



ArgoCon

NORTH AMERICA

Secure ArgoCD Multi-Cluster Management Across Clouds Without Static Tokens



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November 12, 2024

Salt Lake City

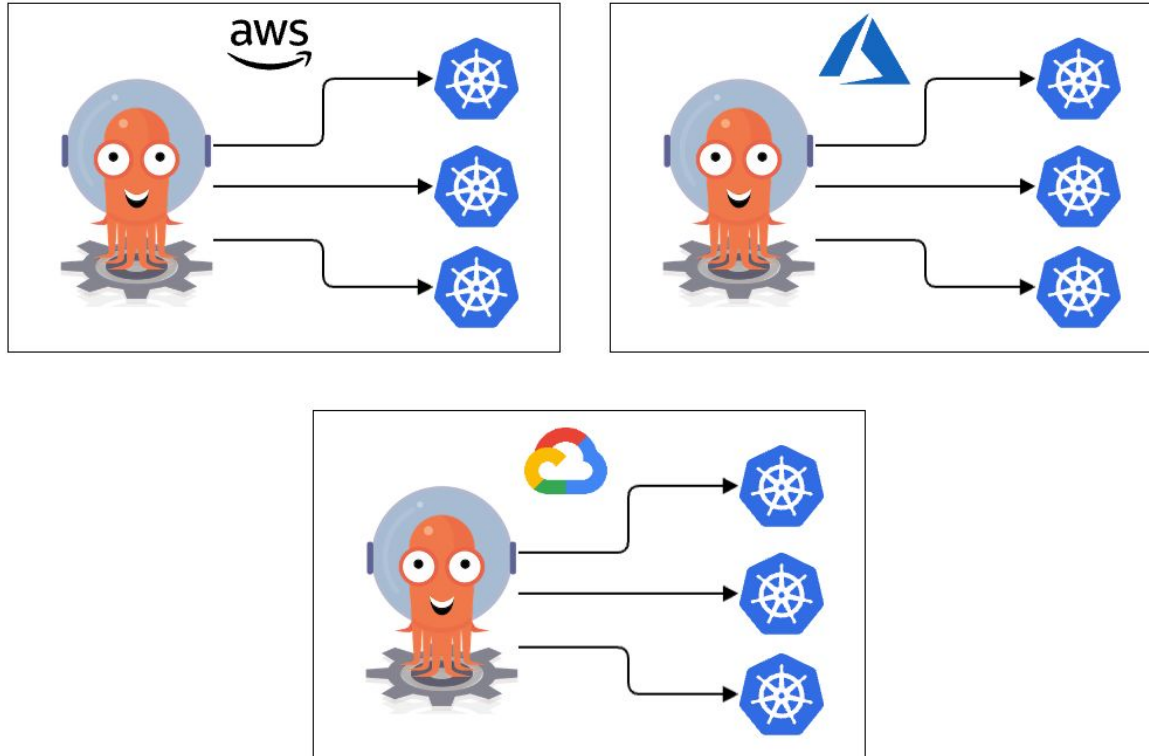


Marc Boorshtein

CTO

Tremolo Security

Multi-Cluster ArgoCD in One Cloud



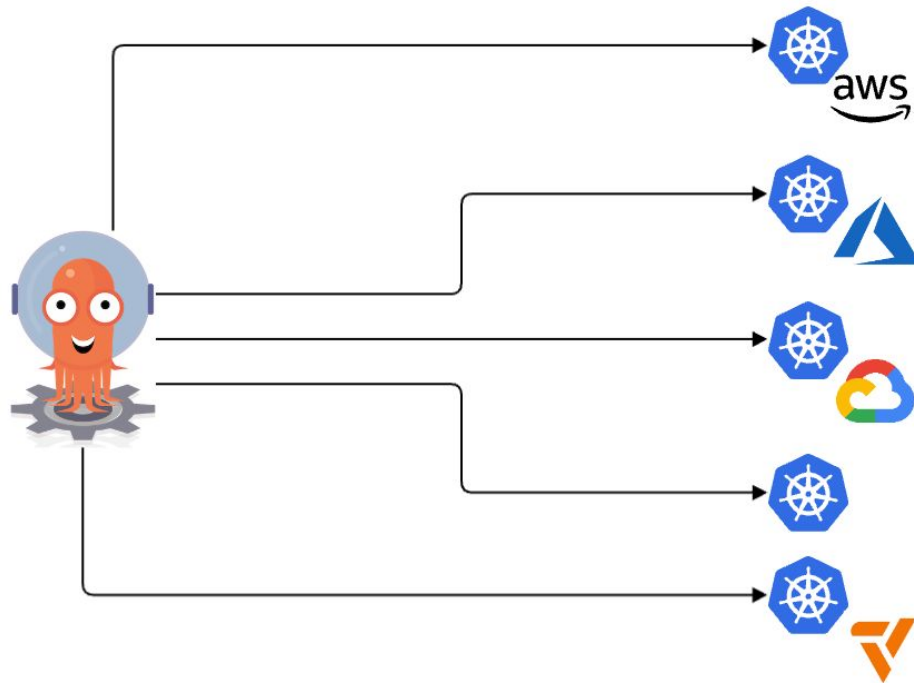
Multi-Cluster ArgoCD Multiple Clouds



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Multi-Cluster ArgoCD Multiple Clouds



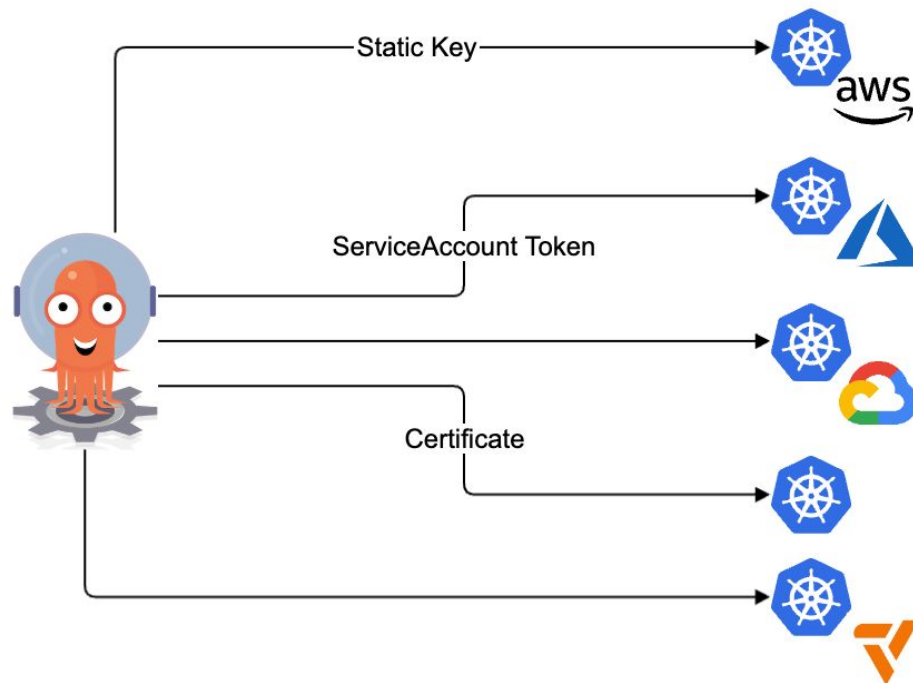
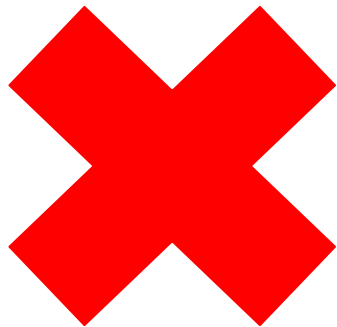
Securing Access Across Boundaries



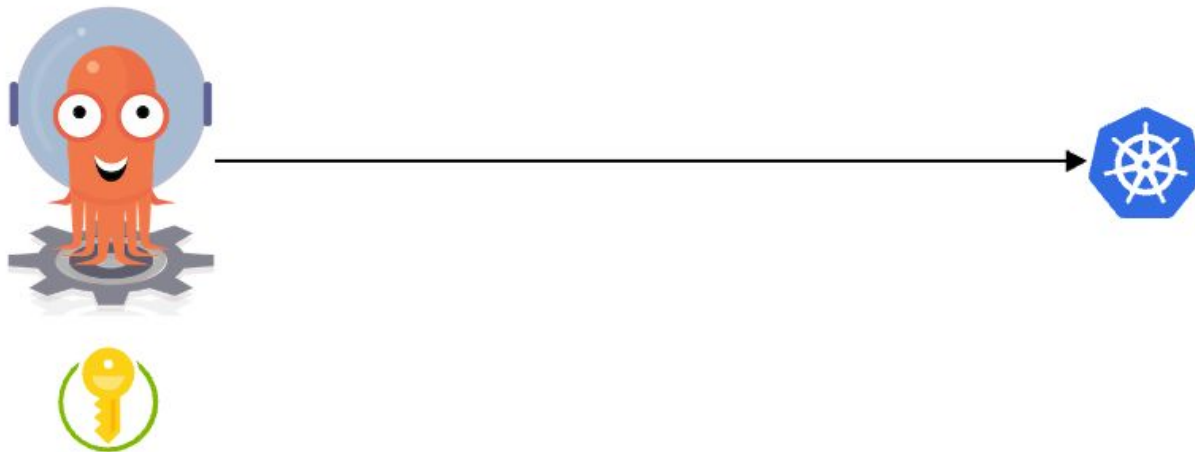
- Short Lived
- Verifiable
- Unique



Cross Cluster Anti-Patterns

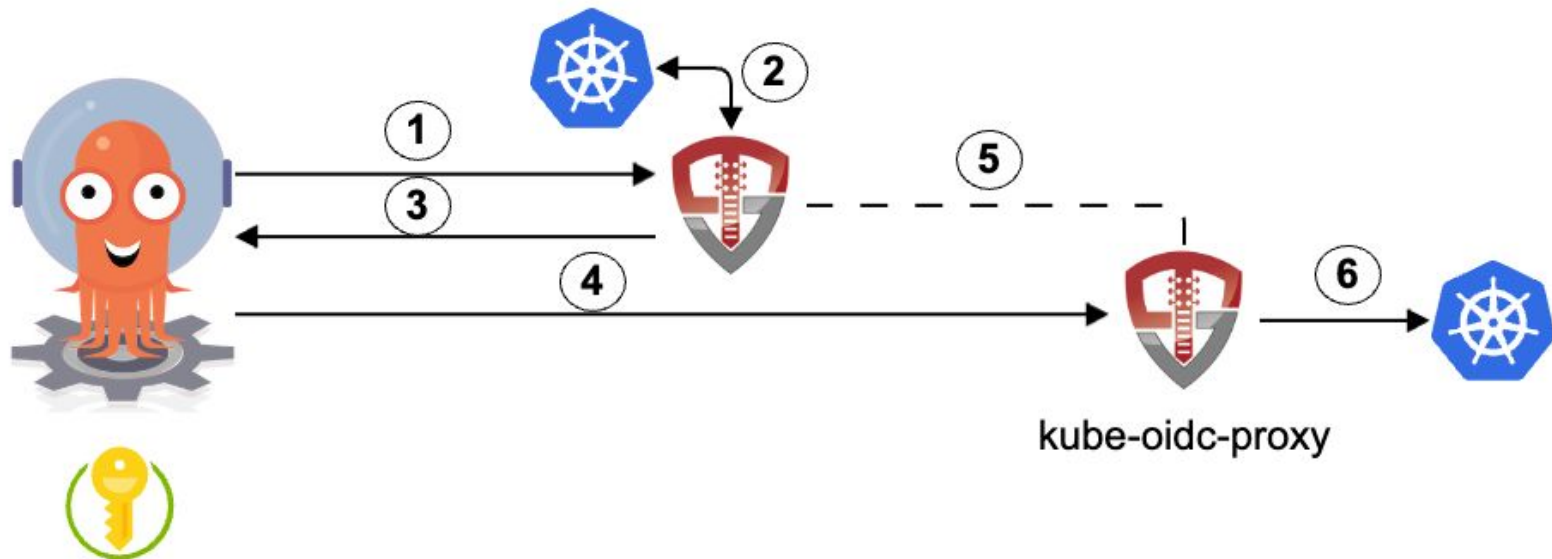


Securing Access Across Boundaries

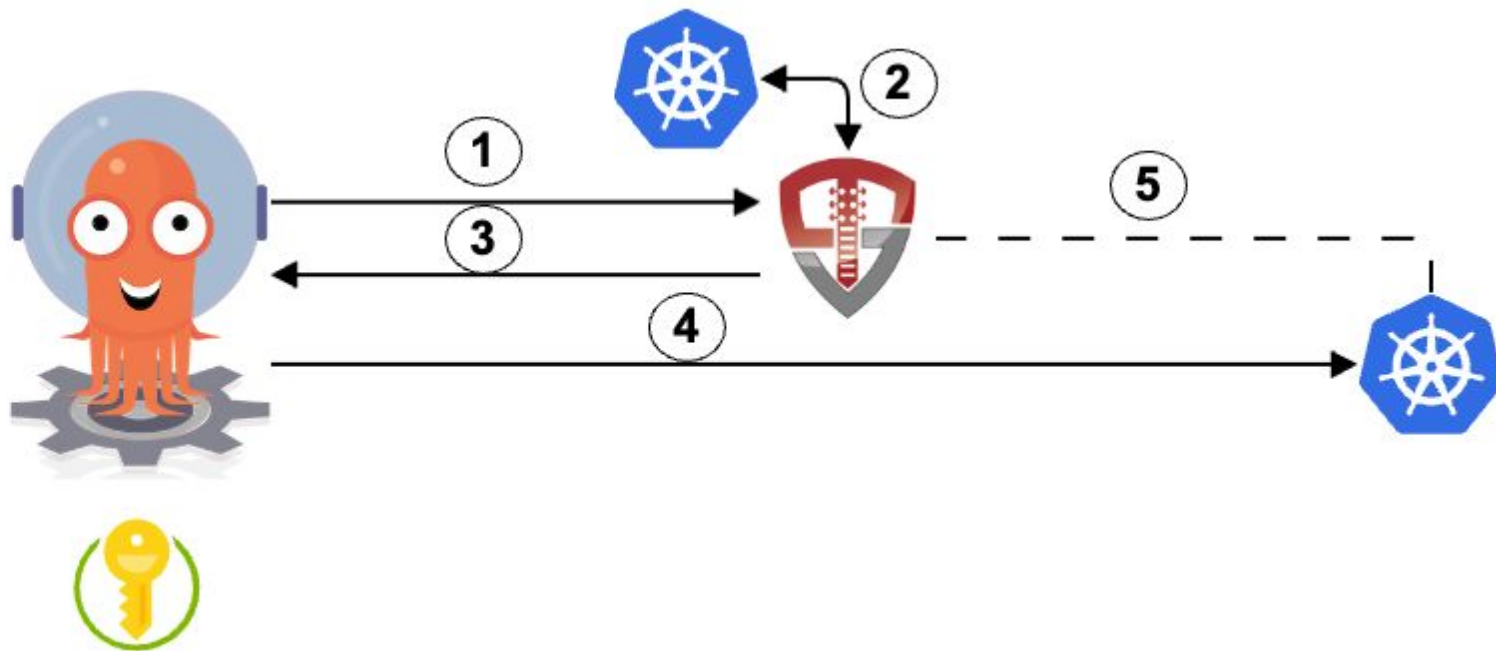


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Securing Access Across Boundaries



Securing Access Across Boundaries



ArgoCD Customizations

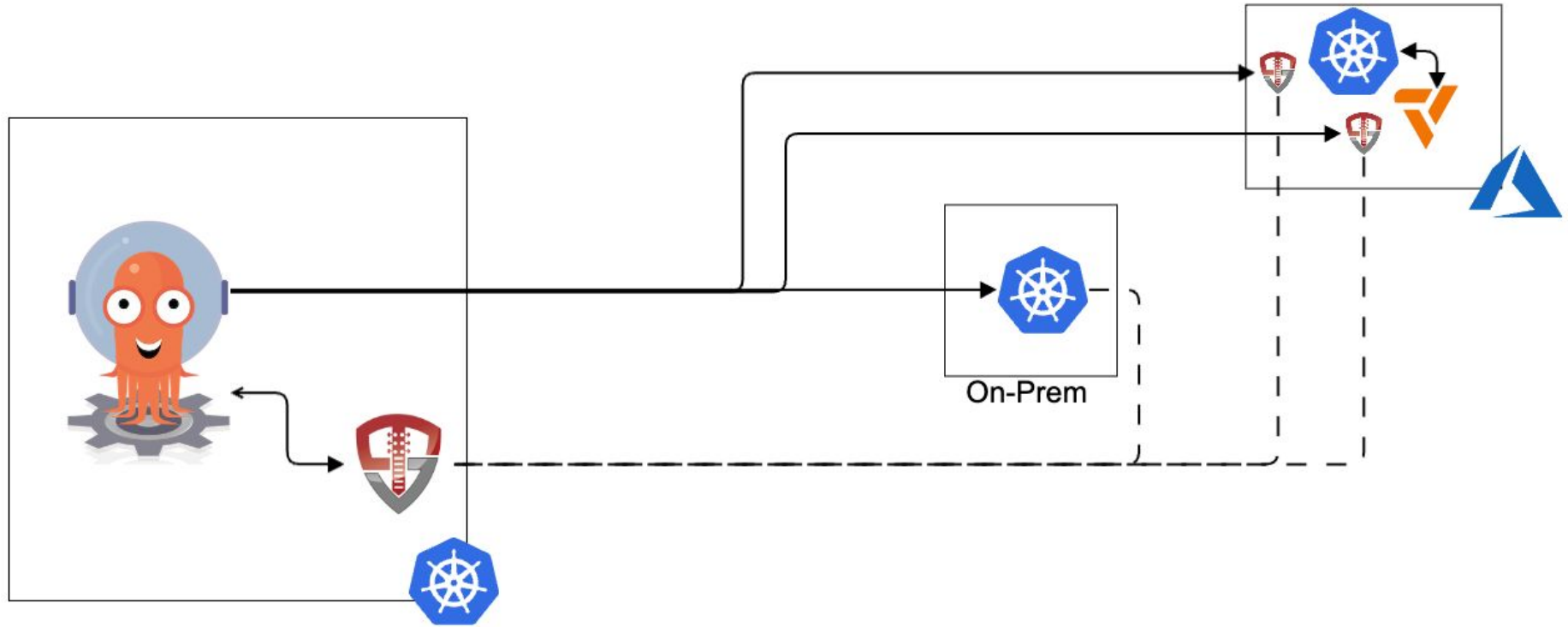


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<i>Component</i>	<i>Customization</i>
Kubernetes Client Go SDK	Client Credential Plugin
Client Credential Plugin	Bash Script in a ConfigMap, mounted into container
Token retrieval - curl	Installed via initContainer
Destination	Generated via Secret+ApplicationSet

Demo!



Thank You and Questions?

BlueSky - @mlbiam.dev

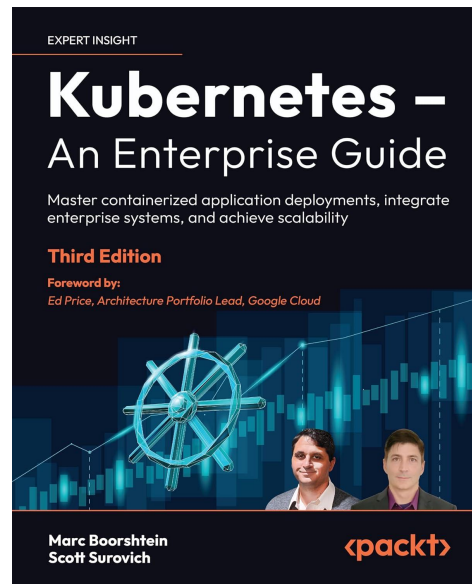
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Kubernetes - An Enterprise Guide 3rd Ed

<https://www.amazon.com/dp/B0CT8M958T>





Securing Multi-Cluster ArgoCD -

<https://www.tremolo.io/post/securing-multi-cluster-argocd>

Don't Use Certificates for Authentication -

<https://www.tremolo.io/post/kubernetes-dont-use-certificates-for-authentication>

Pipelines and Kubernetes Authentication -

<https://www.tremolo.io/post/pipelines-and-kubernetes-authentication>

Secure Access to Kubernetes from Your Pipeline -

<https://www.tremolo.io/post/secure-access-to-kubernetes-from-your-pipeline>

Amazon EKS and Identity, 2.0 -

<https://www.tremolo.io/post/amazon-eks-and-identity-2-0>