CAREER

ENQUIRE NOW

# THANK you



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