

# Terraform Day-to-Day Commands and Essential Commands for DevOps

## Day-to-Day Terraform Commands

**terraform init:** Initializes a new or existing Terraform configuration. This command is used to prepare the environment.

**terraform plan:** Creates an execution plan, showing what actions Terraform will take when applying a configuration.

**terraform apply:** Applies the changes required to reach the desired state of the configuration.

**terraform destroy:** Destroys all resources managed by the Terraform configuration.

**terraform validate:** Validates the Terraform configuration files.

**terraform fmt:** Formats Terraform configuration files to a standard format.

**terraform state list:** Lists the resources managed in the current state.

**terraform state show:** Shows detailed information about a specific resource in the Terraform state.

## Essential Commands for DevOps

**terraform output:** Displays the values of output variables from your state file.

**terraform taint:** Marks a resource for recreation in the next 'terraform apply'.

**terraform import:** Imports an existing resource into Terraform's state management.

**terraform graph:** Outputs a visualization of the configuration dependencies.

**terraform workspace new:** Creates a new Terraform workspace for separate environments.

## Conclusion

These Terraform commands are essential for day-to-day management of cloud infrastructure. By using these commands, DevOps engineers can automate, manage, and track the deployment of infrastructure as code. They provide flexibility and control, helping maintain a well-organized infrastructure setup.