**how to deploy nginx web server in minikube on centos 7**

To deploy the nginx server in Minikube on CentOS 7, you need to create a Kubernetes Deployment manifest that describes the desired state of the application. Here's a step-by-step guide to deploying nginx:

1. Start Minikube (if not already running):

**minikube start**

1. Create a file named **nginx-deployment.yaml** and paste the following content into it:

**apiVersion: apps/v1**

**kind: Deployment**

**metadata:**

**name: nginx-deployment**

**labels:**

**app: nginx**

**spec:**

**replicas: 3**

**selector:**

**matchLabels:**

**app: nginx**

**template:**

**metadata:**

**labels:**

**app: nginx**

**spec:**

**containers:**

**- name: nginx**

**image: nginx:1.14.2**

**ports:**

**- containerPort: 80**

This YAML manifest defines a Deployment with a 3 replica running nginx container, exposing port 80.

1. Apply the Deployment to Minikube:

**kubectl apply -f nginx-deployment.yml**

1. Check the status of the Deployment:

**kubectl get deployments**

1. Expose the Deployment as a service:

**kubectl expose deployment nginx-deployment --type=NodePort --port=80**

1. Get the NodePort assigned to the service:

**kubectl get service nginx-deployment**

Look for the "80:<NodePort>/TCP" entry. The NodePort value will be dynamically assigned.

1. Access the httpd web server:

To access the httpd web server running in Minikube, you need to find the IP address of the Minikube cluster:

**minikube ip**

Now, open a web browser and enter the following address:

**http://<minikube-ip>:<NodePort>**

Replace **<minikube-ip>** with the output of **minikube ip**, and **<NodePort>** with the value obtained from

**kubectl get service nginx-deployment**

You should see the default nginx server page indicating that nginx has been successfully deployed in Minikube.