Cloud Computing (PIB-CCOM/KIB-CCOM), SoSe / Nachrichtenforum / Aufgabenbeschreibung der Abschlussarbeit

FORUM
Nachrichtenforum

Aufgabenbeschreibung der Abschlussarbeit

Anzeige in geschachtelter Form ⇕   Einstellungen ⌄

Aufgabenbeschreibung der Abschlussarbeit
von Julian Fischer - Mittwoch, 19. Juli 2023, 08:36

Kubernetes Training Exam

The idea of the exam is to confront you with a real-world scenario and challenge your Kubernetes knowledge. However, the idea of the training is to provide you with essential Kubernetes basics; enough to enable you on your personal learning path beyond the tutorial. Therefore, you need to research Kubernetes related topics beyond the training material to complete the exam, perfectly.

The exam is passed if the anonymization system works and essential Kubernetes best practices are used. Using a `Deployment` where a `StatefulSet` should be used is a violation of a best practice, for example.

Context

A timelapse camera produces a stream of images. There number of timelapse cameras varies as timelapse projects have a limited lifetime. In gernal the business is growing, so more and more cameras are operated, simultaneously. This leads to a growing stream of incoming images.

For each timelapse project, eventually a timelapse video is produced, eventually.

The challenge is that each images captured by a camera may depict people and in particular their faces. In order protect their privacy, identities must be obfuscated. This is achieved by detecting faces and applying a blur filter to the corresponding region in the image.