VIRAJE TECH

AZURE TERRAFORM

- Access to Interview Opportunities with Top Companies
- Industry-Relevant Curriculum Designed and Taught by Industry Experts
- Hands on Project and Industry Specific Tools
- Dedicated CareerSupport and Interview Preparation
- Post Graduate Certificatefrom Great Lakes Executive Learning

In the rapidly evolving landscape of the IT industry, choosing to undertake an Azure course holds numerous advantages for professionals and organizations alike. As one of the foremost cloud service providers globally, Azure has gained widespread recognition and is a preferred choice for businesses seeking robust cloud solutions. The integration of Azure with Microsoft technologies enhances its appeal, especially in environments heavily reliant on Windows Server, Active Directory, and .NET. A key strength of Azure lies in its diverse range of services, spanning computing, networking, databases, analytics, machine learning, and more. Professionals embarking on Azure training can build a versatile skill set applicable to a wide array of IT scenarios. Notably, Azure's strong focus on hybrid cloud solutions caters to organizations operating both on-premises and in the cloud, providing flexibility and scalability.In conclusion, opting for an Azure course presents an opportunity to acquire skills aligned with a leading cloud platform, empowering professionals to navigate the dynamic IT landscape with confidence and contributing to organizational success in an increasingly digital world.

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 industryleaders and online lab sessions every week, along with 100+ hours of learning content.

WEEKLY ONLINE MENTORSHIPFROM 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 backgroundsand grow your professional network.

DEDICATED PROGRAM SUPPORT

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

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

LEARNING PLAN

AZURE TERRAFORM

Module 1: Introduction to Azure and Terraform

1.1 Introduction to Azure Cloud

1.1.1 Azure services and offerings

1.1.2 Azure regions and availability zones

1.2 Introduction to Terraform

1.2.1 What is Infrastructure as Code (IaC)?

1.2.2 Terraform vs. other IaC tools

1.3 Setting up your development environment

1.3.1 Installing Terraform

1.3.2 Azure CLI installation and configuration

1.3.3 Authentication and access control

Module 2: Terraform Basics

2.1 Terraform Configuration Language (HCL)

2.1.1 Variables and data types

2.1.2 Resources and providers

2.1.3 Modules and templates

2.2 Creating your first Terraform configuration

2.2.1 Writing and validating HCL

2.2.2 Initializing and planning infrastructure

Module 3: Managing Azure Resources with Terraform

3.1 Azure Resource Providers in Terraform

3.1.1 AzureRM provider

3.1.2 AzureAD provider

3.2 Provisioning Azure Resources

3.2.1 Virtual machines

3.2.2 Storage accounts

3.2.3 Virtual networks

3.3 Resource Lifecycle Management

3.3.1 Creating, updating, and deleting resources

Module 4: Advanced Terraform Techniques

4.1 Terraform State Management

4.1.1 Remote state storage

4.1.2 Locking and concurrency

4.2 Working with Modules

4.2.1 Creating and using custom modules

4.2.2 Module variables and outputs

4.3 Terraform Workspaces

4.3.1 Environment isolation and management

4.3.2 State per workspace

Module 5: Best Practices and Collaboration

5.1 Terraform Code Organization

5.1.1 Folder structure

5.1.2 Naming conventions

5.2 Terraform Version Control

5.2.1 Git and version control workflows

5.2.2 Collaborative development

5.3 Terraform Continuous Integration/Continuous Deployment (CI/CD)

5.3.1 Azure DevOps integration

5.3.2 GitHub Actions for Terraform

Module 6: Terraform in Production

6.1 Scalability and High Availability

6.1.1 Load balancing

6.1.2 Auto-scaling

6.2 Monitoring and Logging

6.2.1 Azure Monitor

6.2.2 Application Insights

6.3 Infrastructure as Code Governance

6.3.1 Azure Policy and Blueprints

6.3.2 Role-based access control (RBAC)

Module 7: Terraform Troubleshooting and Optimization

7.1 Debugging Terraform Issues

7.1.1 Terraform commands for troubleshooting

7.1.2 Common error messages and resolutions

7.2 Performance Optimization

7.2.1 Reducing infrastructure costs

7.2.2 Optimizing Terraform execution times

Module 8: Case Studies and Real-World Projects

8.1 Building a Multi-Tier Web Application

8.2 Deploying a Microservices Architecture

8.3Infrastructure Migration to Azure with Terraform

Module 9: Certification and Conclusion

9.1Preparing for Azure and Terraform certifications

9.2 Course Conclusion and Next Steps

READY TO ADVANCE YOUR CAREER?

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