

Training Topics – 1/2

Module Descriptions		
1	Infrastructure as Code (IaC) Intro	Understand what IaC is and why it's important.
2		Version control, collaboration, automation, etc with IaC.
3		Comparison with tools like Ansible, CloudFormation, etc
4	Terraform basic	How to install Terraform on various platforms
5		Basic syntax of HashiCorp Configuration Language (HCL)
6		Understand the lifecycle (write, plan, apply)
7		Common commands (terraform init, plan, apply, destroy, etc.)
8	Terraform Configuration and Infra deployment	Providers: What providers are, how to configure them, along with 1) Setting up and configuring providers 2) Writing or using community providers 3) Pinning provider versions
9		Resources: Define resources, their properties, and lifecycle.
10		Data Sources: Using data sources to query existing infrastructure.
11		Variables: Declaring and using variables, including types and validation.
12	Terraform State Management	Output Values: How to define and use outputs.
13		Read, Generate, Modify Configurations
14		State Management: Understanding Terraform state, remote state storage, and state file management.
15		Why Terraform uses state and how it manages it, including Best practices for managing state, and securing state files
16		Key components of the state file
17		How Terraform locks the state file to prevent conflicts
18		Using commands like terraform state list, show, mv, rm, etc
19		Configuring and using remote state backends (S3, Azure Blob, etc.)

Training Topics - 2/2

Module Descriptions		
20	Terraform Modules	Modules: Writing reusable modules, inputs, outputs, and module composition
21		Creating and calling modules along with managing versioning and best practices for organizing modules
22		Using the Terraform Registry and Git repositories as module source
23	Terraform Provisioners	Overview and types of Provisioners
24		Creation-Time, Destroy-Time provisioners
25		Remote-exec, local-exec provisioners
26		Failure handle in provisioners
27	Debugging and Troubleshooting	Understanding and using Terraform logs
28		Common issues and how to resolve them
29		Common error messages and their fixes
30	Advanced Terraform Features	Using dynamic blocks for complex configurations
31		Writing custom data sources in Terraform
32		Graphing
33		Terraform Cloud and Workspace concept
34	Terragrunt	Sentinel overview
35		Keep your terraform code DRY
		Work with multiple AWS accounts
		Debugging