

Case Study 4

1. Set up kubeconfig -
mkdir -p \$HOME/.kube
sudo cp -i /etc/kubernetes/admin.conf \$HOME/.kube/config
(Provide root ownership, if not provided)
2. Install a Pod overlay Network -
kubectl apply -f
<https://raw.githubusercontent.com/coreos/flannel/master/Documentation/kube-flannel.yml>
3. Initialize the cluster -
kubeadm init --pod-network-cidr=<Any-Subnet-Gateway-IP>/16
4. On worker nodes, join them to the cluster using the command provided by **kubeadm init**.
5. Verify kubectl Setup -
kubectl get nodes
6. Deploy a pod -
kubectl run my-k8s-app --port=80
--image=<registry_name>/<application-image>:version
7. Expose only within the cluster -
kubectl expose pod my-k8s-app --type=ClusterIP --port=80 --target-port=80
8. Verify the created service -
kubectl get services