### **Project 01**

### **Deploying a Node.js App Using Minikube Kubernetes**

#### **Overview**

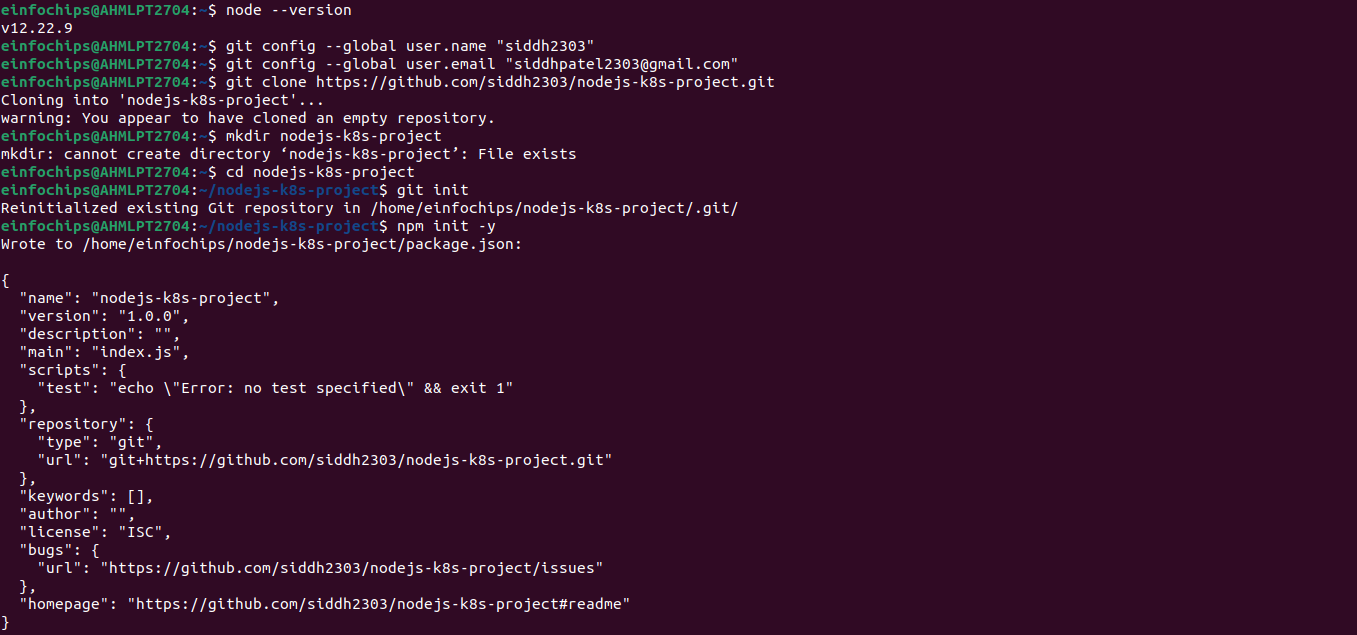
This project guides you through deploying a Node.js application using Minikube Kubernetes. You'll use Git for version control, explore branching and fast-forward merges, and set up Kubernetes services and deployment pods, including ClusterIP and NodePort service types.

#### **Prerequisites**

* Minikube installed
* kubectl installed
* Git installed
* Node.js installed ([https://nodejs.org/en/download/package-manager/all#debian-and-ubuntu-based-linux-distributions](https://nodejs.org/en/download/package-manager/all" \l "debian-and-ubuntu-based-linux-distributions))

#### **Project Steps**

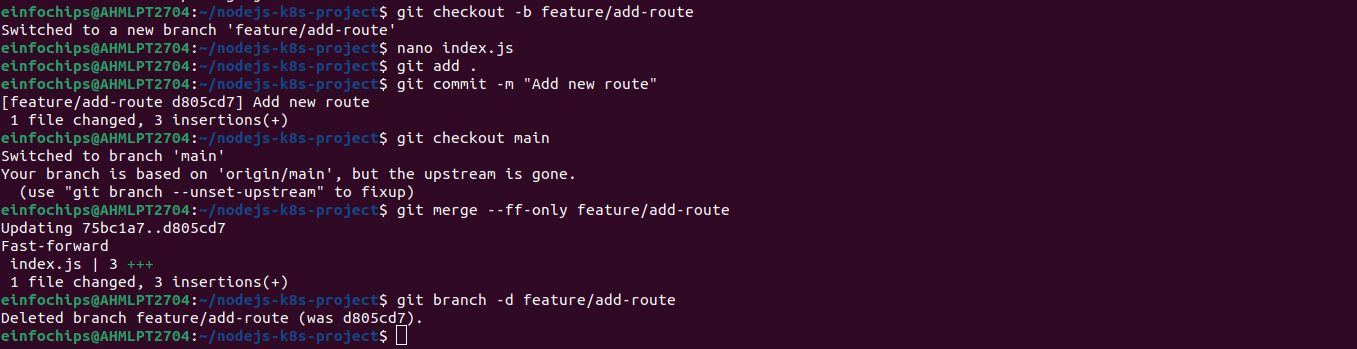
### **1. Set Up Git Version Control**

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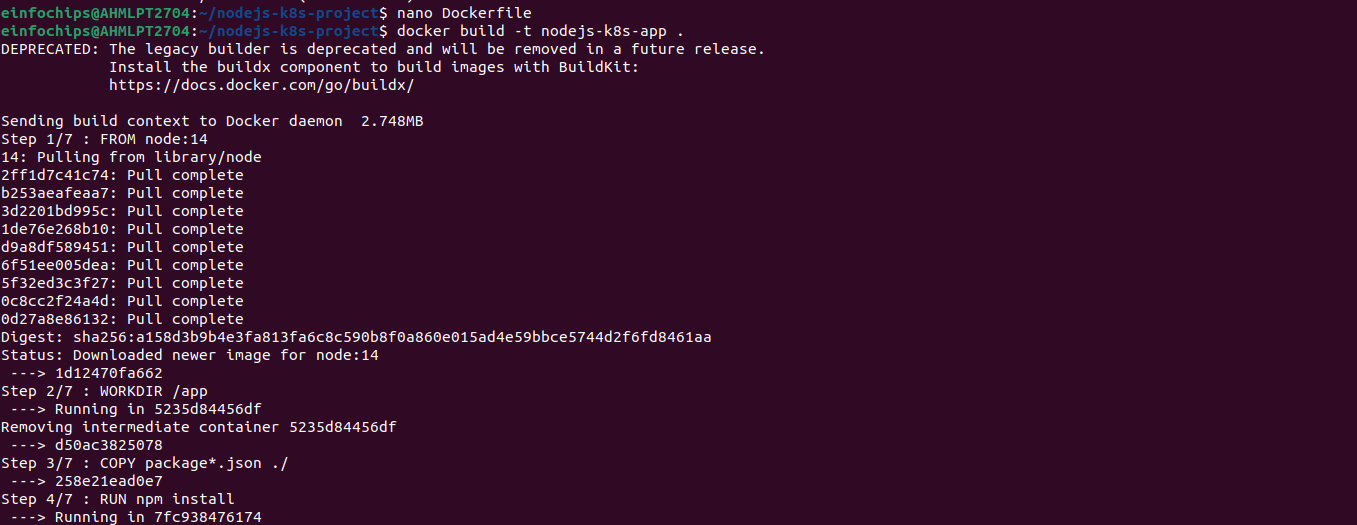
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### **2. Branching and Fast-Forward Merge**

**2.1. Create a New Branch**

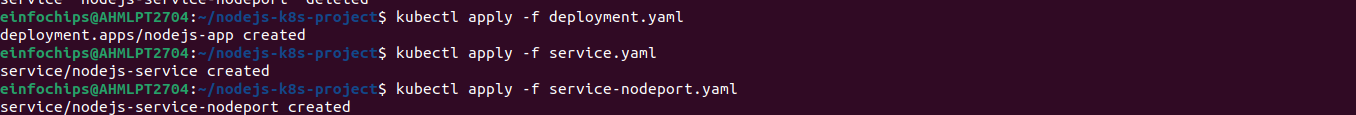


### **3. Containerize the Node.js Application**

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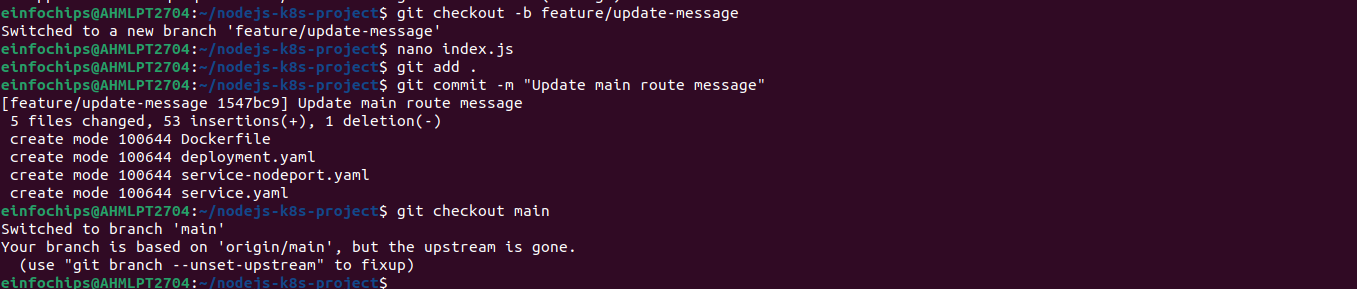
### **4. Deploying to Minikube Kubernetes**

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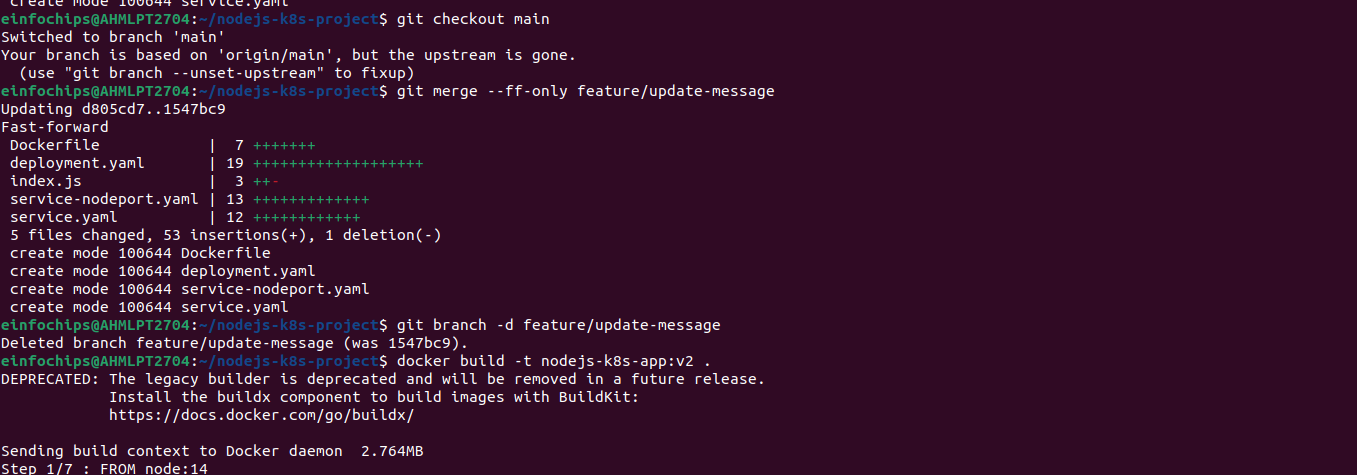
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### **Making Changes to the App and Redeploying Using Kubernetes**

### **6. Making Changes to the Node.js Application**

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### **7. Merge the Changes and Rebuild the Docker Image**

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**Project 02**

### **Deploying a Python Flask App Using Minikube Kubernetes**

#### **Overview**

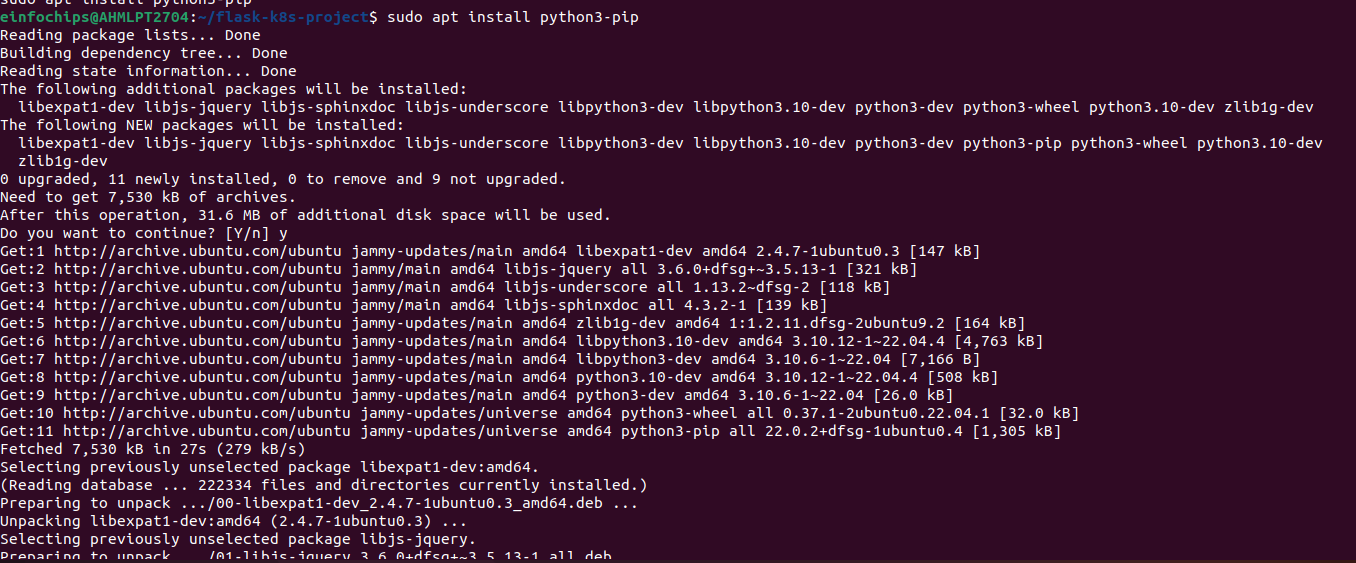
This project guides you through deploying a Python Flask application using Minikube Kubernetes. You'll use Git for version control, explore branching and fast-forward merges, and set up Kubernetes services and deployment pods, including ClusterIP and NodePort service types.

#### **Prerequisites**

* Minikube installed
* kubectl installed
* Git installed
* Python installed

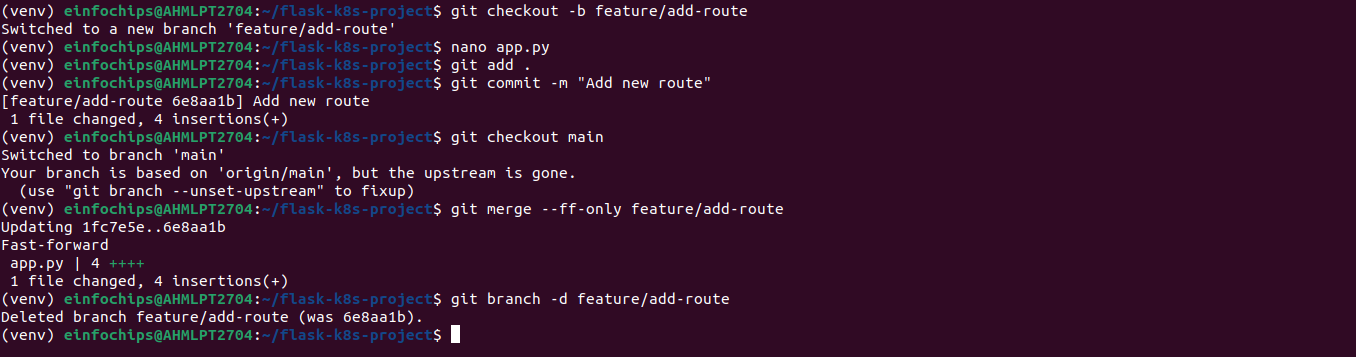
#### **Project Steps**

### **1. Set Up Git Version Control**

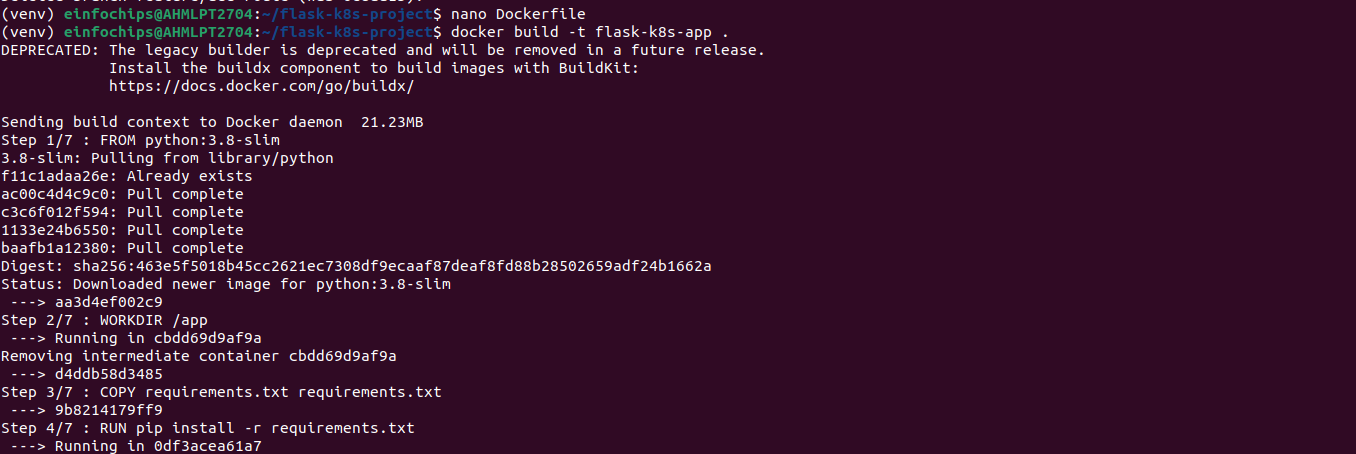
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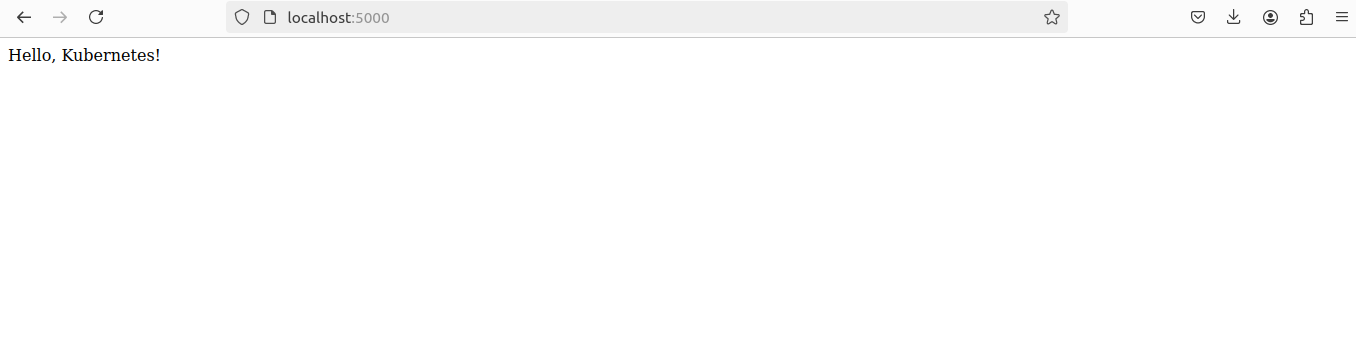
### **2. Branching and Fast-Forward Merge**

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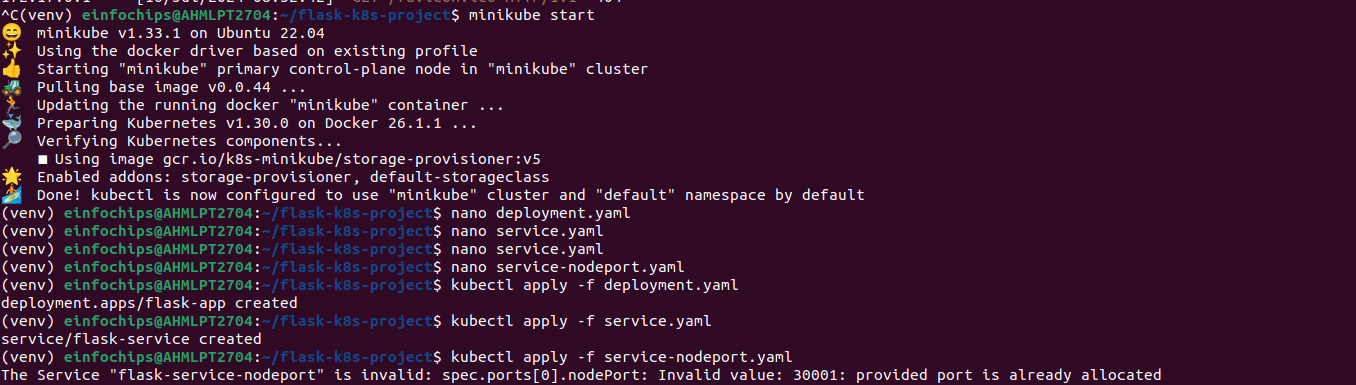
### **3. Containerize the Flask Application**

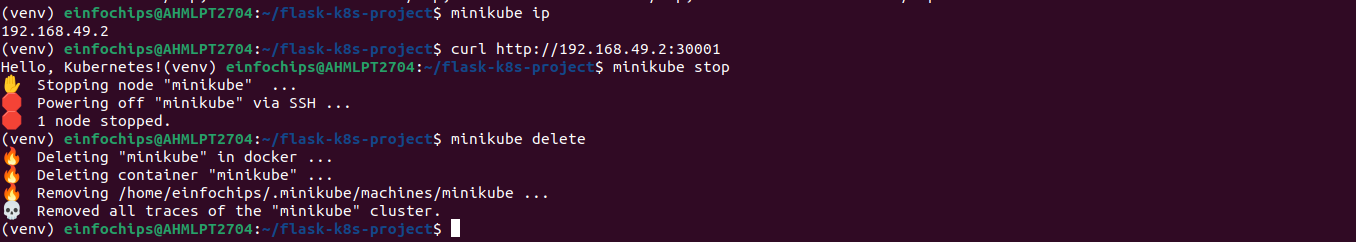
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### **4. Deploying to Minikube Kubernetes**

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### **6. Making Changes to the Flask Application**

