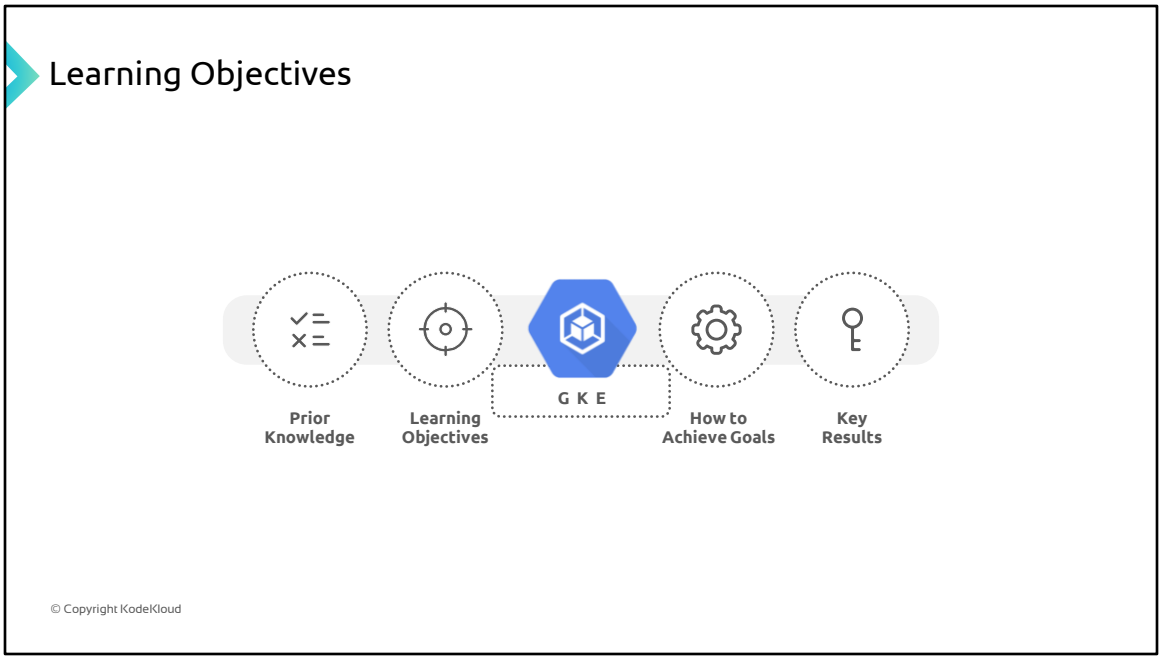
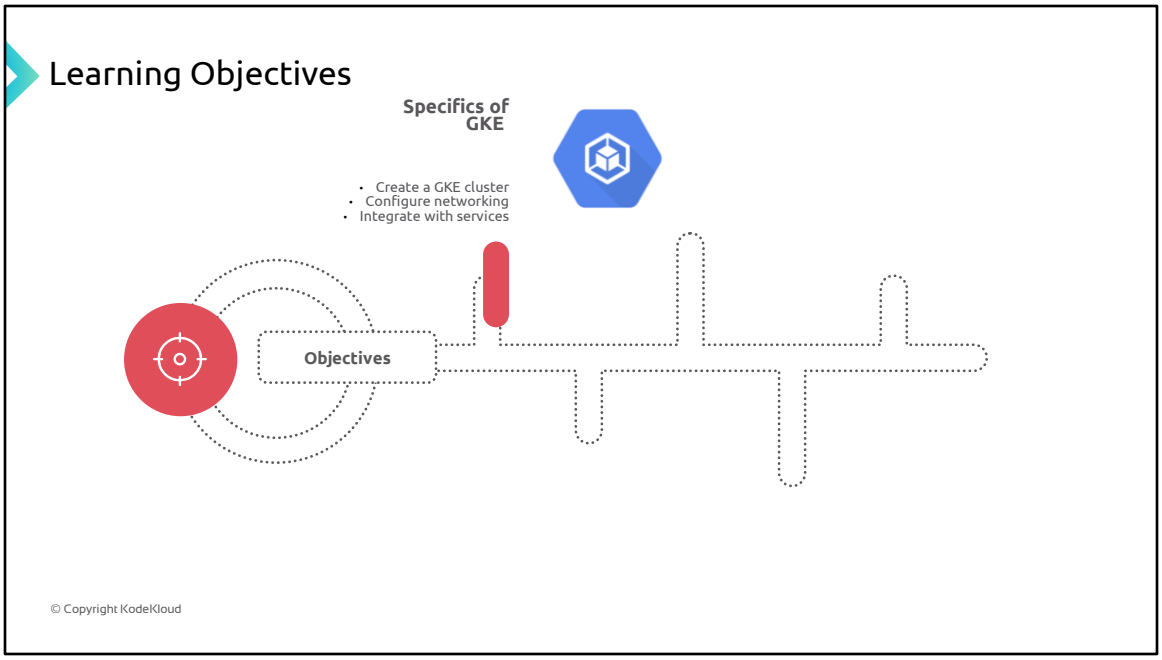
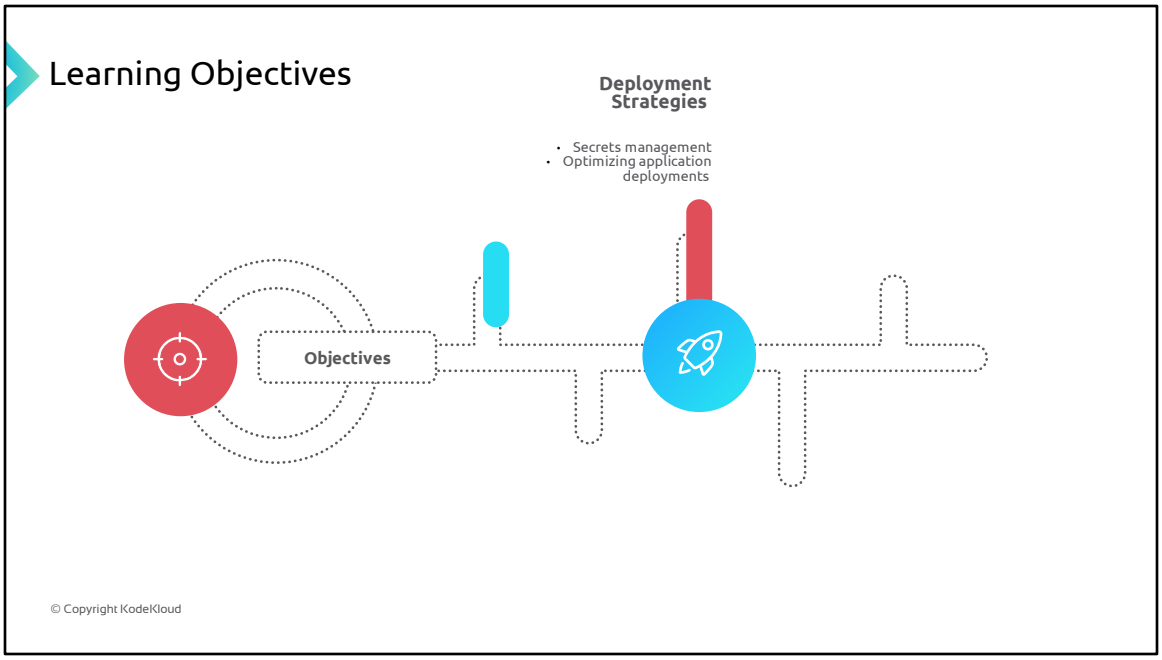


Now, before we start with our journey to learn about Google Kubernetes Engine, I just wanted to call out some **key learning objectives** of this course, **how** we'll achieve that, any **prior knowledge** that we recommend you to have, and what is the expected outcome or the **key results** on which you should be measuring your successful learning from this course.



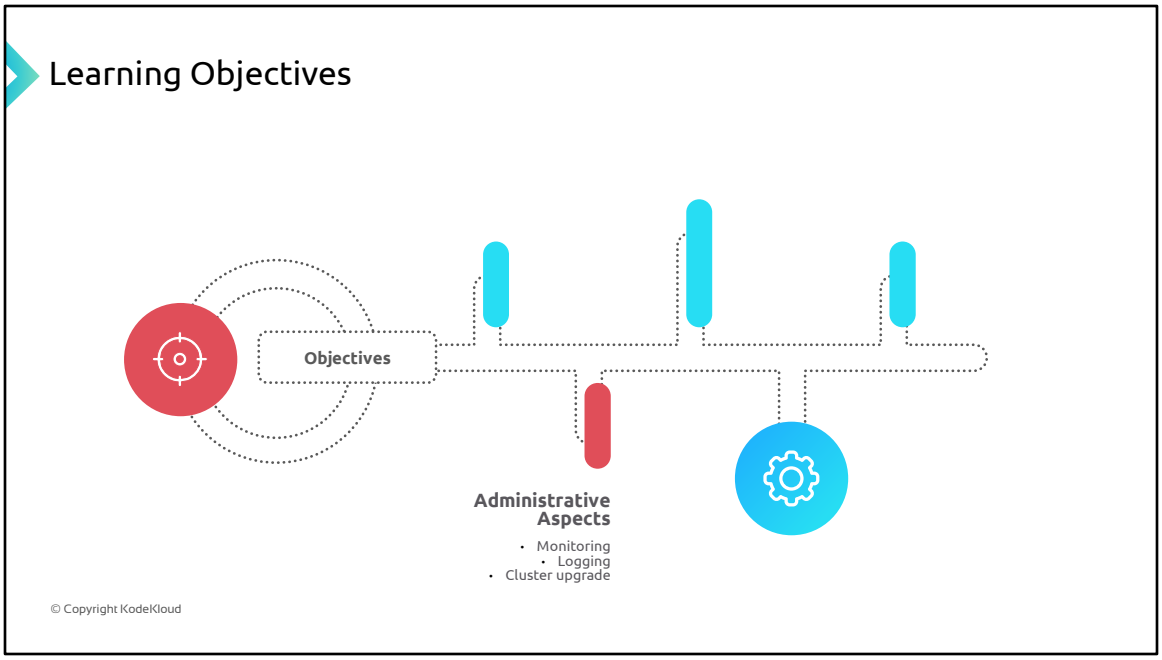
Throughout the training course, together, we'll look at the **specifics of Google Kubernetes Engine**. We'll start by discussing GKE architecture, followed by learning

- How to create a GKE cluster,
- Networking configuration required for a GKE cluster, and
- Integration with other Google Cloud services.



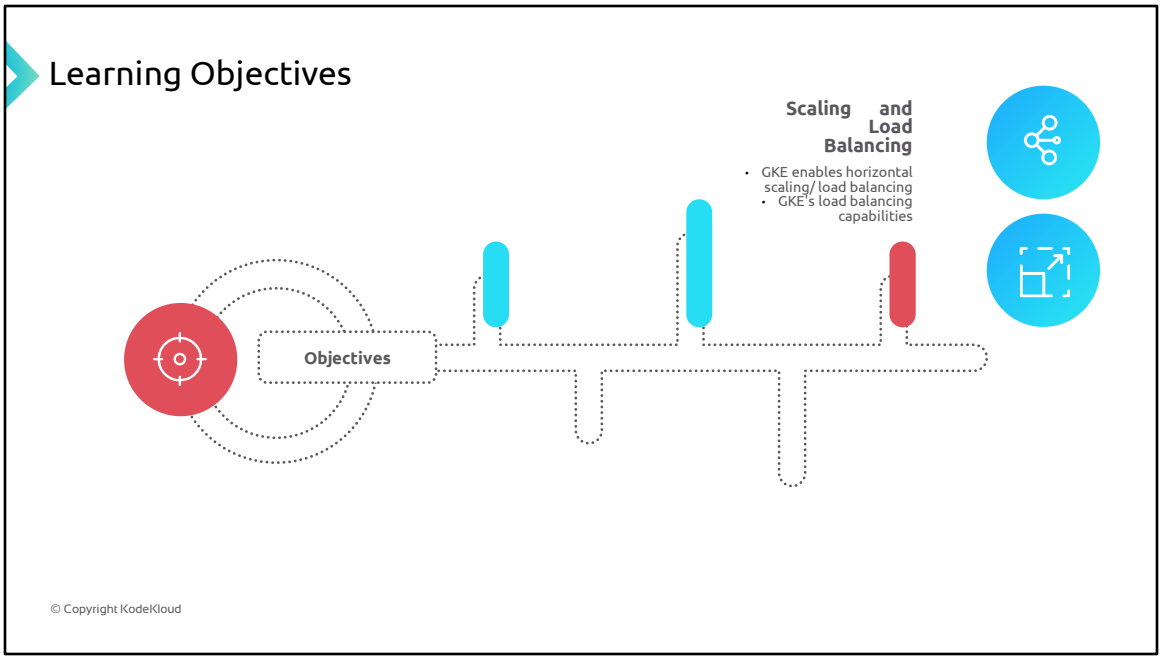
Once we're familiar with GKE, we'll **look at different deployment strategies** on the GKE platform including:

- Secrets management and
- Practices for optimizing application deployments on a GKE cluster.



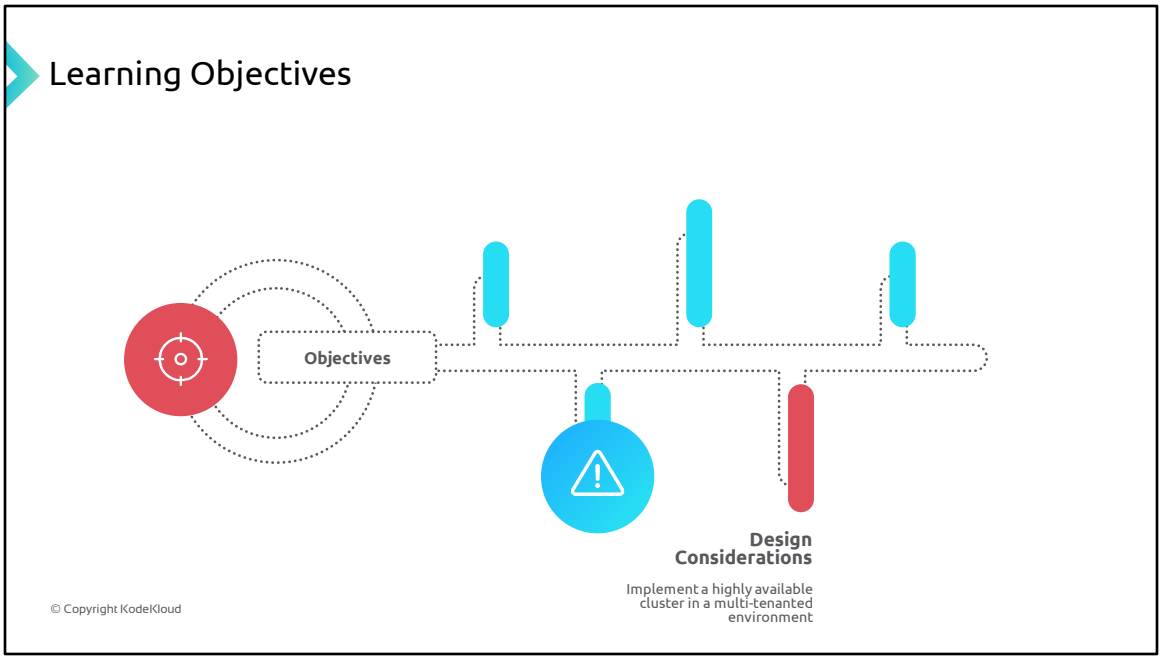
We'll also discuss in **depth different administrative aspects of Google Kubernetes Engine** including:

- Monitoring,
- Logging, and
- Cluster upgrade.

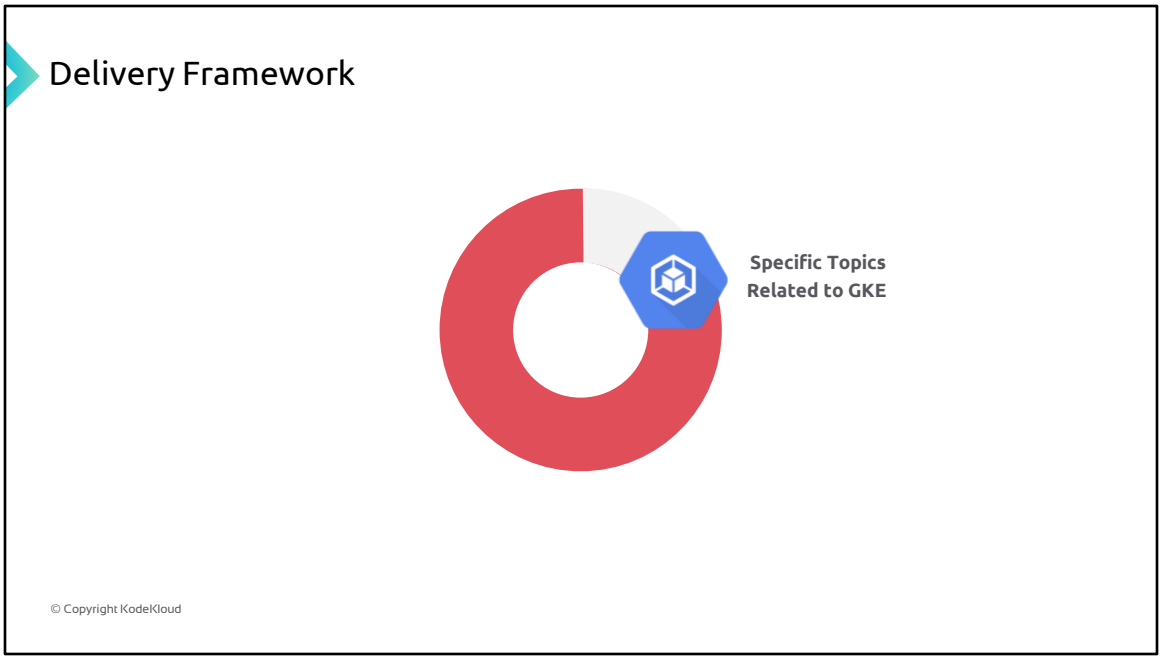


We'll also discuss how **Scaling and Load Balancing can efficiently be crucial** for meeting growing demands.
We'll explore

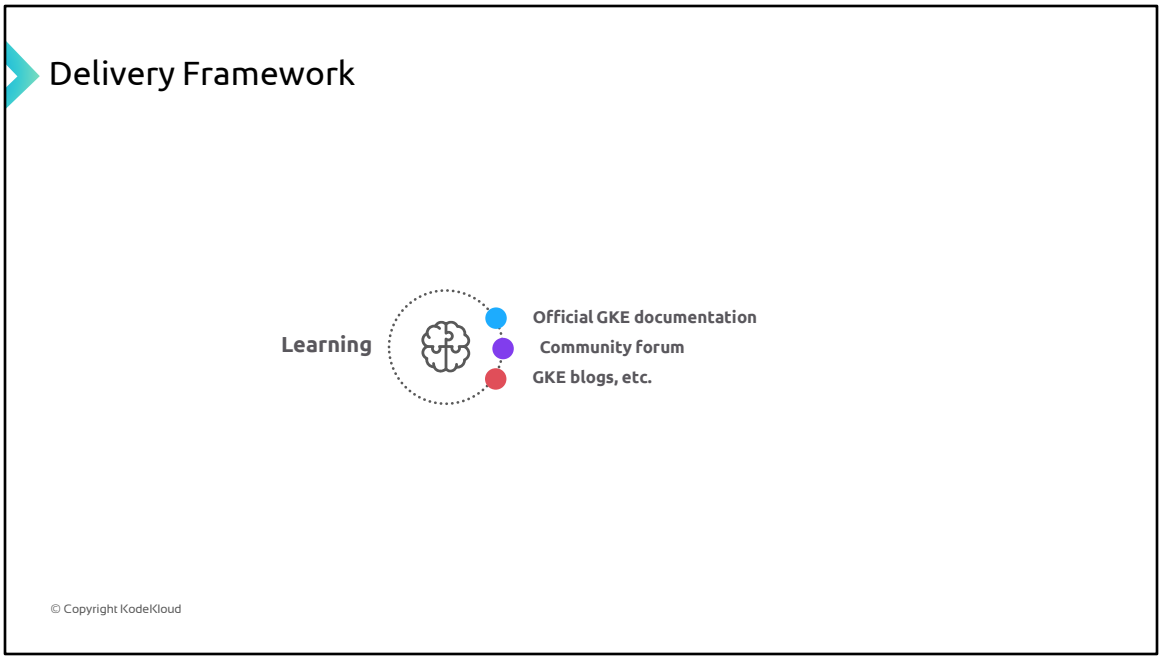
- How GKE enables horizontal scaling and load balancing and
- How to auto-scale and leverage GKE's load balancing capabilities to distribute traffic.



We'll finish this course by discussing **some key Design considerations** that you should take into the account for implementing a highly available cluster in a multi-tenanted environment.



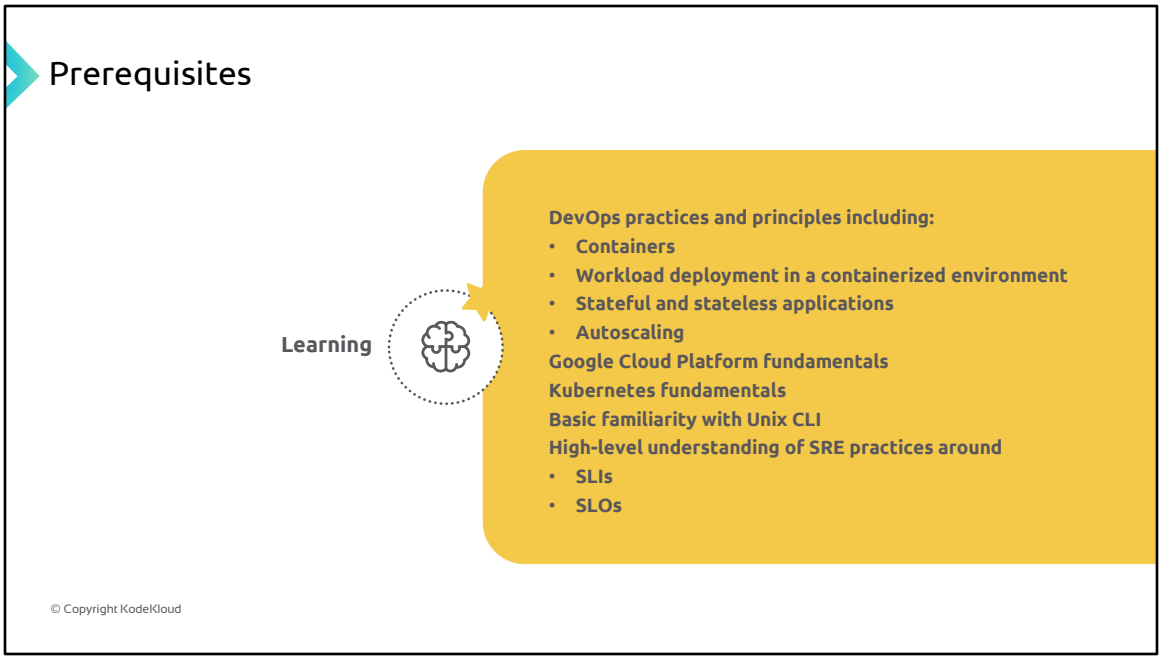
This course is structured as a series of modules. Each module covers a specific topic related to GKE.



In addition to the course material, we'll also guide you with a number of resources available online that can help you learn more about GKE. These resources include:

- The official GKE documentation,
- Community forum,
- GKE blogs, etc.

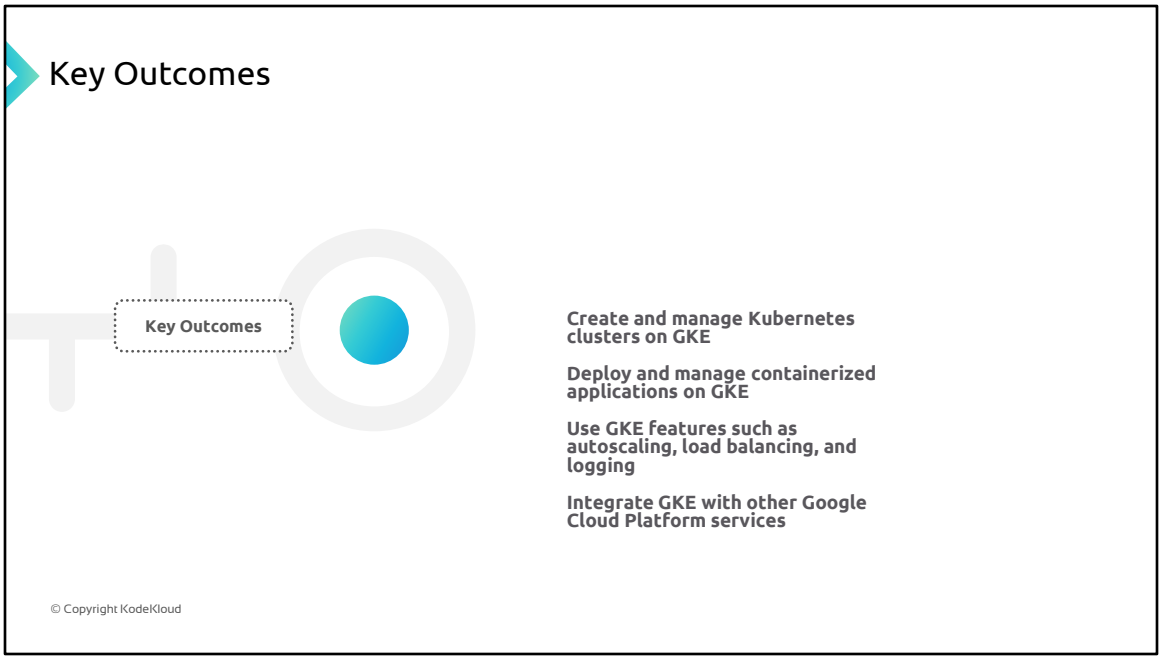
If you need help with the course material, you can contact the instructor or post a question in the forum.



To ensure that we set you up for success and gain the most out of this course, we have curated a list of resources that we highly recommend you complete as a prerequisite to this course.

A detailed list of these resources is documented in our course description, but on a high level, we expect you to have a basic understanding of

- DevOps practices and principles including
    - Containers,
    - Workload deployment in a containerized environment,
    - Stateful and stateless applications, and
    - Autoscaling.
- We also expect you to have a good understanding of Google Cloud Platform fundamentals,
- Kubernetes fundamentals,
- Basic familiarity with Unix CLI, and
- A high-level understanding of SRE practices around
    - SLIs
    - SLOs



By the end of this course, you will be very well placed to:

- Create and manage Kubernetes clusters on GKE
- Deploy and manage containerized applications on GKE
- Use GKE features such as autoscaling, load balancing, and logging
- Integrate GKE with other Google Cloud Platform services

After completing this course, you would have gained the skills you need to design, implement, and manage a highly robust and scalable GKE cluster to support the build and deployment of scalable, reliable, and secure

applications in your environment.

I am excited to embark on this journey with you and share my expertise in GCP and Google Kubernetes Engine. Let's dive right in and explore GKE, the managed Kubernetes service on GCP!