Why we should use Kubernetes?

* Kubernetes defines its own way to deploy and manage application so that you can reuse that knowledge when switching from on-premise to cloud or moving from one cloud provider to another.  
  E.g: Imagine that you are using AWS as your cloud provider. One day, you don’t want to use it anymore because it is really expensive. You have a plan to switch to another cloud provider, if you don’t use Kubernetes, everything is really hard and it requires you to change a lot.

Note: cái này Rancher có thể solve dc, nên a cẩn thận khi nói ý này nhé

* It is integrated with lots of cloud providers: GCP, AWS, Azure, Digital Ocean with supporting registries

E.g: EKS - EKR, AKS - AKR, GKE – GCR, …

* Kubernetes wraps containers in a pod so that your application can be run as a unit application or you can monitor your application easily and efficiently.

E.g: application behind a proxy, monitor log files

* Kubernetes allow you to customize your deployment. It is really useful for complex application require any condition

E.g: You have a mongo database, you need to deploy that database but have some pre or post step conditions.

* Kubernetes provides the way to do health check-up your application to know when a container is ready to start accepting traffic. It will ensure that your application will be up and running. This can help us to reach absolutely the zero down-time
* Kubernetes supports ingresses, it works like a reverse proxy to route your request. This can help to do some complicated deployment strategies: A/B testing, Blue-Green deployment, …  
  E.g: Nginx Ingress, Istio, …
* Kubernetes has a package manager which can help you to rollout/rollback easily.  
  E.g: Helm