

3.6.2 Layers explained

IBM Multicloud Manager consists of several components, which are used to access and manage your clusters. A high level architecture of the components is shown in Figure 3-9 on page 48.

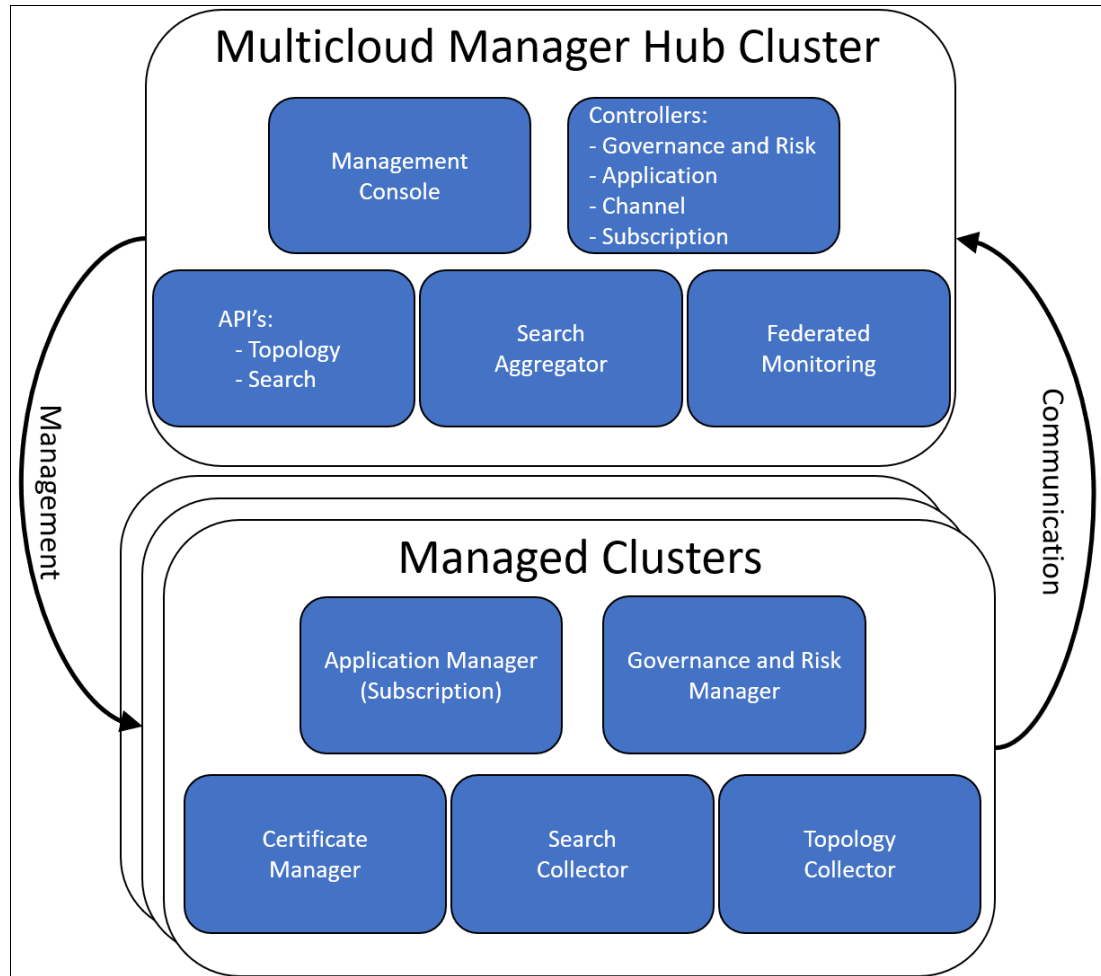


Figure 3-9 Multicloud Manager High Level Architecture

Multicloud Manager hub cluster

Hub cluster is used to define Multicloud Manager controller. Hub cluster aggregates information from multiple clusters by using asynchronous work request. With a graph database, the hub cluster maintains the state of clusters and applications that run on it.

Hub cluster also uses *etcd*, a distributed key value store to store the state of work requests and results from multiple clusters. It provides a set of REST API's for various functions that it supports.

Multicloud Manager managed cluster

Managed cluster defines Multicloud manager Klusterlet. Klusterlet is an agent responsible for a single Kubernetes cluster. Managed cluster initiates connection to the hub cluster, receives and applies work requests and returns results. Managed cluster connects to different services in the cluster for operations such as Kubernetes API service.