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Advance DevOps lab

Experiment 3

Aim-

To understand the Kubernetes Cluster Architecture, install and spin up a kubernetes cluster on linux machines / cloud platforms.

Theory-

Kubernetes is a software that automatically manages, scales and maintains multi-container workloads in desired states.

Modern software is increasingly run as fleets of containers called as microservices.

Features of kubernetes:

1) Standard services like local DNS and basic load balancing that most applications need, and are easy to use
2) Standard behaviors (restart container if it dies) that are easy to invoke and do most of the work to keep containers running, available and performant.
3) A standard API that applications can call to easily enable more sophisticated behaviors, making it much easier to create applications that manage other applications.

Conclusion -

Thus we have successfully install and spin up a Kubernetes cluster. on linux / cloud machine.