AWS Infrastructure Provisioning with Terraform

As part of my initial tasks in my security engineering internship, I was responsible for provisioning AWS resources using Terraform. Our objective was to establish foundational infrastructure to support Terraform migration efforts within the organization.

I worked on building key AWS components, including:

- **NAT Gateway** – To enable secure outbound traffic from private subnets.
- **VPC Endpoints** – To establish secure and private connectivity to AWS services without traversing the public internet.
- **S3 Buckets** – Configured for data storage and access management, forming a crucial part of our infrastructure.
- **KMS Keys** – Used for encryption and security compliance across AWS resources.
- **SSM Parameters** – Stored configuration values and secrets to streamline infrastructure management and automation.

Through this process, I gained hands-on experience in infrastructure-as-code (IaC) practices, ensuring resources were provisioned efficiently, securely, and in compliance with best practices. This foundational work set the stage for further Terraform migration and optimization within the environment.