Token Management in GitOps

Token: The Forgettable Security Sidekick

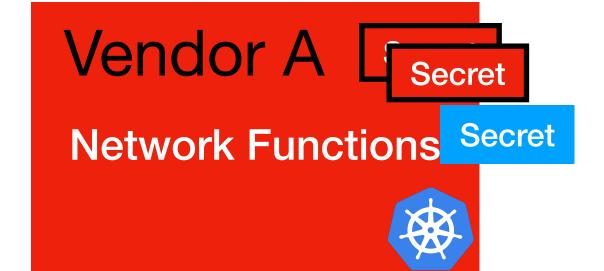
A **token** is like a security superhero—easy to create and ready to save the day! In the world of **GitOps**, tokens are mandatory for smooth operations, ensuring that everything runs securely. However, just like that one friend who always forgets their keys, tokens need regular renewals with the right permissions. So, while they might be your best ally in the battle against unauthorized access, don't be surprised if you find yourself scrambling to remember their rights before they expire!



Simple admin token



The Deployments





Vendor B

Network Functions



Vendor C

Network Functions



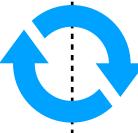
Common Repo



Git repo Vendor A





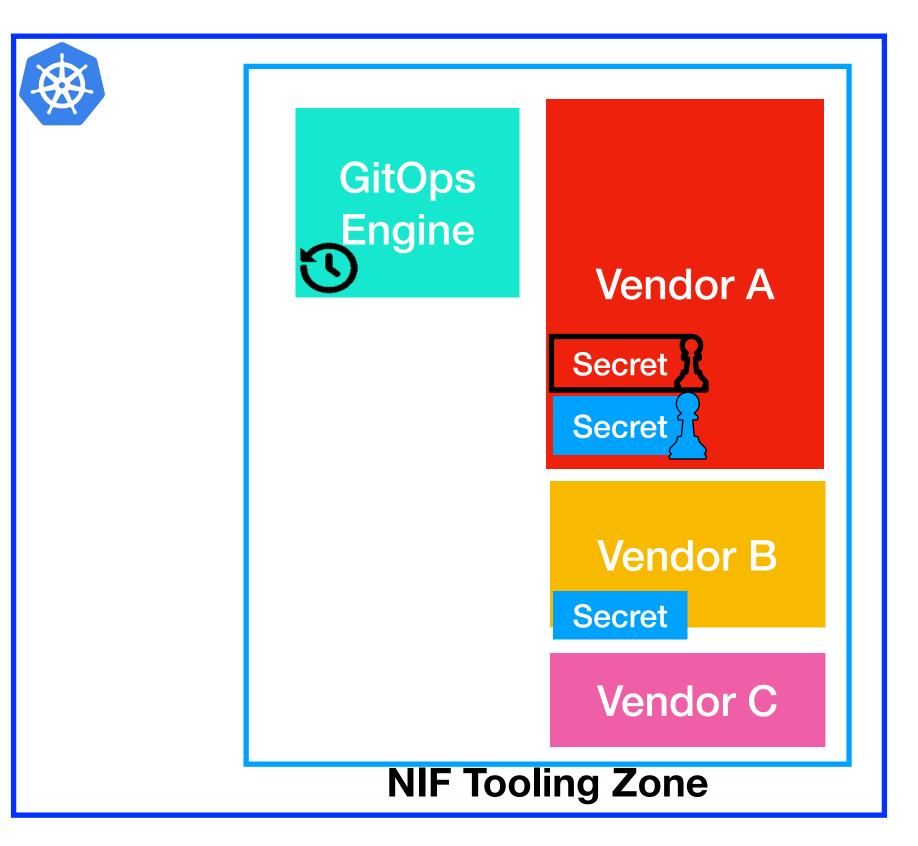


Git repo Vendor C

Vendor A **Secret Store**

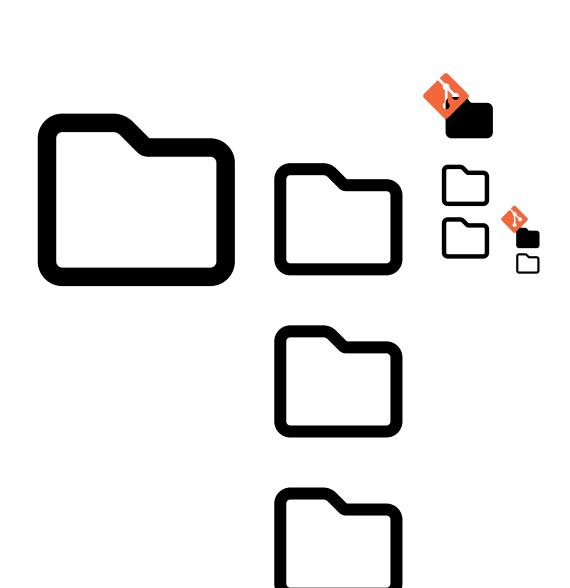
Vendor C

Vendor B



Kubernetes Infrastructure





Multi-Repo architecture ~100 repositories for outs GitOps tooling ~ 200 tokens

For a Vendor functions usually ~1-10 Access token / function:

- private repos
- Security scans
- Semantic release
- Renovate

Security rule: **less privilege**=> limit nb of group token and
Declare token per repository

BOT_READ_REPO_TOKEN_USER_5G	All (default) 🛱
BOT_READ_REPO_TOKEN_5G C	All (default) 🛱
BOT_GIT_PRIVATE_KEY_ID	All (default) 🛱
BOT_GIT_PRIVATE_KEY_FILE Constitution File Expanded	All (default) 🔓
GITLAB_API_READ_TOKEN Control Masked Expanded	All (default) 🔓
GITLAB_API_WRITE_TOKEN Control Protected Masked Expanded	All (default) 🔓
BOT_READ_REPO_TOKEN [Companies of the c	All (default) 🛱
BOT_READ_REPO_TOKEN_USER [2] Expanded	All (default) 🔓
BOT_TOKEN Commonwealth Masked Expanded	All (default) 👸

