**ASSIGNMENT – 1**

**KUBERNETES**

**DONE BY  
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**Tasks To Be Performed:**

1. Deploy a Kubernetes cluster for 3 nodes

2. Create a NGINX deployment of 3 replicas

**STEPS:**

1. Create 3 EC2 instances

2. Install docker in Kubernetes in the instances

3. Create a install.sh file and add the commands and run as a script using **bash install.sh**

4. Create and execute this file in 2 slave machines

5. Run **sudo kubeadm init** command in master. This will create a token

6. Copy the token generated in the master and past it in the slave servers to make a connection between master and slave servers.

7. Use the commands

* 7. mkdir -p $HOME/.kube
* sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
* sudo chown $(id -u):$(id -g) $HOME/.kube/config
* kubectl apply -f <https://github.com/weaveworks/weave/releases/download/v2.8.1/weave-daemonset-k8s.yaml>
* kubectl get nodes

8. Write a yaml file in the name nginx-deployment.yaml

9. Use the command **kubectl apply -f “file name”**

10. Use the command **kubectl get deployments**  will display the deployments

11. Use the command **kubectl get nodes**  will display all the nodes in the cluster



















