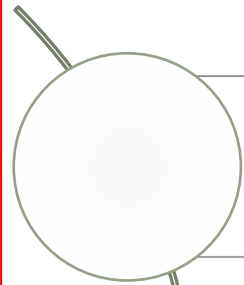


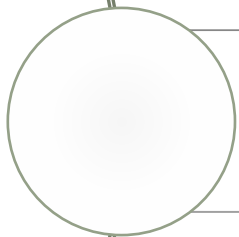
DEVSECOPS COURSE
OBSERVABILITY

TRAINER: TRAN HUU HOA

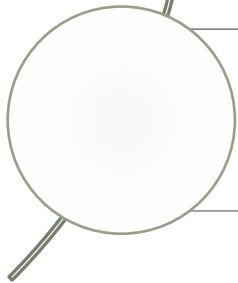
AGENDA



Logging tools



Monitoring tools



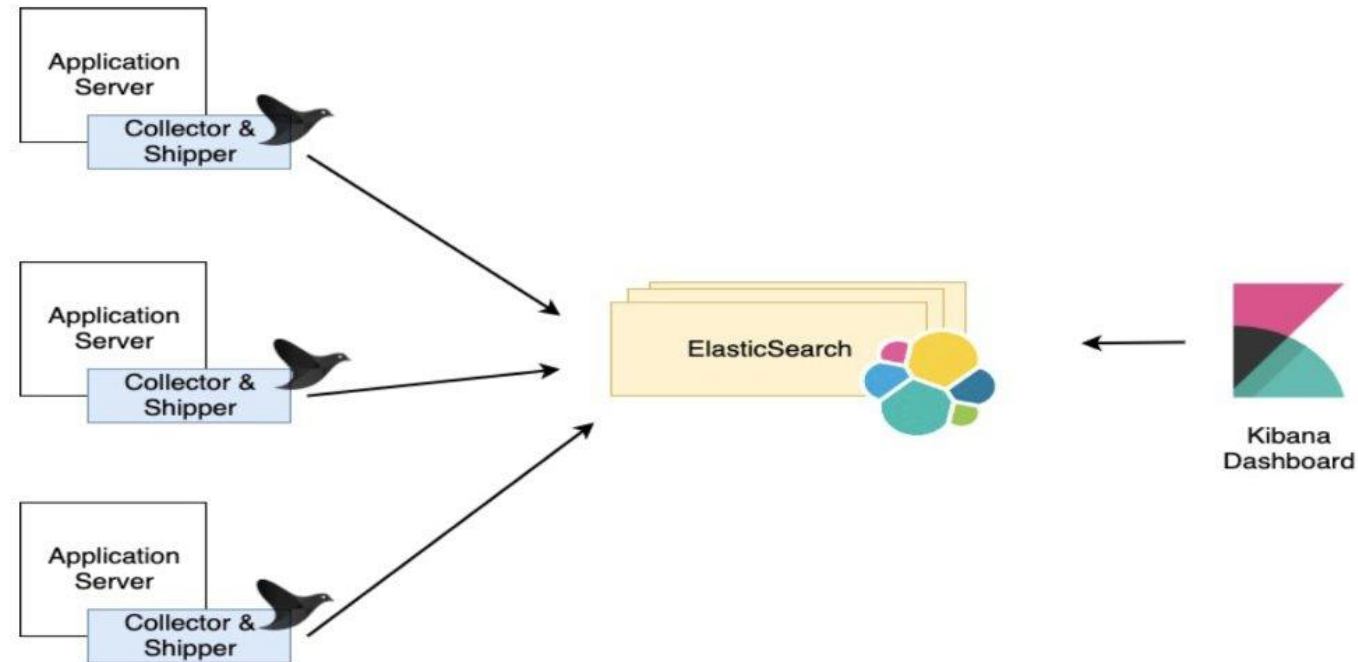
ITIL Framework

LOGGING TOOLS

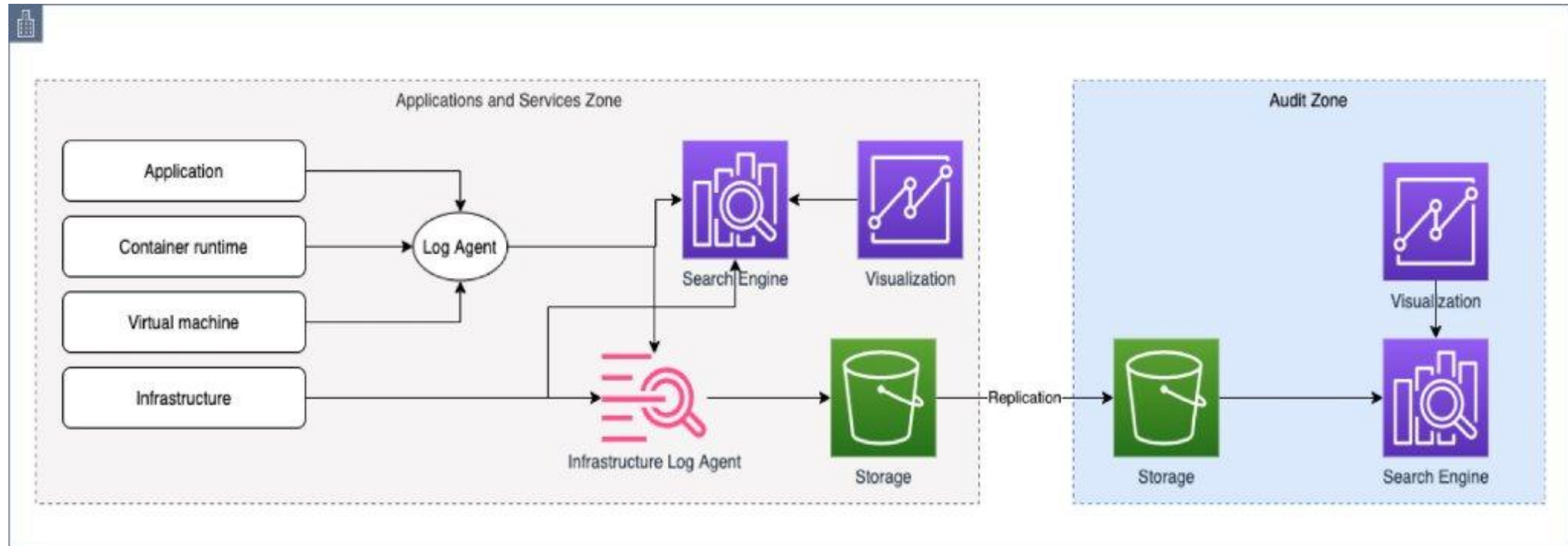
The EFK stack is a powerful combination of three open-source tools that streamline log management in Kubernetes:

- Elasticsearch: A distributed and scalable search engine that stores and retrieves logs. It's commonly used to sift through large volumes of log data.
- Fluentd: An open-source log collection agent that supports multiple data sources and output formats. Fluentd collects logs from various systems and forwards them to solutions like Elasticsearch, Stackdriver, and more.
- Kibana: A UI tool for querying, data visualization, and dashboards. It allows you to explore log data through a web interface and build custom dashboards.

LOGGING TOOLS



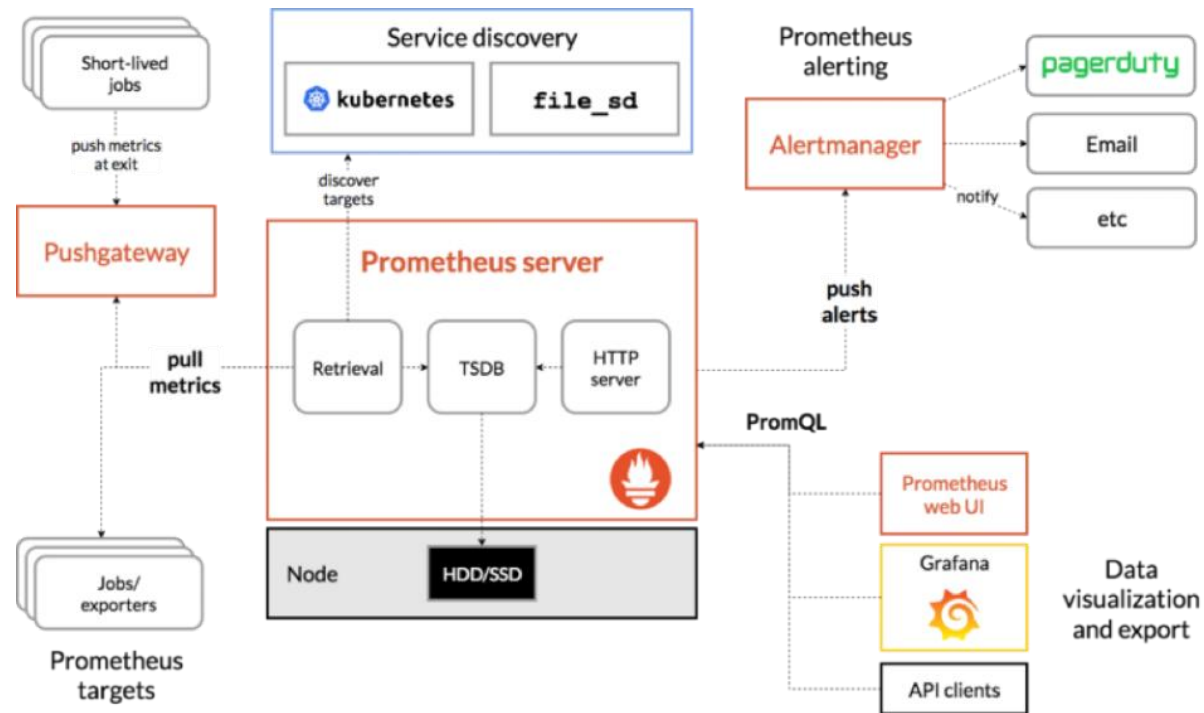
LOGGING TOOLS



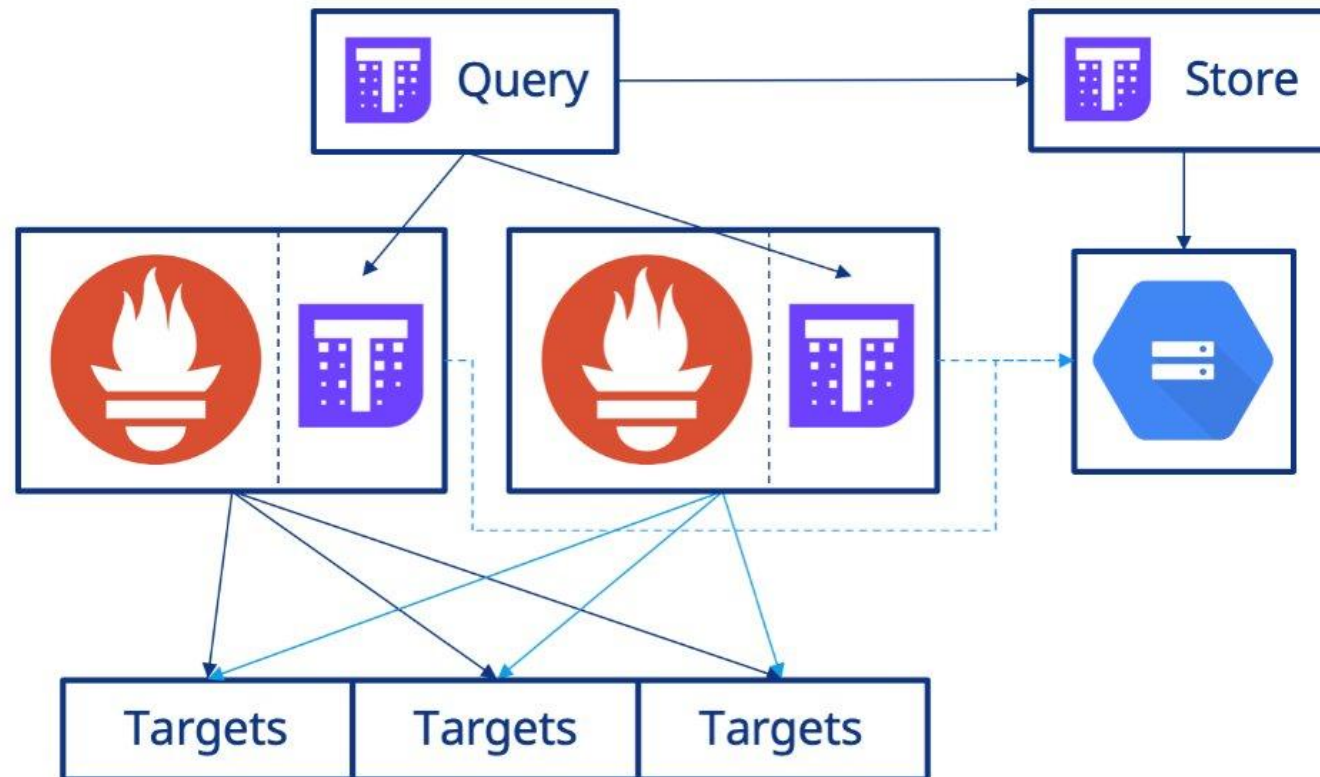
MONITORING TOOLS

- Prometheus: One of the most popular open-source tools for monitoring Kubernetes to collect metrics from various services and stores them in a time-series database. It integrates well with Grafana for visualization.
- Grafana: A powerful visualization and monitoring platform that works seamlessly with Prometheus and other data sources. It creates custom dashboards and alerts for your Kubernetes environment

MONITORING TOOLS



MONITORING TOOLS



ITIL FRAMEWORK

The **ITIL (Information Technology Infrastructure Library)** framework is a set of best practices for **managing and delivering IT services**. It aims to align IT services with the needs of businesses and improve overall efficiency and effectiveness

- 1. Service Strategy:** Defines the approach to service management and how it aligns with business goals.
- 2. Service Design:** Focuses on designing IT services that meet business needs.
- 3. Service Transition:** Involves the deployment and management of changes to IT services.
- 4. Service Operation:** Ensures that IT services are delivered effectively and efficiently.
- 5. Continual Service Improvement:** Aims to improve service quality and performance over time.

ITIL FRAMEWORK

