Minikube setups

- Kubernetes should really be able to run **anywhere**
- But, there are more **integration** for certain cloud providers, like AWS & GCE
  - Things like **Volumes** and **External Load Balancers** work only with supported Cloud Providers
- I will first use **minikube** to quickly spin up a local single machine with a Kubernetes cluster
- I'll then show you how to spin up a multi-node cluster

- Later : AWS using Kops***

Kubernetes setups

- Doing the lab yourself is possible (and highly recommended):
  - You can use AWS Free tier account for the same.
  - Using your local machine
    - https://github.com/kubernetes/minikube

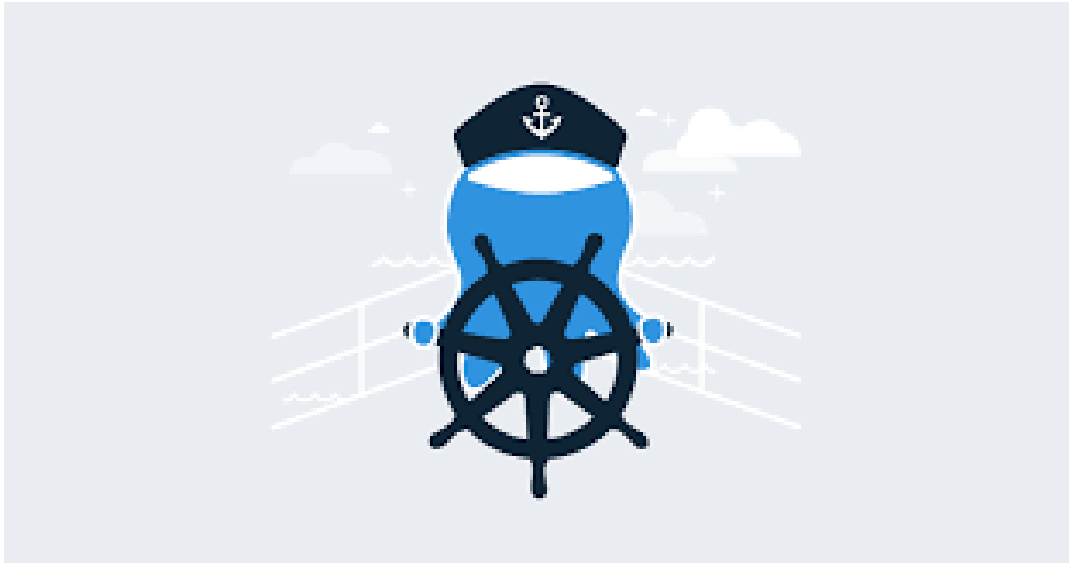
Minikube setups

- It works on Windows, Linux and MacOS
- You will need Virtualization Software installed to run Minikube:
  - VirtualBox is freeware
- You can download minikube from

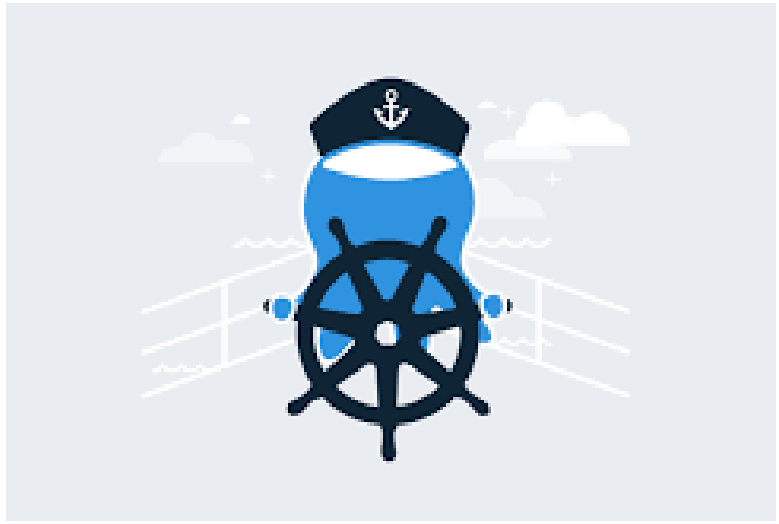
  https://github.com/kubernetes/minikube

```
.\minikube.exe start --vm-driver="virtualbox"
```

Kubernetes setup with 3 Node cluster

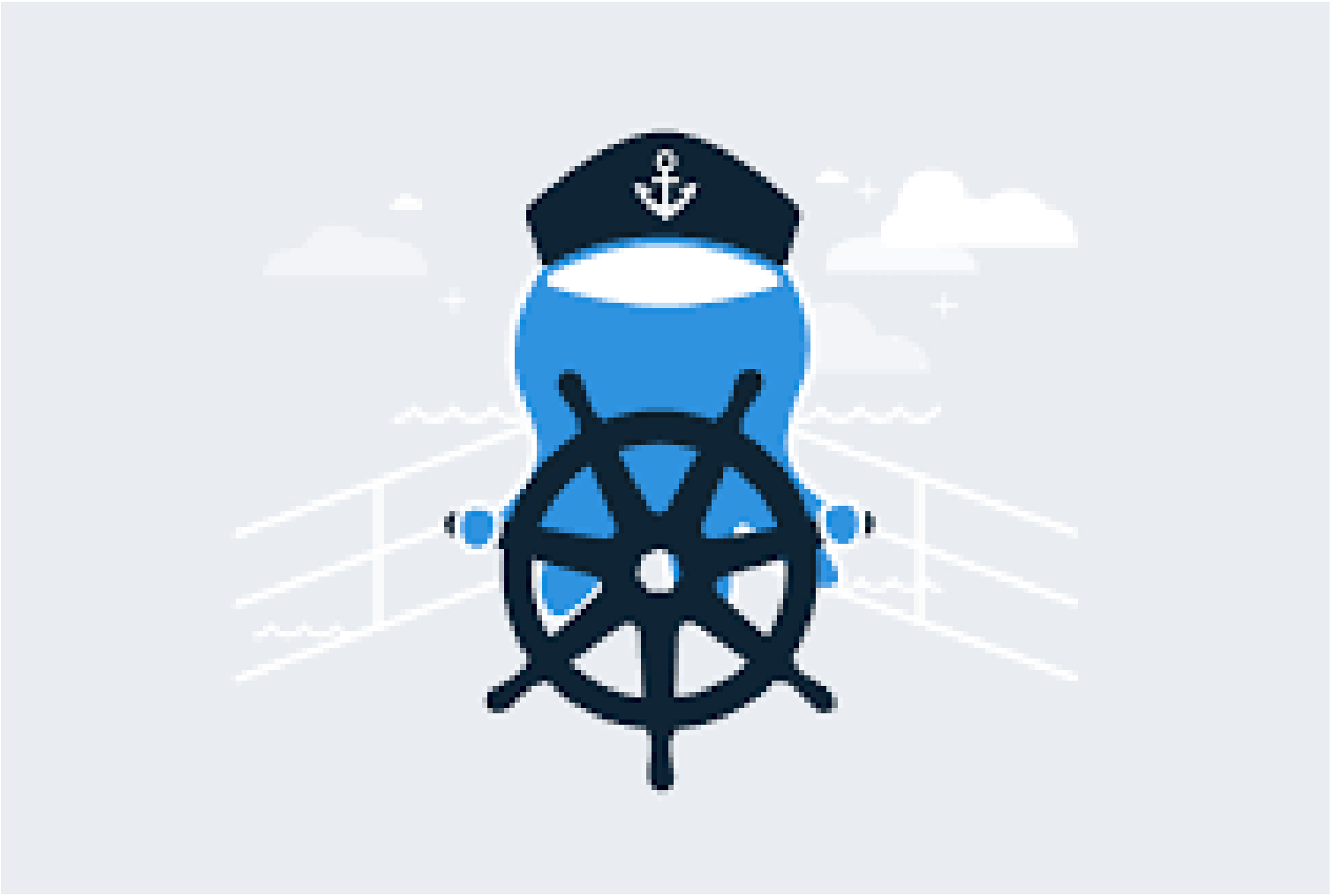


- CENTOS 7.5 = 6 GB Memory - 4 CPU on Each machine
- Master = 192.168.1.70
- Node1 = 192.168.1.72
- Node2 = 192.168.1.73
- Node3 = 192.168.1.74



Kubernetes setup Steps

- https://github.com/MohanRamadoss/kubernetes/tree/master/LAB



DEMO

THANK
YOU!