

Key Kubernetes Terminology

Cluster

A set of machines, called nodes, that run containerized applications managed by Kubernetes.

Node

A node is a worker machine in Kubernetes

Pod

The smallest and simplest Kubernetes object. A Pod represents a set of running containers on your cluster.

Container

A lightweight and portable executable image that contains software and all of its dependencies.

Deployment

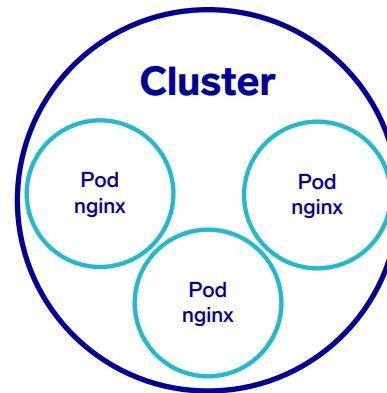
An abstraction to manage replications of a set of routines, protocols, and tools for building software applications.

Namespace

An abstraction to support multiple virtual clusters on the same physical cluster.

Service

An abstract way to expose an application running on a set of Pods as a network service.

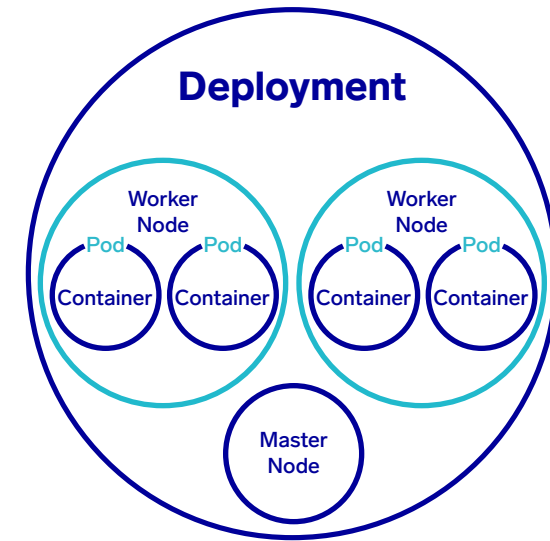


Service

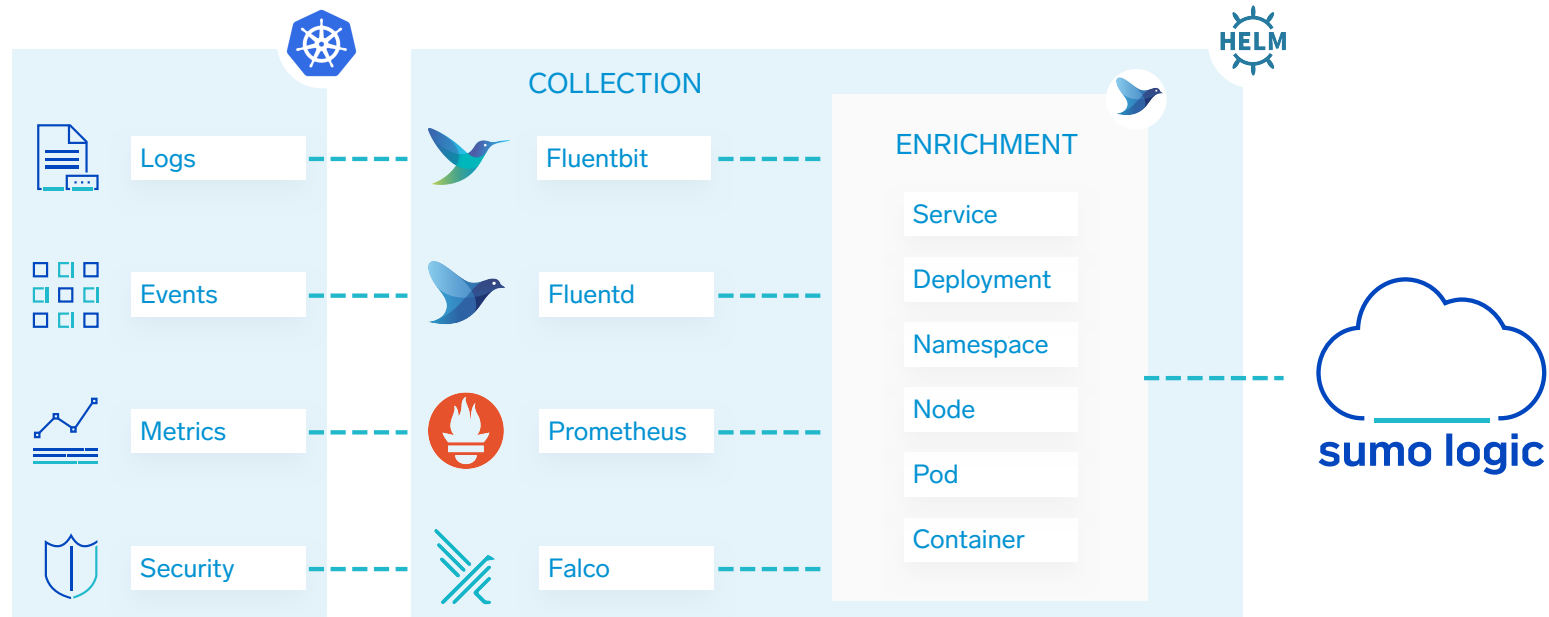
Payment Service

User Service

Maps Service



Centralized Data Collection with Sumo Logic



Four different realtime views into your Kubernetes

Explore By
Kubernetes Node View

- prod01.travellogic.info (cluster)
 - ip-192-168-13-37.us-west-2.compute.internal (node)
 - ip-192-168-26-48.us-west-2.compute.internal (node)

Explore By
Kubernetes Deployment View

- prod01.travellogic.info (cluster)
 - default (namespace)
 - kube-system (namespace)
 - coredns (deployment)
 - tiller-deploy (deployment)

Explore By
Kubernetes Service View

- prod01.travellogic.info (cluster)
 - default (namespace)
 - kubernetes (service)
 - kube-system (namespace)
 - kube-dns-prometheus-operator-coredns (service)
 - prometheus-operator-kube-proxy (service)

Explore By
Kubernetes Namespace View

- prod01.travellogic.info (cluster)
 - default (namespace)
 - kube-system (namespace)

Cluster
Node

Observe the infrastructure topology of resources - private, public cloud, or bare metal

Cluster
Namespace
Deployment

See how your deployment is performing to your set criteria and manage changes

Cluster
Namespace
Service

Monitor to improve your user experience

Cluster
Namespace

Track environments with many users spread across multiple teams, or projects like dev, lab, and prod

Explore tabs interconnected with dashboards

The screenshot shows the Sumo Logic 'Explore' interface. On the left, a sidebar menu lists various Kubernetes components and services, including 'Kubernetes - API Server', 'Kubernetes - Cluster Explorer', 'Kubernetes - Cluster Overview', 'Kubernetes - Controller Manager', 'Kubernetes - Daemonsets and StatefulSets', 'Kubernetes - etcd', 'Kubernetes - Health Check', 'Kubernetes - Kubelets', 'Kubernetes - Scheduler', 'Kubernetes - Security Audit Events', 'Kubernetes - Security Overview', 'Kubernetes - Security Rules Triggered', 'Twistlock - Compliance Violations', 'Twistlock - CVE Status', 'Twistlock - Defender Incidents', 'Twistlock - Detected Vulnerabilities', and 'Twistlock - Overview'. The main area displays a dashboard with a hexagonal pattern and a time series chart showing 'max(node:node_cpu_utilisation:a...'. The top navigation bar includes 'Dashboard', 'Explore', and '+ New' buttons.

Structured Query Builder in Dashboard (Beta)

The screenshot shows the Sumo Logic 'Structured Query Builder' interface. The top navigation bar includes 'sumo logic', 'Dashboard', 'Explore', and '+ New' buttons. The main area displays a dashboard titled 'Cluster Caching vs Pod CPU totals'. It features two time series charts. The first chart, labeled '#A', shows 'get metric CACHE_BYTES_READ_INT0' with an 'avg' aggregation, filtered by 'cluster_name = m10awtest...'. The second chart, labeled '#B', shows 'get metric container_cpu_system_seconds_total' with a 'count' aggregation, filtered by 'pod = prometheus-operator-k...'. The charts share a common x-axis representing time from 06:00 PM to 12:00 PM on September 19, 2023. The y-axis represents the 'Amount' of the metrics. The interface includes a 'Cancel' button and an 'Update Dashboard' button.