Infrastructure as Code in Microsoft Azure

HIGHLIGHTS

- **Master Terraform in Azure:** Dive deep into advanced techniques for Terraform with Azure.

- **Hands-On Lab Experience:** Build practical skills by implementing IaC in real-world scenarios.

- **Optimize Scalability and Maintainability:** Learn best practices to create robust infrastructure solutions.

- **Security & Compliance:** Gain insights into security measures and compliance best practices for Terraform in Azure.

- **Troubleshoot Performance:** Diagnose issues and optimize Terraform deployments.

ABOUT DAYMARK

Daymark Solutions excels in creating sophisticated technology solutions, specializing in addressing complex business challenges through expertly designed systems. Their highly skilled architects are adept at crafting well-architected solutions that seamlessly integrate cloud and data center technologies. By combining these technologies, they create robust, scalable and secure systems tailored to meet their clients' unique needs.

Enhance cloud management and deployment with Microsoft Azure and Terraform.

OVERVIEW

Enhance your IT team's proficiency in managing Azure infrastructure using Infrastructure as Code (IaC) with Terraform. This immersive workshop begins with foundational principles of Terraform in Azure, progressing to intermediate and advanced techniques for optimizing and automating infrastructure deployments.

Azure cloud infrastructure serves as the foundation for business applications and processes. As environments grow in size and complexity, managing them becomes increasingly challenging. Many IT departments are transitioning to IaC to improve operational efficiency. This workshop will cover essential topics, including installation, configuration, and basic commands, with hands-on exercises focused on creating and deploying basic Azure infrastructure as well as advanced Terraform concepts.

Participants will be introduced to the fundamentals of Terraform within Azure environments. This includes installation, configuration, and basic commands, along with practical exercises for creating and deploying Azure infrastructure. Additionally, participants will learn best practices for writing and managing Terraform code to enhance repeatability, scalability, and maintainability.

The workshop delves into advanced Terraform topics, including modules, state management, lifecycle management, and CI/CD integration. It will also cover security and compliance considerations, troubleshooting techniques, and optimization strategies for Terraform deployments in Azure.

LEARNING OBJECTIVES

At the completion of the engagement, participants will:

- Understand the fundamentals of Terraform and its importance in Azure environments.
- Gain practical skills in creating and deploying Azure infrastructure using Terraform.
- Learn advanced Terraform techniques for managing complex Azure infrastructure.
- Implement CI/CD pipelines for automated Terraform deployments in Azure.
- Ensure Terraform practices align with Azure's security and compliance standards.

AGENDA

Session 1: Introduction to Terraform in Azure.

- **Objective:** Establish a foundational understanding of Terraform's role in Azure environments and build essential skills for effectively deploying basic infrastructure.
- **Activites:**
  - Understanding the fundamentals of Terraform and its importance in Azure environments.
  - Hands-on exercises to create and deploy basic Azure infrastructure using Terraform in a lab environment.
  - Best practices for writing and managing Terraform code to enhance repeatability, scalability, and maintainability.
  - Develop basic Terraform skills to create and deploy Azure infrastructure.
  - Learn foundational best practices for managing Terraform code.

Session 2: Terraform Techniques in Azure.

- **Objective:** Advance your skills with Terraform in Azure by mastering complex infrastructure setups, automating via CI/CD pipelines, and ensuring secure, compliant deployments.
- **Activities:**
  - Implementing Terraform in CI/CD pipelines for automated infrastructure deployments.
  - Security and compliance considerations when using Terraform in Azure.
  - Troubleshooting and optimizing Terraform deployments in Azure.
  - Advanced Terraform techniques to manage complex Azure infrastructure.

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