Section 15: Review of GCP Compute Services

4 Main Services

1. **Compute Engine**
   ↳ Maximum control

2. **Kubernetes engine**
   ↳ Managed cluster
   ↳ Containerized

3. **App engine**
   ↳ Minimal configuration
   ↳ Containerized
   ↳ google specific

4. **Cloud functions**
   ↳ Responding to GCP events

Exam

Compute Engine

* How to create Instances
  ↳ console
  ↳ command Line
* Advanced features
  ↳ Sole Tenancy: 1 cloud
  ↳ Shielded VM's
  ↳ GPU's
* Images and Snapshots
* Instance Groups
* Cost Structure of different Services
* Gcloud compute commands

Kubernetes

* container orchestration
* 1 master → Multiple Nodes
* Pods, deployments, services
* Gcloud container vs kubctl
* Container Registry Images + Details

App Engine

* application structure
  ↳ Services
  ↳ version
  ↳ instances
* How to deploy
* Scaling options
* Traffic Splitting

Cloud Functions

* event based
* event sources
  ↳ Http
  ↳ Cloud Pub/Sub
  ↳ Cloud Storage
  ↳ Firebase
  ↳ Monitoring
* Different languages