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Multi-cloud solutions

A beginner's guide Kubernetes



Kubernetes is an open-source platform for managing **containerized applications** across multiple nodes or clusters.





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Kubernetes uses a declarative approach to define the desired state of your application using **YAML** or **JSON** files.



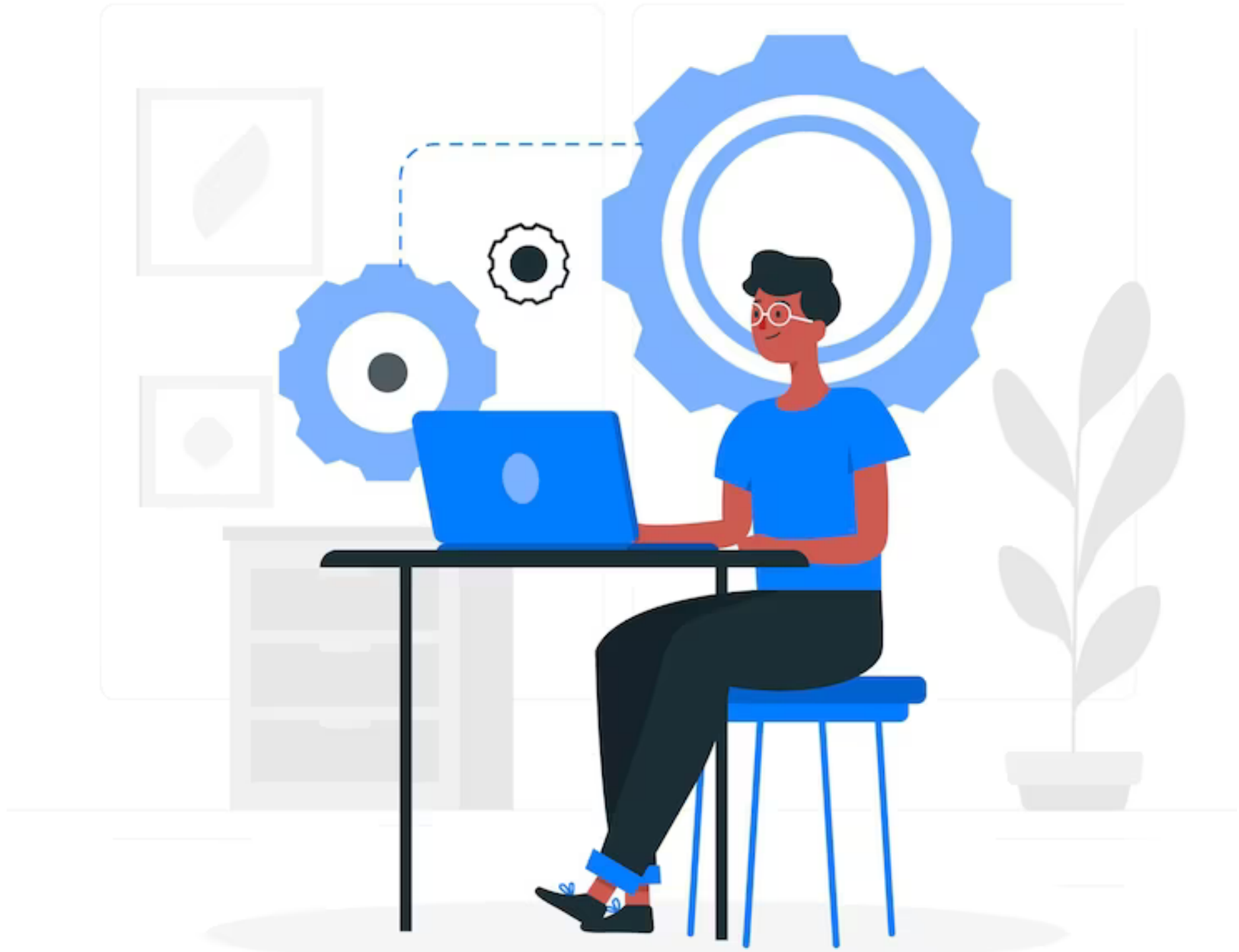
Kubernetes consists of a **master node** that controls the cluster and worker nodes that run the containers.



Kubernetes uses pods as the **basic unit of deployment**. A pod is a group of one or more containers that share the same network and storage resources.



Kubernetes uses services to **expose your pods to other pods** or external clients. It defines a logical set of pods and a policy to access them.



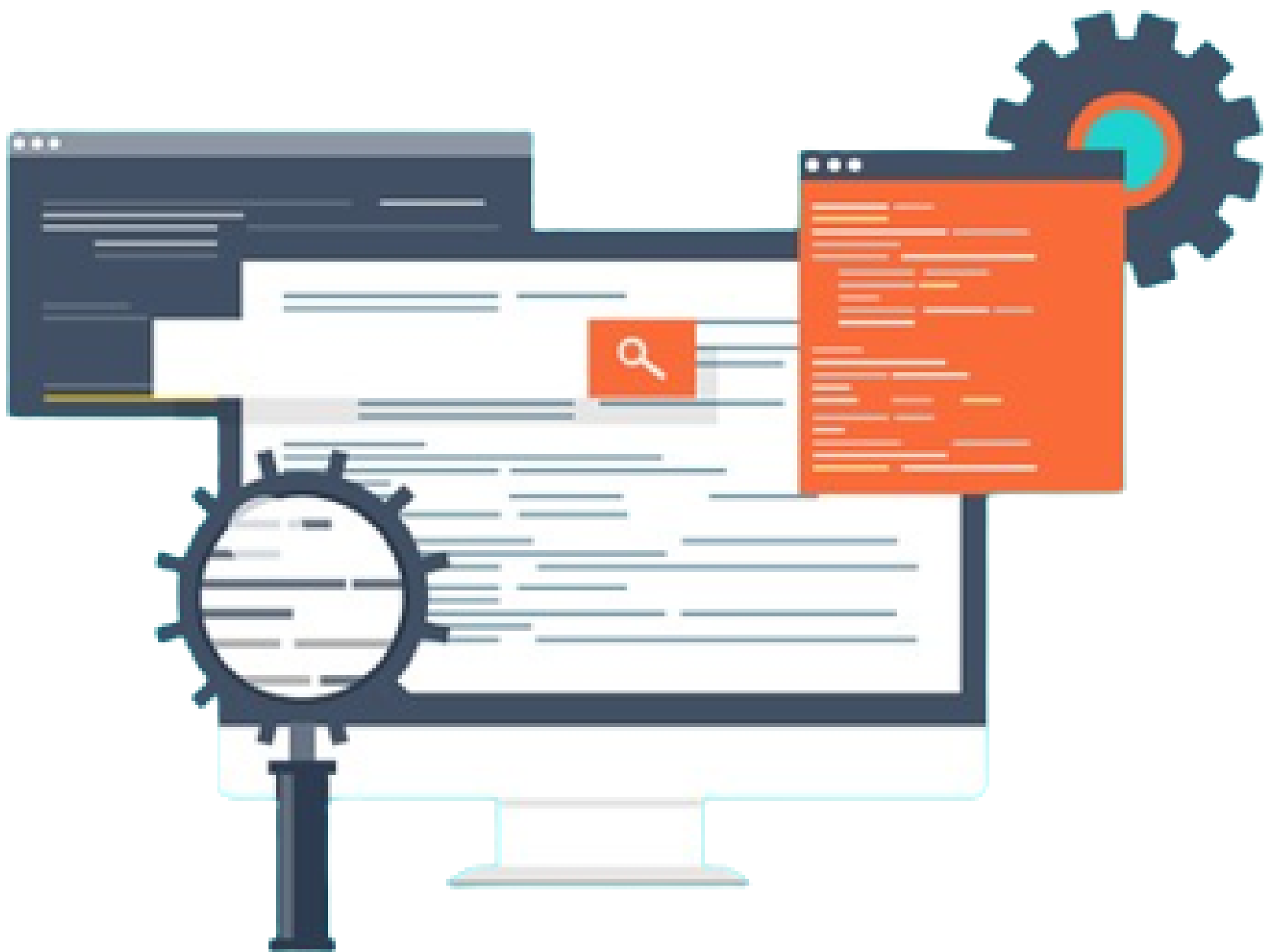
Kubernetes uses **deployments** to manage the lifecycle of your pods.



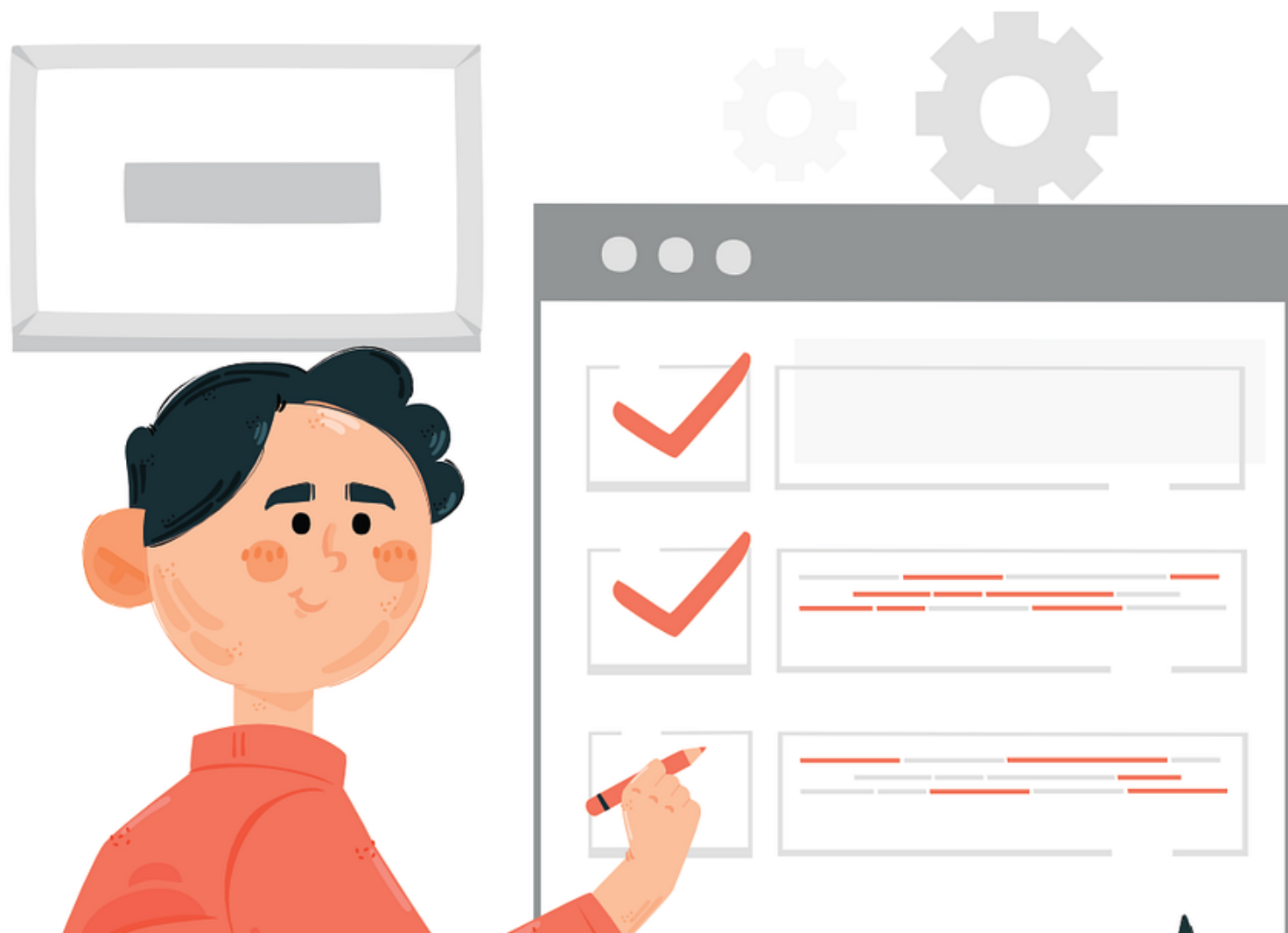
Kubernetes uses volumes to provide **persistent storage** for your pods. A volume is an object that mounts a storage device or a network resource to a pod.



Kubernetes uses **various tools and components** to enhance its functionality, such as Helm, Istio, Prometheus, etc.



Kubernetes offers many **benefits**, such as high availability, scalability, load balancing, service discovery, etc.



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