**DevOps**

**An important concept is automation. Automating builds, tests, and releases.**

**Continuous Integration** – Integration of new features into software.

**Continuous Delivery –** Putting software into a staging environment before it’s tested.

**Continuous Deployment –** Deploying software to a customer/client.

**Research Task**

**Google CI/CD**

**Software Used**

**Cloud Build**

* Executes builds using Google Cloud Platform.
* Can automate deployments.
* Can import source code from:
  + Google Cloud Storage
  + Cloud Source Repos
  + GitHub
  + BitBucket

**Container Registry**

* Single place for a team to manage Docker images.
* Can push an image to the container registry and pull from it.
* Can define access control.

**Cloud Source Repositories**

* Private Git repo hosted on Google Cloud Platform.
* Can search through code across all repos.

**GKE-on-Prem**

* Stands for “Google Kubernetes Engine”.
* Allows access to IBM’s Kubernetes cloud service for data centres.
* Manages and verifies installs and upgrades.
* Google Cloud Console allows for a single view of all clusters across site and cloud environments.

