



Understanding Kubectl Plugins

Oshi Gupta

DevOps Engineer and Technical Writer
@CloudYuga Technologies

About Me

- Final-year Computer Science Engineering Student
- DevOps Engineer & Technical Writer at CloudYuga Technologies
- LFX Mentee at Kyverno



<https://www.linkedin.com/in/oshi-gupta-512716178/>



<https://twitter.com/oshi1136>



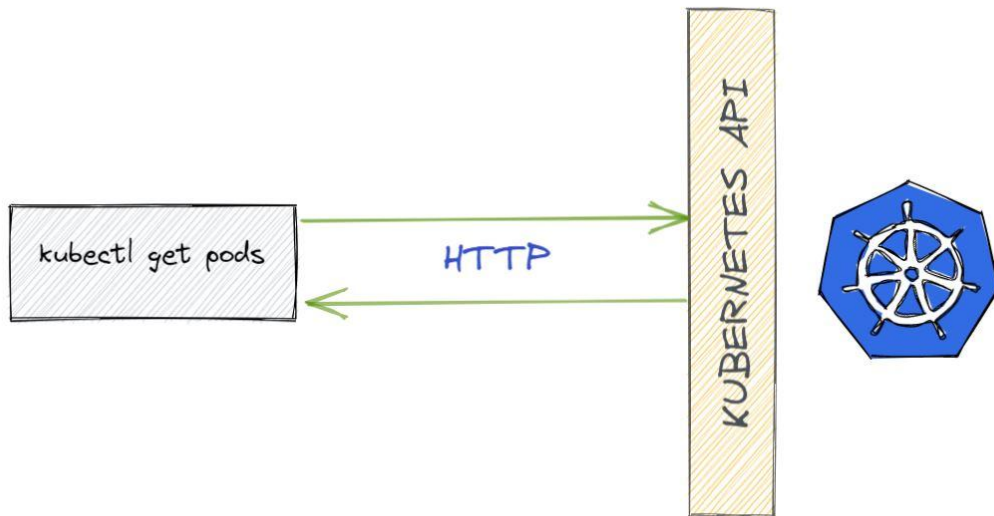
oshiagupta36@gmail.com

Today's Agenda

- What are Kubectl Plugins?
- Why we need it?
- Challenges with Kubectl Plugins
- Solution : Krew , A kubectl plugin manager
- Hands-on Lab
- References and Resources

What are Kubectl Plugins?

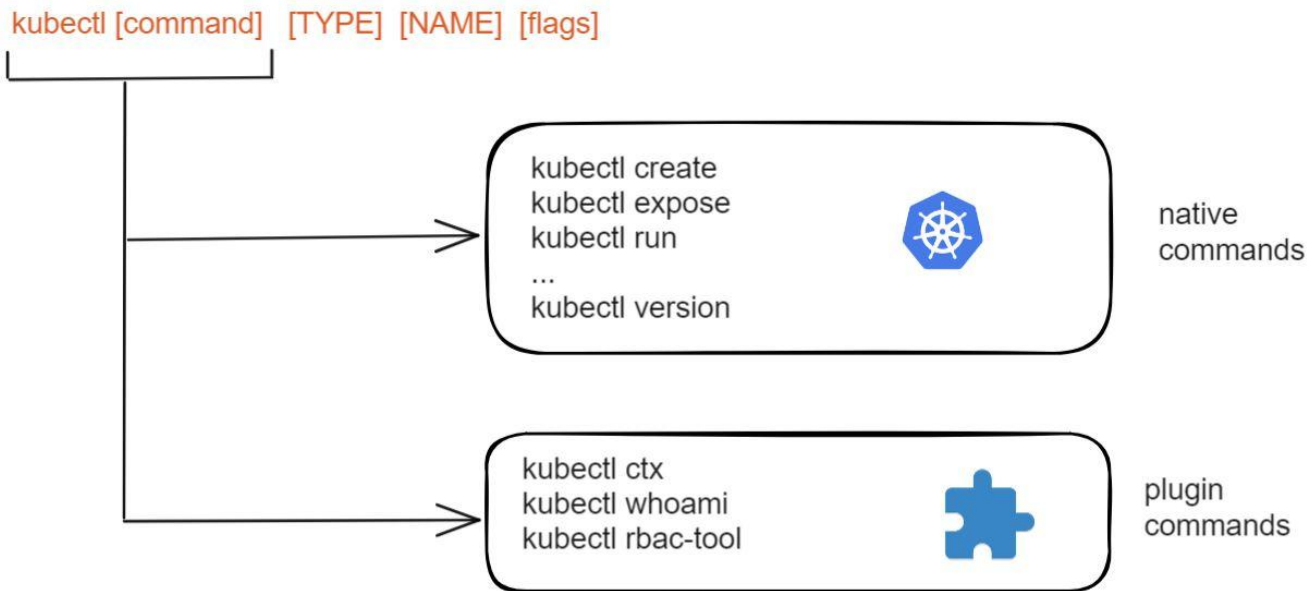
Kubectl : It is a command-line tool which helps in communicating with Kubernetes control plane through Kubernetes API



Plugins : These are add-ons to the softwares to enhance their capabilities

Kubectl Plugins are used to extend the functionalities of kubectl which will work as subcommands of kubectl itself

Why Kubectl Plugins? Is kubectl not enough?



Challenges with Kubectl Plugins

- Managing these standalone binaries
- Proper Installation
- Keeping it up-to-date
- Package management and distribution with
kubectl



Krew : A Plugin Manager for kubectl

- A Kubernetes-SIG project
- Takes care of plugin installation and updation
- Keeping it up-to-date
- Package and distribute plugins on multiple platforms easily
- Accessible through a centralized plugin repository with Krew.



Different Kubectl Plugins with Krew

About **190 plugins** are supported by Krew and Krew itself is a plugin

Plugin Installation via Krew :

kubectl krew install <PLUGIN_NAME>

<https://krew.sigs.k8s.io/plugins/>

Demo on Kubectl Plugins with Krew

Try the hands-on lab : https://cloudyuga.guru/hands_on_lab/kubectlplugins

References and Resources

- https://cloudyuga.guru/hands_on_lab/kubectlplugins
- <https://kubernetes.io/docs/tasks/extend-kubectl/kubectl-plugins/>
- <https://krew.sigs.k8s.io/>
- <https://krew.sigs.k8s.io/plugins/>
- <https://github.com/kubernetes-sigs/krew>



Thank You!

GitHub : github.com/oshi36

Kubernetes slack (slack.k8s.io) : @oshi