Chapter1: Introduction to Terraform

* What is terraform?
* What problem it solves?
* How to install terraform?

Chapter2: Making hand Darity with terraform

* Provider: Terraform providers help in creating infrastructure in Cloud/Hypervisors or other types. Each Providers will have Resource Types and DataSources Added
* Resource: This represents the infrastructure element which you want to create.
* Argument: Inputs passed to the Resource are referred as arguments
* Attribute: Outputs are referred as Attributes
* DataSource: Terraform allows to fetch information from provider by a special kind of resource called as Data Source
* EC2 creation with Terraform.
* Terraform init, apply and validate.

Chapter3: Deep drive into terraform init

What is Terraform init, and how it works? The terraform init command initializes a working directory containing Terraform configuration files.It download executable file.

Chapter4: Passing runtime argument with terraform. terraform apply -var="ntier\_cidr=192.168.0.0/16" -var='ntier\_subnet\_cidrs=[\"192.168.0.0/24\", \"192.168.1.0/24\", \"192.168.2.0/24\"]'

Chapter5: Terraform loop

Chapter6: Terraform statefile, console and graph

Chapter7: taint and untaint in terraform Terraform has a taint command that informs terraform that a particular object has become degraded or damaged and during the next execution of terraform replace it.

Chapter8: Terraform module’s

Chapter9: Terraform provisioning and null resource.

Chapter10: **Terraform Backend:** A backend defines where terraform stores its state data files.

Chapter11: Packer

Convergence and idempotence behavior:

In convergence approach we focus on desire state from current state.

Idempotence: it’s like if we run same command multiple time, it will not impact anything.