



GCP ANSIBLE COURSE CONTENT

Post Graduate Certificate from Great
Lakes Executive Learning



Becoming a Cloud Architect in the IT industry is a strategic career choice driven by several compelling factors. Cloud computing has become a cornerstone of modern IT practices, leading to a surge in demand for professionals with expertise in cloud architecture. Cloud Architects play a pivotal role in digital transformation initiatives, designing and implementing scalable, secure, and innovative cloud solutions. Their diverse skill set encompasses infrastructure design, security, networking, and application architecture, making them invaluable assets for organizations seeking to optimize their cloud environments. Cloud Architects often work across multiple cloud platforms, such as AWS, Azure, or Google Cloud, providing versatility and adaptability. The high demand for these professionals translates to competitive salaries and global job opportunities. Additionally, Cloud Architects have the chance to work with cutting-edge technologies, contribute to sustainability efforts, and enjoy continuous learning opportunities in a field that is at the forefront of technological innovation. The role offers job security, stability, and the satisfaction of contributing to the efficiency and security of IT environments.





The Program helps you do grow and bloom in Industry and developed by best-in-class industry experts. It offers a blend of online learning with live and recorded lectures along with access to dedicated career support and rewarding job opportunities.

LEARN ONLINE ANYTIME, ANYWHERE

Learn from live masterclasses by top industry leaders and online lab sessions every week, along with 100+ hours of learning content.

WEEKLY ONLINE MENTORSHIP FROM EXPERTS

Get assistance on projects and reinforce the concepts you learn through weekly mentorship sessions.

NETWORK WITH LIKE-MINDED PEERS

Interact with peers from diverse backgrounds and

grow your professional network.

DEDICATED PROGRAM SUPPORT

Access dedicated support on your learning journey and resolve for all your queries with help from a dedicated Program Manager.



A fresh graduate or a working professional looking to up-skill and build a career.



LEARNING PLAN

GCP ANSIBLE COURSE CONTENT

Module 1 :Introduction to Google Cloud Platform and Ansible

- 1.1. Overview of GCP Services
- 1.2. Introduction to Ansible
- 1.3. Why Integrate GCP with Ansible

Module 2: Setting Up the Development Environment

- 2.1 Installing Ansible
- 2.2 GCP Account Setup
- 2.3 Installing GCP SDK
- 2.4 Authenticating with GCP

Module 3: Ansible Basics

- 3.1 Ansible Playbooks and Inventory

3.2 Ansible Modules

3.3 Ansible Variables and Facts

Module 4:Managing GCP Resources with Ansible

4.1 Provisioning VM Instances

4.2 Configuring Network and Firewall Rules

4.3 Managing Cloud Storage

4.4 Deploying Kubernetes on GCP

Module 5:Dynamic Inventories

5.1 Introduction to Dynamic Inventories

5.2 Writing Custom Dynamic Inventory Scripts for GCP

Module 6:Role-Based Configuration Management

6.1 Organizing Playbooks with Roles

6.2 Creating Custom Ansible Roles for GCP

Module 7:Securing Ansible and GCP

7.1 Best Practices for Ansible Security

7.2 Google Cloud Identity and Access Management (IAM)

Module 8: Advanced Topics

8.1 Ansible Vault for Secret Management

8.2 Ansible Tower/AWX for Automation Orchestration

8.3. Continuous Integration and Continuous Deployment (CI/CD) with Ansible and GCP

Module 9:Case Studies and Real-World Applications

9.1 Building a Highly Available Web Application

9.2 Infrastructure as Code (IaC) for GCP

Module 10: Troubleshooting and Debugging

10.1 Common Issues and Solutions

10.2 Debugging Ansible Playbooks

Module 11: Best Practices and Optimization

11.1 Performance Optimization

11.2 Scalability Considerations

Module 12: Final Project

12.1 Implementing a Complete GCP Infrastructure Using Ansible

12.2 Presentation and Evaluation of Projects

Module 13: Course Review and Next Steps

13.1 Recap of Key Concepts

13.2 Resources for Further Learning

13.3 Certification and Career Path Guidance



READY TO ADVANCE YOUR CAREER?

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