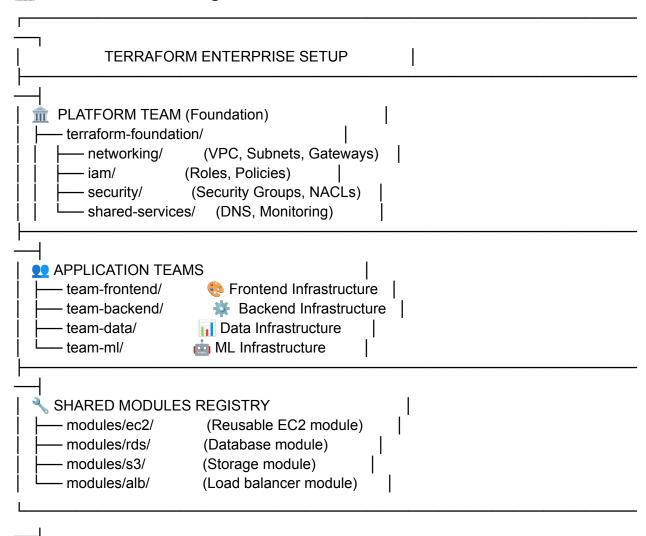
The Architecture Diagram:



Real-World Example: Netflix/Uber Style Structure

1. Platform Team (The Foundation Builders) 📆

```
hcl
# terraform-foundation/networking/main.tf
module "vpc" {
   source = "../../modules/vpc"

   vpc_cidr = "10.0.0.0/16"
```

```
environment = var.environment
 # Output for other teams to consume
# Outputs shared across organization
output "vpc id" {
value = module.vpc.vpc_id
2. Application Teams (The Feature Builders) 🌉
hcl
# team-backend/main.tf
data "terraform_remote_state" "foundation" {
 backend = "s3"
 config = {
  bucket = "company-terraform-state"
  key = "foundation/networking/terraform.tfstate"
 }
module "backend_infrastructure" {
 source = "../modules/ec2"
 # Using foundation team's outputs
 vpc id = data.terraform remote state.foundation.outputs.vpc id
 subnet_id = data.terraform_remote_state.foundation.outputs.private_subnet_id
```

Key Strategies That Impressed Them:

1. Remote State Management

- Each team has separate state files
- Foundation team provides "golden" outputs
- No state file conflicts!

2. Module Registry Pattern

├── alb/ ← Load balancer with security
└── monitoring/ ← Standard observability

3. Workspace Separation

bash

Platform Team

terraform workspace select foundation-prod terraform workspace select foundation-staging

Application Teams

terraform workspace select backend-prod terraform workspace select frontend-staging

✓ 4. CI/CD Pipeline Governance

yaml

.github/workflows/terraform.yml

- name: Terraform Planif: github.event name == 'pull request'

- name: Terraform Apply
if: github.ref == 'refs/heads/main'

Only platform team can modify foundation

The Secret Sauce:

RBAC (Role-Based Access Control):

- Platform Team: Full access to foundation
- App Teams: Only their resources + read foundation outputs
- Security Team: Policy enforcement across all

Standards & Governance:

- Mandatory module usage for security compliance
- Standardized tagging and naming conventions
- Automated policy checks with Sentinel/OPA

🎉 Interview Result:

"This is exactly how we structure our Terraform at our organization. You clearly under enterprise-scale infrastructure!"	rstand