

Terraform Course Content

Introduction of Terraform

- Introduction of Terraform
- Infrastructure Automation
- Install Terraform
- Providers
- Resources
- Basic Syntax
- Exercise: Your First Script main.tf

Getting Started with Terraform

- Terraform Plan, Show, Apply, Destroy
- Exploring Terraform Registry
- Interpolation
- Tainting & Updating Resources
- Terraform Console & Output
- Terraform Variables
- Breaking Out Our Variables & Output
- Lab exercise: Breaking Down main.tf into variables.tf, output.tf

Terraform Modules

- Introduction to modules
- Modules repositories
- First Basic Modules
- The module codes
- Main Terraform Code
- Lab Exercise: Modules of Docker
- Lab Exercise: The Docker image module
- Lab Exercise: Modules the Container module
- Lab Exercise: The Root module

Terraform: Writing in a more organized way

- Maps & Lookups
- Terraform Workspaces
- Breaking Out Our Variables Definitions
- Null Resources and Local-Exec
- Terraform Console

Terraform

- Remote State
- Data Sources
- Templates
- Conditionals
- Built-in Function
- Working with states files
- Outputs, count and Join Function

Terraform Integration

- Adding S3 Backend
- Integration with GIT
- Packer Introduction
- Terraform with Packer
- Terraform with Jenkins
- Terraform Formatting and Remote State
- Terraform

Terraform Troubleshooting & Testing

- Terraform Plan revisited
- Debugging the script
- Terraform Testing
- Lab: Writing test scripts for Terraform
- Lab: Testing with Docker

Extending Terraform

- Terraform with Azure & AWS Cloud
- Terraform Templates
- Terraform Plugins
- Integrating Go Plugins

Terraform Best Practices

- Best practices in writing terraform scripts
- Terraform Workflows
- Terraform Projects
- Other Hashicorp Tools
- New Features of Terraform

IT - Tower

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