Helm and IaaC:

Helm:

- Helm is package manager for K8s
- Helm is broadly composed of 3 components:
  - Chart: Contains all necessary resource definitions to run app, tool on K8s cluster
  - Repository: The palce where charts can be collected and shared
  - Released: An intence of a chart running in K8s cluster
- Artifacthub is where we find and public helm charts

Kustomize:

- Maybe alternative to Helm
- It provides more flexibility when writing
- Kustomize it's built into kubectl
- Kustomize file defines what will be overwritten in the base component.

Infrastructure as a Code (IaaC):

- Script to automate, create, update or destory cloud infrastructure
- IaaC is blueprint of your infrastructure
- IaaC allows easy share, version or inventory your cloud infrastructure

Popular Infrastructure

- Declarative:
    - Terraform
    - Azure blueprint
    - Cloudformation
- Imperative:
    - AWS cloud development kit
    - Pulumi

IaaC for Kubernetes:

- Managin Infra *of the cluster*:
    - Terraform
- Managing Infra *in the cluster*:
    - Helm