# Modular Terraform Repository Design

## 1. Overview

This Terraform repository design supports:  
- Multiple companies (tenants)  
- Multiple environments per company (e.g., Dev, Staging, Production)  
- Multiple cloud providers (AWS and GCP)  
- Modular structure with shared and reusable components  
- Independent environment management per tenant

## 2. Repository Structure

terraform-infra/

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├── modules/ # Reusable cloud modules

│ ├── gcp/

│ │ └── gke\_cluster/ # Your existing module

│ │ ├── main.tf

│ │ ├── variables.tf

│ │ ├── output.tf

│ │ └── README.docx

│ └── aws/

│ └── eks\_cluster/ # Placeholder for AWS support

│ └── README.docx

│

├── tenants/ # Companies using the infra

│ ├── company-a/

│ │ ├── README.docx # Docs about company setup

│ │ └── environments/

│ │ ├── staging/

│ │ │ ├── main.tf # Former production.tf

│ │ │ ├── provider.tf # Former provider.tf

│ │ │ ├── variables.tf # Former variables.tf

│ │ │ ├── terraform.tfvars # Former terraform.tfvars

│ │ │ └── README.docx

│ │ └── production/

│ │ ├── main.tf # Same structure for prod

│ │ ├── provider.tf

│ │ ├── variables.tf

│ │ ├── terraform.tfvars

│ │ └── README.docx

│ └── company-b/

│ ├── README.docx

│ └── environments/

│ ├── dev/

│ └── production/

│

└── README.docx