Part 1: Introduction to EKS and Terraform

"Before we dive into the hands-on part, let's quickly understand what EKS and Terraform are.

EKS is a managed Kubernetes service provided by AWS, which makes it easy to run Kubernetes without needing to install and operate your own Kubernetes control plane or nodes.

Terraform, on the other hand, is an open-source infrastructure as code (IaC) tool that enables you to define and provision infrastructure using a high-level configuration language."

Part 2: Prerequisites

"To follow along with this tutorial, you'll need the following:

1. An AWS account.
2. AWS CLI installed and configured on local -
3. Terraform installed local .
4. kubectl installed.
5. A text editor of your choice."

Part 3: Setting Up Your Terraform Project

Let's start by creating a new directory for our Terraform project and initializing it.

mkdir eks-terraform

cd eks-terraform

terraform init

Part 4: Writing the Terraform Configuration Files

Part 5: Applying the Configuration

terraform apply

Part 6: Configuring kubectl

Once the cluster is up and running, we need to configure kubectl to connect to our EKS cluster."

aws eks --region us-west-2 update-kubeconfig --name my-eks-cluster

"Now, we can use kubectl to interact with our EKS cluster."