**What is Terragrunt?**

Terragrunt is a thin wrapper around Terraform that helps manage and maintain Terraform configurations efficiently. It provides features such as:

* **DRY (Don't Repeat Yourself):** Keeps Terraform code modular and reusable.
* **Remote State Management:** Helps store Terraform state in a backend (e.g., S3).
* **Managing Dependencies:** Simplifies managing multiple Terraform modules.
* **Environment-Specific Configurations:** Supports different configurations for dev, staging, and production.

**Creating an S3 Bucket and IAM User Using Terragrunt:**

We'll use **Terragrunt** to create:

1. An **S3 bucket** to store Terraform state.
2. An **IAM user** named murali with access to the bucket.

# Install Terraform

curl -fsSL https://apt.releases.hashicorp.com/gpg | sudo gpg --dearmor -o /usr/share/keyrings/hashicorp-archive-keyring.gpg

echo "deb [signed-by=/usr/share/keyrings/hashicorp-archive-keyring.gpg] https://apt.releases.hashicorp.com $(lsb\_release -cs) main" | sudo tee /etc/apt/sources.list.d/hashicorp.list

sudo apt update && sudo apt install terraform -y

# Install Terragrunt

curl -L https://github.com/gruntwork-io/terragrunt/releases/latest/download/terragrunt\_linux\_amd64 -o terragrunt

chmod +x terragrunt

sudo mv terragrunt /usr/local/bin/