

Terraform: Navigate Terraform workflow

- > Section 6 : Navigate Terraform workflow
  - ➤ Describe Terraform workflow
  - ➤ Initialize a Terraform working directory
  - ➤ Validate a Terraform configuration
  - ➤ Generate and Review an execution plan for Terraform
  - ➤ Execute changes to Infrastructure with Terraform
  - Destroy Terraform managed Infrastructure

- ➤ Describe Terraform workflow:
- ➤ Terraform workflow have 3 Steps:
  - ➤ Write
  - > Plan
  - Apply
- > Write Write Terraform configuration just like you write code.
- Plan Preview changes before applying.
- ➤ Apply Provision reproducible infrastructure.

- ➤ Initialize a Terraform working directory :
- ➤ terraform init command is used to initialize a working directory containing Terraform configuration files.
- ➤ This is the first command that should be run after writing a new Terraform configuration or cloning an existing configuration.
- ➤ Terraform init initialize the backend.
- ➤ Initialisation search for modules in configuration files, and install child modules.
- ➤ Download the Plugins.

- ➤ Validate a Terraform configuration :
- ➤ terraform validate command validates the configuration files in a directory.
- ➤ Validate runs checks that verify whether a configuration is syntactically valid and internally consistent.
- terraform validate -json : Produce output in a machinereadable JSON format.

- ➤ Generate and Review an execution plan for Terraform :
- > terraform plan command is used to create an execution plan.
- ➤ This command is a convenient way to check whether the execution plan for a set of changes matches your expectations without making any changes to real resources or to the state.
- ➤ The optional -out argument can be used to save the generated plan to a file for later execution with terraform apply.

- ➤ Execute changes to infrastructure with Terraform :
- ➤ terraform apply command is used to apply the changes required to reach the desired state of the configuration, or the pre-determined set of actions generated by a terraform plan execution plan.

- Destroy Terraform managed Infrastructure :
- ➤ The terraform destroy command is used to destroy the Terraform-managed infrastructure.
- terraform destroy -auto-approve : Destroy confirmation will not be shown.

### Will see you in Next Lecture...

