RESOURCE CENTER

Self-host Bitwarden on Kubernetes using a Helm chart

Self-host Bitwarden in a public cloud or on-prem in a private cloud in a Kubernetes installation using a Bitwarden-developed Helm chart.

Get the full interactive view at https://bitwarden.com/resources/self-host-bitwarden-on-kubernetes-using-a-helm-chart/

bitwarden

For customers that wish to self-host Bitwarden in a public cloud or on-prem in a private cloud in a Kubernetes installation, a Bitwarden-developed Helm chart accommodates the deployment process and can be used for different types of Kubernetes environments.

Self-hosting Bitwarden gives customers more control of how their data is stored and secured, placing customers in charge of both server maintenance and data security. This can be critical for customers in industries with strict data management standards and policies.

Kubernetes, often referred to as K8s, is an open-source container orchestrator with many important capabilities for cloud computing, including scaling, load balancing, and self-healing. **Helm** is a package manager for Kubernetes and simplifies the process of defining, installing, and upgrading Kubernetes applications. A **Helm chart** is a collection of YAML files that describe a related set of Kubernetes resources, including configuration instructions and maps, and can be used to deploy simple and complex applications alike.

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The benefits of using the Helm chart to install Bitwarden to Kubernetes

- Install Bitwarden into your existing Kubernetes infrastructure
- Self-host Bitwarden Password Manager and Bitwarden Secrets Manager for additional control over how your data is managed
- Gain the advantages of using Kubernetes, such as multi- and hybrid-cloud support

Integration Details

The method for installing Bitwarden to a Kubernetes deployment varies depending on the cloud provider. Instructions and documentation are available for a generic installation, Azure AKS, OpenShift, and AWS EKS.

The Bitwarden clients (web, mobile, browser, desktop apps, CLI) can be configured to point to the self-host installation address, allowing for easy installation and updating for end-users.

Additional Resources:

- Help: Self-host with Helm
- Help: Self-host an Organization
- Help: Hosting FAQs
- Blog: Self-host Bitwarden in Kubernetes
- Blog: Now available: Enterprise self-hosting for Bitwarden Secrets Manager