# 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/

├── modules/ # Reusable cloud modules

│ ├── gcp/

│ │ ├── gke\_cluster/

│ │ ├── postgres/

│ │ ├── tls\_ingress/

│ │ └── monitoring\_stack/

│ ├── aws/

│ │ ├── eks\_cluster/

│ │ └── s3/

│ └── k8s/

│ ├── namespaces/

│ ├── services/

│ └── ingress/

│

├── tenants/ # Per-tenant infra setup

│ ├── company-a/

│ │ ├── README.docx

│ │ ├── environments/

│ │ │ ├── dev/

│ │ │ │ ├── main.tf

│ │ │ │ ├── terraform.tfvars

│ │ │ │ ├── provider.tf

│ │└── README.docx